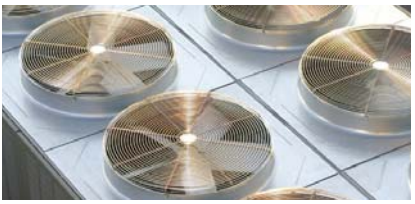
Residential and Commercial

HVACR Standard Motor Catalog



HEATING

VENTILATION

AIR CONDITIONING

REFRIGERATION

AGRICULTURE

Rely on US™

You can rely on the U.S. MOTORS® brand to offer Pool and Spa Motors that are highly respected products in the industry. Every day we strive to be a better partner with you and answer your needs through our responsive, knowledgeable and collaborative team. We understand the needs and goals of the industry and innovate products to meet those ever changing demands. Our brand is dedicated to the success of customers who in turn always **Rely on US.™**

NIDEC MOTOR CORPORATION

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- **HVACRTechServices@nidec-motor.com**

For additional details, please contact your Customer Service Representative or Territory Manager.

Quick Summary
HVACR Motor Cross Reference

Motor Description	Model U.S. MOTORS®	RESCUE Upgrade	High Efficiency Upgrade	Model AOS/Century	Model Fasco	Model Genteq	Model Magnetek	Model Marathon
Condenser Fan, Totally Enclosed, AIII Position Mounting								
1/6 HP	1859	5462	1859PEP	FSE1016SV1	D917	3727	184	X411
1/4 HP	1860	5462	1860PEP	FSE1026SV1	D909	3728	176	X412
1/3 HP	1861	5462	1861PEP	FSE1036SV1	D908	3729	175	X413
1/2 HP	1862	5465	1862PEP	FSE1056SV1	D907	3730	187	X414
3/4 HP	1868	5482H		FSE1076SV1	D933	3731	779	X095
Condenser Fan, Open Drip-Proof, Shaft Up or Horizontal Applications								
1/6 HP		5462	1859PEP	FS1016S	D927	3327		
1/4 HP	3851	5462	1860PEP	FS1026S	D749	3328	0500	X213
1/3 HP	6880	5462	1861PEP	FS1036S	D748	3329	0501	X214
1/2 HP	3852	5465	1862PEP	FS1056S	D745	3330	0502	X221
3/4 HP	3097	5482H		FS1076S	D929	3331	738	X298
Direct Drive 115 Volts								
1/4 HP	1863	5460	5522ET	DL1026	D721	3583	0533	X000
1/3 HP	1864	5460	5522ET	DL1036	D727	3585	0532	X002
1/2 HP	1865	5460	5532ET	DL1056	D701	3587	0531	X004
3/4 HP	8904	5470	5542ET	DL1076	D728	3589	0678	X009
1 HP	8906		5552ET	BDL1106				
Direct Drive 208-230 Volts								
1/4 HP	1971	5461	5522ET	D1026	D725	3584	0530	X001
1/3 HP	1972	5461	5522ET	D1036	D923	3586	0529	X003
1/2 HP	1973	5461	5532ET	D1056	D703	3588	0528	X005
3/4 HP	8905	5471	5542ET	D1076	D729	3590	0679	X010
1 HP	8907		5552ET	BDL1106				
Belt Drive 115 Volts								
1/4 HP	8000			GF2024		4701	933	B206
1/3 HP	8100			GF2034		4706	934	B207
1/2 HP	8200			GF2054		4708	935	B208
Oil Burner								
1/8 HP 1725 RPM	3196			EL2005		4782	723	O600
1/7 HP 3450 RPM	3274			OBK6002		4777		O701
1/7 HP 3450 RPM	5866			EL2002V1		4779	F225	O100
1/7 HP 3450 RPM	3083			EL2002		4779	F225	O100
1/6 HP 1725 RPM	3252			EL2014		4784	726	O601
1/4 HP 3450 RPM	2302			EL2022		4785	F335	O004
Three Phase GP ODP 1800 RPM 208-230/460 Volts NEMA Premium®†								
1HP 143T	D1E2D		D1P2D	E100		K2005	E100	E715
1-1/2HP 145T	D32E2D		D32P2D	E101		K2006	E101	E716
2HP 145T	D2E2D		D2P2D	E102		K2007	E102	E717
3HP 182T	D3E2D		D3P2D	E226		S2504	E226	E718
5HP 184T	D5E2D		D5P2D	E227		S2511	E227	E719
7-1/2HP 213T	D7E2D		D7P2D	E300		S2518	E300	E720
10HP 215T	D10E2D		D10P2D	E301		S2525	E301	E721
15HP 254T	D15E2D		D15P2D	E449		S2532	E449	E722
20HP 256T	D20E2D		D20P2D	E457		S2539	E457	E723
25HP 284T	D25E2D		D25P2D	E546		S2127	E546	E724

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How To Use Motor Listings

Select the Application:
Air Conditioner, Fan, Pump, etc.

Select the Motor Type:
Capacitor Start, Split Phase, Shaded Pole, Permanent Split Capacitor, Or Three Phase

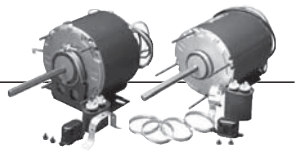
Select the Enclosure:
Open Drip-Proof,
Totally Enclosed, etc.

Select the Mounting Type:
Resilient Base, Rigid Base, Stud, etc.

Select Other Parameters:
Horsepower, Voltage, Speeds, Service Factors, Bearing type, etc.

Order Motors by Catalog Number

Permanent Split Capacitor Condenser Fan
5.6" Diameter, Open Drip-Proof, Air Over



APPLICATIONS:
For use on condenser cooling fans.

FEATURES:

- High Efficiency Economizer® Rated (except as noted)
- 20" or 30" Leads unless otherwise noted
- Double Flats on Shaft—Economizer® Models
- Capacitor Mounting Holes in Frame Band
- Designed for use with 370V Capacitors
- Automatic Reset Thermal Overload Protector
- Bearings have All Angle Thrust System
- Enclosed Endshield at Shaft End
- Continuous Duty, Air Over
- Class B Insulation
- Green Ground Lead
- Extended Studs
- 60 Hz
- Reversible Rotation
- Water Slinger

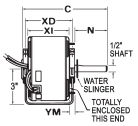


Figure A

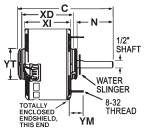


Figure B

Resilient Base, Shaft Up or Horizontal, With Capacitor

HP	RPM/ Spds.	Voltage	Catalog Number	Bearings	Cap. MFD	Amps	Shaft N	Base XD	Shell XI	Total C	Stud YM	Ship Wt.	Notes	OEM
1/4	1075	230	3846	SAB	5.0	1.9	4.9	5.1	4.6	10.4	1	15	62	
1/3	1625	230	4811	SAB	5.0	1.8	4.9	5.1	4.6	10.7	1	16		
	1625	230	4961	Ball	5.0	1.8	4.9	5.1	4.6	10.7	1	17	62	
	1075	230	3847	SAB	7.5	2.2	4.9	5.5	4.9	10.9	1	16		
	1075	230	4960	Ball	7.5	2.2	4.9	5.4	4.8	10.9	1	16		
1/2	1075	230	3848	SAB	7.5	3.1	5.0	6.5	5.9	12.0	1	19		
	1075	230	7025	Ball	7.5	3.1	4.9	6.4	6.0	11.9	1	18		

Hub Ring Mount (2 1/4"), Shaft Up or Horizontal, Without Capacitor (unless otherwise noted)

HP	RPM/ Spds.	Voltage	Catalog Number	Bearings	Cap. MFD	Amps	Shaft N	Base XD	Shell XI	Total C	Stud YM	Ship Wt.	Notes	OEM
1/8-1/5	1075	230	8537	SAB	5.0	0.8/1.4	3.31	4.1	3.56	7.4		10	62	RH
1/3	825	230	5345	Ball	5.0	3.0	6.0	6.9	6.4	12.9	1	19	64	
	825	208-230	7040	Ball	7.5	2.7	6.0	6.4	6.0	12.4	1	18		
1/2	825	230	7041	Ball	12.5	2.8	6.0	6.7	5.8	13.2	1	21		

RH = Rheem

Note 62: Not an Economizer® model
Note 64: Capacitor Supplied Detached

All dimensions given in inches unless otherwise noted.

HVACR Motor OEM Code Reference

Many HVACR motors have been designed as direct replacement for OEM applications. Such ratings are identified by a two digit code in the right most column of the motors listings. These codes correspond with the following original equipment manufacturers (OEM).

Additional information about each of the OEM motors in the OEM Replacement section of the catalog, pages 7–25.

Code	OEM
AA	Aaron
AD	Addison
SE	Sears
AM	Amana
AR	Arkla
BO	Bohn
CA	Carrier
CO	Copeland
DB	Dunham Bush
FE	Fedders
GB	Gibson
HR	Hill Refrigeration
HU	Hussmann

Code	OEM
IC	ICP
IE	IEC
KR	Krack
LA	Larkin
LE	Lennox
MQ	McQuay
MI	Miller
RH	Rheem
TE	Tecumseh
TR	Trane
TY	Tyler
WP	Whirlpool
YK	York

Catalog Numbering System (IHP)

C	25	E	( )	2	B	( )	( )	C	R	( )
CORRO-DUTY®	25 HP	Energy Efficient Three Phase		4 Pole	230/460 Volts			C-Face	No Base (Footless)	
1	2	3	4	5	6	7	8	9	10	11

1 PRODUCT FAMILY

8P	841 PLUS®
A	AUTOMOTIVE DUTY
AB	AUTO DUTY BRKLESS BRKMTR
B	INVERTER DUTY BLOWER COOLED
BD	BELT DRIVE FAN
BF	BRAKE MOTOR-FAST
BM	BRAKE MOTOR
BMU	UNIMOUNT® BRAKE MOTOR
BR	BRAKE MOTOR-FCR
C	CORRO-DUTY®
CA	CORRO-DUTY® ARCTIC DUTY
CJ	CORRO-DUTY® CCP
CO	CONDENSER FAN
D	ODP GEN. PURPOSE
DC	ODP COMPRESSOR
DD	DIRECT DRIVE FAN
DH	DRY HYDRO
DJ	ODP CCP MOTOR
E	ELEVATOR MOTOR - L32 FLANGE
EE	COMMERCIAL PUMP/GEN. PURPOSE
ELT	E-LINE®
EZ	ELEVATOR MOTOR - Z-FLANGE
FD	FARM DUTY
FDU	FARM DUTY - ULTRA HIGH TORQUE
FF	FIREPUMP
FP	FLOOR POLISHER - 1 PHASE
H	HOSTILE DUTY
HC	HOSTILE DUTY - ALL CAST IRON
HJ	HOSTILE DUTY CCP
HO	HIGH THRUST OPEN
HS	HIGH THRUST OPEN - 1 PHASE
HT	HIGH THRUST TEFC
HVW	COOLING TOWER TEAO
HW	COOLING TOWER TEFC
J	CCP
JD	JET PUMP OPEN MOTOR
JT	JET PUMP TEFC MOTOR
KT	FINISHED GOODS KITS
LD	L.S. BUYOUT ODP
LT	L.S. BUYOUT TEFC
M	IEC METRIC
NO	NORMAL THRUST OPEN
NT	NORMAL THRUST TEFC
PD	PEDESTAL FAN
PF	POWER FACTOR CORR CAPS
PT	POWER TOOL
PW	PRESSURE WASHER
S	UNIMOUNT® ROLLED STEEL
T	TEFC
TA	TEAO
TN	TENV
U	UNIMOUNT®
UI	UNIMERSE®
UJ	UT CCP
UN	UT TENV
UV	UT TEAO
VB	VECTOR BLOWER COOLED
VN	VECTOR NON-VENT
WD	WASHDOWN DUTY
WDP	WASHDOWN DUTY PAINT FREE
WDS	WASHDOWN DUTY ALL STAINLESS
WI	WEATHER PROTECTED TYPE I
WII	WEATHER PROTECTED TYPE II
X	HAZ. LOCATION DUAL LABEL
XA	HAZ. LOCATION AUTOMOTIVE DUTY
XC	HAZ. LOCATION DUAL LABEL CORRO-DUTY®
XJ	HAZ. LOCATION DUAL LABEL CCP
XS	HAZ. LOCATION DUAL STEEL FRAME
Y	HAZ. LOCATION SINGLE LABEL
YC	HAZ. LOCATION SINGLE LABEL CORRO-DUTY®
YS	HAZ. LOCATION SINGLE LABEL CCP

2 HP

00	SPECIAL
0110	1/10
0112	1/12
18	1/8
16	1/6
14	1/4
13	1/3
12	1/2
34	3/4
1	1
32	1-1/2
2	2
3	3
5	5
7	7-1/2
10	10
15	15
20	20
25	25
30	30
40	40
50	50
60	60
75	75
100	100
125	125
150	150
200	200
etc.	

3 ELECTRICAL

A	PERM SPLIT CAP (1Ø)
B	SPLIT PHASE (1Ø)
C	CAP START (1Ø)
D	CONSTANT TORQ 2WDG (3Ø)
E	ENERGY EFFICIENT (3Ø)
F	CONSTANT HP 1WDG (3Ø)
G	CONSTANT HP 2WDG (3Ø)
K	VAR TORQ 2WDG (3Ø)
L	VAR TORQ 1WDG (3Ø)
P	PREMIUM EFFICIENT (3Ø)
Q	DESIGN C (3Ø)
R	CONSTANT TORQ 1WDG (3Ø)
S	STD EFFICIENT (3Ø)
T	INV DUTY CON TORQ (3Ø)
V	INV DUTY VAR TORQ (3Ø)

DEFAULT MULTI-SPEED IS STD EFF
P&E PRECEDING MULTI-SPD ARE

P	PREM EFF
E	ENERGY EFF

4 SECOND ELECTRICAL

FRACTIONAL & TITAN® WHERE REQUIRED

A	AUTO PROTECT
M	MANUAL PROTECT
R	INSTANT REVERSING GATE & DOOR
T	TWO COMPARTMENT
Y	TITAN® F RISE @ 1.0 SF

5 POLES

1	2P
2	4P
3	6P
4	8P
5	10P
6	12P
7	14P
8	16P
9	4/8P
10	4/6P
12	2/4P
26	4/12P
34	6/8P
36	6/12P

6 VOLTAGES

2	2300
A	208-230/460 or 200-230/460
B	230/460
C	460
D	208-230/460 & 190/380
E	230/460 & 190/380
F	460/380
G	575
H	200
I	90
J	115/208-230
K	230 & 208-230
L	110/220
M	220/440 & 208-220/440
N	115
P	115/230
O	180 (DC) & 190/380 (DC)
R	220/380-440 (Y-DELTA)
S	460 PWS
T	208/230
U	230/460 & 190/380 & 220/415
V	4000
W	2300/4000
X	200/400
Y	220/415
Z	OTHER

7 FRAME

DEFAULT 56 FRAME
(FRACTIONAL 3Ø & ALL 1Ø)
NEMA FRAME ASSIGNMENT
(INTEGRAL HP)

FRACTIONAL 3Ø & ALL 1Ø
- 4 = 48
- 42 = 142
- 14 = 140
- 18 = 180
- 21 = 210
- H = SPECIAL NEMA 56H

INTEGRAL HP 3Ø
- F = DOWN FRAME
- G = UPFRAME

AIR CIRCULATORS/FANS
- 20 = 20" CIRC. HEAD DIA.
- 24 = 24" CIRC. HEAD DIA.
- 30 = 30" CIRC. HEAD DIA.

8 SHAFT (1ST DIGIT)

DEFAULT T SHAFT; STD 48 OR 56
VSS (VERTICAL)

S	SHORT SHAFT
L	VHS
M	JM
P	JP
J	WEST COAST CCP
T	TM SHAFT
U	JMV
V	JPV
Z	SPECIAL

9 FLANGE (2ND DIGIT)

DEFAULT NONE (HORZ)
P-BASE (VERT)

A	SLEEVE BEARING
B	ROLLER BEARING
C	C-FACE
D	D-FLANGE
K	TCH (SPECIAL 'AK')
O	SQUARE FLANGE
Y	SPECIAL

10 BASE (3RD DIGIT)

DEFAULT F-1 RIGID BASE

R	NO BASE (FOOTLESS)
2	F-2 ASSEMBLY
3	F-0 ASSEMBLY
5	W-5 ASSEMBLY
6	W-6 ASSEMBLY
7	YOKE MOUNT
8	W-8 ASSEMBLY
9	RESILIENT BASE
E	P-BASE 10" BD
F	P-BASE 12" BD
G	P-BASE 16.5" BD
H	P-BASE 20" BD
J	P-BASE 24.5" BD

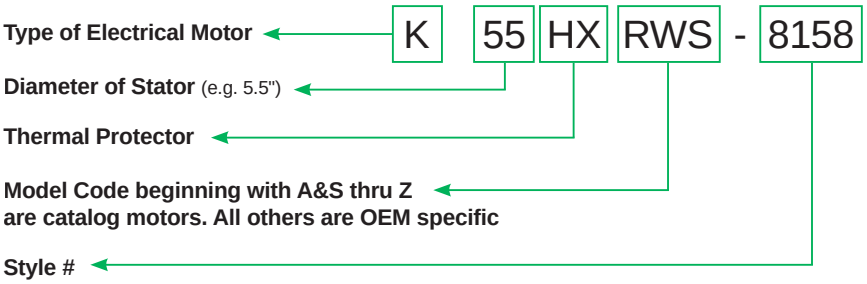
11 SPECIAL FEATURES (4TH DIGIT)

N	NO NRR (SRC) (VERT)
S	SPECIAL MOUNTING
T	TUNGSTEN SEAL (VERT)
X	EXTRA HIGH THRUST (VERT)
-C	CONVERSION
-P	PRODUCTION

Model Number Explanation (FHP)

U.S. MOTORS®

K55HXRWS-8158



- **First letter describes the type of motor**
- **K55HXRWS-8158**
  - **F = Shaded Pole**
  - **K, KA = Permanent Split Capacitor**
  - **C, CA or KS = Capacitor Start**
  - **P = Poly Phase**
  - **R or RK = Resistance Start - Capacitor Run**
  - **S, SA = Split Phase**

Suitability of Integral Horsepower (IHP)* Motors on Variable Frequency Drives

Variable Frequency Drives (VFD)

All Nidec Motor Corporation inverter duty motors have 40°C ambient, 1.0 SF on Inverter Power, 3300 ft. max altitude, 460 voltage or less line power, up to 10:1 speed range on Variable Torque and Class F Insulation.

Nidec Motor Corporation's INVERTER GRADE® insulated motors exceeded NEMA®† MG-1 Part 30 & 31 before the standards were established.

We are a leader in the development of electric motors to withstand pulse width modulated (PWM) drives evolution from power transistors to higher switching frequency insulated gate bipolar transistors (IGBTs).

Today, as the need for medium duty motor inverter applications grows, Nidec Motor Corporation provides products to meet these demands.

Through continued research and development, Nidec Motor Corporation has included the insulation wire from its INVERTER GRADE® motors in all Premium Efficient motors, enhancing their potential inverter compatibility.

Inverter compatibility with motors is complex. As a result, many variables must be considered when determining the suitability of certain types of motors. These variables include:

- Torque requirements (Constant or Variable)
- Speed Range
- Line/System Voltage
- Cable Length between VFD & Motor
- Drive Switching (Carrier) Frequency Motor Construction
- VFD dv/dt
- High Temperatures High Humidity

Wider speed ranges, higher voltages, higher switching frequencies and increased cable lengths all add to the severity of the application and therefore the potential for premature motor failure. Nidec Motor Corporation has differentiated its products into families for your ease of selection for various inverter applications.

Warranty Guidelines

The information within this section refers to the motor and drive application guidelines and limitations for warranty.

Hazardous Location Motors

Use of a variable frequency drive with the motors in this catalog, intended for use in hazardous locations, is only approved for Division 1, Class I, Group D hazardous location motors with a T2B temperature code, with a limitation of 2:1 constant torque or 10:1 variable torque output. No other stock hazardous location motors are inherently suitable for operation with a variable frequency drive. If other requirements are needed, including non-listed Division 2, please contact your Nidec Motor Corporation territory manager to conduct an engineering inquiry.

575 Volt Motors

575 volt motors can be applied on inverters when output filters are used.

Applying INVERTER GRADE® Insulated Motors on Variable Frequency Drives (2, 4, 6 pole)

The products within this catalog labeled "Inverter Duty" or "Vector Duty" are considered INVERTER GRADE® insulated motors. INVERTER GRADE® motors exceed the NEMA®† MG-1 Part 31 standard.

Nidec Motor Corporation provides a three-year limited warranty on all NEMA®† frame INVERTER GRADE® insulated motors and allows long cable runs between the motor and the VFD (limited to 400 feet typical without output filters). Cable distance can be further limited by hot and humid environments and VFD manufacturers cable limits. These motors may be appropriate for certain severe inverter application or when the factors relating to the end use application are undefined (such as spares).

Nidec Motor Corporation's U.S. Motors® brand is available in the following INVERTER GRADE® insulated motors:

- Inverter Duty NEMA®† frame motors good for 10:1 Variable Torque & 5:1 Constant Torque, including Vertical Type RUSI
- Inverter Duty motors rated for 10:1 Constant Torque
- ACCU-Torq® and Vector Duty Motors with full torque to 0 Speed
- 841 Plus® NEMA®† Frame Motors

*This information applies only to Integral Horsepower (IHP) motors as defined on the Agency Approval page, under UL®† & CSA®† listings where indicated.

† All marks shown within this document are properties of their respective owners.

Suitability of Integral Horsepower (IHP)* Motors on Variable Frequency Drives

Applying motors that do not have INVERTER GRADE® insulation on Variable Frequency Drives (2, 4, 6 pole)

Meet NEMA®† MG-1, Section IV, Part 31.4.4.2. They can be used with adjustable frequency drives under the following parameters: On NEMA®† frame motors, 10:1 speed rating on variable torque loads & 4:1 speed range on constant torque loads. On TITAN® frame motors, 10:1 speed rating on variable torque loads. On TITAN® frame motors, inquiry required for suitability on constant torque loads. Cable distances are for reference only and can be further limited by hot and humid environments. Refer to specific VFD manufacturers cable limits.

Cable Distances			
Maximum Cable Distance VFD to Motor			
Switching Frequency	460 Volt	230 Volt	380 Volt
3 Khz	127 ft	400 ft	218 ft
6 Khz	90 ft	307 ft	154 ft
9 Khz	73 ft	251 ft	126 ft
12 Khz	64 ft	217 ft	109 ft
15 Khz	57 ft	194 ft	98 ft
20 Khz	49 ft	168 ft	85 ft

Applying Standard & Energy Efficient Motors on Variable Frequency Drives is not recommended. VFD related failures on standard and energy efficient motors 444 frame and above will not be covered under warranty.

Agency Approvals

ISO 9001:2000 Certified

By British Standards Institute of America

CSA International (CSA®†)

Formally the Canadian Standards Association

CSA®† sets safety standards for motors and other electrical equipment used in Canada. The motors that meet the CSA®† standards display the CSA®† logo on the nameplate.

Underwriters Laboratories, Inc. (UL®†)

UL®† is an independent testing organization that sets safety standards for motors and other equipment and U.S. Motors® brand are UL®† component recognized.

Conformité Européenne European Community (CE Certification)

Nidec Motor Corporation provides a full line of general purpose CE certified motors. The CE marking indicates that the product complies with the essential requirements for health, safety, environmental and consumer protection. The CE mark can only be placed on those products that comply with the applicable European Directive. For U.S. Motors® brand, the CE logo is currently applied to non-hazardous location motors rated 1000 volts or less, frame 180 through 449, Dripproof and Totally Enclosed Fan Cooled enclosures. Many Nidec Motor Corporation motors have the CE logo. For information on motors with CE logos, contact your Nidec Motor Corporation representative. Other motors within this catalog that meet CE requirements will be labeled and certified to meet CE.

UL®† & CSA®† Listings

	UL®†		CSA®†	
	IHP	FHP	IHP	FHP
General Construction	E51488	E22922	191252	156060
Hazardous Location	E10336	E29183		
Thermal Protection	E38946	E10073		
Fire Pump	EX5189	-	-	-

† All marks shown within this document are properties of their respective owners.

Motor / Inverter Compatibility

Thermal Overloads and Single Phase Motors

Motors with thermal overloads installed may not operate properly on a VFD. The current carrying thermal overload is designed for sine wave power. Operation on a VFD may cause nuisance tripping or potentially not protect the motor as would be expected on line power. Thermo-stats or thermistors installed in the motor and connected properly to the VFD may provide suitable thermal overload protection when operating on a VFD. (Consult Codes)

Single phase motors and other fractional horsepower ratings are not designed to be operated on a VFD. Within Nidec Motor Corporation standard products, all motors NEMA®† 48 frame (5.5" diameter) and smaller are not suitable for VFD applications. Three phase 56 and 143/145 frame applications should be noted on the catalog price page; or if in doubt ask an Nidec Motor Corporation technical representative for recommendations on compatibility with a VFD.

Slow Speed Motors

Motors with a base design of slower than six poles require special consideration regarding VFD sizing and minimizing harmonic distortion created at the motor terminals due to cable installation characteristics. Additional external PWM waveform filters and shielded motor cables designed for PWM power may be required to provide acceptable motor life. Harmonic distortion on the output waveform should be kept to a minimum level (less than 10%).

690V Applications

Motors that will be applied to 690VAC PWM VFDs require the use of an external filter to limit peak voltage spikes and the use of an INVERTER GRADE® motor. Where available, an alternative to using an output filter is to upgrade to a 2300V insulation system.

Low Voltage TITAN® Motors

When using 449 frame and larger motors on PWM type VFDs consider the use of an external filter and shielded motor cables designed for PWM power to minimize harmonic distortion and peak voltages at the motor terminals. Harmonic distortion on the output waveform should be kept to a minimum level (less than 10%).

Bearing Currents related to PWM waveform

Due to the uniqueness of this condition occurring in the field, protection of the motor bearings from shaft currents caused by common mode voltages is not a standard feature on sine wave or Inverter Duty motor products, unless explicitly noted. Some installations may be prone to a voltage discharge condition through the motor bearings called fluting.

Fluting damage is related to characteristics of the PWM waveform, VFD programming and characteristics and installation.

Bearing fluting as a result of VFD waveform characteristics may be prevented by the installation of a shaft grounding device such as a brush or ring and/or correction of the installation characteristics causing the shaft voltage condition. Insulated bearing(s) may be required. VFD filters may be needed if bearing fluting is to be avoided.

Multiple Motors on a Single VFD

Special considerations are required when multiple motors are powered from a single VFD unit. Most VFD manufacturers can provide guidelines for proper motor thermal considerations and starting/stopping of motors. Typically, motors with automatic thermal protection are not recommended. Cable runs from the VFD and each motor can create conditions that will cause extra stress on the motor winding. Filters may be required at the motor to provide maximum motor life.

Grounding and Cable Installation Guidelines

Proper output winding and grounding practices can be instrumental in minimizing motor related failures caused by PWM waveform characteristics and installation factors. VFD manufacturers typically provide detailed guidelines on the proper grounding of the motor to the VFD and output cable routing. Cabling manufacturers provide recommended cable types for PWM installations and critical information concerning output wiring impedance and capacitance to ground.

Vertical Motors on VFDs

Vertical motors operated on VFD power present unique conditions that may require consideration by the user or installation engineer:

- Non-reversing-ratchet operation can interfere at low speeds (up to 300 RPM) causing locked rotor and drive tripping.
- Unexpected / unacceptable system vibration and or noise levels caused by the torque pulsation characteristics of the PWM waveform, a system critical frequency falling inside the variable speed range of the process or the added harmonic content of the PWM waveform exciting a system component
- Application related problems related to the controlled acceleration/ deceleration and torque of the motor on VFD power and the building of system pressure/ load.
- The impact the reduction of pump speed has on the down thrust reflected to the pump motor and any minimum thrust requirements of the motor bearings
- Water hammer during shutdown damaging the non-reversing ratchet

Humidity and Non-operational Conditions

The possible build-up of condensation inside the motor due to storage in an uncontrolled environment or non-operational periods in an installation, can lead to an increased rate of premature winding or bearing failures when combined with the stresses associated with PWM waveform characteristics. Moisture and condensation in and on the motor winding over time can provide tracking paths to ground, lower the Megohm resistance of the motor winding to ground, and lower the Corona Inception Voltage level of the winding.

Proper storage and maintenance guidelines are important to minimize the potential of premature failures. Space heaters or trickle voltage heating methods are the preferred methods for drying out a winding that has low megaohm readings. Damage caused by these factors are not covered by the limited warranty provided unless appropriate heating methods are properly utilized during non-operational periods and prior to motor start-up.

NEMA®† Application Guide for AC Adjustable Speed Drive Systems: http://www.nema.org/stds/acadjustable.cfm#download

*This information applies only to Integral Horsepower (IHP) motors as defined on the Agency Approval page, under UL®† & CSA®† listings where indicated.

Limited Warranty

Refer to usmotors.com website for the most up-to-date warranty information.

All Nidec Motor Corporation products shall carry the limited warranty of 12 months from the date of installation, not to exceed 18 months from date of manufacture except those specifically listed below, or noted within individual product family pages within this catalog.

	Installed / Manufactured	Installed / Manufactured
Industrial Motors 140 - 447 Frames	**Sine Wave Power**	**VFD Power**
Epact	18 / 24 months	12 / 18 months
Premium Efficient & NEMA®† Premium	36 / 42 months	24 / 30 months
Inverter Duty	36 / 42 months	36 / 42 months
841 PLUS®	60 / 66 months	24 / 30 months
Auto Duty Premium Efficient	36 / 42 months	24 / 30 months
Single Speed NEMA®† Premium Efficient Cooling Tower	36 / 42 months	24 / 30 months
ACCU-Torq®	36 / 42 months	24 / 30 months
TITAN Motors - 449 Frame and Larger	**Sine Wave Power**	**VFD Power**
Auto Duty Premium Efficient	24 / 30 months	18 / 24 months
Premium Efficient	24 / 30 months	18 / 24 months
841 PLUS®	24 / 30 months	18 / 24 months
Inverter Duty	24 / 30 months	24 / 30 months
FHP Special Warranties		
PEP PSC Condensers	24 / 30 months	
RESCUE ECM Watt	24 / 30 months	
RESCUE EcoTech	24 / 30 months	
RESCUE Select	24 / 30 months	
RESCUE Liberty	24 / 30 months	

† All marks shown within this document are properties of their respective owners.

Heating & Air Conditioning

For use in condensing units, furnaces, evaporative coolers, commercial package equipment and conditioned air systems.

Horsepower: 1/10 – 2 HP

Phase: Single and Three Phase

RPM: 825, 1075, 1625 or 3450 RPM

Voltage: 115, 208-230, 460 or 575 Volts, 60 Hz; some motors are rated 50/60 Hz

Efficiency: Standard and Premium

Enclosure:
- Open Drip-Proof (ODP)
- Totally Enclosed, Air Over (TEAO)

Mounting: Extended Stud or Resilient Rings. Also many have mounting hardware or shell holes. Other hardware available in accessory section.

Bearings: Self Aligning or Ball available

Lubrication: Permanent on most units

Temp Rise: Class A or B as noted

Thermal Overload: Internal automatic thermal overloads unless otherwise noted

Agency: UL®† Recognized and CSA®† Certified

RESCUE ECOTECH®

- ECM blower upgrade for PSC applications
- Up to 82% efficient
- Quick and easy installation

PEP®

- Premium Efficient PSC Condenser Fan
- Patented design up to 76% efficient

MOJAVE®

- MOJAVE 70° High Ambient Design
- Totally Enclosed, Air Over Design for all angle mounting

RESCUE® PerfectSpeed® EC Motor

- Provides 1-10V on board or remote speed adjustment capability

† All marks shown within this document are properties of their respective owners.

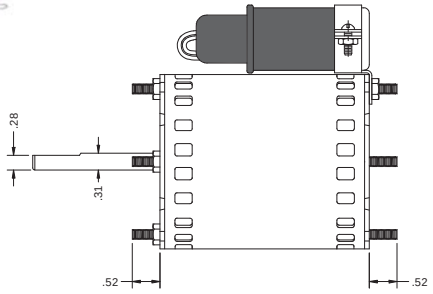
RESCUE® PSC Direct Drive Fan 3.3" Diameter, Open Air Over

APPLICATIONS:

High Efficiency PSC motors for refrigeration evaporator and general purpose.

FEATURES:

- Four 8-32 x 3/4" Stud Extensions At Each End
- Ball Bearings Have All Angle Thrust System
- Automatic Reset Thermal Overload Protector
- 9656 and 9662 feature dual plug cord for flexibility
- Reversible Rotation
- PSC Design with Capacitor Included
- 12" Leads



Open Air Over

HP	RPM	Voltage	Catalog Number	Enclosure	Cap. MFD	Amps	Shell Length	Shaft Dia. x Length	Ship Wt.	Notes	OEM
1/20	1550	115	9662	OAO	3	0.85	3.3	0.31 x 3.0	4	86, H30	BO, LA
1/15	1550	208–230	9656	OAO	2*	0.48	3.9	0.30 x 3.0	4	86, H30	BO, LA
1/12–1/20	1550	115/230	9664	OAO	5	1.3/0.7	4.1	0.31 x 2.5	4	H38	BO, LA

BO = Bohn LA = Larkin

* 440 VAC Capacitor

RESCUE®
ECM Refrigeration Motor

EC5411

APPLICATIONS:

High efficient ECM refrigeration evaporator.

FEATURES:

- IP67: Capable of being submerged in water upto 30 minutes
- Suitable for use in Evaporator and Condenser Applications
- High Efficiency up to 70%
- Universal Mounting
- Standard 3 hole style/Hussmann 4 hole on back of motor
- Dual Voltage: No connection change required
- Thermally Protected
- Robust Ball Bearing System
- Aluminum Frame
- Standard Shaft Size 1/4-20 thread
- Operating Temperature Range: -40°C to 55°C
- Meets ATEX Directive 94/9/EC

Now IP67 and Dual Voltage

HP	RPM/ Spds	Voltage	Catalog Number	Amps*	Rotation	Shaft N	Total C	Shaft Diameter	Ship Wt.	Notes
4-25W	1550-1725	115-230	EC5411D	.2-.75	CWOSE	0.425	2.9	0.250	2.0	-
4-25W	1550-1725	115-230	EC5412D	.2-.75	CCWOSE	0.425	2.9	0.250	2.0	-

Kit 58 adapter available to be used when replacing rectangular, 51 frame, ECM motors to adjust for fan position or when a flat mounting surface is needed.

Kit 58

*Amps: .22 - .75 @115V
.15 - .45 @230V

Note H30: Includes Special Cord And Plug
Note H38: PSC, Capacitor included and attached
Note 86: PSC with Capacitor

RESCUE®
ECM Walk-in Evaporator Motors

APPLICATIONS:

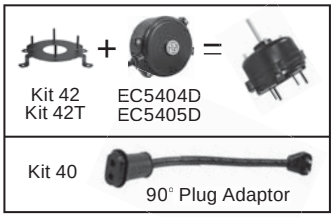
High Efficient EC Refrigeration Motor designed
for Walk-In Coolers/Freezer Applications

FEATURES:

- IP66 Dust Tight with All Angle Moisture Protection
- Suitable for use in Evaporator
- High Efficiency up to 70%
- UL/CUL Approved
- Operating Temperature Range Approximately -40°C to 55°C
- Rear Stud Mount Adaptor Kit #42 (⅝") or Kit #42T (1 ⅝")
- 90° Cable Adaptor Kit #40
- Dual Voltage: No Connection Change Required
- Body Style - Low Profile
- Standard 10-32 Thread Mounting Studs
- 27" Lyall Plug
- Thermally Protected
- Robust Ball Bearing System
- Meets ATEX Directive 94/9/EC

HP	RPM/Spds	Voltage	Catalog Number	*Amps	Rotation	Shaft Length	Total C	Shaft Diameter	Ship Weight	Notes
1/15, 1/25 (50W-30W)	1550-1625	115-230	EC5404D	.60-.72@115V .40-.67@230V	CWOSE	2.0	4.875	0.313	3.0	
1/15, 1/25 (50W-30W)	1550-1625	115-230	EC5405D		CCWOSE	2.0	4.875	0.313	3.0	
1/15, 1/25 (50W-30W)	1550-1625	115-230	EC5406D		CCWOSE	2.0	4.875	0.313	3.0	A

* Amp draw varies by voltage, applies to both motors.



Note A: with only 3 studs, 120 degrees apart

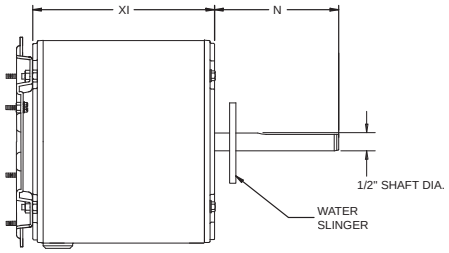
RESCUE® Motors Permanent Split Capacitor Condenser Fan 5.0" Diameter, Totally Enclosed, Air Over (TEAO)

APPLICATIONS:

Commercial and Residential Condensing Units. Can replace a range of horsepower application and a variety of mounting styles.

FEATURES:

- EZ-FIT® mounting system to cover 4.3", 4.4" or 4.6" bolt circle mounts
- High 158°F (70°C) Ambient Designs
- Automatic Reset Thermal Overload Protector
- Designed For Use With 370V Capacitors
- Special Treated Rotor For Corrosion Protection
- 36" Leads
- Extended Mounting Studs
- Ball Bearings
- Reversible Rotation
- High Efficiency Design
- Continuous Duty, Air Over
- Reversible Rotation



42 Frame (5.0" Diameter) EZ-FIT® Motor Mounting System

HP	RPM	Voltage	Catalog Number	Ambient Rating	Spd Taps	230V Cap MFD	Amps	Shaft N	Total C	
1/8-1/12	1075	208-230	5440H*	70C(158F)	1	5.0	0.8	3.0	8.0	
1/4-1/6	1075	208-230	5441H*	70C(158F)	1	5.0	1.5	3.0	8.5	
1/4-1/8	1625	208-230	5442H	70C(158F)	1	5.0	1.5	3.0	8.5	NEW

**Previously known as 5440 and 5441.*

EZ-FIT® Motor Mounting System consolidates three bolt circle diameters into one adapter bracket that allows the end user to adjust bolt circle mounting diameter.

Motor is shipped with studs in position for Clam Shell (● 4.3" BC) Easily adapts to a 4.4" or 4.6" bolt circle for other applications.

For replacement of clam shell and stud mount designs:

Clam Shell
● 4.3" Bolt Circle

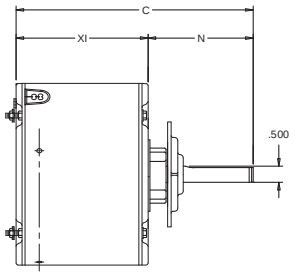
3 Pc
●● 4.4" Bolt Circle

3 Pc
●●● 4.6" Bolt Circle

RESCUE® Motors Permanent Split Capacitor Condenser Fan 5.6" Diameter, Totally Enclosed, Air Over (TEAO)

APPLICATIONS:

Commercial and Residential Condensing Units. Can replace a range of horsepower application and a variety of mounting styles.



FEATURES:

- High 158°F (70°C) Or 140°F (60°C) Ambient Designs
- Automatic Reset Thermal Overload Protector
- Designed For Use With 370V Capacitors
- Special Treated Rotor For Corrosion Protection
- Includes Lead End Mounting Holes For RHEEM®† or TRANE®† Units
- 48" Leads
- Extended Mounting Studs
- Ball Bearings
- Reversible Rotation
- High Efficiency Design
- Continuous Duty, Air Over
- Reversible Rotation

RESCUE® Condenser Motors available in 158°F (70°C) ambient ratings! See below

HP	RPM	Voltage	Catalog Number	Max. Ambient	Speed Tap	Cap. MFD	Amps	Shaft N	Shell XI	Total C	Ship Wt.	Notes
1/3	825	208-230	5464	140°F(60°C)	High	7.5	1.9	5	5.3	10.3	18	H43
1/4					High	7.5	1.5					
1/5					Low	7.5	1.2					
1/6					Low	7.5	1.0					
1/3	825	208-230	5464H	158°F(70°C)	High	7.5	1.9	5	5.3	10.3	18	H43
1/4					High	7.5	1.5					
1/5					Low	7.5	1.2					
1/6					Low	7.5	1.0					
1/3	1075	208-230	5462	140°F(60°C)	High	5	2.6	5	4.6	9.6	14	H43
1/4					High	5	2.5					
1/5					Low	5	2.0					
1/6					Low	5	1.8					
1/3	1075	208-230	5462H	158°F(70°C)	High	5	2.6	5	4.6	9.6	14	H43
1/4					High	5	2.5					
1/5					Low	5	2.0					
1/6					Low	5	1.8					
1/2	1075	208-230	5465	140°F(60°C)	High	10	3.0	5	5.3	10.3	19	H43
1/3					High	10	2.2					
1/4					Low	10	1.6					
1/5					Low	10	1.3					
1/2	1075	208-230	5465H	158°F(70°C)	High	10	3	5	5.3	10.3	19	H43
1/3					High	10	2.2					
1/4					Low	10	1.6					
1/5					Low	10	1.3					
3/4	1075	208-230	5482H	158°F(70°C)	High	15	4	5	6.3	11.875		H43
1/2					High	15	2.8					
1/3					Low	15	1.9					
1/4					Low	15	1.4					

460 Volt RESCUE® Condenser Fan Motors

HP	RPM	Voltage	Catalog Number	Max. Ambient	Speed Tap	Cap. MFD	Amps	Shaft N	Shell XI	Total C	Ship Wt.	Notes
1/2	1075	460	5480H	158°F(70°C)	High	10	1.3	5	5.562	11.1	19	H43
1/3					High	10	0.9					
1/4					Low	10	0.7					
1/5					Low	10	0.5					
1/6					Low	10	0.5					
3/4	1075	460	5481H	158°F(70°C)	High	15	2.2	5	6.3	11.857	22	H43
1/2					High	15	1.3					
1/3					Low	15	1.1					
1/4					Low	15	0.7					

Note H43: Side Shell & Lead End Mounting Screws Included In Carton

† All marks shown within this document are properties of their respective owners.

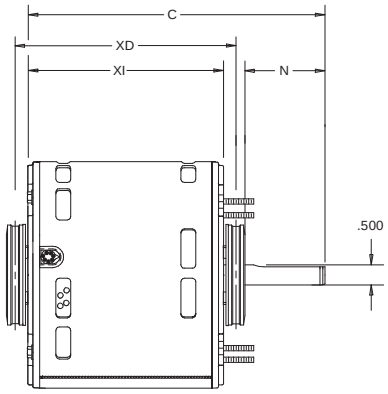
RESCUE® Motors Permanent Split Capacitor Direct Drive Fan & Blower, 5.6" Diameter, Open, Air Over

APPLICATIONS:

Commercial and Residential Air Handlers and Furnaces.
Can replace a range of horsepower applications and a variety of mounting styles.

FEATURES:

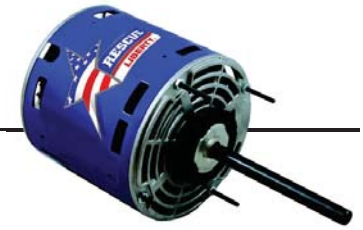
- Extended Mounting Studs
- Designed For Use With 370V Capacitors
- Class B Insulation
- 36" Leads
- High Efficiency Design®
- Includes Side Shell Holes For RHEEM®† Units
- Continuous Duty, Air Over
- Reversible Rotation
- Automatic Reset Thermal Overload Protector
- 2.5" Dia. Hub Rings Included



HP	Voltage	Catalog Number	RPM	Cool Speed Tap	Heat Speed Tap	Bearings	Cap. MFD	Amps	Shaft N	Base XD	Shell XI	Total C	Ship Wt.	Notes
1/3	208-230	5469	825	High	Med-Hi	SAB	7.5	2.4	4.5		5.3	9.8	18	H40
1/4				Med-Hi	Med-Lo		7.5	1.7						
1/8				Med-Lo	Low		7.5	0.9						
1/2	115	5460	1075	High	Med-Hi	SAB	10	7.3	5.0	5.8	5.3	10.8	16	H23, H40
1/3				High	Med-Hi		7.5	6.9						
1/4				Med-Hi	Med-Low		7.5	5.5						
1/5				Med-Low	Low		7.5	3.6						
1/6				Low	Low		7.5	2.8						
1/2	208-230	5461	1075	High	Med-Hi	SAB	10	3.6	5.0	5.8	5.3	10.3	17	H23, H40
1/3				High	Med-Hi		5	3.5						
1/4				Med-Hi	Med-Low		5	2.8						
1/5				Med-Low	Low		5	1.9						
1/6				Low	Low		5	1.3						
3/4	115	5470	1075	High	Med-Hi	Ball	20	8.1	5.0	6.6	6.1	11.6	20	H40
1/2				High	Med-Hi		10	6.6						
1/3				Med-Hi	Med-Low		10	4.6						
1/4				Med-Low	Low		10	3.8						
1/5				Med-Low	Low		10	3.1						
3/4	208-230	5471	1075	High	Med-Hi	Ball	20	4.1	5.0	6.6	6.1	11.6	20	H40
1/2				High	Med-Hi		10	3.7						
1/3				Med-Hi	Med-Low		10	2.5						
1/4				Med-Low	Low		10	1.8						
1/5				Med-Low	Low		10	1.7						

Note H23: For 1/3 To 1/6 HP, if more airflow is needed, a 7.5 MFD capacitor may be used.
Note H40: Screws for Shell Mounting Included in Carton

RESCUE® Liberty™
Condenser Fan and Direct Drive Blower



APPLICATIONS:

PSC motors for condensing unit and blower applications.
Built in Princeton, Indiana.

FEATURES:

RESCUE Liberty Condenser Fan
Multi-Horsepower Motors

- Horsepower: 1/3–1/6 HP
- Enclosure: Totally Enclosed Air Over (TEAO)
- Speed: See Below
- Rated Voltages: 208–230 Volts
- Ambient Rating: 70˚C (158˚F)
- Capacitor: 5.0 or 7.5mfd *(included)*
- Mounting: All Position Mounting, Rheem† Side Shell Holes include Rheem† and Trane† Endshield Mounting Holes
- Warranty: Two-year limited warranty from date of installation

RESCUE Liberty Furnace and Air Handler Direct Drive
Blower Multi-Horsepower Motors

- Horsepower: 1/2–1/6 HP
- Enclosure: Open Air Over (OAO)
- Speed Range: 1075 RPM
- Rated Voltages: 115 and 208–230
- Ambient Rating: 60˚C (140˚F)
- Capacitor: Compatible with 370V *(not included)*
- Mounting: Thru-Bolts, Rheem† Shell Holes, or Belly Band; Extended Mounting Studs; 2.5" Dia. Hub Rings Included
- Warranty: Two year limited warranty from date of installation

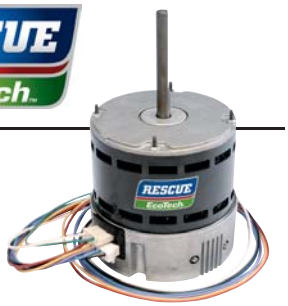
RESCUE Liberty Condenser Fan Multi-Horsepower Motor

HP	RPM	Voltage	Catalog Number	Speed	Cap MFD	Amps	Bearing	Shaft Length	Total Length
1/3–1/6	1075	208-230	US5462H	2	5	2.6/1.8	BALL	4.5	9.6
1/3–1/6	825	208-230	US5464H	2	7.5	1.9/1.2	BALL	4.5	10.3

RESCUE Liberty Furnace and Air Handler Direct Drive Blower Multi-Horsepower Motor

HP	RPM	Voltage	Catalog Number	Speed	Cap MFD	Amps	Bearing	Shaft Length	Total Length
1/2–1/6	1075	115	US5460	4	12.5-7.5	7.3	SAB	5.5	10.8
1/2–1/6	1075	208-230	US5461	4	10-5	3.6	SAB	5.0	10.3

RESCUE ECOTECH® High Efficiency Direct Drive Blower Motor

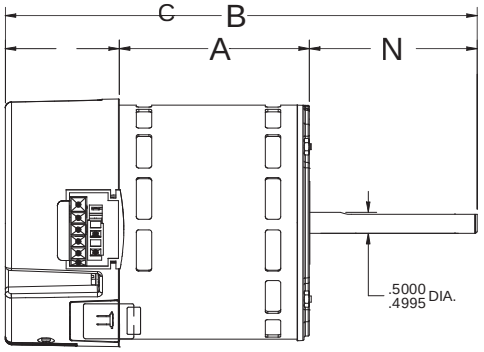


APPLICATIONS:

Drop-in replacement for PSC Direct Drive Commercial and Residential Air Handlers and Furnaces.

FEATURES:

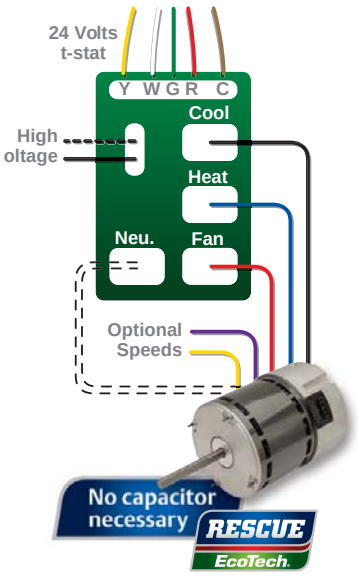
- Electronically Controlled Brushless Permanent Magnet Motor
- 40°C Ambient Rated
- Reversible Rotation
- 48 Frame (5.6" Diameter)
- No Capacitor Required
- 2 Year Warranty
- Electronically Protected Motor
- Continuous Duty, Air Over
- Ball Bearing
- Class B Insulation
- 36" Leads
- 50 Hz Capable



HP	RPM	Voltage	Catalog Number	Recommended Cooling Speed	Recommended Heating Speed	Shaft Dia. x Length	Shell Length	Total Length	Ship Wt.
1/3 – 1/5	1075	115 / 208-230	5522ET	High (Blk)	Med-Hi (YL)	.50 x 4.5	5.75	10.25	12.2
1/2 – 1/4	1075	115 / 208-230	5532ET	High (Blk)	Med-Hi (YL)	.50 x 4.5	5.75	10.25	12.2
3/4 – 1/3	1075	115 / 208-230	5542ET	High (Blk)	Med-Hi (YL)	.50 x 4.5	6.75	11.25	17.8
1 – 1/2	1075	115 / 208-230	5552ET	High (Blk)	Med-Hi (YL)	.50 x 4.5	7.25	11.75	17.9

NEW

Existing Furnace Board



For illustration purposes only.
Actual connections may vary.

- **Up to 82% Efficient** – provides a 25% increase in efficiency compared to a conventional PSC blower motors in heating and cooling. 75% watt reduction in circulation mode.
- **Exclusive Speed-Sensing Technology** – allows the RESCUE ECOTECH® motor to connect just like a traditional PSC motor
- **Fits a Wide Variety of Applications** – Will work in both air handlers and furnaces and accepts several mounting methods, including flex mounts
- **Wide Speed Range** – Five available speeds insure contractors are able to easily meet the system's airflow needs while a low 600 RPM fan speed provides quiet, efficient air circulation.
- **Active Airflow Management** – The RESCUE ECOTECH® motor's advanced electronic control allows the motor to react to changes in the system, helping to maintain airflow as static pressures change.

RESCUE® Select™ OEM Replacement ECM Blower Motor

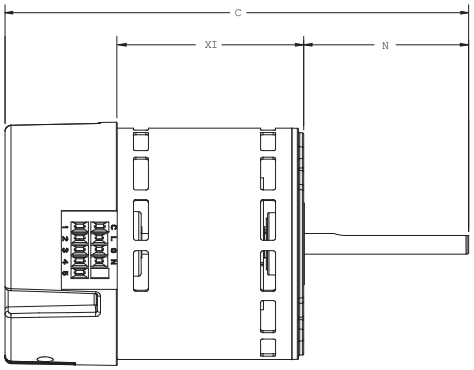
6651RS

APPLICATIONS:

Universal high efficient ECM designed as a drop-in replacement for OEM constant torque motors.

Replaces X13®† and SeleTech® constant torque ECM motors

- Programmed Torque Values set to match OEM performance*
- Uses Equipment's existing connections, for ease of installation
- High Efficiency Design
- Smooth, Quiet Start-Up and speed changes
- Potted Electric Module for Superior Moisture Protection
- 6000V Surge Protection
- Quiet Operation
- Belly Band Mounted
- Reversible Rotation
- Ball Bearings



HP	RPM/ Spds	Voltage	Catalog Number	Amps	Shaft N	Shell XI	Total C	Shaft Diameter	Ship Wt.	Notes
1	1050/Var	208-230	6651RS	6.4-6.6	4.5	5.5	12.8	0.500	18.0	-
3/4	1050/Var	208-230	6641RS	6.3-6.1	4.0	5.5	12.2	0.500	16.3	-
1/2-1/3	1050/Var	208-230	6631RS	4.6-4.3	3.5	5.5	11.8	0.500	18.8	-
1	1050/Var	115	6650RS	10.6	4.5	5.5	12.8	0.500	18.0	-
3/4	1050/Var	115	6640RS	9.3	4.0	5.5	12.2	0.500	15.0	-
1/2-1/3	1050/Var	115	6630RS	6.4	3.5	5.5	11.8	0.500	12.0	-

Note: Above motors must be programmed before sale to contractor. If interested in participating in this program, please contact us at 855-487-6686.

* Kit 33 required to program motors

RESCUE PERFECTSPEED® ECM Ventilation Motor with User Interface for Speed Control High Efficiency

APPLICATIONS:

Commercial Ventilation and other air moving applications

FEATURES:

User Interface:

- 0-10 VDC, remote or on-board potentiometer
- LED display indicates RPM and percent of demand
- Powered off any line voltage from 115V-277V no separate transformer required
- 300 RPM minimum speed
- Optional remote potentiometer (customer supplied) allows control from up to 50' away

Motor:

- High Efficiency ECM Motor
- Open Air Over
- Efficiency: Up to 82%
- Frame: NEMA®† 48
- Motor output is indicated via a 7 segment LED

1200 RPM

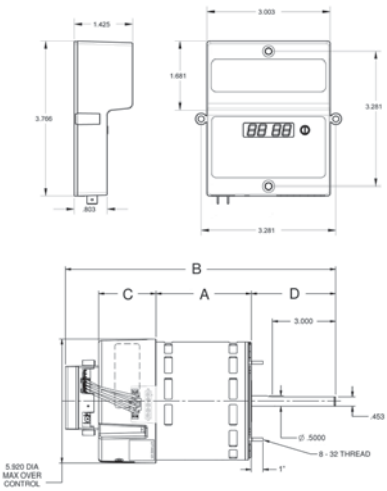
HP	RPM	Volts	Catalog Number	Amps	HZ	Rotation	Shell Length (A)	Shaft Length (D)	Shaft Diameter	Total Length (D)	Ship Wt.	Notes
1/2-1/3	300-1200	277	7630UI	3.2	50/60	CWLE	3.531	4.5	0.5	10.75	12	
	300-1200	277	7631UI	3.2	50/60	CCWLE	3.531	4.5	0.5	10.75	12	
1-3/4	300-1200	277	7650UI	6.0	50/60	CWLE	4.531	4.5	0.5	11.75	18	
	300-1200	277	7651UI	6.0	50/60	CCWLE	4.531	4.5	0.5	11.75	18	
1/2-1/3	300-1200	115/208-230	8630UI	6.2/4.2-3.8 & 6.6/4.0-3.8	60&50	CWLE	3.531	4.5	0.5	10.25	12	
1/2-1/3	300-1200	115/208-230	8631UI	6.2/4.2-3.8 & 6.6/4.0-3.8	60&50	CCWLE	3.531	4.5	0.5	10.25	12	
1-3/4	300-1200	115/208-230	8650UI	11.0/7.7-6.7 & 11.8/7.3-6.6	60&50	CWLE	4.531	4.5	0.5	11.75	18	
1-3/4	300-1200	115/208-230	8651UI	11.0/7.7-6.7 & 11.8/7.3-6.6	60&50	CCWLE	4.531	4.5	0.5	11.75	18	

1800 RPM

HP	RPM	Volts	Catalog Number	Amps	HZ	Rotation	Shell Length (A)	Shaft Length (D)	Shaft Diameter	Total Length (D)	Ship Wt.	Notes
1-3/4	300-1800	115/208-230	8450UI	12.4/8.1-7.2 & 11.8/7.4-6.4	60&50	CWLE	4.531	4.5	0.5	11.75	18	
	300-1800	115/208-230	8451UI	12.4/8.1-7.2 & 11.8/7.4-6.4	60&50	CCWLE	4.531	4.5	0.5	11.75	18	
1/2-1/3	300-1800	115/230	8431UI	5.6/3.2	50/60	CCWLE	3.531	4.5	0.5	10.25	12	
	300-1800	115/230	8430UI	5.6/3.2	50/60	CWLE	3.531	4.5	0.5	10.25	12	

Flexible User Interface:

- User Interface can be mounted directly to motor or remote mounted within unit enclosure
- Vertical or horizontal mounting to a standard receptacle box using mounting holes provided
- Adjust motor speed by using the on-board or a user-supplied external potentiometer



† All marks shown within this document are properties of their respective owners.

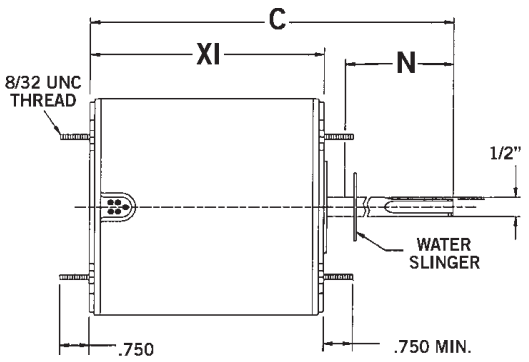
Permanent Split Capacitor PEP® High Efficiency Condenser Fan 5.6" Diameter, Totally Enclosed, Air Over (TEAO)

APPLICATIONS:

High efficiency PSC motors for condenser fans.

FEATURES:

- 76% Efficiency Design
- 158°F (70°C) Ambient Design
- Ball Bearings Have All Angle Thrust System
- Class F Insulation
- Designed For Use With 370V Capacitors
- Ball Bearing
- 48" Leads
- Hubless Lead End
- Drain Holes Both Ends
- Reversible Rotation
- Automatic Reset Thermal Overload Protector
- Continuous Duty



Stud Mount, Without Capacitor, Extreme High Ambient Design, All Angle Mount

HP	RPM/ Spd.	Voltage	Catalog Number	Cap. MFD	Amps	Shaft N	Shell XI	Total C	Ship Wt.	Notes
1/6	1075	208-230	1859PEP	5.0	0.9	5.0	4.1	9.1	12	
1/4	1075	208-230	1860PEP	5.0	1.4	5.0	4.6	9.6	13	
		460	3736PEP	7.5	0.7	5.0	4.6	9.6	13	
1/3	1075	208-230	1861PEP	7.5	1.7	5.0	5.1	10.1	14	
		460	3737PEP	7.5	1.0	5.0	5.1	10.1	17	
1/2	1075	208-230	1862PEP	10	2.5	5.0	5.6	10.6	19	
		460	3738PEP	10	1.4	5.0	5.6	10.6	19	

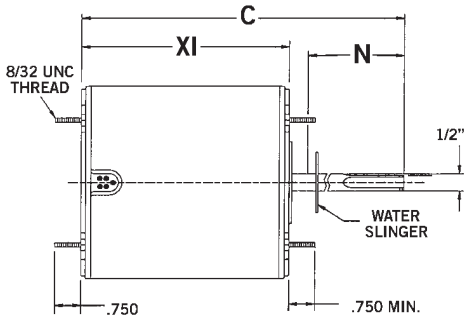
Permanent Split Capacitor MOJAVE® Series Condenser Fan 5.6" Diameter, Totally Enclosed, Air Over (TEAO)

APPLICATIONS:

Residential and commercial condensing unit fan motors in extreme temperature locations.

FEATURES:

- 158°F (70°C) Ambient Design
- Ball Bearings Have All Angle Thrust System
- Class F Insulation
- Designed For Use With 370V Capacitors
- Extended Studs
- 48" Leads
- Hubless Lead End
- Drain Holes Both Ends
- Reversible Rotation
- Automatic Reset Thermal Overload Protector
- Continuous Duty



Stud Mount, Without Capacitor, Extreme High Ambient Design, All Angle Mount

HP	RPM/ Spd.	Voltage	Catalog Number	Cap. MFD	Amps	Shaft N	Shell XI	Total C	Ship Wt.	Notes
1/8	825	208-230	1872H	5.0	0.78	6.0	4.3	10.6	13.7	
1/6	825	208-230	1873H	5.0	1.2	6.0	4.3	10.6	17.0	H25
	1075	208-230	1859H	5.0	1	5.0	4.0	9.4	18.1	
1/4	1075	208-230	1860H	5.0	1.7	6.0	4.1	10.6	12.0	
1/4-1/8	825	208-230	1874H	5.0	2.1	6.0	4.4	10.9	13.0	H25
1/3-1/6	825/2	208-230	5464H*	7.5	1.9	5	5.3	10.3	18	H43
	1075/2	208-230	5462H*	5.0	2.6	5	4.6	9.6	14	H43
	1075	208-230	3323H	7.5	2.0	5	4.3	9.3	14	B
1/3	1075	208-230	1861H	7.5	2.1	6.0	4.6	11.1	14.0	
1/3-1/5	825	208-230	1875H	7.5	2.4	6.0	5.3	11.6	17.0	H25
1/2-1/5	1075/2	208-230	5465H*	10.0	3	5	5.3	10.3	19	H43
1/2	1075	208-230	1862H	10.0	3.2	6.0	5.3	11.9	18.0	
	825	208-230	1870H	10.0	3.3	6.0	6.1	12.4	17.0	
3/4	1075	208-230	1868H	10.0	4.7	6.0	5.8	12.4	20.0	
3/4-1/4	1075/2	208-230	5482H*	15.0	4	5	6.3	11.875	-	H43

460 Volt

HP	RPM/ Spd.	Voltage	Catalog Number	Cap. MFD	Amps	Shaft N	Shell XI	Total C	Ship Wt.	Notes
1/4	1075	460	3736H	7.5	0.8	6	4.8	11.1	18.1	
1/3	1075	460	3737H	7.5	1.3	6	5.6	11.9	18.1	
1/2	1075	460	3738H	10	1.5	6	5.8	12	18.1	
1/2-1/6	1075	460	5480H*	10	1.3	5	5.562	11.1	19	H43
3/4	1075	460	3742H	10	2	6	6.6	12.9	18.1	
3/4-1/4	1075	460	5481H*	15	2.2	5	6.3	11.857	22	H43

575 Volt

HP	RPM/ Spd.	Voltage	Catalog Number	Cap. MFD	Amps	Shaft N	Shell XI	Total C	Ship Wt.	Notes
1/4	1075	575	1295H	7.5	0.6	5.0	4.4	9.8	11.4	
1/3	1075	575	1278H	7.5	0.7	5.0	5.2	10.9	10	

* RESCUE® Motors
Note B: Belly Band
Note H25: Includes 4 Holes With Screws In Shell For RHEEM®† Mount
Note H43: Side Shell & Lead End Mounting Screws Included In Carton

OEM Replacement for Specific Manufacturers

Catalog Number	Type	Dia.	HP	Volts	RPM	Speed	Amps	Rotation	Bearing	Enclosure	Cross Reference	Notes	Fig
AAON Application: Commercial Condenser Fan													
8233	PSC	5.6"	3/4	460	1075	1	2.7	REV	BALL	ENCL. SHFT END	K55HXTSD9941, F4837A27, F48SPP6V9, OAN1076, R1747B, R17470	98"Leads	A
AMANA Application: Condenser Fan													
1954	PSC	5.6"	1/12	265	1250	2	0.6	CCWLE	SAB	TEAO	C61148-2, KA55HXDNN-577, 5KCP39CGD588BS	35" Leads	B
AMANA Application: Package Terminal Air Conditioner													
3037	PSC	3.3"	1/15	265	1475/1375	-	0.46	CCWLE	SAB	ENCL END SHIELD L/E	K33HXCDR-934, 10292803		C

A

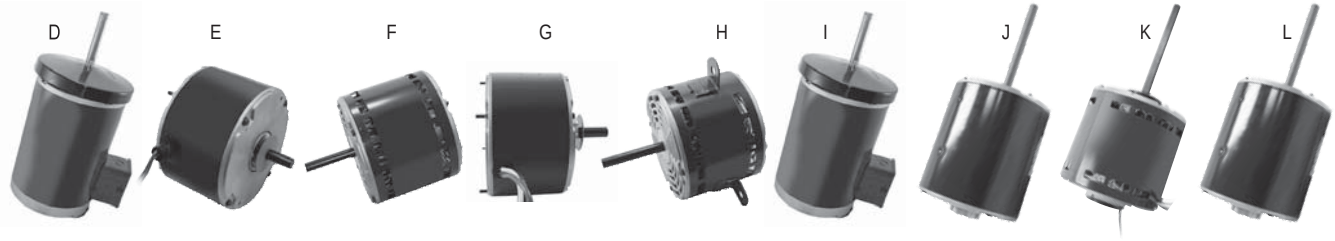
B

C

Unless otherwise noted, all capacitors are 370 Volts.

OEM Replacement for Specific Manufacturers

Catalog Number	Type	Dia.	HP	Volts	RPM	Speed	Amps	Rotation	Bearing	Enclosure	Cross Reference	Notes	Fig
CARRIER Application: Commercial Condenser Fan													
1816	Polyphase	6.3"	1	200-230/460	1140	1	6.0/3.0	REV	BALL	ODP	HD52VE214, 5K49N6084S	Rain Shield	D
CARRIER Application: Condenser Fan													
CA3407	PSC	5.6"	1/15	208-230	800	1	0.7	CWLE	SAB	TEAO	5KCP39BGZ038S, K55HXKNR-0234	37" Leads	E
CA3411	PSC	5.6"	1/15	208-230	1125	1	0.85	CWLE	SAB	TEAO	5KCP39BGAF02S, K55HXKNS-0235	40" Leads	E
3401	PSC	5.6"	1/12	208-230	1100	1	1.7	CWLE	SAB	TEAO	HC31GE232, 5KCP39BGS162S	48" Leads	G
3402	PSC	5.6"	1/10	208-230	1100	1	0.8	CWLE	SAB	TEAO	HC33G233, 5KCP39GBS069S	48" Leads	G
3405	PSC	5.6"	1/6	208-230	1500	1	0.8	CWLE	SAB	TEAO	HC33GE208, 5KCP39BGR201BS	48" Leads	G
CA3412	PSC	5.6"	1/5	208-230	825	1	1.3	CWLE	SAB	TEAO	5KCP39GFY917S, K55HXKNT-0236	42" Leads	E
CA3408	PSC	5.6"	1/4	208-230	1100	1	1.5	CCWLE	SAB	TEAO	5KCP393FGZ039S, K55HXKMU-0210	50" Leads	E
3404	PSC	5.6"	1/4	208-230	1100	1	0.8	CWLE	SAB	TEAO	HC39GE236, 5KCP39BGS071S	45" Leads	G
3403	PSC	5.6"	1/4	208-230	1100	1	1.8	CWLE	SAB	TEAO	HC39GE237, 5KCP39EGS070S	48" Leads	G
3303	PSC	5.6"	1/4	208-230	1075	2	2.5	REV	SAB	OAO	HC37ME720, HC37ML702, HC39ML706, P251-5404		J
3330	PSC	5.6"	1/2	208-230	1075	1	7.5	CCWLE	BALL	TEAO	D804, 5KCP39PGC238S	16" Leads	L
CARRIER Application: Direct Drive Blower													
CA3410	PSC	5.6"	1/3	208-230	1075	2	2.5	CWLE	SAB	OAO	5KCP39HGZ068S, K55HXKNC-0221, 3225	50" Leads	H
CA3406	PSC	5.6"	1/4	208-230	1075	3	1.5	CWLE	SAB	OAO	5KCP39HGZ037S, K55HXKNA-0219	18" Leads	F
CA3413	PSC	5.6"	1/2	115	1075	4	6.7	CCWLE	SAB	OAO	5KCP39GLZ024S, K55HXKNJ-0227	17" Leads	F
3340	psc	5.6"	3/4	115	1075	4	7.5	REV	SAB	OAO	D838, HC45SE116, SC435X101, HC435SE116	27" Leads	K



OEM Replacement for Specific Manufacturers

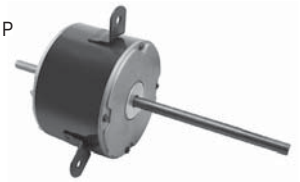
Catalog Number	Type	Dia.	HP	Volts	RPM	Speed	Amps	Rotation	Bearing	Enclosure	Cross Reference	Notes	Fig
CARRIER Application: Fan Coil													
CA3409	PSC	5.6"	1/3	208-230	1600	1	2	CCWLE	SAB	OAO	5KCP39FGZ041S, K55HXKMW-0212		M
CA3414	PSC	5.6"	1/2	115	1075	4	7.9	CCWLE	SAB	OPEN	5KCP39FGZ041S, K55HXKNH-0226	15" Leads-Double Shaft	N
CA3415	PSC	5.6"	3/4	115	1075	4	10.7	CCWLE	SAB	OAO	5KCP39LPGZ036S, K55HXKNP-0233	15" Leads	O
3360	PSC	5.6"	1/5	265-277	1040	3	1.3	CWLE	SAB	TEAO	D848, HC37MB-730, 51PH124275	51" Leads	P

M

N

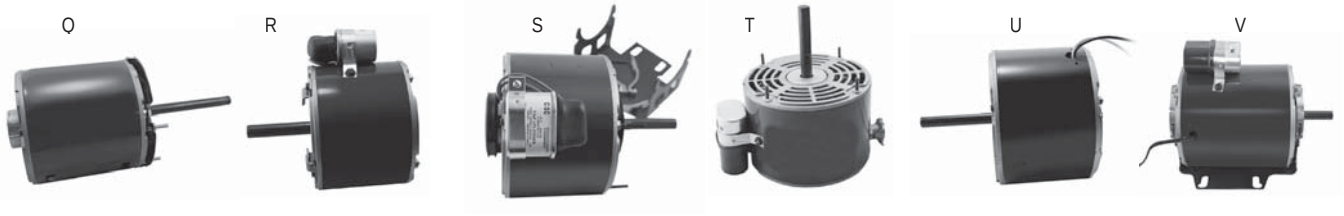
O

P



OEM Replacement for Specific Manufacturers

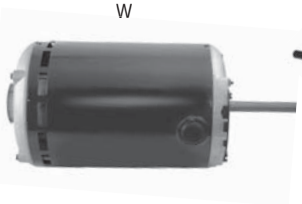
Catalog Number	Type	Dia.	HP	Volts	RPM	Speed	Amps	Rotation	Bearing	Enclosure	Cross Reference	Notes	Fig
COLEMAN, ARVIN, BOHN, DELTA THERM, FRIEDRICH Application: Direct Drive Blower													
1391	PSC	5.0"	1/4	208-230	1050	3	1.5	REV	SAB	OPEN	391, D151, A6262, 5002-M, 3400A312	33" Leads	Q
1390	PSC	5.0"	1/4	115	1050	3	2.8	REV	SAB	OPEN	390, D150, A935, 5002-L, 4070-311	33" Leads	Q
COPELAND Application: Condenser Fan													
1989P	PSC	5.0"	1/20	230	1550/1300	1	1.3	CWLE	SAB	Open	050-0167-002, F48BGP1092, 5KSP29BG5012S, 5KSP21DG2162	60/50 HZ	R
6128	PSC	5.6"	1/6	208-230	1550	1	1.1	CWLE	SAB	OAO	050-0251-00	32" LEADS, MOTOR TO BE MOUNTED IN HORIZONTAL POSTION ONLY	S
1265	PSC	5.6"	1/6	460	1550	1	0.55	CWLE	SAB	OAO	050-0265-01,20043		T
6129	PSC	5.6"	1/4	208-230	1625	1	1.5	CWLE	SAB	OAO	050-0250-00	36" LEADS, MOTOR TO BE MOUNTED IN HORIZONTAL POSTION ONLY	S
6124	PSC	5.6"	1/4	230	1550	1	2.1	CWLE	SAB	OAO	050-0238-00, K55BZY1439, 5KCP39GG-3537S, 050-0107-01	32" LEADS DOUBLE FLATS	U
6127	PSC	5.6"	1/3	230	1625	1	2.4	CWLE	SAB	TEAO	050-0108-00, K55HXECE2645, 050-0018-00	36" LEADS, MOTOR TO BE MOUNTED IN HORIZONTAL POSTION ONLY	V



OEM Replacement for Specific Manufacturers

Catalog Number	Type	Dia.	HP	Volts	RPM	Speed	Amps	Rotation	Bearing	Enclosure	Cross Reference	Notes	Fig
DUNHAM BUSH Application: Commercial Condenser Fan													
1326	Polyphase	5.6"	1	200-230/460	1140	1	3.5-3.3/1.7	REV	BALL	OPEN	P55SYTLN1326, MM-2860-305		W
FIRST Application: Package Terminal Air Conditioner													
1279	PSC	5.0"	1/4	208-230	1625	2	1.4	CCWLE	SAB	OAO	OFC1024, 747, 326P451, K48HXCCA-1279, D258, M10	Double Shaft	X
GIBSON Application: Direct Drive Blower													
1152	PSC	5.6"	1/5	230	1075	3	1.4	CCWLE	SAB	ODP	5KCP39DGK136S, 5KCP39DGK013, 5KCP39EG5967	Double Shaft	Y
HEATCRAFT Application: Condenser Fan													
6986	PSC	5.6"	1/3	208-230	1075	1	3.5	CWLE	BALL	OAO	7071208, K55HXPZZ7698	50/60 HZ	Z
1139	Polyphase	6.3"	1/2	208-230/460	575	1	3.2-3.1/1.6	REV	BALL	ODP	25316201, 1301007467	Shaft has flat and Keyway	A1
1100	Polyphase	6.3"	1 1/2	208-230/460	830	1	6.6/3.3	REV	BALL	OPEN	25301701, P63SYDTG-3454, 5K49ZN3007S, W56T805515	Shaft has flat and Keyway	B1

W



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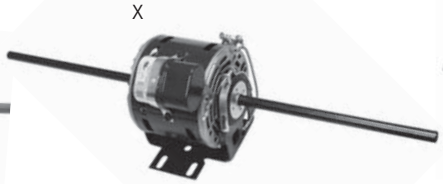


Y

Z

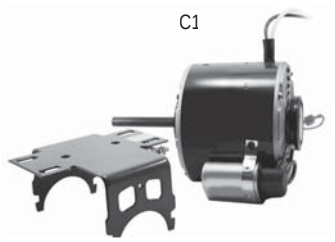
A1

B1

† All marks shown within this document are properties of their respective owners.

OEM Replacement for Specific Manufacturers

Catalog Number	Type	Dia.	HP	Volts	RPM	Speed	Amps	Rotation	Bearing	Enclosure	Cross Reference	Notes	Fig
HILL REFRIGERATION Application: Condenser Fan													
7232	PSC	5.6"	1/3	208-230	1625	1	2.9	REV	SAB	OAO	K55HXHN4370, KCP39KG1369S, 3001, 82001, M-Z-008, F112, D801	32" Leads	C1
HUSSMANN Application: Condenser Fan													
1645	PSC	5.6"	1/6	208-230	1550	1	1.4	CWLE	BALL	OAO	P011-96202, K55HXKWB8574, K55HXHWR4884, D807, 3057 ,174	36" Leads	F1
1648	PSC	5.6"	1/5	208-230	1075	1	2	CWLE	BALL	OAO	P011-96203, K55HXKWA8573, K55HXCLN1782	24" Leads	E1
644	PSC	5.6"	1/2	208-230	1725	1	2.7	CWLE	BALL	OPEN	259983, K55HXCTP9963, D890	50/60 hz	D1
ICP Application: Direct Drive Blower													
1125	PSC	5.6"	3/4	115	900	4	11.9	CCWLE	SAB	OAO	K55HXBLW6108, ICP#1008619, K55HXFFA7697	30" Leads	H1
4670	PSC	5.6"	1	208-230	1100	4	6	CCWLE	SAB	OAO	K55HXNHN4665, ICP HQ1054586EM	Terminal Plug	G1
IEC Application: Direct Drive Blower													
1192	PSC	5.0"	1/6	115	1500	3	2.3	CWLE	BALL	OAO	955	Double Shaft	I1


C1


D1


E1


F1

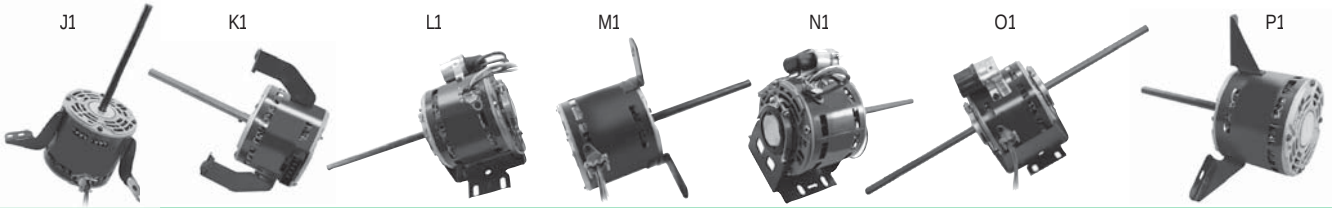

G1


H1


I1

OEM Replacement for Specific Manufacturers

Catalog Number	Type	Dia.	HP	Volts	RPM	Speed	Amps	Rotation	Bearing	Enclosure	Cross Reference	Notes	Fig
IEC Application: Package Terminal Air Conditioner													
1218	PSC	5.0"	1/30	115	1100	3	0.73	CCWLE	BALL	OAO	70556301	Terminal Block	K1
4125	PSC	5.0"	1/30	115-127	1100	3	0.53	CCWLE	SAB	OAO	5KCP29BK5875S, 70021692	48" Leads	L1
1269	PSC	5.0"	1/30	115-127	1600	3	0.51	CCWLE	BALL	OAO	70556329, K48HXGPN-4498	48" Leads	N1
1259	PSC	5.0"	1/30	277	1100	3	0.32	CCWLE	BALL	OAO	K48HXTSP-4126, 4126, D1053, 5KCP29BK6016AS, 5KCP29BK8094S, 5KCP298520S, 70556307	Terminal Block	K1
1258	PSC	5.0"	1/20	115	1100	3	1.1	CCWLE	BALL	OAO	70556302	Terminal Block	K1
4136	PSC	5.0"	1/20	208-230	1075	3	0.55	CCWLE	SAB	OAO	D1056, 5KCP29FK6023S, 70556314	Terminal Block	P1
1264	PSC	5.0"	1/20	277	1100	3	0.42	CCWLE	BALL	OAO	1959, K48HXTSA-4107	Terminal Block	K1
4137	PSC	5.0"	1/20	277	1075	3	0.55	CCWLE	SAB	OAO	D1048, 5KCP29FK977S, 70021545	48" Leads	M1
1961	PSC	5.0"	1/15	265	1075	3	0.6	CCWLE	SAB	OAO	D1041, 5KCP29DK6018S, 70556309	Terminal Block	P1
1256	PSC	5.0"	1/12	115-120	1375	3	1.4	CCWLE	BALL	OAO	4127, D1055, K48HXTSR-4127, 5KCP29BK6777S, 5KCP29BK8383S, 5KCP29BK790S, 70021516, 2702	Double Shaft	L1
1211	PSC	5.0"	1/12	115-127	1375	3	1.35	CCWLE	BALL	OAO	70556336	48" Leads	N1
1960	PSC	5.6"	1/12	277	1150	3	0.69	CCWLE	SAB	OAO	D257	Double Shaft	O1
1964	PSC	5.0"	1/8	277	1500	3	0.8	CCWLE	SAB	OAO	5KCP29CK8613S	Double Shaft	O1
1210	PSC	5.0"	1/6	115-127	1350	3	1.8	CCWLE	BALL	OAO	70556335	Double Shaft	L1
1257	PSC	5.0"	1/6	115-120	1450	3	2.5	CCWLE	BALL	OAO	K48HXTSS-4128, 4128	Double Shaft	L1
4129	PSC	5.0"	1/5	208-240	925	3	1.9	CCWLE	SAB	OAO	5KCP29KK4878AS, 70021542	72" Leads	J1
4130	PSC	5.0"	1/4	115	970	3	6	CCWLE	SAB	OAO	70021521	72" Leads	J1



OEM Replacement for Specific Manufacturers

Catalog Number	Type	Dia.	HP	Volts	RPM	Speed	Amps	Rotation	Bearing	Enclosure	Cross Reference	Notes	Fig
LENNOX Application: Commercial Blower													
7913	Polyphase	6.3"	1 1/2	200-230/460	1725	1	5.0/2.5	REV	BALL	ODP	23G3901, P63PYCJD2723	56HZ Frame	S1
7914	Polyphase	6.3"	2	200-230/460	1725	1	7.6-7.8/3.9	REV	BALL	ODP	23G4001, P63TYCJE2724	56HZ Frame	Q1
7915V	Polyphase	6.3"	3	200-230/460	1725	1	9.0-9.2/4.6	REV	BALL	ODP	23G4101, P63MZCJF2725	56HZ Frame	Q1
D5PA2A	Polyphase	9.0"	5	208-230/460	1760	1	13.8-12.6/6.3	REV	BALL	ODP	24G2101, D5EA2A	184T Frame	Q1
D7PA2A	Polyphase	11.0"	7.5	208-230/460	1760	1	20.5-18.5/9.2	REV	BALL	ODP	31L4501, D7EA2A	213T Frame	Q1
LENNOX Application: Commercial Condenser Fan													
8055	PSC	5.6"	1	460	1080	1	2.5	CCWLE	BALL	OPEN	88C7301, K55HXBSF9500	Shaft up mount with shield.	Z1
8058	Polyphase	6.3"	1	200-230/460	1140	1	3.6/1.8	REV	BALL	OAO	P63SYTNN4087, 94G0001	Vertical Shaft Up Application	R1
8068	PSC	5.6"	1	200	1080	1	5.9	CCWLE	BALL	OAO	88C7501, K55HXBSF-9468	SHAFT UP MOUNT	B2

Q1

R1

S1

Z1

B2

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OEM Replacement for Specific Manufacturers

Catalog Number	Type	Dia.	HP	Volts	RPM	Speed	Amps	Rotation	Bearing	Encl	Cross Reference	Notes	Fig
LENNOX Application: Condenser Fan													
LX7927	PSC	5.6"	1/6	208-230	825	1	1.1	CCWLE	BALL	TEAO	65G6001, K55HXDUY1263, K55HXGCE8094		U1
1901	PSC	5.0"	1/6	208-230	1075	1	1	REV	SAB	TEAO	K48HXEMG3494, 31L1901	35" Leads	W1
LX7925	PSC	5.6"	1/6	208-230	1075	1	1	CCWLE	SAB	TEAO	68J9701, K55HXDFM-6844, K55HXDUW1262		T1
LX7929	PSC	5.6"	1/5	208-230/220	1075/900	1	1.1	CCWLE	SAB	TEAO	97M4901, K55HXGCK-4210, K48HXDSH-0220		Y1
LX7931	PSC	5.6"	1/4	208-230	825	1	1.7	CCWLE	BALL	TEAO	97M5101, K55HXLTD-0249, K55HXDVC1267	35" Leads	T1
LX7922	PSC	5.6"	1/3	380-420/460	1075	1	1.3	CCWLE	BALL	TEAO	79J8201, K55HXMCR-4000, K55HXDUU-1260	36" Leads	V1
LX7932	PSC	5.6"	1/3	208-230	1075	1	1.7	CCWLE	SAB	TEAO	97M6201, K55HXLTC-248, K55HXKVD1268	35" Leads	T1
LX7926	PSC	5.6"	1/3	208-230	1075	1	1.7	CCWLE	SAB	TEAO	68J2401, K55HXGCE8094, K55HXDUY1263	37" Leads	U1
LX7928	PSC	5.6"	1/3	208-230	1075	1	2.4	CCWLE	BALL	TEAO	79J8101, K55HXCSD-6620, K55HXDVA-1265		V1
9993	PSC	5.6"	1/3	208-230	1075	1	3	CCWLE	SAB	OAO	P-8-3140, K55HXBZW1438	20" Leads	X1
1128	PSC	5.6"	1/2	460	1075	1	1.5	REV	BALL	TEAO	27J0701, K55HXTDP-8454	Terminal Block Connector	A2

T1

U1

V1

W2

X1

Y1

A2

OEM Replacement for Specific Manufacturers

Catalog Number	Type	Dia.	HP	Volts	RPM	Speed	Amps	Rotation	Bearing	Enclosure	Cross Reference	Notes	Fig
LENNOX Application: Direct Drive Blower													
8052	PSC	5.6"	1/3	230	825	3	1.9	CCWLE	SAB	OAO	65G5901, KA55XJAK2549, 5KCP39NGM981AS		D2
LX7920	PSC	5.6"	1/2	115	1075	5	8	CCWLE	SAB	OAO	60L2201, K55HXHGB-8639, K55HXDUD-1245	43" Leads	D2
LX7921	PSC	5.6"	1/2	115	1075	5	8	CCWLE	SAB	OAO	60L2101, K55HXHFZ-8638, K55HXDUE-1249	43" Leads	D2
8064	PSC	5.6"	1/2	208-230	825	3	4.4	CCWLE	SAB	OAO	81G5101, K55HXJJT2904		C2
3275	PSC	5.6"	3/4	115	1075	4	10	CCWLE	BALL	OPEN	K55HXTMS9565, 28F0101	46" Leads	E2
8066	PSC	5.6"	3/4	208-230	1075	3	4.5	CCWLE	SAB	OAO	K55HXTNW9654, 18J9601, 78F9201	Terminal Block Connector	E2
LX7924	PSC	5.6"	3/4	208-230	1075	5	4.6	CCWLE	SAB	OAO	13H3901, K55HXLCD-3607, K55HXDUV-1261		E2
LX7930	PSC	5.6"	3/4	460	1075	3	2.3	CCWLE	SAB	OAO	43G5201, K55HXEKA-7371, K55HXDUX-1258	36" Leads	E2

C2

D2

E2

OEM Replacement for Specific Manufacturers

Catalog Number	Type	Dia.	HP	Volts	RPM	Speed	Amps	Rotation	Bearing	Enclosure	Cross Reference	Notes	Fig
MCQUAY Application: Blower Motor													
4153	PSC	5.6"	1/4	115	1020	1	4.5	CWLE	BALL	ODP	K55HXMDP4133, 057076501		F2
MILLER Application: Direct Drive Blower													
2166P	PSC	5.0"	1/6	115	1050	1	2.6	CCWLE	SAB	OAO	D156, 326, 301543, 305313	24" Cord and Plug	G2
2867P	PSC	5.0"	1/5	115	1050	1	3	CCWLE	SAB	OAO	F48HXTPM2867, OML6435	24" Leads	H2
QUANTUM PRECISION Application: Commercial Condenser Fan													
1254	PSC	5.6"	3/4	208-230/460	1075	1	4.6/2.3	CCWLE	BALL	OAO	K55HXWDS-457, K55HXWDS-117, 102002900, DS0177011B	Rain Shield	I2

F2

G2

H2

I2

OEM Replacement for Specific Manufacturers

Catalog Number	Type	Dia.	HP	Volts	RPM	Speed	Amps	Rotation	Bearing	Enclosure	Cross Reference	Notes	Fig
RHEEM Application: Condenser Fan													
5456	PSC	5.6"	1/8	208-230	825	1	1.2	REV	SAB	TEAO	51-20761-91	41" Leads	J2
9735	PSC	5.6"	1/8	208-230	825	2	2.8	CCWLE	SAB	OAO	51-21276-01, 51-21276-02, 51-20763-01, 51-2076091, K55MFG6350, K55PAK7253, K55DNW9833	14" Leads,	K2
5457	PSC	5.6"	1/6	208-230	825	1	1.2	REV	SAB	TEAO	51-20760-91, 51-23055-12, K55HXMAB4123, K55HXPZG5379	41" Leads	J2
5450	PSC	5.6"	1/5	208-230	1075	1	1.3	CCWLE	SAB	TEAO	51-21854-02, 51-23055-11	4 Drain Holes	L2
5454	PSC	5.6"	1/5	208-230	1075	1	1.7	REV	SAB	TEAO	51-20672-01, 51-20673-01, 51-20674-01, 51-20675-01, 51-20679-01, 51-20680-01, 51-20681-01, 51-20682-01, 51-21826-01, 51-21827-01, 51-21828-01, 51-21829-01, 51-21830-01, 51-21831-01	41" Leads	J2
5455	PSC	5.6"	1/3	208-230	1075	1	2	REV	SAB	TEAO	51-20687-01, 51-20688-01, 51-20689.01, 51-20690-01, 51-21836-01, 51-21837-01, 51-21838-01, 51-21839-01, 51-21845-03, 51-23053-11, 51-41315-01, 51-41316-01, 51-41317-01	41" Leads	J2
RHEEM Application: Direct Drive Blower													
1323	PSC	5.6"	1/2	115	1075	3	5	CCWLE	SAB	OAO	51-104324-01, K55HXLLN-1345	14" Leads	M2
5451	PSC	5.6"	1/2	115	1075	3	6.8	CCWLE	SAB	OAO	K55HXNMF4760, RHEEM 51-22686-01	18" Leads	N2
5463	PSC	5.6"	3/4	115	1075	4	10.6	REV	BALL	OAO	K55HXPAD4962, 51-22700-01, 51-23017-42, K55WDRJ7033, HQ1010263EM, 5452	17" Leads	O2

J2

K2

L2

M2

N2

O2

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OEM Replacement for Specific Manufacturers

Catalog Number	Type	Dia.	HP	Volts	RPM	Speed	Amps	Rotation	Bearing	Enclosure	Cross Reference	Notes	Fig
TECUMSEH Application: Commercial Condenser Fan													
2387	Polyphase	5.6"	1/3	380/460	1400/1600	1	1	REV	BALL	OAO	P55SYNP-387, 810E249A88	50/60 HZ	R2
TECUMSEH Application: Condenser Fan													
1775P	PSC	5.0"	1/20	230	1300/1500	1	0.5	CCWSE	SAB	OAO	F48DEF1775, TFM372, 810E037A84, 1775	30" Leads, 50/60 HZ	P2
1779P	PSC	5.0"	1/15	230	1300/1500	1	0.62	CCWSE	SAB	OAO	F48HXDEJ1779, TFM502, 810E050A85, 1779	50/60 HZ	P2
8330	PSC	5.6"	1/4	230	1350/1625	1	1.9	CWLE	SAB	OAO	KA55HXKGD8330, TFM1862, 810E186A82	50/60 HZ	O2
8331	PSC	5.6"	1/4	380/420/460	1625	1	.8/.95	CWLE	SAB	OAO	TFM1864, K55HXHGE-8331		O2
TRANE Application: Condenser Fan													
1675	PSC	5.0"	1/8	230	1550	1	0.8	CCWLE	SAB	OAO	WW94X936PSC, 5KSP29DK1728S / 2198S	32" Leads	T2
1902	PSC	5.6"	1/8	200-230	825	1	0.74	CCWLE	BALL	TEAO	MOT14328, D156743P01	4 holes endshield	S2
1903	PSC	5.6"	1/5	200-230	825	1	0.93	CCWLE	BALL	TEAO	MOT13693, D156744P01	4 holes endshield	S2

P2

O2

R2

S2

T2

OEM Replacement for Specific Manufacturers

Catalog Number	Type	Dia.	HP	Volts	RPM	Speed	Amps	Rotation	Bearing	Enclosure	Cross Reference	Notes	Fig
TRANE Application: Fan & Blower													
1676	PSC	5.0"	1/20	115	1100	3	0.55	CWLE	SAB	OAO	K48HXBHZ-955, K48HXSTY-3509, Trane X70500149-02	44" Leads	V2
1105	PSC	5.0"	1/16	115	850	3	1.1	CWLE	SAB	OAO	K48HXCFC1327, X70500264-01		U2
1678	PSC	5.0"	1/16	277	850	3	0.5	CWLE	SAB	OAO	K48HXCNN1468, X70500269-01, MOT2852		Y2
1090	PSC	5.0"	1/15	115	1100	3	0.8	CWLE	SAB	OAO	K48HXBJA0956, X70500149-04, MOT1877, D1090	44" Leads	A3
1679	PSC	5.6"	1/10	277	810	3	0.6	CWLE	SAB	OAO	K055HXHAB2059, X70500270-01, MOT2853		B3
TRANE Application: Fan Coil													
1374	PSC	5.0"	1/30	115	1075	3	0.5	CWLE	SAB	OAO	X70500149-01-7, K48HXBHY954, 5KSP29DK1507S, MOT1878		V2
TYLER Application: Condenser Fan													
3042	PSC	5.6"	1/4	230	1625	1	1.4		BALL		4KCP39EG755S, 5KCP39EN81S, 03042		Z2
UNILOX Application: Direct Drive Blower													
1161	PSC	5.0"	1/8	115	1000	5	2.3	CCWLE	BALL	OAO	799		W2
WHIRLPOOL / SEARS Application: Room Air Conditioner													
5108	PSC	5.6"	1/3	230	1075	3	2.3	CCWLE	SAB	TEAO	Various	33" Leads	X2

U2

V2

W2

X2

Y2

Z2

A3

B3

OEM Replacement for Specific Manufacturers

Catalog Number	Type	Dia.	HP	Volts	RPM	Speed	Amps	Rotation	Bearing	Enclosure	Cross Reference	Notes	Fig
YORK Application: Condenser Fan													
1124	PSC	5.0"	1/5	208-230	1075	1	1.3	CWLE	SAB	OAO	F47BGM927, D1041, S2091	50/60 HZ, One 32" Lead and Two 25" Leads	
1743	PSC	5.6"	1/4	208-230	850	1	1.5	CWLE	SAB	TEAO	17435, 024-27596-00, K55HXKWA-9803		
2553	PSC	5.6"	1	460	1100	3	3.3	REV	SAB	OAO	K55HXJFJ-2832, 024-21673, 024-25000-001, 5KCP39SGH913BS		

C3

D3

E3

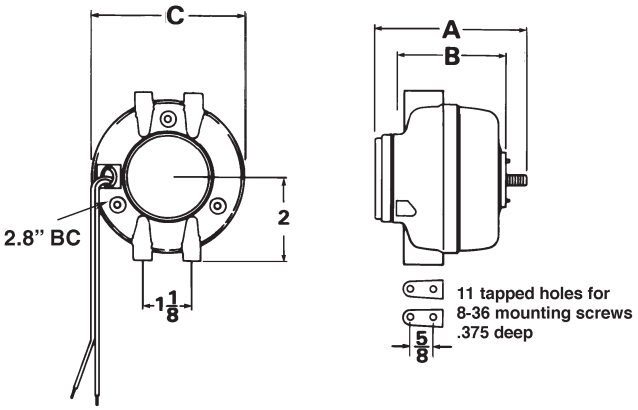
Shaded Pole Unit Bearing Fan Totally Enclosed

APPLICATIONS:

Evaporator or condenser fan motors to meet manufacturer's requirements for refrigerated display cases and vending machines.

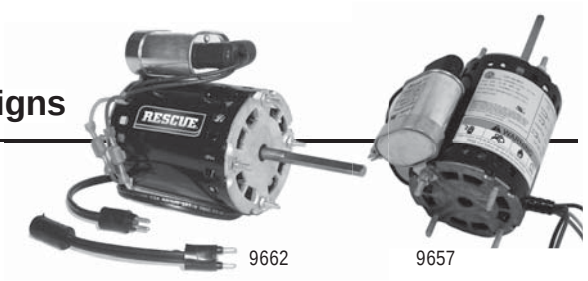
FEATURES:

- Permanently lubricated bearings
- Individually boxed
- Impedance protected
- 6W & Under Are 60/50 Hertz Rated
- Suitable For All Angle Operation
- 24" Cord With Molded Strain Relief
- Cast Iron Housing
- Includes vibration dampener hub washer, speed nut, 4 mounting screws (2 to 35 watt)



HP	RPM	Voltage	Catalog Number	Amps	Shaft Rotation	Total A	Total B	Dia. C	Shaft Dia. x Length	Ship Wt.	Industry Number
2.5W	1550	115	2102	0.3	CWLE	3.8	3.4	3.6	1/4 x 20THD x 0.5	3	5111
4W	1550	115	2115	0.3	CWLE	3.8	3.4	3.6	1/4 x 20THD x 0.5	3	5211
	1550	115	2103	0.3	CCWLE	3.8	3.4	3.6	1/4 x 20THD x 0.5	3	5212
	1550	230	2122	0.2	CCWLE	3.8	3.4	3.6	1/4 x 20THD x 0.5	3	5222
	1550	230	2123	0.2	CWLE	3.8	3.4	3.6	1/4 x 20THD x 0.5	3	5221
5W	1550	115	2119	0.6	CWLE	3.8	3.4	3.6	1/4 x 20THD x 0.5	3	PP7577M, D582
	1550	115	2120	0.6	CCWLE	3.8	3.4	3.6	1/4 x 20THD x 0.5	3	D583
6W	1550	115	2116	0.4	CCWLE	4.3	3.8	3.6	1/4 x 20THD x 0.5	3.3	5312
	1550	115	2117	0.4	CWLE	4.3	3.8	3.6	1/4 x 20THD x 0.5	3.3	5311
9W	1550	115	2118	0.6	CCWLE	4.3	3.8	3.6	1/4 x 20THD x 0.5	3.5	5412
	1550	115	2108	0.6	CWLE	4.3	3.8	3.6	1/4 x 20THD x 0.5	3.5	5411
	1550	230	2109	0.3	CCWLE	4.3	3.8	3.6	1/4 x 20THD x 0.5	3.5	5422
	1550	230	2110	0.3	CWLE	4.3	3.8	3.6	1/4 x 20THD x 0.5	3.5	5421
16W	1550	115	2111	1	CCWLE	4.5	4.1	3.6	1/4 x 20THD x 0.5	4.5	5812
	1550	230	2114	0.5	CWLE	4.5	4.1	3.6	1/4 x 20THD x 0.5	4.5	5821
	1550	230	2113	0.5	CCWLE	4.5	4.1	3.6	1/4 x 20THD x 0.5	4.5	5822
	1550	115	2112	1	CWLE	4.5	4.1	3.6	1/4 x 20THD x 0.5	4.5	5811
25W	1550	115	2124	1.1	CCWLE	4.5	4	3.9	1/4 x 20THD x 0.5	5	ESPL25EMR1
	1550	115	2125	1.1	CWLE	4.5	4	3.9	1/4 x 20THD x 0.5	5	ESPL25EM1
	1550	230	2126	0.6	CWLE	4.5	4	3.9	1/4 x 20THD x 0.5	5	ESPL25EM2
	1550	230	2127	0.6	CCWLE	4.5	4	3.9	1/4 x 20THD x 0.5	5	ESPL25EMR2
35W	1550	115	2128	1.4	CCWLE	4.5	4	3.9	1/4 x 20THD x 0.5	5	ESPL35EMR1
	1550	115	2129	1.4	CWLE	4.5	4	3.9	1/4 x 20THD x 0.5	5	ESPL35EM1
	1550	230	2130	0.7	CCWLE	4.5	4	3.9	1/4 x 20THD x 0.5	5	ESPL35EMR2
	1550	230	2131	0.7	CWLE	4.5	4	3.9	1/4 x 20THD x 0.5	5	ESPL35EM2
50W	1550	115	2132	1.7	CCWLE	6.2	4.7	4	.375 x 1.5	7	ESPOL50EMR1
	1550	115	2133	1.7	CWLE	7.2	5.7	4	.375 x 1.5	7	ESPOL50EM1
	1550	230	2134	0.9	CCWLE	8.2	6.7	4	.375 x 1.5	7	ESPOL50EMR2
	1550	230	2135	0.9	CWLE	9.2	7.7	4	.375 x 1.5	7	ESPOL50EM2

Shaded Pole & PSC Direct Drive Fan
3.3" Diameter, Open and Totally Enclosed Designs



9662 9657

APPLICATIONS:

High efficiency PSC motors for refrigeration evaporator and general purpose.

FEATURES:

- Four 8-32 x 3/4" Stud Extensions At Each End
- Ball Bearings Have All Angle Thrust System
- Automatic Reset Thermal Overload Protector
- 9656 and 9662 feature dual plug cord for flexibility
- Dual Studs
- PSC Design with Capacitor Included
- 12" Leads

Open Air Over

HP	RPM	Voltage	Catalog Number	Enclosures	Rotation	Amps	Shell Length	Shaft Dia. x Length*	Ship Wt.	Notes
1/20	1550	115	9632	OAO	Rev	0.9	3.3	.31 x 2.38	4	H38
1/12-1/20	1550	115/230	9664	OAO	Rev	1.3/0.7	4.2	.31 x 2.50	4	H38
1/10	1550	230	9657	OAO	Rev	1.00	4.5	.31 x 3.75	6	H38

Totally Enclosed, Air Over

HP	RPM	Voltage	Catalog Number	Enclosures	Rotation	Amps	Shell Length	Shaft Dia. x Length*	Ship Wt.	Notes
1/50	1550	115	9624	TEAO	Rev	0.5	2.46	.25 x 2.50	3	
1/30	1550	115	9628	TEAO	Rev	0.6	3.00	.31 x 2.50	4	
1/50	1550	115	9641	TEAO	Rev	0.50	3.1	.25 x 2.25	3	

OEM Direct Replacements

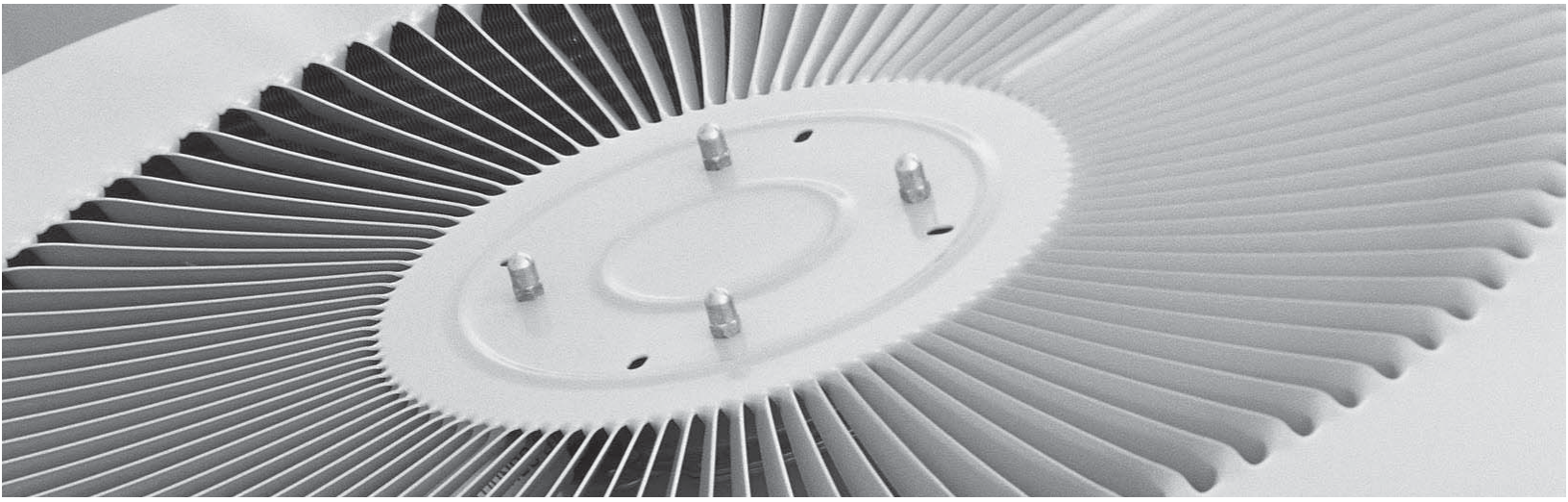
HP	RPM	Voltage	Catalog Number	Enclosures	Rotation	Amps	Shell Length	Shaft Dia. x Length*	Ship Wt.	Notes	OEM
1/20	1550	115	9662	OAO	CCW/Rev	0.9	3.3	0.31 X 3.0	4	86, H30	BO
	1550	230	9648	TEAO	CW/Rev	0.4	3.3	0.31 x 2.25	4	H38	FE
	1550	115/230	9654	TEAO	CW	0.8/0.4	3.4	0.31 x 1.63	4	H31, 86	KR
1/15	1550	208-230	9656	OAO	CCW/Rev	0.48	4.2	0.31 x 3.0	4	86, H30	BO

BO = Bohn FE = Fedders KR = Krack

Note 86: PSC With Capacitor
Note H30: Includes Special Cord And Plug
Note H31: Includes Special Mounting Lugs, No Threaded Studs

Note H38: PSC, Capacitor included and attached
*As Measured From Motor Face

Condenser Fan Offering Overview



U.S. MOTORS® Brand Condenser Fans

Built to the most exacting standards in the industry. More importantly to not create a call back and start up after the off season.

Motor Types Offered:

42 Frame (5" diameter)

- **Clam Shell**
- **RESCUE EZ-FIT®**
- **Refrigeration**
- **OEM replacements**

48 Frame (5.6" diameter)

- **PEP®** (76% efficient)
- **MOJAVE®** (70°C/158°F rated ambient)
- **RESCUE®** (The Ultimate Truck Stock Motor™)

56 Frame (6.3" diameter)

- **Single Phase**
- **Three Phase**
- **VariTough®** – True Inverter Duty Rated

† All marks shown within this document are properties of their respective owners.

Permanent Split Capacitor Condenser Fan
5.0" Diameter, Totally Enclosed, Air Over (TEAO)

APPLICATIONS:

Residential condensing unit fan motor.

FEATURES:

- 42" Leads
- Shaft Down Mount
- #8-32 Studs
  Fig A: 4.312" dia. bolt circle
  Fig B: 4.464" dia. bolt circle
- Designed for use with 370V Capacitor
- 1/2" Dia. Shaft with Flat
- Reversible Rotation
- Automatic Reset Thermal Overload Protector

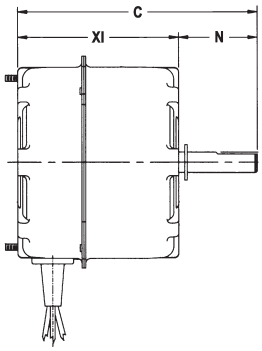


Figure A

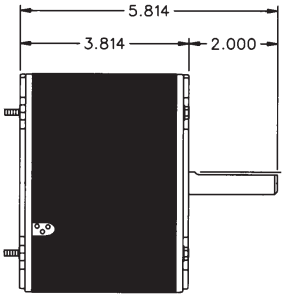


Figure B

"Clam Shell" Single Speed, Stud Mount, Without Capacitor (Fig A)

HP	RPM	Voltage	Catalog Number	Bearings	Cap. MFD	Amps	Shaft N	Shell XI	Total C	Ship Wt.	Notes	OEM
1/10	1075	208-230	2243	Ball	5.0	0.75	2.7	4.1	6.8	9		
1/8	1075	208-230	2249	Ball	5.0	0.90	2.7	4.1	6.8	10		
1/5	1075	208-230	2246	Ball	5.0	1.60	2.7	4.9	7.6	10		
1/4	1075	208-230	2250	Ball	7.5	1.70	2.7	4.9	7.6	11		

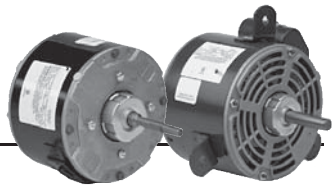
5.0" Single Speed, Stud Mount, Without Capacitor (Fig B) 4.464 BC

HP	RPM	Voltage	Catalog Number	Bearings	Cap. MFD	Amps	Shaft N	Shell XI	Total C	Ship Wt.	Notes	OEM
1/20	1625	230	1989P	SAB	3.0	0.8	2.5	3.8	6.3	10	H35, H42, 98	CO
1/8	1550	230	1675	SAB	5.0	0.8	3.0	3.8	6.8	9	H35	TR
1/8-1/12	1075	208-230	5440H	Ball	5.0	0.8	3.0	5.0	8.0	10		
1/6	1075	208-230	1901	SAB	5.0	1.0	2.0	3.8	5.8	10		LE
1/4-1/6	1075	208-230	5441H	Ball	5.0	1.5	3.0	5.5	8.5	10		

BO = Bohn CO = Copeland LE = Lennox

Note 98: 50/60 Hz
Note H35: Open Air Over
Note H42: Shaft-down mounting

Refrigeration Condenser Fan 5.0" and 5.6" Diameter Open Drip-Proof, Totally Enclosed, Air Over and Open Air Over



APPLICATIONS:

Condenser cooling fan motors to meet manufacturer's requirements for commercial refrigeration units.

FEATURES:

- OEM Direct Replacements
- Single Speed
- Automatic Reset Thermal Overload Protector
- Designed for use with 370V Capacitors

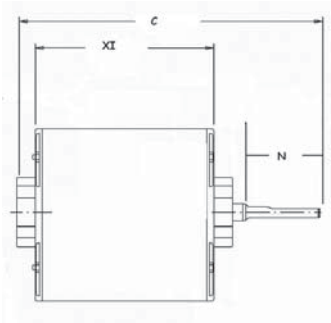


Figure A

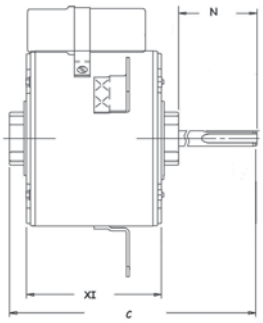


Figure B

5.0" Diameter, 5/16" Diameter Shaft

HP	RPM	Voltage	Catalog Number	Bearings	Cap. MFD	Amps	Shaft N	Shell XI	Total C	Shaft Dia.	Mount	Ship Wt.	Notes	OEM
1/20	1500	230	1775P	SAB	3.0	.5	3.1	3.8	6.9	5/16"	Hub Ring	7	98	TE
1/15	1500	230	1779P	SAB	3.0	.62	3.1	3.8	6.9	5/16"	Hub Ring	8	98	TE

5.6" Permanent Split Capacitor

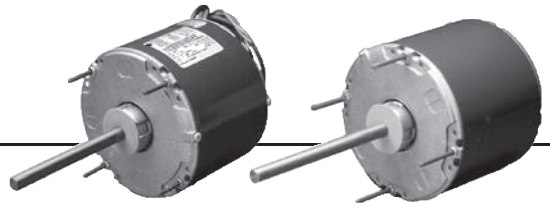
HP	RPM	Voltage	Catalog Number	Bearings	Cap. MFD	Amps	Shaft N	Shell XI	Total C	Mount	Ship Wt.	Notes	OEM
1/6	1550	208-230	6128	SAB	5.0	9.0	2.5	4.1	7.6	Resilient	17	98, 64, H36	CO
	1550	208-230	1645	Ball	3.0	1.4	2.1	3.8	6.4	Stud	12	H35	HU
	1550/1	460	1265	SAB	3	0.55	3.1	4.1	7.1	Bracket	9	98	CO
1/5	1075	208-230	1648	Ball	4.0	2.0	2.5	4.3	7.9	Stud	13	H35	HU
	1075	575	1093	Ball	4.0	.80	2.5	4.8	8.4	Stud	13	H36	
1/4	1550	230	6124	SAB	5.0	2.1	3.0	4.1	7.1	Band	13	64, H36	CO
	1625	208-230	6129	SAB	5.0	1.5	2.3	4.3	7.9	Resilient	17	64, H36	CO
	1625	230	3042	Ball	4.0	1.4	1.5	5.1	7.7	Hub Ring	12	64, H4, H36	TY
	1625	230	8330	SAB	4.0	1.9	2.2	4.3	7.7	3 Lugs	12	64, 98, H36, H42	TE
	1625	380-420/460	8331	SAB	4.0	.95	2.2	4.3	7.7	3 Lugs	12	98, 64, H36, H42	TE
	1625	575	1312	SAB	-	0.7	3.1	4.8	7.9	Band	13	64, 98	
1/3	1625	208-230	6127	SAB	4.0	2.2	1.75	5.8	8.7	Resilient	17	98, 64, H45	CO
	1625	208-230	7232	SAB	6.0	2.9	3.7	4.6	9.3	Hub Ring	16	64, H35	HR
	1075/2	208-230	1354	Ball	-	2.0	3.1	4.8	8.4	3 Lugs	11		
1/2	1725	208-230	644	Ball	5.0	2.7	3.5	5.1	9.1	Stud	15	98, H18, H36	HU
	1100/1	208-230/460	4941	BALL	12.5	2.8/1.5	4.5	6.9	11.4	Resilient	16	-	-

CO = Copeland HU = Hussmann HR = Hill Refrigeration TE = Tecumseh TY = Tyler

Note 64: Capacitor Included
Note 98: 50/60 Hz
Note H4: 2-1/4" hub rings
Note H18: Conduit box

Note H35: Open Air Over
Note H36: Open Drip-Proof
Note H42: Shaft Down
Note H45: Totally Enclosed, Air Over

Permanent Split Capacitor Condenser Fan
5.6" Diameter, Open Drip-Proof, Air Over

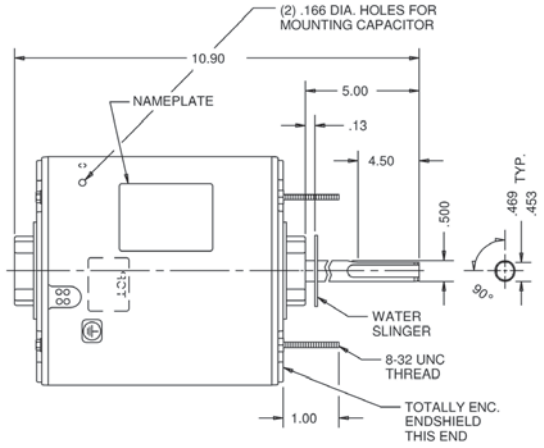


APPLICATIONS:

Designed to meet manufacturer's requirements for condenser cooling fans.

FEATURES:

- High Efficiency ECONOMIZER® Rated (except as noted)
- 60 Hz
- Capacitor Mounting Holes in Frame Band
- Continuous Duty, Air Over
- Water Slinger
- Designed for use with 370V Capacitors
- Automatic Reset Thermal Overload Protector
- Bearings have All Angle Thrust System
- Green Ground Lead
- Reversible Rotation
- Class B Insulation
- Extended Studs are 8-32 UNC Thread unless otherwise noted
- 30" Leads
- Double Flats on Shaft
- Enclosed Endshield at Shaft End



Stud Mount, Shaft Up or Horizontal, Without Capacitor

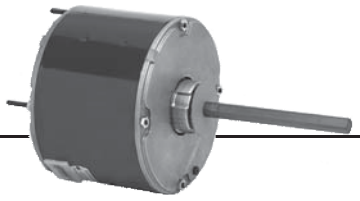
HP	RPM/ Spd.	Voltage	Catalog Number	Bearings	Cap. MFD	Amps	Shaft N	Base XD	Shell XI	Total C	Ship Wt.	Notes	OEM
1/4	825	230	8666	SAB	5.0	1.9	6.0	5.1	4.6	11.6	14		
	1075	208-230	3851	SAB	5.0	1.7	5.0	4.4	3.8	9.9	14	62	
	1075	208-230	8230	SAB	5.0	1.6	3.3	-	3.8	7.1	10	63, 72, H33, H42	
1/3	825	230	8667	SAB	7.5	2.0	6.0	5.6	5.1	12.1	16	63	
	1075	208-230	6880	SAB	5.0	2.2	5.0	4.9	4.3	9.4	12	62	
1/2	1075	208-230	3852	SAB	7.5	3.1	5.0	5.4	4.8	10.9	15	62	
3/4	1075	208-230	3097	SAB	10.0	4.8	5.0	6.6	6.1	12.1	20		
	1075	230	8665	Ball	12.5	4.4	6.0	5.9	5.3	12.4	23		
1	1080	200	8068	Ball	30.0	5.9	4.5	—	6.1	11.1	25	H9, H33	LE
	1075	208-230	1888	Ball	15.0	5.2	6.0	6.8	6.3	13.4	25	62	

LE = Lennox TR = Trane

Note 62: Not an Economizer® model
Note 63: Stud Extensions Out Both Sides of Motor
Note 72: Includes 4 Holes in Shell for Rheem Mount

Note H9: 5/8" Shaft
Note H33: No Hub on Lead End
Note H42: Shaft-end Ventilated, Lead-end Enclosed, Shaft-down Mounting Only

Permanent Split Capacitor Condenser Fan
5.6" Diameter, Totally Enclosed, Air Over (TEAO)

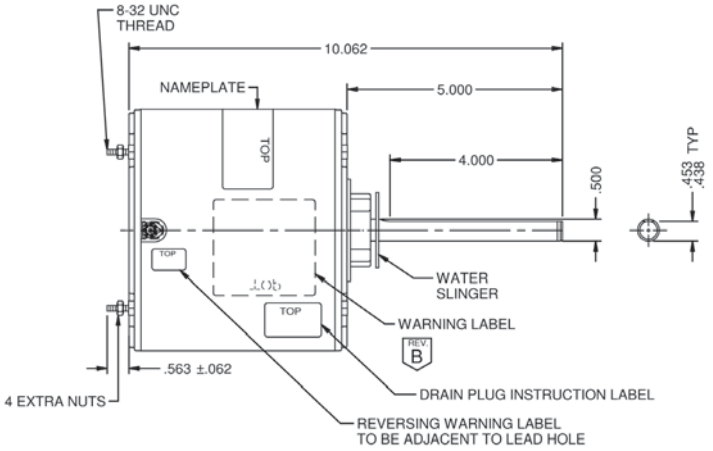


APPLICATIONS:

Residential and commercial condensing unit fan motors to meet manufacturer's requirements.

FEATURES:

- 140°F (60°C) Ambient Design
- Bearings have All Angle Thrust System
- Class B Insulation
- Designed for use with 370V Capacitors
- Extended Studs
- 36" Leads
- Hubless Lead End
- Drain Holes Both Ends
- Reversible Rotation
- Automatic Reset Thermal Overload Protector
- Continuous Duty



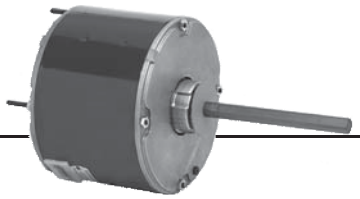
Stud Mount, Without Capacitor, 60°C, All Angle Mount

HP	RPM	Voltage	Catalog Number	Bearings	Cap. MFD	Amps	Shaft N	Shell XI	Total C	Rotation	Ship Wt.	Notes	OEM
1/12	1100	208-230	3401	SAB	5.0	0.7	1.6	4.1	5.7	CWLE	9	H20	CA
1/10	825	208-230	1871	SAB	3.0	1.0	6.0	3.8	10.4	-	10		
	1100	208-230	3402	SAB	5.0	0.8	1.6	4.1	5.7	-	9		CA
1/8	825	208-230	1872	SAB	5.0	0.8	6.0	4.1	10.6	-	11	72	
	825	200-230	1902	Ball	5	.74	1.9	4.4	6.2	CCWLE	10.7		TR
	825	208-230	5456	SAB	5.0	1.2	3.8	4.1	7.8	-	11	72	RH
1/6	825	208-230	1873	SAB	5.0	1.0	6.0	4.1	10.6	-	12	72	
	825	208-230	5457	SAB	7.5	1.2	3.8	4.6	8.3	-	13	72	RH
	825/2	208-230	8673	SAB	5.0	1.0	6.0	4.4	10.9	-	14		
	1075	208-230	1859	SAB	5.0	1.0	5.0	3.8	9.4	-	11		
	1500	208-230	3405	Ball	5.0	0.8	1.6	4.3	6.2	-	9	H20	CA
1/5	825	200-230	1903	Ball	7.5	.93	2.3	5.1	7.3	CCWLE	15.0		TR
	1075	208-230	5450	SAB	3.0	1.3	3.7	3.8	7.5	-	11	72, H16	RH
	1075	208-230	5454	SAB	3.0	1.7	3.7	3.8	8.1	-	11	72	RH
1/4-1/8	825	208-230	1874	SAB	5.0	2.0	6.0	4.3	10.9	-	13	72	
1/4	825	460	1880	Ball	5.0	1.0	6.0	5.1	11.6	-	14		
	825	575	1276	Ball	5	0.7	5.0	4.5	9.9	Rev.	10		
	850	208-230	1743	SAB	5.0	1.5	2.8	4.6	7.3	-	10	H20	YK
	825/2	208-230	8674	SAB	7.5	1.5	6.0	4.6	11.1	-	15		
	1075	208-230	1860	SAB	5.0	1.5	5.0	4.1	9.6	-	12		
	1075	208-230	1876	Ball	5.0	1.5	5.0	4.1	9.6	-	11		
	1075	460	3736	Ball	7.5	0.8	6.0	4.6	11.1	-	12		
	1100	208-230	3404	SAB	5.0	1.8	1.6	4.6	6.2	-	12	H20	CA
	1625	208-230	1890	SAB	5.0	1.4	5.0	4.3	9.9	-	12		

CA = Carrier IC = ICP RH = Rheem YK = York TR = Trane

Note 72: Includes 4 Holes in Shell for Rheem Mount
Note H16: CCWLE rotation only
Note H20: CWLE rotation only
*Uses 440V capacitor.

Permanent Split Capacitor Condenser Fan
5.6" Diameter, Totally Enclosed, Air Over (TEAO) *(continued)*

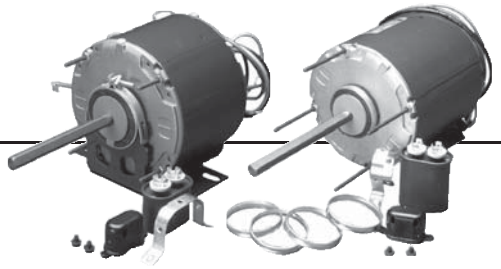


HP	RPM	Voltage	Catalog Number	Bearings	Cap. MFD	Amps	Shaft N	Shell XI	Total C	Ship Wt.	Notes	OEM
1/3-1/5	825	208-230	1875	SAB	7.5*	2.4-1.4	6.0	5.1	11.6	17	72	
1/3	825/2	208-230	8675	SAB	7.5	2.0	6.0	5.4	11.9	17		
	825	460	1881	Ball	7.5	1.0	6.0	5.6	12.1	17		
	825	575	1296	Ball	7.5	1.1	5.0	5.3	10.9	17		
	1075	208-230	1861	SAB	7.5	2.0	5.0	4.6	10.1	14		
	1075	208-230	5455	SAB	5.0	2.0	3.7	4.1	8.3	13	72	RH
	1075	208-230	1877	Ball	7.5	2.0	5.0	4.6	10.1	14		
	1075	460	3737	Ball	7.5	1.3	6.0	5.4	11.9	17		
	1075/2	208-230	8670	SAB	7.5	2.2	6.0	4.8	11.4	16	71	
	1625	208-230	1891	Ball	7.5	1.6	5.0	4.6	10.1	13		
1/3-1/6	825/2	208-230	5464	Ball	10 / 7.5	1.9 / 1.2	5.0	5.3	10.3	18	72	
	1075	208-230	3322	SAB	10.0	1.8	5.0	4.6	9.6	11	72	
	1075	208-230	3323	Ball	7.5	2.0	5.0	4.1	9.1	12	72	
	1075/2	208-230	5462	Ball	7.5 / 5.0	2.6 / 1.8	5.0	4.6	9.6	14	72	
1/2	825	208-230	1870	SAB	12.5	2.8	6.0	6.4	12.4	20		
	825	460	1882	Ball	10.0	1.6	6.0	6.3	12.9	21		
	1075	208-230	1862	SAB	10.0	3.1	6.0	5.3	11.9	18		
	1075	208-230	1878	Ball	10.0	3.1	6.0	5.3	11.9	18		
	1075	460	3738	Ball	10.0	1.5	6.0	5.9	12.4	19		
	1075	575	1274	SAB	10.0	1.3	5	6.4	11.4	20		
	1075	575	1098	SAB	10.0	1.0	5.0	6.4	11.4	20		
	1075/2	208-230	8671	SAB	10.0	2.9	6.0	4.3	10.8	21	71	
	1625	208-230	1892	SAB	5.0	3.0	5.0	5.1	10.6	15		
	1625/1	575	1198	Ball	7.5	1.0	6.5	5.3	11.9	16.7		
1/2-1/5	1075/2	208-230	5465	Ball	12.5 / 10.0	3.0 / 1.3	5.0	5.3	10.3	19	72	
3/4	1075	208-230	1868	SAB	10.0	4.7	5.0	5.8	10.3	20		
	1075	208-230	1879	Ball	10.0	4.7	5.0	5.8	11.4	21		
	1075	460	3742	Ball	10.0	2.0	6.0	6.4	12.9	22		
	1060	575	1273	SAB	12.5	1.8	5.0	6.4	11.4	18		
	1060	575	1099	SAB	12.5	1.25	5.0	6.4	11.4	18		

RH = Rheem

Note 71: 1.5" Stud Ext., Shaft End only, 104°F (40°C) Ambient, Double Flats
Note 72: Includes 4 Holes in Shell for Rheem Mount

Permanent Split Capacitor Condenser Fan
5.6" Diameter, Open Drip-Proof, Air Over



APPLICATIONS:

For use on condenser cooling fans.

FEATURES:

- High Efficiency Economizer® Rated (except as noted)
- 20" or 30" Leads unless otherwise noted
- Double Flats on Shaft—Economizer® Models
- Capacitor Mounting Holes in Frame Band
- Designed for use with 370V Capacitors
- Automatic Reset Thermal Overload Protector
- Bearings have All Angle Thrust System
- Enclosed Endshield at Shaft End
- Continuous Duty, Air Over
- Class B Insulation
- Green Ground Lead
- Extended Studs
- 60 Hz
- Reversible Rotation
- Water Slinger

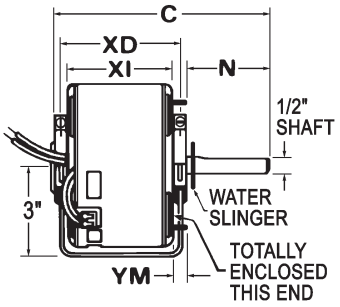


Figure A

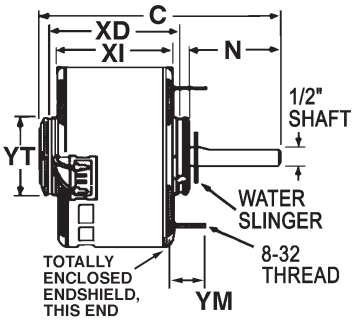


Figure B

Resilient Base, Shaft Up or Horizontal, With Capacitor (Figure A)

HP	RPM/ Spds.	Voltage	Catalog Number	Bearings	Cap. MFD	Amps	Shaft N	Base XD	Shell XI	Total C	Stud YM	Ship Wt.	Notes	OEM
1/4	1075	230	3846	SAB	5.0	1.9	4.9	5.1	4.6	10.4	1	15	62	
1/3	1625	230	4811	SAB	5.0	1.8	4.9	5.1	4.6	10.7	1	16		
	1625	230	4961	Ball	5.0	1.8	4.9	5.1	4.6	10.7	1	17	62	
	1075	230	3847	SAB	7.5	2.2	4.9	5.5	4.9	10.9	1	16		
	1075	230	4960	Ball	7.5	2.2	4.9	5.4	4.8	10.9	1	16		
1/2	1075	230	3848	SAB	7.5	3.1	5.0	6.5	5.9	12.0	1	19		
	1075	230	7025	Ball	7.5	3.1	4.9	6.4	6.0	11.9	1	18		

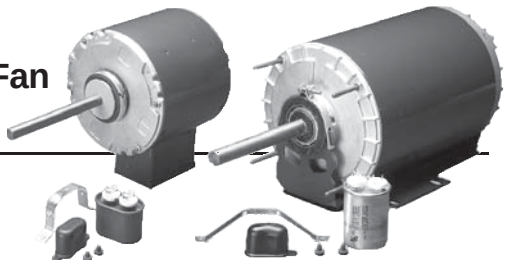
Hub Ring Mount (2 1/4"), Shaft Up or Horizontal, Without Capacitor (Figure B)

HP	RPM/ Spds.	Voltage	Catalog Number	Bearings	Cap. MFD	Amps	Shaft N	Base XD	Shell XI	Total C	Stud YM	Ship Wt.	Notes	OEM
1/8-1/5	1075	230	8537	SAB	5.0	0.8/1.4	3.31	4.1	3.56	7.4		10	62	RH
1/4	1625	208-230	1355	Ball	-	1.2	5.8	6.2	5.6	12.0	1	11		
1/3	825	230	5345	Ball	5.0	3.0	6.0	6.9	6.4	12.9	1	19	64	
	825	208-230	7040	Ball	7.5	2.7	6.0	6.4	6.0	12.4	1	18		
1/2	825	230	7041	Ball	12.5	2.8	6.0	6.7	5.8	13.2	1	21		

RH = Rheem

Note 62: Not an Economizer® model
Note 64: Capacitor Supplied Detached

Permanent Split Capacitor Commercial Condenser Fan Open Drip-Proof & Totally Enclosed, Air Over



APPLICATIONS:

For use on condenser cooling fans in commercial air conditioning applications.

FEATURES:

- Capacitor and Outlet Box Included, unless noted
- Reversible Rotation
- Double-Sealed Ball Bearings
- Continuous Duty, Air Over
- Automatic Reset Thermal Overload Protector
- 60°C Ambient
- Dual Voltage
- Class B Insulation

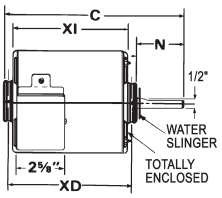


Figure A

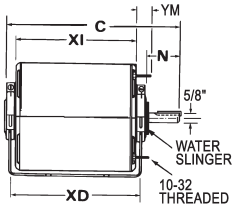


Figure B

5.6" Diameter, All Angle Mounting, Hub Ring Mount (2 1/4") (Fig. A)

HP	RPM/ Spds.	Voltage	Catalog Number	Mounting	Cap. MFD	Amps	Shaft N	Base XD	Shell XI	Total C	Stud YM	Ship Wt.	Notes	OEM
1/3	1075	208-230/460	6727*	Hub	5	2.4/1.2	5	5.9	5.3	11.4	N/A	17		
1/2	1075	208-230/460	7475*	Hub	10	2.8/1.4	5	6.4	5.8	11.9	N/A	20		
	1075	208-230/460	2201*	Hub	10	3.2/1.6	5	7.4	6.8	12.8	N/A	20	67	
	1075	208-230	8868	Stud	10	3.8	3.0	-	6.3	9.3	.63	21	98, H15, H44	
	1075/1	575	1177	3 Lug	7.5	1.9	3.0	-	-	8.8	-	18.2	104	
3/4	1075	208-230/460	2202*	Hub	12.5	4.8/2.3	5	8.4	7.8	13.8	N/A	23	66, 67	
	1075	208-230/460	6603	Hub	7.5	5.0/2.5	5	6.9	6.3	12.4	N/A	22	66, H16	
	1075	208-230/460	5489	Hub	7.5	5.0/2.5	5	6.9	6.3	12.3	N/A	22	65, 66, H15	
	1075	460	8233	Band	15.0	2.3	3	6.6	6.0	10.2	N/A	19	65, 66, H15	AA
	1075/1	208-230/460	1254	Band	15	4.6	3.5	-	-	9.8	-	23	98	QU
1	1080	460	8055	Band	15.0	2.5	5.0	-	6.6	11.6	N/A	20	H16, H29	LE
	1075/1	575	1173	Band	25	2.2	6.0	-	-	13.0	-	26.5		

QU = Quantum Precision®†

6.3" Diameter, All Angle Mounting, Hub or Stud Mount (4) (Fig. A with 5/8" shaft)

HP	RPM/ Spds.	Voltage	Catalog Number	Mounting	Cap. MFD	Amps	Shaft N	Base XD	Shell XI	Total C	Stud YM	Ship Wt.	Notes	OEM
1/2	825	208-230	3568	Band	10.0	3.6	6.0	7.0	6.0	13.4	1.5	25	65, 66, H15	
3/4	1075	208-230	3566	Stud	15.0	3.8	6.0	7.0	6.0	13.4	1.5	26	65, 66, H15	
	825	208-230	3567	Stud	17.5	5.3	6.0	8.2	7.8	14.6	1.5	32	65, 66, H15	
1	1075	208-230	3565	Stud	17.5	5.2	6.0	7.5	6.5	13.9	1.5	30	65, 66, H15	
	1075	208-230/460	2203*	Hub	17.5	5.5-5.4/2.6	6.0	10.4	9.9	16.9	1.5	40	67	
	1075	208-230/460	8431	Stud	12.5	5.8-5.4/2.7	6.0	9.9	9.4	16.4	1.8	41	65, 67	
	850	208-230/460	1271	Hub	-	6.4/3.2	6.0	11.4	10.4	18.4	1.0	45		
1-1/2	1075	208-230/460	2204*	Stud	20.0	8.5-7.6/3.8	6.0	10.9	10.3	16.9	1.5	43	67	

6.3" Diameter, Resilient Base (Fig. B)

HP	RPM/ Spds.	Voltage	Catalog Number	Mounting	Cap. MFD	Amps	Shaft N	Base XD	Shell XI	Total C	Stud YM	Ship Wt.	Notes	OEM
3/4	1075	208-230/460	2193^	Resilient	30.0	4.8/2.5	4.1	8.3	7.8	13.1	--	41	H15, H16, 98	
1	1075	208-230/460	2686*	Resilient	17.5	5.1/2.6	5.0	10.5	9.3	15.8	1.5	38	68	
1-1/2	1075	208-230/460	2896*	Resilient	20.0	7.5/3.8	5.0	11.0	9.8	16.3	1.5	47	67, 68	

AA = Aaron LE = Lennox

Note 65: Ventilated (In wet applications, position vent holes at bottom of motor; use rain shield if used shaft up.)
Note 66: No Outlet Box. Includes Leads
Note 67: Capacitor not included, Internal Conduit Box
Note 68: Quick Change Voltage Receptacle, No Outlet Box
Note 98: 50/60 Hertz
Note 104: Conduit Box Included Lugs 7" B.C.
Note H15: Capacitor Not Included
Note H16: CCWLE Rotation Only
Note H29: Includes Rain Shield, Shaft-up Mounting
Note H44: Stud Mount
^ 440 Capacitor
* Totally Enclosed

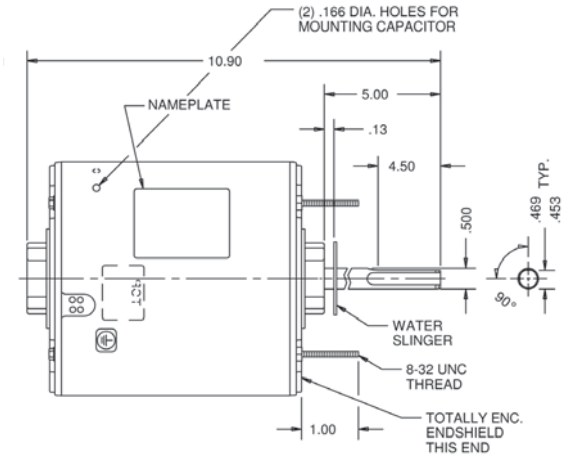
Three Phase Commercial Condenser Fan Open Drip-Proof, Air Over

APPLICATIONS:

Designed to meet manufacturer's requirements for condenser cooling fans in commercial air conditioning applications where 3 phase power is required.

FEATURES:

- Automatic Reset Thermal Overload Protector
- Reversible Rotation
- Continuous Duty, Air Over
- Double-Sealed Ball Bearings
- Dual Voltage
- Class B Insulation
- 140°F (60°C) Ambient Rated
- Shaft-up Mounting



Belly Band Mount, Flat and Keyway on Shaft

HP	RPM/ Spds	Voltage	Catalog Number	NEMA Frame	Amps	Shaft N	Total C	Shaft Diameter	Ship Wt.	Notes	OEM
1/2	1140/1	575	4940	56YZ	.85	3.3	13.4	0.625	21.0		
	575/1	208-230/460	1260	56YZ	3.2-3.1/1.6	3.6	14.4	0.625	21.4	98	HLL
3/4	1140/1	575	4958	56YZ	1.2	6.0	14.8	0.625	27.0		
1	1140/1	575	4933	56YZ	1.6	6.0	16.2	0.625	36.3		
	1140	200-230/460	1816	56YZ	6.0/3.0	3.0	13.6	0.625	35.0		CA
	1140	200-230/460	1326	48YZ	3.5-3.3/1.7	5.0	14.5	0.500	19.0		DB
	1140	200-230/460	8058	56YZ	3.6/1.8	3.4	13.7	0.625	30.0		LE
	1140/1	575	1158	48Y	1.4	5.5	13.1	0.625	21.0		
	1100/1	575	1266	48Y	1.4	3	12	0.500	19.0		
1 1/2	1140/1	575	4934	56YZ	2.3	6.0	16.3	0.625	39.0		
	830/1	208-230/460	1219	56YZ	6.6-3.3	3.5	14.2	0.625	54.0		
2	1140/1	575	1184	56YZ	2.8	6.0	16.8	0.625	40.0		

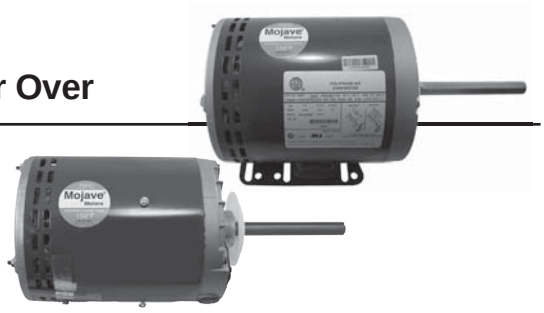
CA = Carrier DB = Dunham Bush LE = Lennox

Rigid Base Mount, Flat and Keyway on Shaft

HP	RPM	Voltage	Catalog Number	NEMA Frame	Amps	Shaft N	Total C	Shaft Dia.	Ship Wt.	Notes	OEM
3/4	1140	208-230/460	3913	56Y	3.5/1.7	3.0	12.2	0.625	32.0	98	
1	1140/1	575	4936	56Z	1.5	3.2	14.5	0.625	23.0		
2	1140	208-230/460	1822	56YZ	7.8/3.9	6.0	17.3	0.625	45.0		
	1140/1	575	1140	56HZ	2.8	6.0	16.8	0.625	44.2		

Note 98: 50/60 Hertz

Three Phase MOJAVE® Series
Commercial Condenser Fan Open Drip-Proof, Air Over



APPLICATIONS:

Designed to meet manufacturer's requirements for condenser cooling fans in commercial air conditioning applications where 3 phase power id required.

ADDITIONAL FEATURES to MOJAVE® Series:

- 158°F (70°C) Ambient Design

Belly Band Mount, Flat and Keyway on Shaft

HP	RPM/Spds	Voltage	Catalog Number	NEMA Frame	Amps	Shaft N	Shell Xl	Total C	Shaft Dia.	Ship Wt.	Notes
3/4	1140	208-230/460	1817H	56Z	2.8/1.4	6.0	9.3	15.3	0.625	31.5	
1	850	208-230/460	1828H	56Z	4.8/2.4	6.0	.625	16.8	0.625	40	
	850	575	1829H	56Z	1.7	6.0	10.8	16.8	0.625	41	
	1140	208-230/460	1818H	56Z	4.2/2.1	6.0	.625	14.8	0.625	27.3	
1 1/2	850	208-230/460	1832H	56Z	6.8/3.3	6.0	10.8	16.8	0.625	44.1	
	1140	208-230/460	1819H	56Z	5.4/2.7	6.0	.625	15.8	0.625	35	
2	1140	208-230/460	8987H	56Z	7.6/3.7	6.0	10.8	16.8	0.625	45	

Rigid Base Mount, Flat and Keyway on Shaft

HP	RPM/ Spds	Voltage	Catalog Number	NEMA Frame	Amps	Shaft N	Shell Xl	Total C	Shaft Dia.	Ship Wt.	Notes
3/4	1140	208-230/460	1826H	56Z	2.8/1.4	6.0	9.3	15.3	0.625	31.5	
1	850	208-230/460	1833H	56Z	4.8/2.4	6.0	10.8	16.8	0.625	31.5	
	1140	208-230/460	1820H	56Z	4.2/2.1	6.0	.625	14.8	0.625	27	
1 1/2	850	208-230/460	1831H	56Z	6.8/3.3	6.0	10.8	16.8	0.625	44.1	
	1140	208-230/460	1821H	56Z	5.4/2.7	6.0	.625	15.8	0.625	35	
2	1140	208-230/460	1822H	56Z	7.6-7.4/3.7	6.0	.625	16.8	0.625	45	

Note B: Belly Band

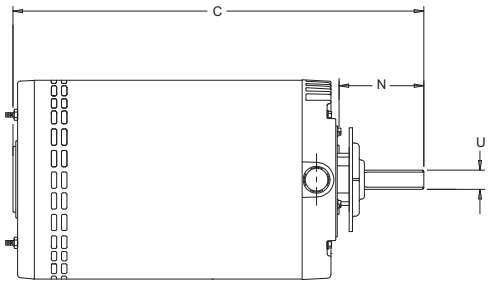
Three Phase VariTough® Inverter Duty Commercial Condenser Fan, Open Air Over

APPLICATIONS:

For use on condenser cooling fans in commercial refrigeration applications, where 3 phase power and variable frequency drives (VFD's) are required.

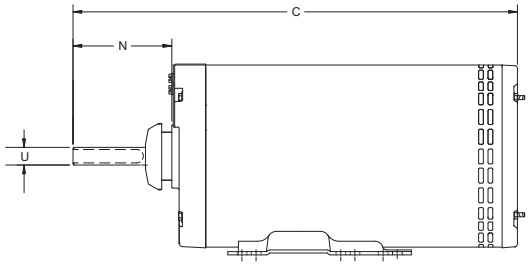
FEATURES:

- Inverter Duty
- Designed to NEMA MG1-Part 31
- Open Drip-Proof, Shaft-up Design
- 70°C Ambient
- Continuous Duty, Air Over
- Double Sealed Ball Bearings
- Includes Shaft Ground Ring
- Patented Voltage Change Device
- Lock Bearing System OSE
- Class F Insulation
- Reversible Rotation
- Thermostat Temperature Protection



Belly Band Mount

HP	RPM	Voltage	Catalog Number	NEMA Frame	Amps	Shaft N	Shaft U	Total C	Ship Wt.
1	825	208-230/460	1830VG	56YZ	5.2-5.2/2.6	3.25	.625	13.6	43
	850	208-230/460	1828VG	56YZ	5.0-5.0/2.5	6.00	.625	16.8	32
	1140	208-230/460	1818VG	56YZ	4.3-4.3/2.1	6.00	.625	15.8	32
1-1/2	850	208-230/460	1832VG	56YZ	7.2-7.2/3.6	3.50	.625	15.8	32
	1140	208-230/460	1819VG	56YZ	5.3-5.3/2.6	6.00	.625	16.3	43
2	1140	208-230/460	8987VG	56YZ	7.8-7.8/3.9	6.00	.625	16.8	48



Rigid Base Mount

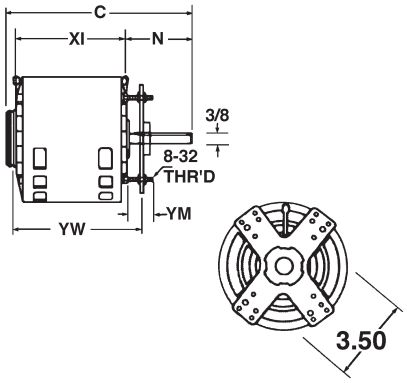
HP	RPM	Voltage	Catalog Number	NEMA Frame	Amps	Shaft N	Shaft U	Total C	Ship Wt.
1/2	575	230/460	1139VG	56YZ	3.1/1.6	3.6	.625	14.4	44
1	850	208-230/460	1833VG	56YZ	5.0-5.0/2.5	6.0	.625	16.8	42
	1140	208-230/460	1820VG	56YZ	4.3-4.3/2.1	6.0	.625	15.8	38
1-1/2	850	208-230/460	1831VG	56YZ	7.2-7.2/3.6	3.5	.625	15.8	40
	1140	208-230/460	1821VG	56YZ	5.3-5.3/2.6	6.0	.625	16.3	44
2	1140	208-230/460	1822VG	56YZ	7.8-7.8/3.9	6.0	.625	16.8	48

"VG" catalog numbers. Includes Shaft Grounding Ring.

21/29 Frame Replacement Motor
5.0" Diameter, Open Drip-Proof, Air Over

APPLICATIONS:

Designed to replace most original 21 and 29 frame GE®† motors.



FEATURES:

- Four Motors Replace Most Original 21 Frame GE®† Motors (see below)
- P in Catalog Number Indicates Permanent Split Capacitor, Capacitor Included
- Self Aligning Bearings
- Holes Provided for Attaching a BX Connector
- Resilient Hub Rings, 2 1/4" Diameter
- Rotation CCW Lead End Except 1468P
- 30" Leads
- Dual Voltage Easily Changed by Quick Connects
- Class B Insulation
- 3/8" Diameter Shafts with 1/2" Adapters
- Extended Thru-bolts
- Automatic Reset Thermal Overload Protector
- Mounting Bracket Provided at Shaft End
- Can be Moved on Extended-Thru Bolts to Fit Most Existing Bases
- Has Mounting Holes and Bolts to Match 21 Frame Bolt Circle for Stud Mounting
- Can be Resilient Mounted, Band Mounted or End Mounted

Hub Mount Bracket (2-1/4") Single Speed

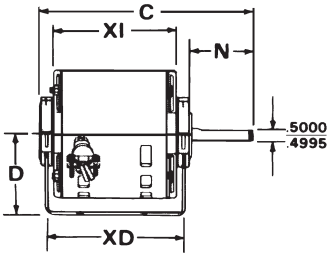
HP	RPM	Voltage	Catalog Number	Bearings	Amps	Shaft N	Shaft Dia.	Shell XI	Total C	Stud YM	Max. Ext. YW	Ship Wt.	Notes
1/20	1550	115/208-230	1468P	SAB	1 .1/0 .5	3 .3	0 .375	3 .3	7 .1	1 .5	5 .6	7	H20
1/15	1550	115/208-230	1469P	SAB	1 .3/0 .7	3 .5	0 .375	3 .3	7 .4	1 .5	5 .8	7	
1/10	1550	115/208-230	1470P	SAB	1 .7/0 .9	3 .5	0 .375	3 .6	7 .6	1 .5	6 .1	7	
	1050	115/208-230	1471P	SAB	1 .7/0 .8	3 .3	0 .375	3 .8	7 .6	1 .5	6 .1	7	

Replacement Cross Reference

Catalog Number	GE Number
1468P	DG3001, DG3002, DG3003, DG3004, DG3021, DG3022, DG3023, DG3024
1469P	FG3101, FG3102, FG3103, FG3104, FG3121, FG3122, FG3123, FG3124
1470P	HG3201, HG3202, HG3203, HG3204, HG3221, HG3222, HG3223, HG3224
1471P	HG3253, HG3254, HG3275, HG3263, HG3264

FEATURES:

- P in Catalog Number Indicates Permanent Split Capacitor, Capacitor Included
- 36" Leads
- CWLE Rotation
- Bearings have All Angle Thrust System
- BX Connector
- Class B Insulation
- Continuous Duty, Air Over
- Automatic Reset Thermal Overload Protector
- Connection Instructions Included in Nameplate Data
- Green Ground Lead



Resilient Base Single Speed

HP	RPM	Voltage	Catalog Number	Bearings	Frame	Amps	Shaft N	Shell XD	Shell XI	Total C	D	Ship Wt.	Notes
1/10	1550	115/230	721P	SAB	42Y	2 .7/1 .4	2 .4	3 .9	3 .3	6 .9	2 .6	9	
1/6	1550	115/230	722P	SAB	42Z	2 .4/1 .2	2 .4	4 .4	3 .8	7 .4	2 .6	11	

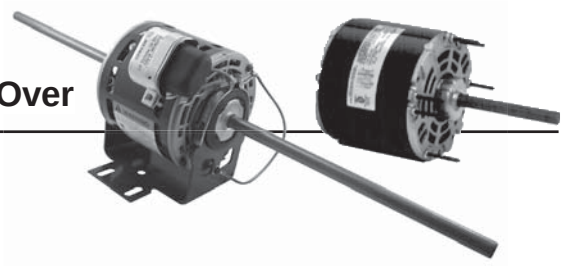
5.0" Diameter, Double Shaft

HP	RPM/ Spds	Voltage	Catalog Number	Bearings	NEMA Frame	Cap. MFD	Amps	Shaft N	Shaft XN	Shell XI	Total C	Shaft Diameter	Ship Wt.	Notes
1/20	1075/4	115	1270*	BALL	42Y	5	0.9	10.1	10.1	4.3	25.6	0.500	8.0	
1/15	1050/3	208-230	1261*	SAB	42Y	3	0.5	8.3	8.3	4.6	22.2	0.500	7.8	
1/10	1050/5	115	2832*	SAB	42Y	5	2.5	10.0	10.0	4.3	24.3	0.500	7.1	
1/8	1550/4	115	1180	BALL	42Y	5	2.0	10.2	10.2	3.6	24.0	0.500	7.1	

* Includes Resilient Base and Mounted Capacitor

Note H20: Rotation CWLE

Direct Drive Fan
Single & Double Shaft 5.0" Diameter, Open, Air Over



APPLICATIONS:

Designed to meet manufacturer's requirements for direct drive fans & blowers.

FEATURES:

- Bearings Have All Angle Thrust System
- Continuous Duty, Air Over
- 24" Line Leads Unless Otherwise Noted
- Automatic Reset Thermal Overload Protector
- Connection Information Furnished in the Nameplate Data
- Shaded Pole Design Except Where Noted

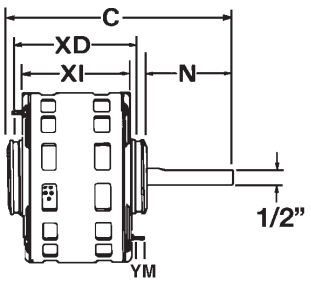


Figure A

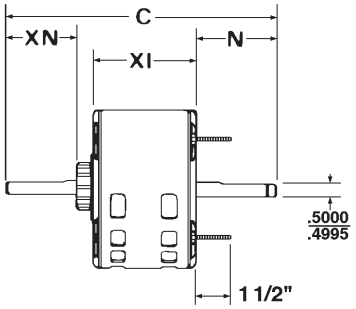


Figure B

5.0" Diameter, Stud or Hub Ring Mount (2.5") (Fig. A)

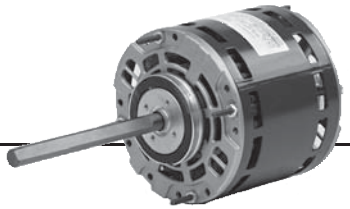
HP	RPM/ Spds.	Voltage	Catalog Number	Bearings	NEMA Frame	Amps	Shaft N	Base XD	Shell XI	Total C	Stud YM	Ship Wt.	Notes
1/15	1050	115	1342	SAB	42	2.6	2.8	N/A	3.8	6.6	0.6	10	84, H16, H19
	1050/2	115	1333	SAB	42	3	1.9	N/A	3.3	5.2	0.6	11	84, H3, H16
1/10	1050	115	1336	SAB	42	3.7	1.8	N/A	3.8	5.7	0.6	11	84, H3, H6, H16
1/8	1050	115	1337	SAB	42	5.5	5	5	4.5	10.4	0.9	13	84, H3, H16
1/6	1050	115	1127P	SAB	42	3.0	4.0	5.0	4.3	9.4	N/A	12	84, H3, H16, H38
	1050	115	2166P	SAB	42	2.6	3.5	4.2	3.6	8.2	-	8.4	84, H16
1/5	1050	115	1340	SAB	42	7.1	2.2	5.2	4.7	7.9	0.9	14	84, H3, H16
	1050/3	115	1338P	SAB	42	3.2	4.9	5.5	5.0	10.9	0.9	14	84, H3, H16, H38
	1075	208-230	1124	SAB	42	1.3	5.7	5.7	4.1	16.5	12		No Base Included
1/4	1050	115	1341	SAB	42	8.9	2.6	5.7	5.2	8.7	0.9	15	84, H3, H16

5.0" Diameter, Resilient Base, Double Shaft (Fig. B)

HP	RPM/ Spds.	Voltage	Catalog Number	Bearings	Rotation LE	Amps	Shaft N	Shaft XN	Shell XI	Total C	Ship Wt.	Notes	OEM
1/20	1075/4	115	1270	Ball	CW	0.9	10.1	10.1	4.3	25.6	8.0	H38	
1/15	1050/3	208-230	1261	SAB	Rev	0.5	8.3	8.3	4.6	22.2	7.8	H38	
1/10	1050	115	1182	Ball	CWLE	1.7	9.5	9.5	4.1	24.6	7.0	H38	
	1050/5	115	2832	SAB	CW	2.5	10.0	10.0	4.3	24.3	7.1	H38	
	1050/5	115	2827P	SAB	CW	2.5	10.0	10.0	4.1	25.2	9	H34, H38	
	1550/3	115	2817	SAB	CCW	3.8	8.4	8.4	4.6	22.4	8		
1/8	1550/4	115	1180	Ball	CW	2.0	10.2	10.2	3.6	24.0	7.1	Belly Band	
1/6	1625/2	115	1238	SAB	CCW	2.3	7.0	7.0	3.9	18.9	11	H38	
1/4	1550/3	230	1221P	SAB	CCW	1.6	8.0	8.0	4.3	20.9	14	H3, H21, H38	

Note 84: Non-reversible
Note H3: 20" Leads
Note H6: 3/8" Shaft
Note H16: Rotation CCW L.E.
Note H19: Conduit Box on Motor
Note H21: Fig. B Type, Includes Mounting Kit; Non-Reversible
Note H34: Non-Reversible; 54" Leads; Includes Resilient Base
Note H37: PSC, 5.0 MFD Capacitor Required
Note H38: PSC, Capacitor Included and Attached
* Not RB
+ No base Included

Permanent Split Capacitor Direct Drive Fan Single Shaft 5.0" Diameter, Open, Air Over

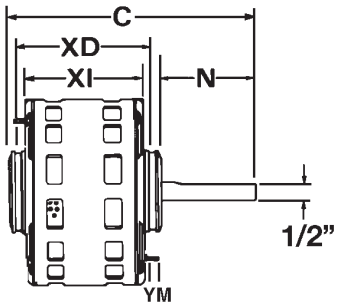


APPLICATIONS:

Designed to meet manufacturer's requirements for use on direct drive fan & blowers.

FEATURES:

- Reversible Unless Noted
- Bearings Have All Angle Thrust System
- Designed for Use with 370V Capacitors
- Continuous Duty, Air Over
- 24" Line Leads Unless Otherwise Noted
- Automatic Reset Thermal Overload Protector
- Connection and Capacitor Information Furnished in the Nameplate Data



Permanent Split Capacitor, 5.0" Diameter, Stud or Hub Ring Mount (2.5")

HP	RPM/ Spds.	Voltage	Catalog Number	Bearings	Cap. MFD	Amps	Shaft N	Base XD	Shell XI	Total C	Stud YM	Ship Wt.	Notes
1/5	1075/3	203-230	8952	SAB	5 .0	1 .6	4 .0	5 .3	4 .9	9 .9	N/A	11	
	1075/4	115	1268	SAB	4 .0	3 .4	3 .5	4 .6	4 .1	8 .7	1	10	98
1/4	1050/3	115	1390	SAB	7 .5	2 .8	4 .0	4 .9	4 .3	8 .9	1	13	H24
	1050/3	208-230	1391	SAB	7 .5	1 .5	4 .0	4 .9	4 .3	8 .9	1	13	H24
1/3	1075/3	115	8955	SAB	15 .0	3 .8	4 .0	5 .1	-	10 .2	.75	13	

Note 98: 50/60 Hz

Note H24: Hub Rings not included

Permanent Split Capacitor Packaged Terminal A/C − Heat Pump Open, Air Over

APPLICATIONS:

Designed to meet manufacturer's requirements for use in package terminal air conditioners or heat pump units.

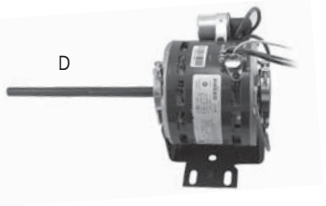
FEATURES:

- Bearings Have All Angle Thrust System
- Designed for use with 370V Capacitors
- Continuous Duty, Air Over
- Automatic Reset Thermal Overload Protector

A 

B 

C 

D 

Single Shaft, Direct Drive Blower - 5.0" Diameter

HP	RPM / Spds.	Voltage	Catalog Number	Cap MFD	Amps	Shaft Length	Total Length	Mount	Fig.	Rotation	Ship Wt.	Notes	OEM
1/15	1040/3	115	1377	7.5	1.3	6.5	10.6	Flex	C	CCWLE			
1/30	1100/3	115	1374	5.0	0.50	8.5	13.6	Resilient	D	CWLE	9	64	TR
	1100/3	115-127	4125	4.0	0.53	8.0	13.2	Resilient	D	CCWLE	12	64	IE
	1600/3	115-127	1269	3.0	0.51	6.5	11.4	Resilient	D	CCWLE	7		IE
	1100/3	115	1218	7.5	0.73	7.0	10.8	Flex	C	CCWLE	7		IE
	1100/3	277	1259	3.0	0.32	7.0	10.8	Flex	C	CCWLE	5		IE
1/20	1100/3	115	1258	7.5	1.10	7.0	10.8	Flex	C	CCWLE	10		IE
	1100/3	115	1676	5.0	0.55	8.9	13.1	Resilient	D	CWLE	12	64	TR
	1075/3	208-230	1378	5.0	0.55	6.5	10.6	Flex	C	CCWLE	12		IE
	1075/3	277	4137	4.0	0.55	6.5	9.9	3 Lugs	A	CCWLE	9		IE
	1100/3	277	1264	3.0	0.42	7.0	10.8	Flex	C	CCWLE	7		IE
1/16	850/3	277	1678	4.0	0.50	2.3	6.3	3 Lugs	B	CWLE	12	64	TR
1/15	1075/3	265	1365	4.0	0.60	7.0	10.8	Flex	C	CCWLE	8		IE
1/12	1375/3	115-127	1211	6.0/7.5	1.35	6.5	11.4	Resilient	D	CCWLE	7	64	IE
1/5	925/3	208-240	4129	6.0	1.90	7.0	11.6	Flex	C	CCWLE	8	98	IE
1/4	970/3	115	4130	12.5	6.00	7.0	11.8	Flex	C	CCWLE	8		IE
	1050/3	277	1962	7.5	1.60	7.0	12.6	Flex	C	CCWLE	8		IE

TR = Trane IE = IEC FI = First

U.S. MOTORS® Catalog Number	OEM Number	Industry Number	U.S. MOTORS® Catalog Number	OEM Number	Industry Number
1211	70556336	------	1678	X70500269-01/MOT2852	5KSP29DK1507S
1218	705563-01	------	1961	705563-09	SKCP29DK6018S
1258	705563-02		1962	700215-48	5KCP29MK6109S
1259	70556307	5KCP29BK6016AS	4125	700216-92	5KCP29BK5875S
1264	70556308	5KCP29FK6017S	4129	700215-42	SKCP29KK4878AS
1269	70556329	------	4130	700215-21	SKCP29MK6102S
1374	7/MOT1878	5KSP29DK1507S	4136	705563-14	5KCP29FK6023S
1676	X70500149-02	5KSP29DK1507S	4137	700215-45	SKCP29FK9775

Note 64: Capacitor Included
Note 98: 60/50 Hz

Permanent Split Capacitor Packaged Terminal A/C − Heat Pump Open, Air Over *(continued)*

E

F

Dual Shaft, Direct Drive Blower - 5.0" Diameter

HP	RPM / Spds.	Voltage	Catalog Number	Cap MFD	Amps	Shaft N	Shaft XN	Total Length	Mount	Fig.	Rotation	Ship Wt.	Notes	OEM
1/15	1100/3	115	1090	5.0	0.80	9.7	10.8	25.4	Resilient	E	CWLE	13		TR
1/12	1375/3	115-120	1256	6.0	1.40	8.3	8.3	21.9	Resilient	E	CCWLE	11		IE
	1150/3	277	1960	5.0	0.69	8.3	7.6	21.2	Hub	F	CCWLE	9		IE
1/8	1500/3	277	1964	4.0	0.80	8.3	7.8	21.2	Resilient	E	CCWLE	9		IE
1/6	1625/4	115	8525	5.0	2.20	9.4	9.4	24.0	Resilient	E	CCWLE	9		
	1350/3	115-127	1210	5.0	1.80	8.3	8.0	21.7	Resilient	E	CCWLE	10	98	IE
	1450/3	115-120	1257	7.5	2.50	8.3	8.3	21.9	Resilient	E	CCWLE	11		IE
	1500/3	115	1192	7.5	2.30	10.0	10.0	25.1	Resilient	E	CWLE	10		
1/5	1625/3	208-230	1353	5.0	1.2	9.2	9.2	23.6	Resilient	E	CCWLE	10		
1/4	1625/2	208-230	1279	5.0	1.40	9.0	9.0	23.2	Resilient	E	CCWLE	13		FI

TR = Trane IE = IEC FI = First

U.S. MOTORS® Catalog Number	OEM Number	Industry Number	U.S. MOTORS® Catalog Number	OEM Number	Industry Number
1090	X70500149-04 / MOT1877, X70500149-01	5KSP29KD1507S	1257	700215-17	------
1192	------	955	1279	M10	------
1210	70556335	------	1960	7055263-26	5KCP29BK6366S
1256	700215-16	------	1964	------	SKCP29CK8613S

G

H

Single Shaft, Direct Drive Blower - 5.6" Diameter

HP	RPM / Spds.	Voltage	Catalog Number	Cap MFD	Amps	Shaft Length	Total Length	Mount	Fig.	Rotation	Ship Wt.	OEM
1/12	1250/2	265	1954	4.0	0.60	2.3	6.1	Band	G	CCWLE	10	AM
1/10	810/3	277	1679	5.0	0.51	2.5	6.6	3 Lugs	H	CWLE	13	TR

AM = Amana TR = Trane

U.S. MOTORS® Catalog Number	OEM Number	Industry Number
1679	X70500270-01/MOT2853	5KSP29DK1507S
1954	C61148-2	5KCP39CGD588BS

Note 98: 60/50 Hz

Permanent Split Capacitor Packaged Terminal A/C-Heat Pump
5.6" Diameter, Open, Air Over *(continued)*

J

K

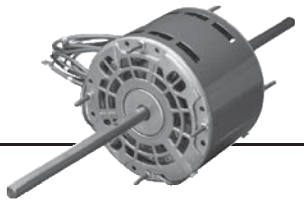
Dual Shaft, Direct Drive Blower - 5.6" Diameter

HP	RPM / Spds.	Voltage	Catalog Number	Cap MFD	Amps	Shaft N	Shaft XN	Total Length	Mount	Fig.	Rotation	Ship Wt.	OEM
1/8	1075/3	277	1042	5	0.76	8.4	8.4	21.7	Hub Ring	J	CCWLE	9	
1/5	1040/3	277/265	3360	3	1.30	7.0	3.0	13.8	Lug	K	CWLE	14	CA

CA = Carrier

U.S. MOTORS® Catalog Number	OEM Number	Industry Number
3360	HC37MB730	4

Permanent Split Capacitor Double Shaft Fan & Blower 5.6" Diameter, Two & Three Speed



APPLICATIONS:

Design to meet manufacturer's requirements for blowers utilizing a double-shaft motor.

FEATURES:

- Open Drip-Proof, Air Over, Except Where Noted
- Automatic Reset Thermal Overload Protector
- CCW Rotation Lead End
- Bearings Have All Angle Thrust System
- Continuous Duty, Air Over
- Green Ground Lead
- Connection and Capacitor Information Furnished on Nameplate
- Designed for Use with 370V Capacitors
- Hub Rings are 2 1/4" Diameter, Furnished Detached, with Extra Metal Outer Rings for Adapting to 2 1/2" Diameter
- Mounting Holes in Shell for Mounting Capacitor
- When Supplied, Capacitor and Mounting Hardware are Supplied Detached
- 20" Leads
- Class B Insulation

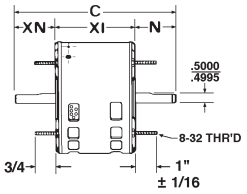


Figure A

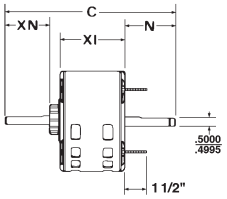


Figure B

Stud Mount, Without Capacitor and Mounting Kit, Three Speed, Economizer® High Efficiency (Fig. A)

HP	RPM/ Spds.	Voltage	Catalog Number	Bearings	Cap MFD	Amps	Shaft N	Shaft XN	Shell XI	Total C	Ship Wt.	Notes	OEM
1/4	1625/3	230	8725	SAB	6 .0	1 .6	7 .0	7 .0	4 .1	18 .1	12		
1/8	1075/3	115	1186	SAB	5 .0	2 .1	6 .0	6 .0	3 .9	15 .8	12	H45	
	1075/3	208-230	1187	SAB	5 .0	0 .9	6 .0	6 .0	3 .9	15 .8	12	H45	
1/3	1625/3	230	8726	SAB	7 .5	1 .9	7 .0	7 .0	4 .3	18 .3	13		

Resilient Mounting With Capacitor and Mounting Kit, Two Speed (Fig. B)

HP	RPM/ Spds.	Voltage	Catalog Number	Bearings	Cap. MFD	Amps	Shaft N	Shaft XN	Shell XI	Total C	Wt.	Notes	OEM
1/4	1075/2	115	1244	SAB	5.0	4.4	7.0	7.0	4.4	19.4	16	RB	
	1625/2	115	1242	SAB	3.0	3.6	7.0	7.0	3.9	18.9	13	RB	
	1625/2	230	1243	SAB	3.0	1.8	7.0	7.0	3.9	18.9	12	RB	

Hub or Stud Mount (Except Where Noted), With Capacitor and Mounting Kit, 3 or 4 Speed (Fig. B)

HP	RPM/ Spds.	Voltage	Catalog Number	Bearings	Cap. MFD	Amps	Shaft N	Shaft XN	Shell XI	Total C	Wt.	Notes	OEM
1/6	1075/3	115	1240	SAB	5.0	2.9	7.0	7.0	3.7	18.7	12	RB	
1/5	1075/3	230	1152	SAB	5.0	1.4	5.1	4.5	3.8	13.4	13		GB
1/4	1625/4	208-230	1381	SAB	5.0	1.2	9.1	9.1	4.3	23.5	9	RB	
1/3	1625/3	230	1887	SAB	5.0	2.2	8.0	8.0	4.3	20.8	13		
	1075/3	230	1213	SAB	5.0	2.5	8.0	8.0	4.3	20.1	18		
	1075/3	230	5108	SAB	5.0	2.3	4.3	4.6	4.3	14.2	16		WP
	1075/3	230	1247	SAB	5.0	2.5	7.0	7.0	4.7	19.7	18	RB	
1/2	1075/3	230	1824	SAB	5.0	4.5	8.0	8.0	5.4	22.0	19		
3/4	1075 /3	208-230	1894	SAB	7.5	5.0	7.3	7.8	5.6	20.6	17.9		

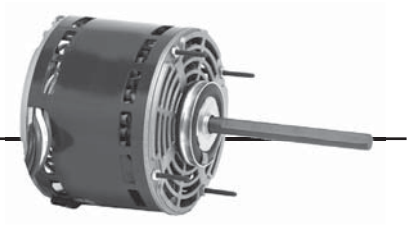
Hub or Stud Mount, Without Capacitor and Mounting Kit*, Three Speed (Fig. B)

HP	RPM/ Spds.	Voltage	Catalog Number	Bearings	Cap MFD	Amps	Shaft N	Shaft XN	Shell XI	Total C	Ship Wt.	Notes	OEM
1/6	1075/3	115	12160	SAB	5 .0	3 .0	8 .0	8 .0	3 .6	20 .1	11		
1/4	1075/3	230	3134	SAB	5 .0	2 .0	8 .0	8 .0	4 .6	20 .1	13		
1/3	1075/3	230	3135	SAB	5 .0	2 .5	8 .0	8 .0	4 .6	21 .1	14		
1/2	1075/3	230	3136	SAB	5 .0	4 .5	8 .0	8 .0	5 .4	22 .0	20		

GB = Gibson WP = Whirlpool *To Make Resilient Mount, Order Kit Numbers 27 and 4. See Page 62.

Note H45: Totally Enclosed, Air Over
Note RB: Resilient Mounting

Permanent Split Capacitor Direct Drive Fan & Blower 5.6" Diameter, Open, Air Over

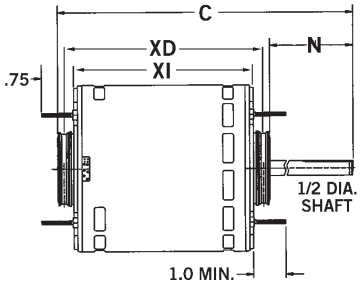


APPLICATIONS:

Residential and commercial direct drive fans and blowers.

FEATURES:

- Stud Extensions On Popular Models
- Designed for use with 370V Capacitors
- Class B Insulation
- 24" Leads
- Continuous Duty, Air Over
- Bearings Have All Angle Thrust System
- Reversible Rotation
- For Flex Mount, Order Catalog # 44; See Page 63
- Automatic Reset Thermal Overload Protector
- Connection and Capacitor Information Furnished in the Nameplate Data
- 2.5" Dia. Hub Rings Included
- All Angle Mount



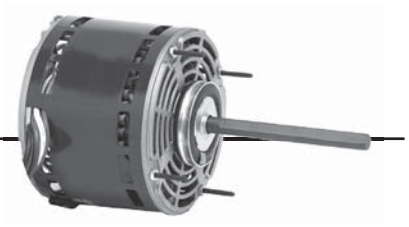
Hub Ring Mount (2.5") except as noted, Without Capacitor

HP	RPM/ Spds.	Voltage	Catalog Number	Cap. MFD	Amps	Shaft N	Base XD	Shell XI	Total C	Ship Wt.	Notes	OEM
1/4	1075/3	115	1863	7.5	3.5	5.0	4.9	4.3	10.4	12		
	1625/3	115	1690	10.0	2.7	6.0	4.7	4.3	10.4	13		
	1075/3	208-230	1971	7.5	1.5	5.0	4.9	4.3	10.4	11		
	1075/3	277	600	4.0	1.6	5.0	5.1	4.6	10.7	14	69	
1/3	1075/3	115	1864	7.5	5.0	5.0	5.1	4.6	10.7	12		
	1625/3	115	1692	15.0	3.7	6.0	5.1	4.6	10.7	13		
	1075/3	208-230	1972	7.5	1.9	5.0	4.9	4.3	10.4	13		
	1075/3	277	601	4.0	2.2	6.0	5.2	4.7	10.7	14	69	
	1625/3	208-230	1693	5.0	2.1	4.5	5.1	4.6	10.7	13		
1/3-1/8	825/2	208-230	5469	7.5	2.4	4.5	-	5.3	9.8	17	72	
1/2	825/2	208-230	8064	20.0	4.4	2.5	5.6	6.1	9.0	21	69	LE
	1075/3	115	1865	10.0	6.5	5.0	6.0	5.4	10.4	19		
	1625/3	115	1694	20.0	5.5	5.0	5.9	5.3	11.4	17	A	
	1075/3	208-230	1973	10.0	2.9	5.0	5.9	5.3	11.4	19		
	1075/3	277	602	6.0	3.4	6.0	5.5	4.9	10.9	16	69	
	1075/3	115	1323	15	5.0	3.5	-	4.8	8.3	12	H11	RH
	1625/3	208-230	1695	7.5	3.0	5.0	5.9	5.3	11.4	17		
1/2-1/6	1075/4	115	5460	10.0/7.5	7.3	5.0	5.4	4.8	9.8	15	72	
	1075/4	208-230	5461	10/5	3.6	5.0	5.4	4.8	9.8	15	72	
3/4	1625/3	115	1696	15.0	8.6	6.0	6.1	5.6	11.7	20		
	1625/3	208-230	1697	10.0	4.4-4.2	6.0	6.1	5.6	11.7	18	A	
	1075/3	115	8904	15.0	9.5	5.0	6.0	5.4	10.4	19	69	
	1075/3	208-230	8905	15.0	4.0	5.0	6.0	5.4	10.4	19	69	
	1075/3	277	5847	15.0	4.1	6.0	6.7	5.6	13.2	19		
	1075/4	115	3340	7.5	12.1	6.0	4.8	5.3	12.4	18		CA
3/4	1075/5	208-230	8065	20	5.0	2.5	-	8.0	11.4	18		
	1075/4	115	6452	15.0	11.2	5.0	-	5.8	10.8	18	69, H11	
	1075/2	208-230	5471	20/10	4.1	5.0	6.6	6.1	11.6	21	72	
3/4-1/5	1075/2	115	5470	20/10	8.1	5.0	6.6	6.1	11.6	22	72	
1	1075/3	115	8906	20.0	12.1	5.0	6.6	6.1	12.2	20	H17	
	1075/3	208-230	8907	20.0	5.6	5.0	6.6	6.1	12.2	21	H17	
	1625/3	115	1699	25.0	11.1	6.0	6.4	5.9	12.9	21	H7	
	1625/3	208-230	1700		5.1	6.0	5.9	6.4	12.4	20		

CA = Carrier LE = Lennox

Note 69: No Stud Extension
Note A: Class A Insulation
Note H7: 36" Leads, 2.25" Dia. Hubs With 2.5" Dia. Kit Included.
Note H11: Band Mount
Note H17: Class B Insulation, Studs Shaft Side Only, Ball Bearings
Note 72: Includes 4 Holes In Shell For Rheem Mount

Permanent Split Capacitor Direct Drive Fan & Blower
5.6" Diameter, Open, Air Over, High Efficiency

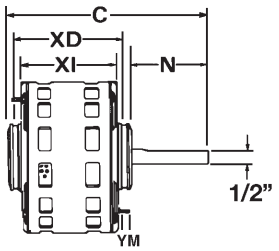


APPLICATIONS:

Designed to meet manufacturer's requirements for use on direct drive fans & blowers.

FEATURES:

- Reversible Unless Noted
- Class B Insulation
- Bearings Have All Angle Thrust System
- Continuous Duty, Air Over
- Designed For Use With 370V Capacitors
- 36" Line Leads Unless Otherwise Noted
- High Efficiency Economizer® Motors
- Automatic Reset Thermal Overload Protector
- Connection and Capacitor Information Furnished in the Nameplate Data
- When Furnished, the Capacitor and Its Mounting Hardware is Supplied Detached
- 2.5" Dia. Hub Rings Included – See Notes



Stud or Hub Ring Mount (2.5"), Single Speed

HP	RPM/ Spds.	Voltage	Catalog Number	Bearings	Cap MFD	Amps	Shaft N	Base XD	Shell XI	Total C	Stud YM	Ship Wt.	Notes	OEM
1/3	825	208-230	6873	Ball	5.0	2 .7	4 .5	6 .4	5 .8	11 .4	N/A	17	H10	

Stud or Hub Ring Mount (2.5"), Two Speed

HP	RPM/ Spds.	Voltage	Catalog Number	Bearings	Cap MFD	Amps	Shaft N	Base XD	Shell XI	Total C	Stud YM	Ship Wt.	Notes	OEM
1/4	1625/2	460	8944	Ball	5.0	0.8	6.0	N/A	4.6	10.6	0.8	13		
1/3	1075/2	460	8945	Ball	5.0	1.3	6.0	5.3	4.8	11.9	0.8	14	64	
3/4	1075/2	460	8947	Ball	20.0	2.2	6 .0	6 .1	5 .6	12 .7	0 .8	21	64	

Stud or Hub Ring Mount (2.5"), Three Speed

HP	RPM/ Spds.	Voltage	Catalog Number	Bearings	Cap MFD	Amps	Shaft N	Base XD	Shell XI	Total C	Stud YM	Ship Wt.	Notes	OEM
1	1100/3	460	2553	SAB	25.0	3.3	3.5	-	6.8	10.3	N/A	20	62, H11	YK

Four Speed

HP	RPM/ Spds.	Voltage	Catalog Number	Bearings	Cap MFD	Amps	Shaft N	Base XD	Shell XI	Total C	Stud YM	Ship Wt.	Notes	OEM
1/6	1075/4	115	5825	SAB	4 .0	2 .2	6 .0	4 .6	4 .1	11 .1	1 .5	11	H1	
	1075/4	208-230	5826	SAB	5 .0	1 .1-1 .0	6 .0	4 .6	4 .1	11 .1	1 .5	11	H1	
1/4	1075/4	115	5830	SAB	5 .0	3 .8	6 .0	4 .9	4 .4	11 .4	1 .5	12	H1	
	1075/4	208-230	5831	SAB	5 .0	1 .8-1 .7	6 .0	4 .9	4 .4	11 .4	1 .5	12	H1	
1/3	1075/4	115	5835	SAB	7 .5	4 .6	6 .0	5 .4	4 .9	11 .9	1 .5	13	H1	
	1075/4	208-230	5836	SAB	6 .0	2 .3-2 .2	6 .0	5 .2	4 .7	11 .7	1 .5	13	H1	
1/2	1075/4	115	5840	SAB	7 .5	7 .1	6 .0	5 .8	5 .3	12 .4	1 .5	19	H1	
	1075/4	208-230	5841	SAB	7 .5	3 .3-3 .1	6 .0	5 .6	5 .1	12 .2	1 .5	19	H1	
3/4	900/4	115	1125	SAB	10 .0	11 .9	4 .0		6 .6	10 .6		20	62, H11	IC
	1075/4	115	5845	SAB	15 .0	10 .6	6 .0	6 .2	5 .7	12 .7	1 .5	20	H1	
	1075/5	115	3275	Ball	40.0	10.0	2.5	5.9	5.4	8.9		17	H2	LE
	1075/4	115	5463	Ball	15.0	10.6	5.0	-	5.8	10.8		20	62, 72	RH
	1075/4	208-230	5846	SAB	10 .0	6 .1-5 .8	6 .0	6 .2	5 .7	12 .7	1 .5	20	H1	
1	1100/4	208/230	4670	SAB	20 .0	6 .0	5 .0		6 .3	11 .3		20	62,84,H9,H11	IC

IC = ICP LE = Lennox RH = Rheem YK = York

Shaded Pole 5.0" Diameter

HP	RPM/ Spds.	Voltage	Catalog Number	Cap. MFD	Amps	Shaft N	Shell XI	Total C	Shaft Diameter	Rotation	Ship Wt.	Notes	OEM
1/8	1000/5	115	1161	5	2.3	5.1	4.3	9.4	0.500	CCWLE	8.3	-	UN

UN = Unilox®†

Note 64: Includes Capacitor Unmounted
Note 62: Not ECONOMIZER®
Note 72: Includes 4 Holes In Shell For Rheem Mount
Note 84: Non-Reversible
Note H1: 2.25" Dia. Hub Rings With Kit For 2.5" Included
Note H2: 2.5" Hub Rings
Note H10: 50" Line Leads
Note H11: Band Mount
Note H9: 5/8" Shaft

† All marks shown within this document are properties of their respective owners.

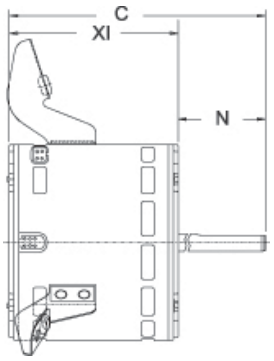
Permanent Split Capacitor Flex Mount
Direct Drive Fan & Blower 5.0" & 5.6" Diameter, Open, Air Over

APPLICATIONS:

Designed to meet manufacturer's requirements for use on direct drive fan & blowers with flexible ear mounts.

FEATURES:

- Class B Insulation Unless Noted
- 5.0" Diameter Motors CWLE Rotation
- 5.6" Diameter Motors Reversible Rotation
- Bearings, All Angle Thrust System
- Continuous Duty, Air Over
- 24" Leads
- Automatic Reset Thermal Overload Protector
- PSC Motors Designed For 370V Capacitors



Permanent Split Capacitor 5.0" Diameter

HP	RPM/ Spd.	Voltage	Catalog Number	Cap MFD	Amps	Shaft N	Shell XI	Total C	Ship Wt.	Notes	OEM
1/5	1050/1	115	2867P	5.0	3 .0	3 .8	4 .5	8 .3	10	H16, H22, CI	MI

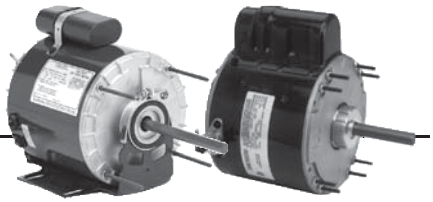
Permanent Split Capacitor 5.6" Diameter

HP	RPM/ Spd.	Voltage	Catalog Number	Cap MFD	Amps	Shaft N	Shell XI	Total C	Ship Wt.	Notes	OEM
1/4	1075/3	115	3783	5 .0	3 .8	5 .0	4 .3	9 .3	11		
	1075/3	208-230	3784	5 .0	1 .7	5 .0	4 .3	9 .3	10	80	
1/3	825/3	230	8052	15 .0	1 .9	2 .5	4 .8	7 .3	14	H16	LE
	1000/4	115	9377	5 .0	6 .0	5 .3	4 .6	9 .8	13	H16	
	1075/3	115	3785	7 .5	5 .0	5 .0	4 .6	9 .6	13		
	1075/3	208-230	3786	5 .0	2 .4	5 .0	4 .3	9 .3	12		
1/2	1075/3	115	3787	10 .0	7 .4	5 .0	5 .6	10 .7	18		
	1075/3	208-230	3788	7 .5	3 .3	5 .0	5 .3	10 .3	17		

LE = Lennox MI = Miller

Note CI: Capacitor Included Mounted
Note H16: Rotation CCWLE
Note H22: Flex Mount is Removable
Note 80: Canadian Standard — Connected CCWLE (Reversible)

Permanent Split Capacitor Unit Heater Fan
5.6" & 6.3" Diameter, Totally Enclosed, Air Over



APPLICATIONS:

Designed to meet manufacturer's requirements for use on unit heaters.

FEATURES:

- Continuous Duty, Air Over
- Reversible Motors Are Easily Reversed With Quick Connects
- 2-1/2" Diameter Hub Rings When Furnished
- Automatic Reset Thermal Overload Protector
- Green Ground Lead
- 48 Frame Has 8-32 NF-2A Thread; 56 Frame Has 10-32 NF-2A Thread
- 370V Capacitor Is Furnished
- Leads Are SJO Cord
- Extended Mounting Studs

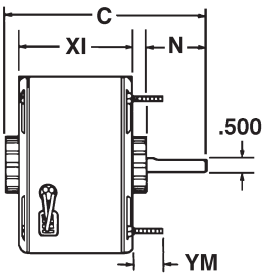


Figure A

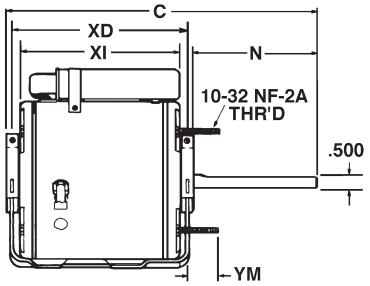


Figure B

Stud Mount, Single Speed (Fig. A)

HP	RPM/ Spd.	Voltage	Catalog Number	Diameter (In.)	Cap. MFD	Amps	Shaft N	Base XD	Shell XI	Total C	Stud YM	Ship Wt.	Notes
1/6	1075	115	9034	5 .6	4 .0	2 .6	4.5	5 .4	4 .6	9 .6	0 .8	12	
1/4	1075	115	9035	5 .6	5 .0	3 .6	4.5	5 .4	4 .6	9 .6	0 .8	15	
1/3	1075	115	9036	5 .6	4 .0	5 .1	4.5	5 .4	4 .6	9 .6	0 .8	15	

Resilient Base (Fig. B)

HP	RPM/ Spd.	Voltage	Catalog Number	Diameter (In.)	Cap. MFD	Amps	Shaft N	Base XD	Shell XI	Total C	Stud YM	Ship Wt.	Notes
1/6	1625	115	1385	5.5	7.5	2.5	3.3	6.6	5.8	9.7	-	11.5	
	1075	115	1386	5.5	7.5	2.6	3.3	6.6	5.8	9.7	-	12.3	
1/4	1075	115	1384	5.5	5.0	3.6	3.3	6.6	5.8	9.7	-	15	
1/3	1075	115	1388	5.5	5.0	5.3	3.3	6.6	5.8	9.7	-	16.4	
1/2	1075/2	230	1810	6 .3	10 .0	2 .5	4 .9	7 .5	6 .3	12 .8	2 .5	26	

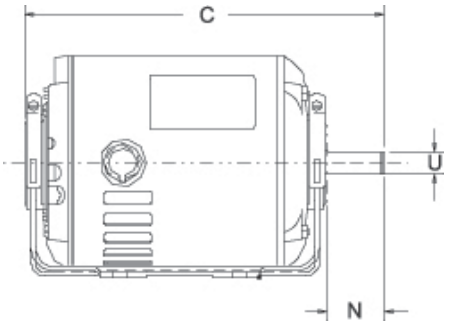
Split Phase Belted Fan & Blower
NEMA®† 48 Frame, Single & Two Speed

APPLICATIONS:

Designed to meet manufacturer's requirements for belted fans and blowers.

FEATURES:

- Resilient Base
- Class B Insulation Unless Otherwise Noted
- With Threaded Conduit Hole
- Reversible Rotation
- Automatic Reset Thermal Overload Protector



Single Speed, Open Drip-Proof

HP	RPM	Voltage	Catalog Number	Bearings	NEMA Frame	Amps	Shaft N	Shaft U	Protector	Total C	SF	Ship Wt.	Notes
1/4	1725	115	8000	Ball	48	5 .3	1 .5	.500	Auto	8 .9	1 .35	13	77, 79
	1725	115	840CV	Ball	48	5 .3	1 .6	.500	Auto	9 .4	1 .35	16	80,81,82
	1725	115/208-230	PD6002	Ball	48	5.2/2.5-2.6	2 .25	.500	Auto	10 .2	1 .35	17	80
	1725	115/208-230	3618	Ball	48Z	5.2/2.5-2.6	1.875	0.500	Auto	9.3	1.35	14	
1/3	1725	115	8100	Ball	48	6 .4	1 .5	.500	Auto	9 .4	1 .35	15	77, 79
	1725	115	841CV	Ball	48	6 .4	1 .6	.500	Auto	9 .9	1 .35	18	80,81,82
	1725	115/208-230	PD6004	Ball	48	6.6/3.1-3.3	2 .25	.500	Auto	10 .7	1 .35	19	80
1/2	1725	115	8200	Ball	48	8 .0	1 .5	.500	Auto	10 .0	1 .25	18	77, 79
	1725	115	1542C	Ball	48	8 .0	1 .6	.500	Auto	9 .9	1 .25	21	80
	1725	115/208-230	PD6006	Ball	48	8.6/4.2-4.3	1.9	0.500	Auto	10.7	1 .25	20	98,80,81

Two Speed, Open Drip-Proof

HP	RPM	Voltage	Catalog Number	Bearings	NEMA Frame	Amps	Shaft N	Shaft U	Protector	Total C	SF	Ship Wt.	Notes
1/3-1/6	1725/1140	230	1789	Ball	48	2 .9	1 .6	.500	Auto	10 .4	1 .35	22	A

Note 77: With Shaft Adapter For 5/8" Shaft.
Note 79: Combination Mounting Holes For NEMA®† 48 & 56 Frame Dimensions
Note 80: Canadian Standard — Connected CCWLE (Reversible)
Note 81: Canadian Standard — May Be Used With Single Pole Single Throw Switch, Not Stocked For US Distribution
Note 82: Open, Ventilated
Note 83: Enclosed Shell, Ventilation Through End Shields By Internal Fan
Note 98: 50/60 Hz
Note A: Class A Insulation

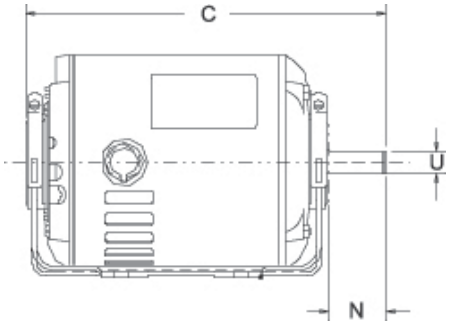
Split Phase Belted Fan & Blower
Open Drip-Proof, NEMA®† 56 Frame, Single & Two Speed

APPLICATIONS:

Designed to meet manufacturer's requirements for belted fans and blowers.

FEATURES:

- Resilient Base
- Class B Insulation Unless Otherwise Noted
- With Threaded Conduit Hole
- Reversible Rotation
- Automatic Reset Thermal Overload Protector



Single Speed, NEMA®† 56 Frame

HP	RPM	Voltage	Catalog Number	Bearings	NEMA Frame	Amps	Shaft N"	"Shaft U"	Protector	"Total C"	SF	Ship Wt.	Notes
1/3	1725	115	4253	SAB	56Z	5.8	1.5	0.500	Auto	8.9	1.35	18	77, A
	1725	115/208-230	8438	Ball	56Z	6 .8/3 .1-3 .4	2 .0	.500	Auto	10 .2	1 .35	17	
1/2	1725	115/230	4114	SAB	56	8 .0/4 .0	1 .9	.625	Auto	9 .8	1 .25	22	
3/4	1725	115/230	4115	SAB	56	11 .2/5 .6	1 .9	.625	Auto	9 .8	1 .25	24	

Two Speed, NEMA®† 56 Frame

HP	RPM	Voltage	Catalog Number	Bearings	NEMA Frame	Amps	"Shaft N"	"Shaft U"	Protector	"Total C"	SF	Ship Wt.	Notes
1/3	1725/1140	115	5793C	SAB	56Z	5.9/3.6	1.5	0.500	Auto	10.4	1.00	19 81	80
1/2	1725/1140	115	5794C	SAB	56Z	8 .7/5 .1	1 .5	.500	Auto	10 .4	1 .00	25	80
	1725/1140	115	4293	SAB	56	9.2/6.0	1.9	0.625	Auto	10.8	1.25	26	A
3/4	1725/1140	115	5795C	SAB	56	11 .5/6 .4	1 .9	.625	Auto	11 .3	1 .00	23	80

Note 77: With Shaft Adapter For 5/8" Shaft
Note 80: Canadian Standard — Connected CCWLE (Reversible)
Note A: Class A Insulation

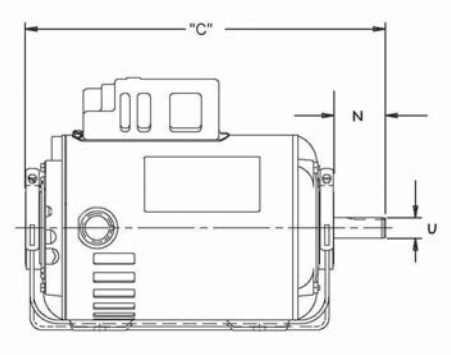
Capacitor Start Belted Fan & Blower
Open Drip-Proof, Resilient Base

APPLICATIONS:

Designed to meet manufacturer's requirements for belted fans and blowers.

FEATURES:

- 40°C Ambient
- Class A Insulation
- Reversible Rotation
- Suitable For All Angle Operation (Within Blower Housing)
- Automatic Reset Thermal Overload Protector (unless noted)
- Threaded Conduit Hole, Except 299



HP	RPM	Voltage	Catalog Number	Bearings	NEMA Frame	Amps	Shaft N	Shaft U	Protector	Total C	SF	Ship Wt.	Notes
1/3	1725	115/230	180	Ball	48	6.0/3.0	1.5	0.500	Auto	9.9	1.35	20	
1/2	3450	115/208-230	298	Ball	48	8 .6/4 .3	1 .5	.500	Auto	9 .9	1 .25	16	
	1725	100-120/200-240	6309	Ball	56	6 .3-5 .6/3 .1-2 .8	1.9	0.625	Auto	10.8	1.25	26	18,24, 98
	1725	115/208-230	1790	Ball	56	7 .4/3 .7	1 .9	.625	Auto	9 .3	1 .25	22	
3/4	3450	115/208-230	430	Ball	48	9 .2/4 .6	1 .5	.500	Auto	10 .4	1 .25	22	
	1725	100-120/200-240	6313	Ball	56	9 .2-8 .4/4 .6-4 .2	1.9	0.625	Auto	11.3	1.25	32	18,24.98
	1725	115/208-230	1893	Ball	56	11.4/5.7	1.9	0.625	Auto	10.8	1.25	27	
1	3450	115/208-230	431	Ball	48Z	11 .6/5 .8	1 .9	.625	Auto	11 .3	1 .25	22	
	1725	100-120/200-240	6317	Ball	56	12 .3-10 .8/6 .2	1.9	0.625	Auto	12.3	1.15	38	18,24,98
	1725	115/230	3187C	Ball	56	14 .0/7 .0	1 .9	.625	Auto	11 .8	1 .25	29	80
	1725	115/208-230	1769	Ball	56	14.0/7.0	1.9	0.625	Auto	11.8	1.25	30	
1-1/2	3450	115/230	299	Ball	56	17 .2/9 .0	1 .9	.625	Auto	11 .9	1 .15	32	
	1725	115/208-230	4242	Ball	56	22.4/11.2	1.9	0.625	Auto	12.8	1.15	35	

Note 18: Incorporates Run Capacitor
Note 24: Automatic Reset Thermal Overload Protector
Note 80: Canadian Standard — Connected CCWLE (Reversible)
Note 98: 50/60 Hz Motor

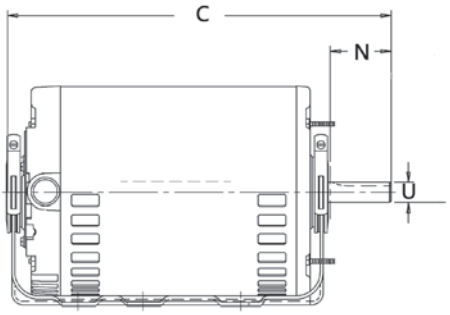
Three Phase Commercial Belt-Drive Blower Motor
Open Drip-Proof, Air Over Not Required

APPLICATIONS:

Designed to meet manufacturer's requirements for belt-drive blowers in commercial air conditioning applications where 3 phase power is required.

FEATURES:

- Automatic Reset Thermal Overload Protector
- Reversible Rotation
- Continuous Duty
- Double Contact Sealed Ball Bearings
- Dual Voltage
- Class B Insulation
- 104°F (40°C) Ambient



Rigid Base Mount

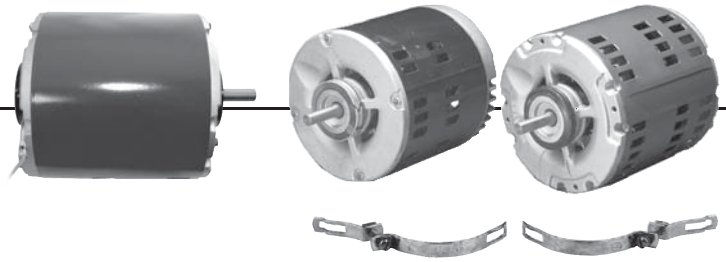
HP	RPM	Voltage	Catalog Number	Bearings	NEMA Frame	Amps	Shaft N	Shaft U	SF	Total C	Ship Wt.	Notes	OEM
1	1725	200-230/460	481468	Ball	56	3.4-3.4/1.7	1.9	.625	1.15	11.3	24	25	
	1725	208-230/460	1813	Ball	56	3.4/1.7	1.9	.625	1.15	11.9	24	VC	
1-1/2	1725	208-230/460	1814	Ball	56H	5.0/2.5	1.9	.625	1.15	12.4	27	VC, H12	
	1725	200-230/460	7913	Ball	56HZ	5.0/2.5	2.3	.875	1.15	12.4	39	H12	LE
	1725/1	575	1197	Ball	56HZ	2.0	2.3	-	-	13.3	36	H12	
2	1725	208-230/460	1815	Ball	56H	6.6/3.3	1.9	.625	1.15	12.4	29	VC, H12	
	1725	200-230/460	7914	Ball	56HZ	7.6-7.8/3.9	2.3	.875	1.15	12.4	45	H12	LE
	1725	208-230/460	8461	Ball	145T	6.3-6.2/3.1	2.3	.875	1.00	12.5	37	H18, H45, 25	
3	1725	200-230/460	7915V	Ball	56HZ	9.0-9.2/4.6	2.3	.875	1.15	13.3	45	H12	LE
	1725	575	1089	Ball	56	3.44	2.25	.875	1.15	13.2	32		
5	1760	208-230/460	D5PA2A	Ball	184T	13.8-12.6/6.3	2.9	1.125	1.15	15	68		LE
7.5	1760	208-230/460	D7PA2A	Ball	213T	20.5-18.5/9.2	3.5	1.375	1.15	15.96	90		LE

Resilient Mount

HP	RPM	Voltage	Catalog Number	Bearings	NEMA Frame	Amps	Shaft N	Shaft U	SF	Total C	Ship Wt.	Notes	OEM
1/2	1725	208-230/460	8488	Ball	56	2.0-1.9/0.95	1.9	.625	1.25	10.3	20		
3/4	1725	208-230/460	8489	Ball	56	2.9-2.9/1.5	1.9	.625	1.25	10.8	22		
1	1725	208-230/460	8498	Ball	56H	4.3/2.2	1.9	.625	1.25	11.3	26	H12	
1-1/2	1725	208-230/460	8490	Ball	56H	5.2-5.1/2.6	1.9	.625	1.15	12.8	32	H12	
	1725	208-230/460	8491	Ball	145T	5.0-4.6/2.4	2.3	.875	1.15	13.2	40		
2	1725	208-230/460	8493	Ball	56H	6.1-6.3/3.1	1.9	.625	1.15	12.8	41	H12	

Note 25: No Protector
Note H12: Base Has Holes For 56 & 56H
Note H18: Conduit Box
Note H45: Totally Enclosed, Air Over
Note VC: Quick Voltage Change Device
~ 50 Hz

Split Phase Evaporative Cooler
6.3" Diameter, Open Drip-Proof

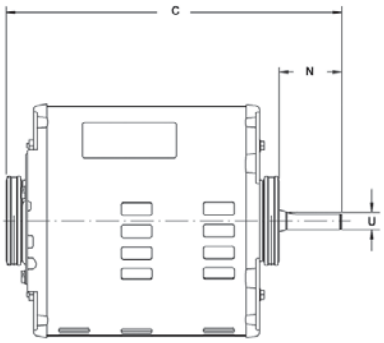


APPLICATIONS:

Designed to meet manufacturer's requirements for belt driven evaporative cooling units.

FEATURES:

- Ball Bearings
- Class B Insulation
- CW Rotation Shaft End
- Corrosion Resistant Rotor Core And Actuator Assembly
- Industry Standard Hub To Hub Dimension
- Automatic Reset Thermal Overload Protector



NOTE: For Hub Mounting, Order Kit Number 51 and 52.

Single Speed

HP	RPM	Voltage	Catalog Number	NEMA Frame	Amps	Shaft N	Shaft U	Protector	Total C	SF	Ship Wt.	Notes
1/2	1725	115	6768	56Z	8 .2	1 .6	0.500	Auto	9 .4	1	15	
	1725	230	6766	56Z	4 .8	1 .6	0.500	Auto	9 .4	1	19	
3/4	1725	115	6769	56Z	10 .7	1 .6	0.500	Auto	9 .4	1	18	F
	1725	230	6771	56Z	5 .4	1 .6	0.500	Auto	9 .4	1	20	
1	1725	115/230	5149	56	15.1/7.5	1.9	0.625	Auto	11.8	1	27	35, 60, H39
2	1725	115/230	7073	56Z	19.0/8.5	2.3	0.875	Auto	13.6	1	36	35, 60, H39

Two Speed

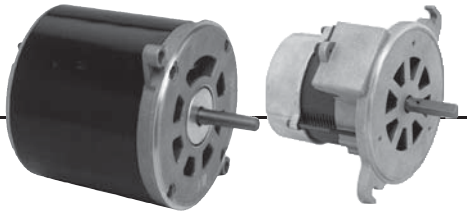
HP	RPM	Voltage	Catalog Number	NEMA Frame	Amps	Shaft N	Shaft U	Protector	Total C	SF	Ship Wt.	Notes
1/3	1725/1140	115	6767	56Z	5 .5	1 .6	0.500	Auto	9 .4	1	17	
1/2	1725/1140	115	6765	56Z	7 .5	1 .6	0.500	Auto	9 .4	1	16	F
	1725/1140	230	6795	56Z	4 .5	1 .6	0.500	Auto	9 .4	1	19	
3/4	1725/1140	115	6770	56Z	10 .5	1 .6	0.500	Auto	9 .4	1	19	F
	1725/1140	230	6796	56Z	5 .0	1 .6	0.500	Auto	9 .4	1	19	F
1	1725/1140	115	2574	56Z	12 .4	1 .9	0.625	Auto	11 .8	1	35	35, 60, H39
	1725/1140	230	2423	56Z	7 .0	1 .9	0.625	Auto	11 .8	1	34	35, 60, H39

PSC Evaporative Cooler
5.6" Diameter, Open

HP	RPM	Voltage	Catalog Number	NEMA Frame	Amps	Shaft N	Shaft U	Protector	Total C	SF	Ship Wt.	Notes
1/8	1075/575	115-127	1129	48Y	2.4	4	0.500	Auto	8.1	1.00	10.5	

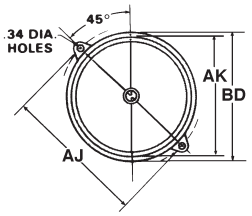
Note 35: Includes resilient base
Note 60: Capacitor start
Note H39: Reversible rotation by easy reconnection
Note F: Class F Insulation

Split Phase and Capacitor Start Oil Burner Totally Enclosed When Mounted



APPLICATIONS:

Designed to meet manufacturer's requirements for oil burners.



FEATURES:

- 40°C Ambient
- 20" Leads, Located At 3 O'clock Viewed From End Opposite Shaft
- 1.0 Service Factor
- Reversible Rotation, Except As Noted
- Manual Reset Thermal Overload Protector
- 56N Frame Has 2 Holes And Screws For Mounting Outlet Box
- 56N Flange Is Enclosed, 48M And 48N Flange Are Ventilated
- Bearings Have All Angle Thrust System

NEMA Frame	Bolt Circle AJ	Flange Dia. AK	Outside Dia. BD
48M	6 .75"	5 .500"	6 .25" max
48N, 56N	7 .25"	6 .275"	7 .00" max

OEM Direct Replacements: Beckett®†, Carlin®†, Ducane®†, Wayne Home®†, (CWLE)

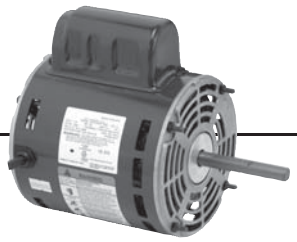
HP	RPM	Voltage	Catalog Number	Bearings	NEMA Frame	Amps	Shaft N	Shaft U	Protector	Total C	Ship Wt.	Notes
1/7	3450	115	3274	Ball	48M	1.7	2.0	0.500	Auto	6.7	10	84, 86, H46, F
	3450	115	5866	Ball	48M	2 .3	2 .0	.500	Man	7 .2	11	78, 84

Flange Mounted, Totally Enclosed, Non-Ventilated When Mounted, Without Base

HP	RPM	Voltage	Catalog Number	Bearings	NEMA Frame	Amps	Shaft N	Shaft U	Protector	Total C	Ship Wt.	Notes
1/8	3450	115	2097	Ball	48N	2 .4	2 .0	.500	Man	7 .1	11	78
	1725	115	3196	Ball	48N	2 .4	2 .0	.500	Man	7 .6	14	85, A
1/7	3450	115	3083	Ball	48M	2 .6	2 .0	.500	Man	7 .3	11	F
1/6	1725	115	3252	Ball	48N	3 .1	2 .0	.500	Man	7 .6	15	78
1/4	3450	115	2302	Ball	48N	3 .7	2 .0	.500	Man	8 .3	15	78
1/3	3450	115	2319	Ball	48N	4 .8	2 .0	.500	Man	10 .5	18	78
	1725	115	3580	Ball	56N	4 .8	2 .3	.500	Man	10 .5	25	77, 78

Note 77: 5/8" Shaft Adapter And Key Packed With Motor
Note 78: Class B Insulation System
Note 84: Non-Reversible
Note 85: Removable Face Plate
Note 86: PSC Motor, Capacitor Included
Note H46: 3.7" Body
Note A: Class A Insulation
Note F: Class F Insulation

Permanent Split Capacitor Ventilation Direct Drive Blower 5.0" & 5.6" Diameter, Open, Air Over

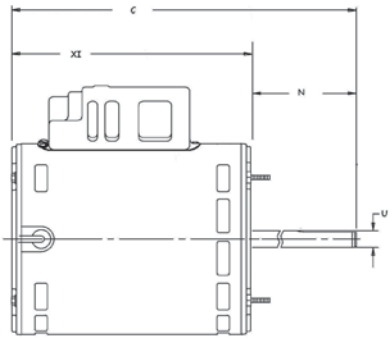


APPLICATIONS:

Designed to meet manufacturer's requirements for direct drive ventilation units.

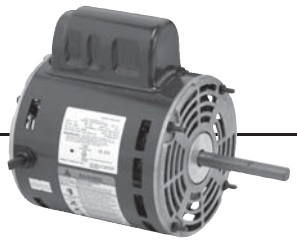
FEATURES:

- Capacitor Included And Mounted On PSC Models
- Automatic Reset Thermal Overload Protector
- Continuous Duty
- Ball Bearings Unless Noted
- 40°C Ambient Rated
- 1.0 Service Factor



HP	RPM/ Spd.	Voltage	Catalog Number	Amps	NEMA Frame	Motor Type	Shaft N	Shaft U	Rotation Lead End	Length XI	Total C	Ship Wt.	Notes
1/12	850	115	4740	1.7	48YZ	PSC	3.25	.500	CW	5.81	9.06	10	
1/6	1650	115	4742	2.7	42YZ	PSC	3.25	.500	CW	5.81	9.06	10	
	1100	115	1146	2.2	48YZ	PSC	3.00	.500	CCW REV	3.81	7.36	10	
1/3	1650	115	4745	4.0	48YZ	PSC	3.25	.500	CW REV	6.06	9.31	14	
	1100	115	4746	4.4	48YZ	PSC	3.25	.625	CW	5.81	9.06	17	
	1075	115	1145	4.9	48YZ	PSC	3.00	.500	CCW REV	4.81	7.81	15	
1/2	1100	115/230	4749	6.2/3.1	48YZ	PSC	3.30	.625	CW	6.60	9.90	20	
	1650	115/230	4748	8.0/4.0	48YZ	PSC	3.25	.625	CW REV	6.31	9.56	18	
3/4	1100	115/230	4750	10.0/5.0	48YZ	PSC	3.25	.625	CW	6.56	9.81	24	

Permanent Split Capacitor Ventilation Direct Drive Blower 5.0" & 5.6" Diameter, Open, Air Over *(continued)*

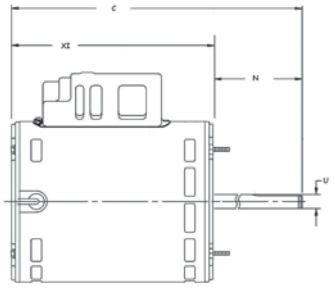


APPLICATIONS:

Designed to meet manufacturer's requirements for direct drive ventilation units.

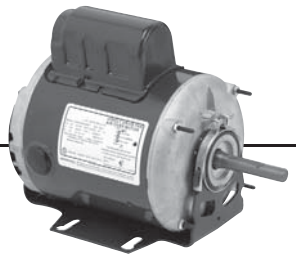
FEATURES:

- Capacitor Included And Mounted On PSC Models
- Automatic Reset Thermal Overload Protector
- Continuous Duty
- Ball Bearings Unless Noted
- 40°C Ambient Rated
- 1.0 Service Factor



HP	RPM/ Spd.	Voltage	Catalog Number	Amps	NEMA Frame	Motor Type	Shaft N	Shaft U	Rotation Lead End	Length XI	Total C	Ship Wt.	Notes
1/4	1140/1	115/230	1191	3.5/1.8	48Y	PSC	5.1	.500	Rev.	6.8	11.4	15.3	
	1725/1	115/230	1255	2.5/1.3	48Y	PSC	5.0	.500	Rev.	7.3	11.8	15.8	
1/3	1140/1	115/208-230	1900	4.2/2.1	48Y	PSC	4.5	.500	Rev.	7.1	11.9	-	
1/2	1140/1	115/230	1195	5.8/2.8	48Y	PSC	4.5	.500	Rev.	7.9	12.9	19.4	
	1725/1	115/230	1899	5.6/2.8	48Y	PSC	4.5	.500	Rev.	7.9	12.9	17.0	

Permanent Split Capacitor Ventilation Direct Drive Blower 5.6" & 6.3" Diameter, Totally Enclosed, Air Over (TEAO)

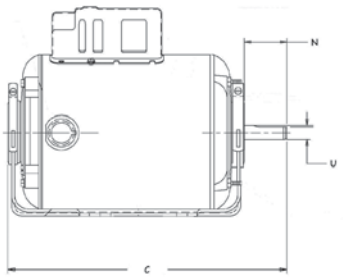


APPLICATIONS:

Designto meet manufacturer's requirements for direct drive ventilation units requiring a totally enclosed motor.

FEATURES:

- Continuous Duty
- 1/2" Dia. x 2 1/2" Shaft
- Reversible Rotation
- Studs For Mounting Fan Guard
- Terminal Board With Side Conduit Plug
- Automatic Thermal Protection
- Includes Capacitor Mounted With Cover



HP	RPM/ Spd.	Voltage	Catalog Number	NEMA Frame	Amps	Eff.	SF	Bearings	Insul. Class	Total C	Ship Wt.	Notes	OEM
1/4	1020	115	4153	48Y	4 .5	Std	1 .0	SAB	B	10.0	8.5		MQ
	1725	115	6326	56Z	5.0	Std	1.0	Ball	A	9.8	18	94	
1/2	1700	115/230	1850	48Z	5.0/2.5	High	1.0	Ball	B	10.9	25		

MQ = McQuay

Note 94: Split Phase

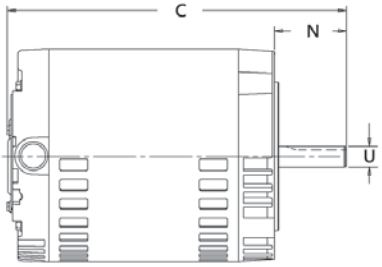
Split Phase Ventilation Direct Drive Blower
5.6" or 6.3" Diameter, Open Drip-Proof, Air Over

APPLICATIONS:

Design to meet manufacturer's requirements for direct drive ventilation units with a C-Face mount.

FEATURES:

- Continuous Duty
- Reversible Rotation
- Class B Insulation
- Threaded Conduit Hole
- Internal Conduit Box Opposite Shaft End
- Keyway On Shaft
- 6.3" Diameter Unless Noted



Single Speed

HP	RPM	Voltage	Catalog Number	NEMA Frame	SF	Bearings	Amps	Protector	Shaft U	Shaft N	Total C	Ship Wt.	Notes
1/3	850	115	1208	56CZ	1.35	Ball	9.0	Auto	0.625	2.3	12.7	40	

Two Speed

HP	RPM	Voltage	Catalog Number	NEMA Frame	SF	Bearings	Amps	Protector	Shaft U	Shaft N	Total C	Ship Wt.	Notes
1/3-1/9	1725/1140	115	1847	56CZ	1.00	Ball	5.8/4.1	Auto	0.625	2.4	10.9	20	H8

Note H8: 5.6" Diameter

Ventilation Circulator Motor
Yoke Mount Fan Motors

APPLICATIONS:

Designed to meet manufacturer's requirements for air circulators where motor is mounted directly to fan column.

FEATURES:

- Continuous Duty
- PSC Models Include Capacitor Mounted With Cover
- Clockwise Drive End Rotation
- Automatic Reset Thermal Overload Protection
- Studs For Mounting Fan Guard
- 1.0 Service Factor Except Where Noted
- Terminal Board With Side Conduit Plug Unless Noted

Yoke Mount, Welded Tab Fan Motors

HP	RPM/ Spd.	Voltage	Frame	Catalog Number	Amps	Type	Motor Bearings	Enclosure	Ship Wt.	Notes
1/4	1100/2	115	48YZ	1933	5 .7	PSC	Ball	OAO	19	H27
	1100/2	115	48Y	1917	4 .2	PSC	Ball	TEAO	15	R
	1100/2	115	48Y	1931	3 .0	PSC	SAB	TEAO	13	H27
1/3	1075/2	115	48Y	1935	5 .3	PSC	SAB	TEAO	20	R
	1800/1	115	48YZ	1928	5 .0	Split Phase	Ball	TEAO	18	R
1/2	900/1	115	48YZ	1940	6 .4	PSC	Ball	TEAO	25	H9
	1200/2	115	48Y	1838	5 .8	PSC	Ball	TEAO	23	H27, H9
	1200/2	115	48Y	1924	7 .2	PSC	Ball	TEAO	23	H9, R
	1200/2	115	48Y	1937	7 .2	PSC	Ball	TEAO	18	H9
	1725/1	115	48YZ	1834	6.6	Split Phase	Ball	TEAO	24	R

LA = Larkin

Painted Washdown
Yoke Mount Fan Motors

FEATURES:

- Class F Insulation
- USDA Approved Non-Toxic White Epoxy Paint
- V-Ring Rotating Lip Seal on Shaft End
- Automatic Reset Thermal Overload Protection
- Gasketed Conduit Box with NPT Lead Holes
- F1 Assembly Position
- Internal Corrosion Protection on Rotor, Stator, Winding & Frame
- Stationary Grease Seal on Shaft End

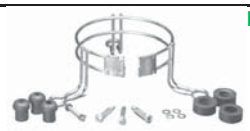
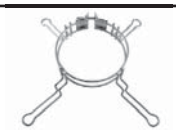
Washdown Fan Motors

HP	RPM/ Spd.	Voltage	Frame	Catalog Number	Amps	Type	Motor Bearings	Enclosure	Ship Wt.	Notes
1/4	1700	115/230	56YZ	WD14AA2PZ7	3 .5/1 .7	PSC	Ball	TEAO	19	
1/3	1700	115/230	56YZ	WD13AA2PZ7	4 .9/2 .5	PSC	Ball	TEAO	27	
1/2	1700	115/230	56YZ	WD12AA2PZ7	5 .9/2 .9	PSC	Ball	TEAO	30	

Note H9: 5/8" Shaft
Note R: Reversible
Note H27: Includes Cord & Pull Chain

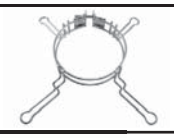
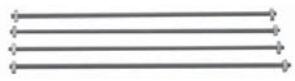
Accessories

Provide maximum flexibility in applying standard replacement motors to various applications

Kit Number	Description	Quantity Per Kit	Item
1	Shaft Conversion Set. Each set includes 1 shaft adapter and 1 key (converts 1/2" shaft to 5/8" key)	10 sets	
9	Steel Banded Hub ring set — 2 1/4" diameter (2 per set)	1 set	
10	Steel Banded Hub ring set — 2 1/2" diameter (2 per set)	1 set	
13	Belly Band Mount adjustable ear mount for 5.0" and 5.6" diameter motor (expanding ring type)	1 mount	
15	Rubber Hub Ring — 2 1/2" diameter (2 per set)	1 set	
16	Direct drive blower mounting ring set-double wire type Each set includes motor support ring-3 rubber mounting bushings with sleeves and mounting screws For 5.0" diameter motor-10" blower mount diameter	1 set	
17	For 5.6" diameter motor - 10" B.C. Blower Mount 3 Legs	1 set	
21	Shaft grounding ring for 5/8" shaft, 56 Frame VariTough motors plus new bearing cap and rain shield to install after the grounding ring is put in place.	1 set	
22	PerfectSpeed Electronics Test Kit	1 ea	
23	Direct drive blower mounting ring set - double wire type Each set includes motor support ring - 4 rubber mounting bushings with sleeves and mounting screws For 5.6" diameter motor - 11" B.C. Blower Mount 3 Legs	1 set	NEW 
24	Direct drive blower mounting ring set - double wire type Each set includes motor support ring - 4 rubber mounting bushings with sleeves and mounting screws For 5.6" diameter motor - 15" B.C. Blower Mount 4 Legs	1 set	NEW 
25	Belly Band Mount adjustable ear mount for 5.6" diameter motor (double wire type) 6-7/8" to 8-1/8" B.C.	1 mount	
25T	Belly Band Mount adjustable ear mount for 5.6" diameter motor (double wire type) 8 -1/8" to 12-1/8" B.C.	1 mount	
26	Drip shield for condenser fan motors — 6 3/8" dia. with 1/2" diameter shaft hole for NEMA 42, 48 or 56Z frame motors	1 shield	

Accessories

Provide maximum flexibility in applying standard replacement motors to various applications

Kit Number	Description	Quantity Per Kit	Item
27	Hub length adapter set. Each set includes two 2-1/4" resilient mounting rings and four metal outer rings to convert to 2-1/2" rings. (Fits 5.0" and 5-5/8" diameter motors.) Also includes 10-32 studs for adaptation to 21 Frame and 8-32 screws for extended studs for 5.0" and 5.6" frame.	1 set	
28	Drip shield for condenser fan motors — 6 3/8" dia. with 5/8" diameter shaft hole for NEMA 42, 48 or 56Z frame motors	1 shield	
29	Direct drive blower mounting ring set - double wire type Each set includes motor support ring - 4 rubber mounting bushings with sleeves and mounting screws For 5.6" diameter motor - 16" B.C. Blower Mount 4 Legs	1 set	NEW 
39	Direct drive belly band blower mounting ring set – E Band – torsion type. Each set includes motor support ring with welded ears. Mounting ears have dual mounting holes to fit either blower mount diameter. 4 legs. For 5.6" diameter motor — 9" or 10" blower mount dia.	1 mount	NEW 
40	90 plug adaptor for use with ECM Watt motor and other motors.	1 each	
43	Direct drive belly band blower mounting ring set – E Band – torsion type. Each set includes motor support ring with welded ears. Mounting ears have dual mounting holes to fit either blower mount diameter. 3 legs. For 5.0" diameter motor — 9" or 10" blower mount dia.	1 mount	
44	For 5.6" diameter motor — 9" or 10" blower mount dia. 3 legs.	1 mount	
52	Base clamp mounting hardware—2 1/2" diameter. Each set includes all hardware necessary to mount base to one motor.	6 sets	
55	One kit equals 1 carton of 144 studs and 288 nuts. For resale convenience we have packaged 12 studs and 24 nuts in a plastic bag, twelve bags to each carton. Price is for complete carton. 8-1/2" long 8x32 thread stator studs and nuts	12 bags, with 12 studs and 24 nuts in each bag	
58	Height adapter to be used when replacing rectangular 51 frame ECM motors to adjust for fan position	1 adapter	

Resilient Base Cradle Kits for PSC & Shaded Pole Motors

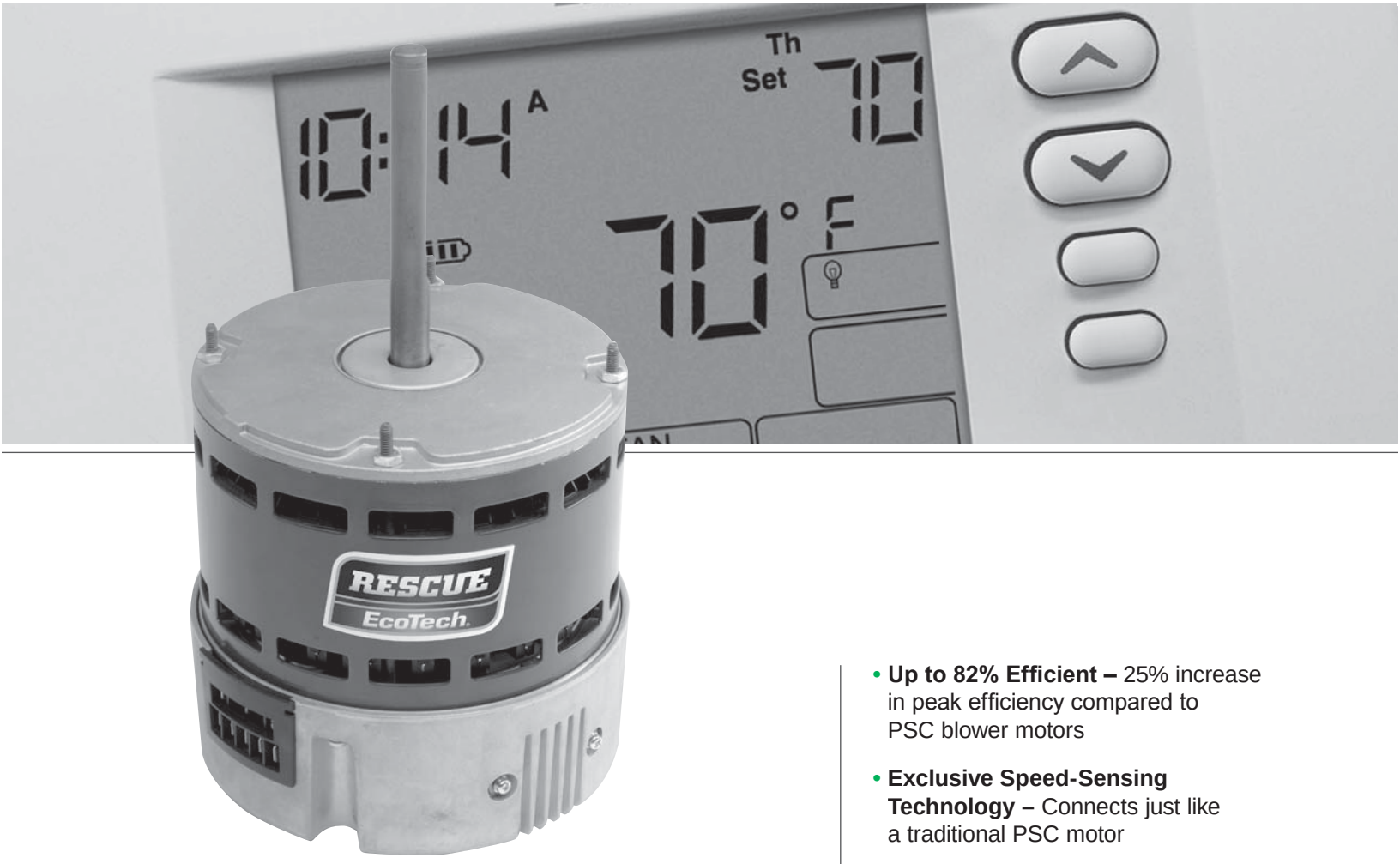
Refer to XD dimension on catalog pages to determine base length required. Each kit includes one cradle base, 2 base clamp assemblies and 2 hub rings, unless otherwise noted.

Kit Number	Shaft Height	Hub to Hub (XD Length)	Hub Ring Diameter
3	3	4-1/8	2-1/2
30	3	4-3/8	2-1/2
4	3	4-7/8	2-1/2
19	3	5-1/8	2-1/2
32	3	5-3/8	2-1/2
38	3	6-1/2	2-1/2
5	3-1/2	4-1/8	2-1/2
31	3-1/2	4-3/8	2-1/2

Kit Number	Shaft Height	Hub to Hub (XD Length)	Hub Ring Diameter
6	3-1/2	4-7/8	2-1/2
20	3-1/2	5-1/8	2-1/2
34	3-1/2	5-3/8	2-1/2
37	3-1/2	6-1/2	2-1/2
12	3-1/2	7	2-1/2
51	3-1/2	7-1/2	2-1/2
14	3-1/2	8-1/2	2-1/2

*Kit 19 does not include hub rings

RESCUE ECOTECH® Motors



RESCUE ECOTECH® Blower & Fan Motors

RESCUE ECOTECH® motors drop into existing permanent split capacitor blower applications without complex wiring modifications or time-consuming changes to the system controls.

Utilizing our exclusive speed-sensing technology, RESCUE ECOTECH® motors can boost your energy efficiency, and help cut your utility costs.

- **Up to 82% Efficient –** 25% increase in peak efficiency compared to PSC blower motors
- **Exclusive Speed-Sensing Technology –** Connects just like a traditional PSC motor
- **Fits a Wide Variety of Applications –** Works in both air handlers and furnaces. Accepts several mounting methods including flex mounts
- **Wide Speed Range –** Now multi-horsepower and dual voltage
- **Active Airflow Management –** Advanced electronic control enables RESCUE EcoTech® to react to system changes, maintaining airflow as static pressures change

For more information about the U.S. MOTORS® brand, visit ***www.usmotors.com***

Cooling Tower Duty Motors

For use in Cooling Tower, Evaporative Condenser, and other commercial and industrial applications requiring protection from harsh operating conditions with high humidity.

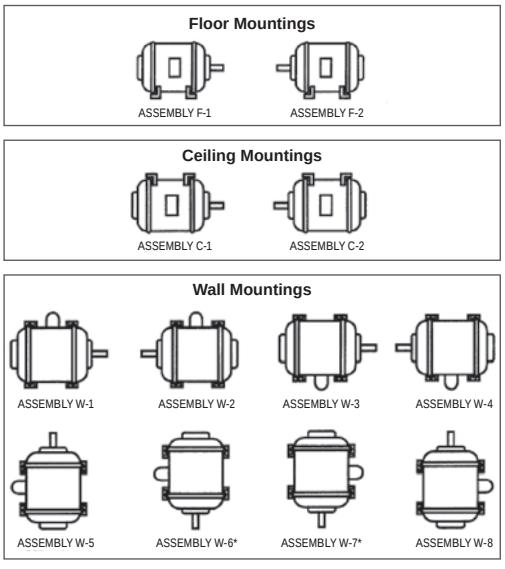
Need something special? Customization is standard with ReadyLine® Assembly!

All our Premium Efficient Cooling Tower motors are assembled to order for you with Nidec Motor Corporation's revolutionary **ReadyLine®** assembly process. With the ReadyLine® process, cooling tower motors are assembled to order from specially engineered component kits. Each motor is assembled, tested, painted, packaged and shipped using a lean process, giving you access to thousands of custom motor ratings and configurations in less time. Each motor is assembled to maximize protection for the specified mounting position and to provide options like strip heaters and thermistors. Customized motors can now be shipped in days rather than weeks. **Don't compromise your specifications for lead times anymore!**

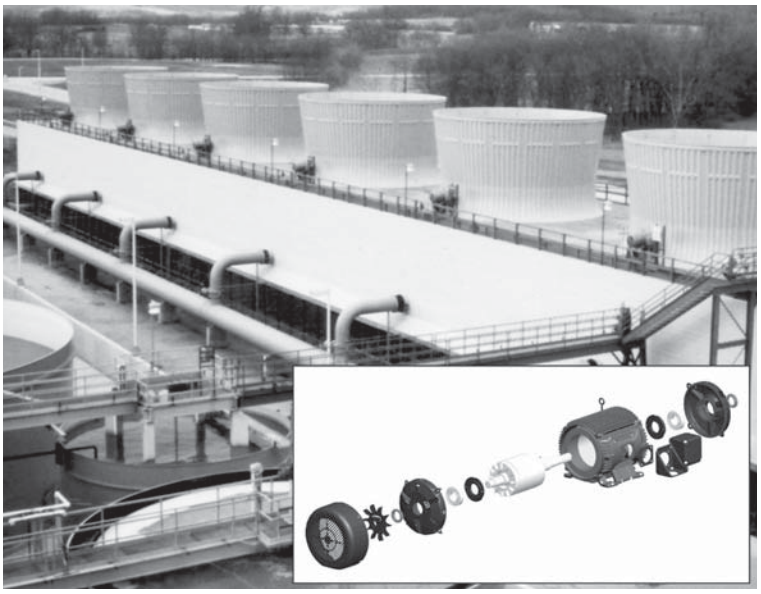
Features & Benefits:

- All single speed Premium Efficient models meet NEMA®† Premium efficiency levels
- Thousands of configurations to choose from
- VBXX seal installed on "wet" end for Premium Efficient motors
- Rotor balance better than .08 in/sec on Premium Efficient motors
- Meets IEC 34-5 Classification IP55
- Inverter Duty & Two-speed models help customers meet ASHRAE Standard 90.1

Motor Mounting Assembly Guide:



* W6 and W7 available on Totally Enclosed, Air Over Only (TEAO)



All of this customization is now available to you without the usual wait for custom builds! U.S. MOTORS® brands make it easy to create the Cooling Tower Motor you need.

Step 1: Order by Horsepower, RPM, Voltage, and Frame Size from the catalog price page. Select your Catalog Number.

For Example:
2 HP, 4 Pole, 200 Volt, Inverter Duty Cooling Tower Motor,
Catalog Number: HW2V2H

Step 2: Determine if you need optional accessories. Optional Accessories Include: Space Heaters, Thermistors and Shaft Grounding. List price adders are determined by frame size.

For Example:
HW2V2H is a 145 frame.
List price adder for the space heater would be $263.

Catalog Example: HW2V2H	**List Price**
Base Catalog Model with F2 Assembly	$754
Space Heater Adder (145 Frame)	$263
Total List Price:	$1,017

Step 3: Apply your discount symbol multiplier for this product for your net price!

† All marks shown within this document are properties of their respective owners.

Stock Cooling Tower Duty Three Phase, TEAO & TEFC
Premium Efficient, Inverter Duty 10:1 (6-60 Hz) Speed Range Variable Torque

APPLICATIONS:

For use in Cooling Tower, Evaporative Condenser and other commercial and industrial applications requiring protection from harsh operating conditions with high humidity.

FEATURES:

- INVERTER GRADE® Motors with Insulation that Exceeds the NEMA®† MG-1 Part 31 Standard
- Double Dip & Bake, 100% Solids, Polyester Insulation on Windings
- Class F Insulation, 40°C Ambient
- Cast Iron Frame
- Bearing Isolators on "wet" end for vertical mounting positions
- Double Sealed, same size bearings both ends
- Double Drilled Feet to Accommodate Mounting Flexibility
- Sealed Bracket-to-Frame Registers & Leads
- Stainless Steel Nameplate & Zinc Plated Hardware
- 1.15 Service Factor
- Rotor Balance better than 0.08 in/sec
- NEMA®† Design B Performance on 60 Hertz Sine Wave Power
- Inverter Compatible: Exceeds NEMA®† MG-1 Part 31 (10:1 Variable Torque)
- Meets IEC 34-5 Classification IP55
- Includes CORRO-DUTY® Motor Paint and Rotor Treatment
- Refer to Page viii for Suitability of IHP Motors on Variable Frequency Drives
- Refer to Index, Page 17 for Minimum Air Velocity Requirements Index

ORDERING INFORMATION:

Options below available from Southaven Distribution Center ONLY
Nameplate ONLY changes available from Chino Distribution Center

Option List Prices: Add motor & required options list prices, then use applicable multiplier to calculate net price.

Options	Frame Size					
	140	180	210	250	280	320
Space Heater	$322	$403	$403	$596	$596	$596
Thermistor	$725	$725	$725	$725	$725	$725
Shaft Grounding	$750	$867	$933	$983	$1033	$1167

Totally Enclosed Air Over (TEAO) INPRO/SEAL®† Drive End

HP	RPM	Voltage	Frame	Catalog Number	Assembly Position	Discount Symbol	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
5	1800	230/460	184T	HVW5V2E8	W8	DS-3HTS	13.7	110	89.5	12.5/6.3	
7 1/2	1800	230/460	213T	HVW7V2E8	W8	DS-3HTS	16.3	160	91.7	18.5/9.3	
10	1800	230/460	215T	HVW10V2E8	W8	DS-3HTS	16.3	175	91.7	23.8/11.9	
15	1800	230/460	254T	HVW15V2E8	W8	DS-3HTS	22.1	300	92.4	37/18.4	
20	1800	230/460	256T	HVW20V2E8	W8	DS-3HTS	22.1	340	93.0	47/23.7	
25	1800	230/460	284T	HVW25V2E8	W8	DS-3HTS	24.8	380	93.6	60/29.8	
30	1800	230/460	286T	HVW30V2B8	W8	DS-3HTS	24.8	410	93.6	69/34	
40	1800	230/460	324T	HVW40V2B8	W8	DS-3HTS	28.3	600	94.1	92/46	
50	1800	230/460	326T	HVW50V2B8	W8	DS-3HTS	28.3	625	94.5	112/56	

Totally Enclosed Fan Cooled (TEFC) INPRO/SEAL®† Both Ends

HP	RPM	Voltage	Frame	Catalog Number	Assembly Position	Discount Symbol	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
3	1800	230/460	182T	HW3V2E2	F2	DS-3HTS	15.5	100	89.5	7.9/3.9	
5	1800	230/460	184T	HW5V2E2	F2	DS-3HTS	15.5	110	89.5	12.5/6.3	
7 1/2	1800	230/460	213T	HW7V2E2	F2	DS-3HTS	19.1	160	91.7	18.5/9.3	
10	1800	230/460	215T	HW10V2E2	F2	DS-3HTS	19.1	175	91.7	23.8/11.9	
15	1800	230/460	254T	HW15V2E2	F2	DS-3HTS	25.5	300	92.4	37/18.4	
20	1800	230/460	256T	HW20V2E2	F2	DS-3HTS	25.5	340	93.0	47/23.7	
25	1800	230/460	284T	HW25V2E2	F2	DS-3HTS	27.0	380	93.6	60/29.8	
30	1800	230/460	286T	HW30V2B2	F2	DS-3HTS	27.0	410	93.6	69/34	
40	1800	230/460	324T	HW40V2B2	F2	DS-3HTS	31.6	600	94.1	92/46	

* W6 & W7 mounting not available on Totally Enclosed Fan Cooled (TEFC) Motors.

ReadyLine® Cooling Tower Duty Three Phase, Totally Enclosed Fan Cooled (TEFC) Premium Efficient, Inverter Duty 10:1 (6-60 Hz Variable Torque)

CTI

APPLICATIONS:

For use in Cooling Tower, Evaporative Condenser and other commercial and industrial applications requiring protection from harsh operating conditions with high humidity.

FEATURES:

- INVERTER GRADE® Motors with Insulation that Exceeds the NEMA®† MG-1 Part 31 Standard
- Double Dip & Bake, 100% Solids, Polyester Insulation on Windings
- Class F Insulation, 40°C Ambient
- Cast Iron Frame
- Bearing Isolators on "wet" end for vertical mounting positions
- Double Sealed, same size bearings both ends
- Double Drilled Feet to Accommodate Mounting Flexibility
- Sealed Bracket-to-Frame Registers & Leads
- Stainless Steel Nameplate & Zinc Plated Hardware
- 1.15 Service Factor
- Rotor Balance better than 0.08 in/sec
- NEMA®† Design B Performance on 60 Hertz Sine Wave Power
- Inverter Compatible: Exceeds NEMA®† MG-1 Part 31 (10:1 Variable Torque)
- Meets IEC 34-5 Classification IP55
- Includes CORRO-DUTY® Motor Paint and Rotor Treatment
- Refer to Page viii for Suitability of IHP Motors on Variable Frequency Drives

Option List Prices: Add motor & required options list prices, then use applicable multiplier to calculate net price.

Options	Frame Size								
	140	180	210	250	280	320	360	400	440
Space Heater	$263	$328	$358	$490	$514	$538	$561	$597	$609
Thermistor	$585	$585	$585	$585	$585	$585	$585	$585	$585
Shaft Grounding	$825	$853	$879	$905	$987	$1,067	$1,191	$1,859	$2,322

List A: For mounting positions F1, F2, C1, C2, W1, W2, W3. List B: For mounting positions W5 & W8. *

HP	RPM	Voltage	Frame	Catalog Number	List A	List B	Discount Symbol	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
2	1800	200	145T	HW2V2H	$754	$843	DS-3HTL	13.1	70	86.5	6.6	
	1800	230/460	145T	HW2V2E	$698	$787	DS-3HTL	13.1	70	86.5	5.7/2.8	
	1800	575	145T	HW2V2G	$803	$892	DS-3HTL	13.1	70	86.5	2.3	
	1200	200	184T	HW2V3H	$1,394	$1,519	DS-3HTL	15.5	110	88.5	7.2	
	1200	230/460	184T	HW2V3E	$1,290	$1,415	DS-3HTL	15.5	110	88.5	6.2/3.1	
	1200	575	184T	HW2V3G	$1,484	$1,609	DS-3HTL	15.5	110	88.5	2.5	
3	1800	200	182T	HW3V2H	$1,134	$1,259	DS-3HTL	15.5	100	89.5	9.2	
	1800	230/460	182T	HW3V2E	$1,050	$1,175	DS-3HTL	15.5	100	89.5	7.9/3.9	
	1800	575	182T	HW3V2G	$1,208	$1,333	DS-3HTL	15.5	100	89.5	3.2	
	1200	200	213T	HW3V3H	$2,097	$2,234	DS-3HTL	19.1	160	89.5	10.1	
	1200	230/460	213T	HW3V3E	$1,942	$2,079	DS-3HTL	19.1	160	90.2	8.7/4.4	
	1200	575	213T	HW3V3G	$2,234	$2,371	DS-3HTL	19.1	160	89.5	3.5	
5	1800	200	184T	HW5V2H	$1,183	$1,308	DS-3HTL	15.5	110	89.5	14.4	
	1800	230/460	184T	HW5V2E	$1,095	$1,220	DS-3HTL	15.5	110	89.5	12.5/6.3	
	1800	575	184T	HW5V2G	$1,260	$1,385	DS-3HTL	15.5	110	89.5	5.0	
	1200	200	215T	HW5V3H	$2,188	$2,325	DS-3HTL	19.1	175	89.5	16.3	
	1200	230/460	215T	HW5V3E	$2,026	$2,163	DS-3HTL	19.1	175	90.2	14.0/7.0	
	1200	575V	215T	HW5V3G	$2,330	$2,467	DS-3HTL	19.1	175	90.2	5.6	
7 1/2	1800	200	213T	HW7V2H	$1,629	$1,766	DS-3HTL	19.1	160	91.7	21.1	
	1800	230/460	213T	HW7V2E	$1,509	$1,646	DS-3HTL	19.1	160	91.7	18.6/9.3	
	1800	575	213T	HW7V2G	$1,734	$1,871	DS-3HTL	19.1	160	91.7	7.5	
	1200	200	254T	HW7V3H	$3,014	$3,188	DS-3HTL	25.5	300	91.0	21.5	
	1200	230/460	254T	HW7V3E	$2,791	$2,965	DS-3HTL	25.5	300	91.0	18.6/9.3	
	1200	575	254T	HW7V3G	$3,209	$3,383	DS-3HTL	25.5	300	91.0	7.5	

* W6 & W7 mounting not available on Totally Enclosed Fan Cooled (TEFC) Motors.

ReadyLine® Cooling Tower Duty Three Phase, Totally Enclosed Fan Cooled (TEFC) Premium Efficient, Inverter Duty 10:1 (6-60 Hz Variable Torque)

(continued)

CTI

List A: For mounting positions F1, F2, C1, C2, W1, W2, W3. List B: For mounting positions W5 & W8. *

HP	RPM	Voltage	Frame	Catalog Number	List A	List B	Discount Symbol	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
10	1800	200	215T	HW10V2H	$1,929	$2,066	DS-3HTL	19.1	175	91.7	27.3	
	1800	230/460	215T	HW10V2E	$1,786	$1,923	DS-3HTL	19.1	175	91.7	23.8/11.9	
	1800	575	215T	HW10V2G	$2,053	$2,190	DS-3HTL	19.1	175	91.7	9.6	
	1200	200	256T	HW10V3H	$3,568	$3,742	DS-3HTL	25.5	340	91.0	28.3	
	1200	230/460	256T	HW10V3E	$3,304	$3,478	DS-3HTL	25.5	340	91.7	24.5/12.3	
	1200	575	256T	HW10V3G	$3,800	$3,974	DS-3HTL	25.5	340	91.0	9.8	
15	1800	200	254T	HW15V2H	$2,769	$2,943	DS-3HTL	25.5	300	92.4	42.0	
	1800	230/460	254T	HW15V2E	$2,563	$2,737	DS-3HTL	25.5	300	92.4	37.0/18.4	
	1800	575	254T	HW15V2G	$2,948	$3,122	DS-3HTL	25.5	300	92.4	14.5	
	1200	200	284T	HW15V3H	$5,122	$5,343	DS-3HTL	27.0	380	91.7	43.0	
	1200	230/460	284T	HW15V3E	$4,742	$4,963	DS-3HTL	27.0	380	91.7	37.0/18.7	
	1200	575	284T	HW15V3G	$5,454	$5,675	DS-3HTL	27.0	380	91.7	14.8	
20	1800	200	256T	HW20V2H	$3,166	$3,340	DS-3HTL	25.5	340	93.0	54.0	
	1800	230/460	256T	HW20V2E	$2,932	$3,106	DS-3HTL	25.5	340	93.0	47.0/23.7	
	1800	575	256T	HW20V2G	$3,372	$3,546	DS-3HTL	25.5	340	93.0	19.0	
	1200	200	286T	HW20V3H	$5,859	$6,080	DS-3HTL	27.0	410	91.7	56.0	
	1200	230/460	286T	HW20V3E	$5,425	$5,646	DS-3HTL	27.0	410	91.7	49.0/24.5	
	1200	575	286T	HW20V3G	$6,239	$6,460	DS-3HTL	27.0	410	91.7	19.6	
25	1800	200	284T	HW25V2H	$4,300	$4,521	DS-3HTL	27.0	380	93.6	67.0	
	1800	230/460	284T	HW25V2E	$3,981	$4,202	DS-3HTL	27.0	380	93.6	60.0/29.8	
	1800	575	284T	HW25V2G	$4,578	$4,799	DS-3HTL	27.0	380	93.6	23.3	
	1200	200	324T	HW25V3H	$7,954	$8,235	DS-3HTL	31.6	600	93.0	68.0	
	1200	230/460	324T	HW25V3E	$7,365	$7,646	DS-3HTL	31.6	600	93.0	59.0/29.4	
	1200	575	324T	HW25V3G	$8,470	$8,751	DS-3HTL	31.6	600	93.0	23.5	
30	1800	200	286T	HW30V2H	$4,540	$4,761	DS-3HTL	27.0	410	93.6	79.0	
	1800	230/460	286T	HW30V2E	$4,203	$4,424	DS-3HTL	27.0	410	93.6	69.0/34.0	
	1800	575	286T	HW30V2G	$4,834	$5,055	DS-3HTL	27.0	410	93.6	27.6	
	1200	200	326T	HW30V3H	$8,398	$8,679	DS-3HTL	31.6	625	93.0	80.0	
	1200	230/460	326T	HW30V3E	$7,776	$8,057	DS-3HTL	31.6	625	93.0	70.0/35.0	
	1200	575	326T	HW30V3G	$8,943	$9,224	DS-3HTL	31.6	625	93.0	28.0	
40	1800	200	324T	HW40V2H	$5,731	$6,012	DS-3HTL	31.6	600	94.1	105.0	
	1800	230/460	324T	HW40V2E	$5,307	$5,588	DS-3HTL	31.6	600	94.1	92.0/46.0	
	1800	575	324T	HW40V2G	$6,102	$6,383	DS-3HTL	31.6	600	94.1	37.0	
	1200	200	364T	HW40V3H	$10,603	$10,913	DS-3HTL	33.6	740	94.1	107.0	
	1200	230/460	364T	HW40V3E	$9,818	$10,128	DS-3HTL	33.6	740	94.1	93.0/46.0	
	1200	575	364T	HW40V3G	$11,290	$11,600	DS-3HTL	33.6	740	94.1	37.0	
50	1800	200	326T	HW50V2H	$6,689	$6,970	DS-3HTL	31.6	625	94.5	129.0	
	1800	230/460	326T	HW50V2E	$6,193	$6,474	DS-3HTL	31.6	625	94.5	112.0/56.0	
	1800	575	326T	HW50V2G	$7,122	$7,403	DS-3HTL	31.6	625	94.5	45.0	
	1200	200	365T	HW50V3H	$12,374	$12,684	DS-3HTL	33.6	910	94.1	133.0	
	1200	230/460	365T	HW50V3E	$11,457	$11,767	DS-3HTL	33.6	910	94.1	116.0/58.0	
	1200	575	365T	HW50V3G	$13,176	$13,486	DS-3HTL	33.6	910	94.1	46.0	

* W6 & W7 mounting not available on Totally Enclosed Fan Cooled (TEFC) Motors.

ReadyLine® Cooling Tower Duty Three Phase, Totally Enclosed Fan Cooled (TEFC) Premium Efficient, Inverter Duty 10:1 (6-60 Hz Variable Torque)

(continued)

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List A: For mounting positions F1, F2, C1, C2, W1, W2, W3. List B: For mounting positions W5 & W8. *

HP	RPM	Voltage	Frame	Catalog Number	List A	List B	Discount Symbol	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
60	1800	200	364T	HW60V2H	$8,961	$9,271	DS-3HTL	33.6	740	95.0	159.0	
	1800	230/460	364T	HW60V2E	$8,297	$8,607	DS-3HTL	33.6	740	95.0	137.0/69.0	
	1800	575	364T	HW60V2G	$9,541	$9,851	DS-3HTL	33.6	740	95.0	55.0	
	1200	200	404T	HW60V3H	$16,577	$16,996	DS-3HTL	37.7	1160	94.5	161.0	
	1200	230/460	404T	HW60V3E	$15,349	$15,768	DS-3HTL	37.7	1160	94.5	140.0/70.0	
	1200	575	404T	HW60V3G	$17,652	$18,071	DS-3HTL	37.7	1160	94.5	56.0	
75	1800	200	365T	HW75V2H	$10,399	$10,709	DS-3HTL	33.6	910	95.4	194.0	
	1800	230/460	365T	HW75V2E	$9,628	$9,938	DS-3HTL	33.6	910	95.4	169.0/84.0	
	1800	575	365T	HW75V2G	$11,073	$11,383	DS-3HTL	33.6	910	95.4	68.0	
	1200	200	405T	HW75V3H	$19,238	$19,657	DS-3HTL	37.7	1180	94.5	201.0	
	1200	230/460	405T	HW75V3E	$17,813	$18,232	DS-3HTL	37.7	1180	94.5	173.0/87.0	
	1200	575	405T	HW75V3G	$20,485	$20,904	DS-3HTL	37.7	1180	94.5	70.0	
100	1800	200	405T	HW100V2H	$15,550	$15,969	DS-3HTL	37.7	1180	95.4	260.0	
	1800	230/460	405T	HW100V2E	$14,399	$14,818	DS-3HTL	37.7	1180	95.4	225.0/113.0	
	1800	575	405T	HW100V2G	$16,559	$16,978	DS-3HTL	37.7	1180	95.4	90.0	
	1200	200	444T	HW100V3H	$28,769	$29,247	DS-3HTL	45.4	1660	95.0	284.0	
	1200	230/460	444T	HW100V3E	$26,639	$27,117	DS-3HTL	45.4	1660	95.0	248.0/124.0	
	1200	575	444T	HW100V3G	$30,634	$31,112	DS-3HTL	45.4	1660	95.0	99.0	

* W6 & W7 mounting not available on Totally Enclosed Fan Cooled (TEFC) Motors.

ReadyLine® Cooling Tower Duty Three Phase, Totally Enclosed Fan Cooled (TEFC) Premium Efficient, 2 Speed, 1 Winding

CTE

APPLICATIONS:

For use in Cooling Tower, Evaporative Condenser and other commercial and industrial applications requiring protection from harsh operating conditions with high humidity.

FEATURES:

- Double Dip & Bake, 100% Solids, Polyester Insulation On Windings
- Class F Insulation, 40°C Ambient
- Cast Iron Frame
- Bearing Isolators on "wet" end for vertical mounting positions
- Double Sealed, same size bearings both ends
- Double Drilled Feet to Accommodate Mounting Flexibility
- Sealed Bracket-to-Frame Registers & Leads
- Stainless Steel Nameplate & Zinc Plated Hardware
- 1.15 Service Factor
- Rotor Balance better than 0.08 in/sec
- NEMA®† Design B Performance on 60 Hertz Sine Wave Power
- Meets IEC 34-5 Classification IP55
- Includes CORRO-DUTY® Motor Paint and Rotor Treatment

Option List Prices: Add motor & required options list prices, then use applicable multiplier to calculate net price.

Options	Frame Size								
	140	180	210	250	280	320	360	400	440
Space Heater	$263	$328	$358	$490	$514	$538	$561	$597	$609
Thermistor	$585	$585	$585	$585	$585	$585	$585	$585	$585
Shaft Grounding	$825	$853	$879	$905	$987	$1,067	$1,191	$1,859	$2,322

List A: For mounting positions F1, F2, C1, C2, W1, W2, W3, W4. List B: For mounting positions W5 & W8. *

HP HP (Low)	RPM/RPM Low (# Windings)	Voltage	Frame	Catalog Number	List A	List B	Discount Symbol	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
2 / 1/2	1800/900(1)	200	145T	HW2PL9H	$1,016	$1,105	DS-3HTL	13.1	70	82.5	4.1/6.5	
	1800/900(1)	460	145T	HW2PL9C	$941	$1,030	DS-3HTL	13.1	70	84.0	1.8/2.8	
	1800/900(1)	575	145T	HW2PL9G	$1,083	$1,172	DS-3HTL	13.1	70	84.0	1.4/2.2	
	1200/600(1)	200	213T	HW2PL36H	$1,658	$1,795	DS-3HTL	19.1	160	86.5	4.7/7.2	
	1200/600(1)	460	213T	HW2PL36C	$1,535	$1,672	DS-3HTL	19.1	160	84.0	2.0/3.1	
	1200/600(1)	575	213T	HW2PL36G	$1,765	$1,902	DS-3HTL	19.1	160	86.5	1.6/2.5	
3 / 3/4	1800/900(1)	200	182T	HW3PL9H	$1,531	$1,656	DS-3HTL	15.5	100	86.5	4.0/9.7	
	1800/900(1)	460	182T	HW3PL9C	$1,418	$1,543	DS-3HTL	15.5	100	85.5	1.8/4.5	
	1800/900(1)	575	182T	HW3PL9G	$1,630	$1,755	DS-3HTL	15.5	100	84.0	1.5/3.5	
	1200/600(1)	200	215T	HW3PL36H	$2,495	$2,632	DS-3HTL	19.1	175	85.5	5.3/9.7	
	1200/600(1)	460	215T	HW3PL36C	$2,310	$2,447	DS-3HTL	19.1	175	85.5	2.3/4.2	
	1200/600(1)	575	215T	HW3PL36G	$2,656	$2,793	DS-3HTL	19.1	175	85.5	1.8/3.4	
5 / 1 1/4	1800/900(1)	200	184T	HW5PL9H	$1,597	$1,722	DS-3HTL	15.5	110	86.5	5.5/16.2	
	1800/900(1)	460	184T	HW5PL9C	$1,479	$1,604	DS-3HTL	15.5	110	86.5	2.6/6.6	
	1800/900(1)	575	184T	HW5PL9G	$1,701	$1,826	DS-3HTL	15.5	110	86.5	2.0/5.2	
	1200/600(1)	200	254T	HW5PL36H	$2,603	$2,777	DS-3HTL	25.5	300	87.5	8.5/17.7	
	1200/600(1)	460	254T	HW5PL36C	$2,409	$2,583	DS-3HTL	25.5	300	87.5	3.5/7.3	
	1200/600(1)	575	254T	HW5PL36G	$2,771	$2,945	DS-3HTL	25.5	300	87.5	2.8/5.9	
7 1/2 / 1 7/8	1800/900(1)	200	213T	HW7PL9H	$2,199	$2,336	DS-3HTL	19.1	160	87.5	8.9/23.6	
	1800/900(1)	460	213T	HW7PL9C	$2,037	$2,174	DS-3HTL	19.1	160	88.5	3.6/9.5	
	1800/900(1)	575	213T	HW7PL9G	$2,342	$2,479	DS-3HTL	19.1	160	87.5	2.8/7.5	
	1200/600(1)	200	256T	HW7PL36H	$3,585	$3,759	DS-3HTL	25.5	340	90.2	14.9/23.4	
	1200/600(1)	460	256T	HW7PL36C	$3,319	$3,493	DS-3HTL	25.5	340	90.2	7.7/11.0	
	1200/600(1)	575	256T	HW7PL36G	$3,816	$3,990	DS-3HTL	25.5	340	90.2	6.1/8.8	

* W6 & W7 mounting not available on Totally Enclosed Fan Cooled (TEFC) Motors.

ReadyLine® Cooling Tower Duty Three Phase, Totally Enclosed Fan Cooled (TEFC) Premium Efficient, 2 Speed, 1 Winding

(continued)

CTE

List A: For mounting positions F1, F2, C1, C2, W1, W2, W3, W4. List B: For mounting positions W5 & W8. *

HP HP (Low)	RPM/RPM Low (# Windings)	Voltage	Frame	Catalog Number	List A	List B	Discount Symbol	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
10 / 2 1/2	1800/900(1)	200	215T	HW10PL9H	$2,604	$2,741	DS-3HTL	19.1	175	88.5	10.8/28.4	
	1800/900(1)	460	215T	HW10PL9C	$2,410	$2,547	DS-3HTL	19.1	175	89.5	4.8/12.5	
	1800/900(1)	575	215T	HW10PL9G	$2,772	$2,909	DS-3HTL	19.1	175	90.2	3.8/9.9	
	1200/600(1)	200	284T	HW10PL36H	$4,243	$4,464	DS-3HTL	27.0	380	87.5	14.5/40.0	
	1200/600(1)	460	284T	HW10PL36C	$3,929	$4,150	DS-3HTL	27.0	380	89.5	5.8/14.8	
	1200/600(1)	575	284T	HW10PL36G	$4,517	$4,738	DS-3HTL	27.0	380	89.5	4.5/11.5	
15 / 3 3/4	1800/900(1)	200	254T	HW15PL9H	$3,737	$3,911	DS-3HTL	25.5	300	91.0	16.8/43.0	
	1800/900(1)	460	254T	HW15PL9C	$3,460	$3,634	DS-3HTL	25.5	300	91.0	7.7/19.3	
	1800/900(1)	575	254T	HW15PL9G	$3,980	$4,154	DS-3HTL	25.5	300	91.0	6.2/15.4	
	1200/600(1)	200	286T	HW15PL36H	$6,090	$6,311	DS-3HTL	27.0	410	90.2	21.8/43.0	
	1200/600(1)	460	286T	HW15PL36C	$5,639	$5,860	DS-3HTL	27.0	410	90.2	7.6/18.9	
	1200/600(1)	575	286T	HW15PL36G	$6,485	$6,706	DS-3HTL	27.0	410	91.0	10.0/16.0	
20 / 5	1800/900(1)	200	256T	HW20PL9H	$4,275	$4,449	DS-3HTL	25.5	340	91.0	19.9/56.0	
	1800/900(1)	460	256T	HW20PL9C	$3,958	$4,132	DS-3HTL	25.5	340	91.0	9.1/24.1	
	1800/900(1)	575	256T	HW20PL9G	$4,552	$4,726	DS-3HTL	25.5	340	91.0	7.2/19.2	
	1200/600(1)	200	324T	HW20PL36H	$6,967	$7,248	DS-3HTL	30.6	600	91.0	20.6/55.0	
	1200/600(1)	460	324T	HW20PL36C	$6,451	$6,732	DS-3HTL	30.6	600	90.2	9.1/24.1	
	1200/600(1)	575	324T	HW20PL36G	$7,419	$7,700	DS-3HTL	30.6	600	89.5	7.2/19.5	
25 / 6 1/4	1800/900(1)	200	286T	HW25PL9H	$5,805	$6,026	DS-3HTL	27.0	410	92.4	25.5/68.0	
	1800/900(1)	460	286T	HW25PL9C	$5,375	$5,596	DS-3HTL	27.0	410	92.4	11.1/29.6	
	1800/900(1)	575	286T	HW25PL9G	$6,180	$6,401	DS-3HTL	27.0	410	92.4	9.0/23.8	
	1200/600(1)	200	326T	HW25PL36H	$9,459	$9,740	DS-3HTL	30.6	625	91.0	34.0/70.0	
	1200/600(1)	460	326T	HW25PL36C	$8,759	$9,040	DS-3HTL	30.6	625	91.7	15.6/30.0	
	1200/600(1)	575	326T	HW25PL36G	$10,072	$10,353	DS-3HTL	30.6	625	91.7	12.1/24.3	
30 / 7 1/2	1800/900(1)	200	324T	HW30PL9H	$6,129	$6,410	DS-3HTL	30.6	600	91.7	28.7/81.0	
	1800/900(1)	460	324T	HW30PL9C	$5,675	$5,956	DS-3HTL	30.6	600	92.4	12.8/35.0	
	1800/900(1)	575	324T	HW30PL9G	$6,525	$6,806	DS-3HTL	30.6	600	93.0	10.6/28.0	
	1200/600(1)	200	364T	HW30PL36H	$9,987	$10,297	DS-3HTL	32.6	740	92.4	32.0/91.0	
	1200/600(1)	460	364T	HW30PL36C	$9,247	$9,557	DS-3HTL	32.6	740	92.4	14.0/41.0	
	1200/600(1)	575	364T	HW30PL36G	$10,634	$10,944	DS-3HTL	32.6	740	92.4	11.3/33.0	
40 / 10	1800/900(1)	200	326T	HW40PL9H	$7,738	$8,019	DS-3HTL	30.6	625	93.0	39.0/106.0	
	1800/900(1)	460	326T	HW40PL9C	$7,164	$7,445	DS-3HTL	30.6	625	93.0	16.7/46.0	
	1800/900(1)	575	326T	HW40PL9G	$8,239	$8,520	DS-3HTL	30.6	625	92.4	13.3/37.0	
	1200/600(1)	200	364T	HW40PL36H	$12,610	$12,920	DS-3HTL	32.6	740	91.7	41.0/126.0	
	1200/600(1)	460	364T	HW40PL36C	$11,676	$11,986	DS-3HTL	32.6	740	91.7	18.0/54.0	
	1200/600(1)	575	364T	HW40PL36G	$13,427	$13,737	DS-3HTL	32.6	740	91.0	14.3/43.0	
50 / 12 1/2	1800/900(1)	200	364T	HW50PL9H	$9,030	$9,340	DS-3HTL	32.6	740	93.6	45.0/136.0	
	1800/900(1)	460	364T	HW50PL9C	$8,361	$8,671	DS-3HTL	32.6	740	93.6	21.3/59.0	
	1800/900(1)	575	364T	HW50PL9G	$9,615	$9,925	DS-3HTL	32.6	740	93.6	15.7/47.0	
	1200/600(1)	200	365T	HW50PL36H	$14,716	$15,026	DS-3HTL	33.6	910	92.4	55.0/144.0	
	1200/600(1)	460	365T	HW50PL36C	$13,625	$13,935	DS-3HTL	33.6	910	93.0	22.9/60.0	
	1200/600(1)	575	365T	HW50PL36G	$15,669	$15,979	DS-3HTL	33.6	910	92.4	18.3/49.0	
60 / 15	1800/900(1)	200	365T	HW60PL9H	$12,096	$12,406	DS-3HTL	33.6	910	92.4	61.0/169.0	
	1800/900(1)	460	365T	HW60PL9C	$11,200	$11,510	DS-3HTL	33.6	910	94.1	24.9/69.0	
	1800/900(1)	575	365T	HW60PL9G	$12,881	$13,191	DS-3HTL	33.6	910	94.1	20.0/55.0	
	1200/600(1)	200	405T	HW60PL36H	$19,713	$20,132	DS-3HTL	37.7	1180	93.6	63.0/164.0	
	1200/600(1)	460	405T	HW60PL36C	$18,252	$18,671	DS-3HTL	37.7	1180	94.1	29.0/72.0	
	1200/600(1)	575	405T	HW60PL36G	$20,990	$21,409	DS-3HTL	37.7	1180	94.1	23.0/58.0	

* W6 & W7 mounting not available on Totally Enclosed Fan Cooled (TEFC) Motors.

ReadyLine® Cooling Tower Duty Three Phase, Totally Enclosed Fan Cooled (TEFC) Premium Efficient, 2 Speed, 1 Winding

CTE

(continued)

List A: For mounting positions F1, F2, C1, C2, W1, W2, W3, W4. List B: For mounting positions W5 & W8. *

HP HP (Low)	RPM/RPM Low (# Windings)	Voltage	Frame	Catalog Number	List A	List B	Discount Symbol	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
75 / 18 3/4	1800/900(1)	200	405T	HW75PL9H	$14,038	$14,457	DS-3HTL	37.7	1180	93.6	69.0/198.0	
	1800/900(1)	460	405T	HW75PL9C	$12,998	$13,417	DS-3HTL	37.7	1180	94.1	31.0/86.0	
	1800/900(1)	575	405T	HW75PL9G	$14,948	$15,367	DS-3HTL	37.7	1180	94.1	24.3/69.0	
	1200/600(1)	200	444T	HW75PL36H	$22,877	$23,355	DS-3HTL	45.4	1660	92.4	74.0/204.0	
	1200/600(1)	460	444T	HW75PL36C	$21,182	$21,660	DS-3HTL	45.4	1660	93.0	33.0/89.0	
	1200/600(1)	575	444T	HW75PL36G	$24,360	$24,838	DS-3HTL	45.4	1660	92.4	26.4/72.0	
100 / 25	1800/900(1)	200	444T	HW100PL9H	$20,994	$21,472	DS-3HTL	45.4	1660	93.6	88.0/262.0	
	1800/900(1)	460	444T	HW100PL9C	$19,438	$19,916	DS-3HTL	45.4	1660	93.6	39.0/115.0	
	1800/900(1)	575	444T	HW100PL9G	$22,354	$22,832	DS-3HTL	45.4	1660	93.6	32.0/92.0	
	1200/600(1)	200	445T	HW100PL36H	$34,212	$34,690	DS-3HTL	45.4	1700	94.1	129.0/296.0	
	1200/600(1)	460	445T	HW100PL36C	$31,678	$32,156	DS-3HTL	45.4	1700	94.1	55.0/127.0	
	1200/600(1)	575	445T	HW100PL36G	$36,429	$36,907	DS-3HTL	45.4	1700	94.1	46.0/104.0	

* W6 & W7 mounting not available on Totally Enclosed Fan Cooled (TEFC) Motors.

ReadyLine® Cooling Tower Duty Three Phase, Totally Enclosed Fan Cooled (TEFC) Premium Efficient, 2 Speed, 2 Winding 2-100 HP

CTE

APPLICATIONS:

For use in Cooling Tower, Evaporative Condenser and other commercial and industrial applications requiring protection from harsh operating conditions with high humidity.

FEATURES:

- Double Dip & Bake, 100% Solids, Polyester Insulation On Windings
- Class F Insulation, 40°C Ambient
- Cast Iron Frame
- Bearing Isolators on "wet" end for vertical mounting positions
- Double Sealed, same size bearings both ends
- Double Drilled Feet to Accommodate Mounting Flexibility
- Sealed Bracket-to-Frame Registers & Leads
- Stainless Steel Nameplate & Zinc Plated Hardware
- 1.15 Service Factor
- Rotor Balance better than 0.08 in/sec
- NEMA®† Design B Performance on 60 Hertz Sine Wave Power
- Meets IEC 34-5 Classification IP55
- Includes CORRO-DUTY® Motor Paint and Rotor Treatment

Option List Prices: Add motor & required options list prices, then use applicable multiplier to calculate net price.

Options	Frame Size								
	140	180	210	250	280	320	360	400	440
Space Heater	$263	$328	$358	$490	$514	$538	$561	$597	$609
Thermistor	$585	$585	$585	$585	$585	$585	$585	$585	$585
Shaft Grounding	$825	$853	$879	$905	$987	$1,067	$1,191	$1,859	$2,322

List A: For mounting positions F1, F2, C1, C2, W1, W2, W3, W4. List B: For mounting positions W5 & W8. *

HP HP (Low)	RPM/RPM Low (# Windings)	Voltage	Frame	Catalog Number	List A	List B	Discount Symbol	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
2 (1/2)	1800/900(2)	200	184T	HW2PK9H	$1,658	$1,783	DS-3HTL	15.5	110	84.0	3.5/7.0	
	1800/900(2)	460	184T	HW2PK9C	$1,535	$1,660	DS-3HTL	15.5	110	84.0	1.7/3.4	
	1800/900(2)	575	184T	HW2PK9G	$1,765	$1,890	DS-3HTL	15.5	110	84.0	1.4/2.7	
	1200/600(2)	200	215T	HW2PK36H	$2,298	$2,435	DS-3HTL	19.1	175	82.5	5.0/8.3	
	1200/600(2)	460	215T	HW2PK36C	$2,127	$2,264	DS-3HTL	19.1	175	82.5	5.0/8.3	
	1200/600(2)	575	215T	HW2PK36G	$2,446	$2,583	DS-3HTL	19.1	175	82.5	1.8/2.8	
3 (3/4)	1800/900(2)	200	213T	HW3PK9H	$2,495	$2,632	DS-3HTL	19.1	160	87.5	9.3/9.2	
	1800/900(2)	460	213T	HW3PK9C	$2,310	$2,447	DS-3HTL	19.1	160	86.5	4.3/4.4	
	1800/900(2)	575	213T	HW3PK9G	$2,656	$2,793	DS-3HTL	19.1	160	86.5	3.5/3.5	
	1200/600(2)	200	254T	HW3PK36H	$3,458	$3,632	DS-3HTL	25.5	300	86.5	4.3/10.3	
	1200/600(2)	460	254T	HW3PK36C	$3,202	$3,376	DS-3HTL	25.5	300	85.5	2.1/4.3	
	1200/600(2)	575	254T	HW3PK36G	$3,682	$3,856	DS-3HTL	25.5	300	85.5	1.7/3.4	
5 (1-1/4)	1800/900(2)	200	215T	HW5PK9H	$2,603	$2,740	DS-3HTL	19.1	175	88.5	6.9/14.7	
	1800/900(2)	460	215T	HW5PK9C	$2,409	$2,546	DS-3HTL	19.1	175	87.5	4.3/6.6	
	1800/900(2)	575	215T	HW5PK9G	$2,771	$2,908	DS-3HTL	19.1	175	87.5	2.8/5.4	
	1200/600(2)	200	256T	HW5PK36H	$3,608	$3,782	DS-3HTL	25.5	340	86.5	8.1/16.4	
	1200/600(2)	460	256T	HW5PK36C	$3,341	$3,515	DS-3HTL	25.5	340	86.5	4.1/8.6	
	1200/600(2)	575	256T	HW5PK36G	$3,841	$4,015	DS-3HTL	25.5	340	86.5	3.1/6.8	
7 1/2 (1-7/8)	1800/900(2)	200	254T	HW7PK9H	$3,585	$3,759	DS-3HTL	25.5	300	91.0	8.8/21.8	
	1800/900(2)	460	254T	HW7PK9C	$3,319	$3,493	DS-3HTL	25.5	300	91.0	3.8/9.5	
	1800/900(2)	575	254T	HW7PK9G	$3,816	$3,990	DS-3HTL	25.5	300	91.0	2.9/7.5	
	1200/600(2)	200	284T	HW7PK36H	$4,969	$5,190	DS-3HTL	27.0	380	88.5	12.4/26.8	
	1200/600(2)	460	284T	HW7PK36C	$4,601	$4,822	DS-3HTL	27.0	380	87.5	5.7/12.2	
	1200/600(2)	575	284T	HW7PK36G	$5,291	$5,512	DS-3HTL	27.0	380	86.5	4.7/10.3	

* W6 & W7 mounting not available on Totally Enclosed Fan Cooled (TEFC) Motors.

† All marks shown within this document are properties of their respective owners.

ReadyLine® Cooling Tower Duty Three Phase, Totally Enclosed Fan Cooled (TEFC) Premium Efficient, 2 Speed, 2 Winding 2-100 HP

(continued)

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List A: For mounting positions F1, F2, C1, C2, W1, W2, W3, W4. List B: For mounting positions W5 & W8. *

HP HP (Low)	RPM/RPM Low (# Windings)	Voltage	Frame	Catalog Number	List A	List B	Discount Symbol	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
10 (2-1/2)	1800/900(2)	200	256T	HW10PK9H	$4,243	$4,417	DS-3HTL	25.5	340	91.0	12.1/27.6	
	1800/900(2)	460	256T	HW10PK9C	$3,929	$4,103	DS-3HTL	25.5	340	91.0	5.2/12.0	
	1800/900(2)	575	256T	HW10PK9G	$4,517	$4,691	DS-3HTL	25.5	340	91.7	4.1/9.8	
	1200/600(2)	200	286T	HW10PK36H	$5,883	$6,104	DS-3HTL	27.0	410	88.5	12.6/30.0	
	1200/600(2)	460	286T	HW10PK36C	$5,447	$5,668	DS-3HTL	27.0	410	89.5	7.1/15.0	
	1200/600(2)	575	286T	HW10PK36G	$6,264	$6,485	DS-3HTL	27.0	410	89.5	5.5/11.3	
15 (3-3/4)	1800/900(2)	200	284T	HW15PK9H	$6,090	$6,311	DS-3HTL	27.0	380	91.0	15.9/44.0	
	1800/900(2)	460	284T	HW15PK9C	$5,639	$5,860	DS-3HTL	27.0	380	92.4	7.6/18.9	
	1800/900(2)	575	284T	HW15PK9G	$6,485	$6,706	DS-3HTL	27.0	380	92.4	5.6/14.8	
	1200/600(2)	200	324T	HW15PK36H	$8,444	$8,725	DS-3HTL	30.6	600	89.5	17.4/44.0	
	1200/600(2)	460	324T	HW15PK36C	$7,818	$8,099	DS-3HTL	30.6	600	88.5	7.5/19.0	
	1200/600(2)	575	324T	HW15PK36G	$8,991	$9,272	DS-3HTL	30.6	600	89.5	5.9/15.0	
20 (5)	1800/900(2)	200	286T	HW20PK9H	$6,967	$7,188	DS-3HTL	27.0	410	92.4	20.4/56.0	
	1800/900(2)	460	286T	HW20PK9C	$6,451	$6,672	DS-3HTL	27.0	410	92.4	8.9/24.3	
	1800/900(2)	575	286T	HW20PK9G	$7,419	$7,640	DS-3HTL	27.0	410	91.7	7.7/20.4	
	1200/600(2)	200	326T	HW20PK36H	$9,659	$9,940	DS-3HTL	30.6	625	90.2	24.2/62.0	
	1200/600(2)	460	326T	HW20PK36C	$8,944	$9,225	DS-3HTL	30.6	625	90.2	10.7/26.3	
	1200/600(2)	575	326T	HW20PK36G	$10,285	$10,566	DS-3HTL	30.6	625	89.5	8.4/20.4	
25 / (6-1/4)	1800/900(2)	200	324T	HW25PK9H	$9,459	$9,740	DS-3HTL	30.6	600	91.7	28.1/71.0	
	1800/900(2)	460	324T	HW25PK9C	$8,759	$9,040	DS-3HTL	30.6	600	91.7	11.0/31.0	
	1800/900(2)	575	324T	HW25PK9G	$10,072	$10,353	DS-3HTL	30.6	600	92.4	8.3/24.0	
	1200/600(2)	200	364T	HW25PK36H	$13,114	$13,424	DS-3HTL	33.6	740	92.4	31.0/72.0	
	1200/600(2)	460	364T	HW25PK36C	$12,143	$12,453	DS-3HTL	33.6	740	91.0	13.1/35.0	
	1200/600(2)	575	364T	HW25PK36G	$13,963	$14,273	DS-3HTL	33.6	740	91.0	11.0/26.8	
30 (7-1/2)	1800/900(2)	200	326T	HW30PK9H	$9,987	$10,268	DS-3HTL	30.6	625	92.4	30.0/81.0	
	1800/900(2)	460	326T	HW30PK9C	$9,247	$9,528	DS-3HTL	30.6	625	93.6	15.2/36.0	
	1800/900(2)	575	326T	HW30PK9G	$10,634	$10,915	DS-3HTL	30.6	625	93.0	11.4/29.3	
	1200/600(2)	200	365T	HW30PK36H	$13,846	$14,156	DS-3HTL	33.6	910	91.7	32.0/86.0	
	1200/600(2)	460	365T	HW30PK36C	$12,820	$13,130	DS-3HTL	33.6	910	91.0	14.4/37.0	
	1200/600(2)	575	365T	HW30PK36G	$14,743	$15,053	DS-3HTL	33.6	910	91.0	11.8/32.0	
40 (10)	1800/900(2)	200	364T	HW40PK9H	$12,610	$12,920	DS-3HTL	33.6	740	92.4	38.0/118.0	
	1800/900(2)	460	364T	HW40PK9C	$11,676	$11,986	DS-3HTL	33.6	740	93.0	18.5/50.0	
	1800/900(2)	575	364T	HW40PK9G	$13,427	$13,737	DS-3HTL	33.6	740	93.0	15.2/40.0	
	1200/600(2)	200	404T	HW40PK36H	$17,481	$17,900	DS-3HTL	37.7	1160	91.7	45.0/127.0	
	1200/600(2)	460	404T	HW40PK36C	$16,186	$16,605	DS-3HTL	37.7	1160	90.2	18.9/51.0	
	1200/600(2)	575	404T	HW40PK36G	$18,614	$19,033	DS-3HTL	37.7	1160	91.7	15.8/42.0	
50 (12-1/2)	1800/900(2)	200	365T	HW50PK9H	$14,716	$15,026	DS-3HTL	33.6	910	93.6	47.0/136.0	
	1800/900(2)	460	365T	HW50PK9C	$13,625	$13,935	DS-3HTL	33.6	910	94.5	22.5/58.0	
	1800/900(2)	575	365T	HW50PK9G	$15,669	$15,979	DS-3HTL	33.6	910	94.5	17.5/46.0	
	1200/600(2)	200	405T	HW50PK36H	$20,400	$20,819	DS-3HTL	37.7	1180	93.0	59.0/146.0	
	1200/600(2)	460	405T	HW50PK36C	$18,889	$19,308	DS-3HTL	37.7	1180	92.4	26.7/63.0	
	1200/600(2)	575	405T	HW50PK36G	$21,722	$22,141	DS-3HTL	37.7	1180	92.4	22.2/51.0	

* W6 & W7 mounting not available on Totally Enclosed Fan Cooled (TEFC) Motors.

ReadyLine® Cooling Tower Duty Three Phase, Totally Enclosed Fan Cooled (TEFC) Premium Efficient, 2 Speed, 2 Winding 2-100 HP

(continued)

CTE

List A: For mounting positions F1, F2, C1, C2, W1, W2, W3, W4. List B: For mounting positions W5 & W8. *

HP HP (Low)	RPM/RPM Low (# Windings)	Voltage	Frame	Catalog Number	List A	List B	Discount Symbol	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
60 (15)	1800/900(2)	200	405T	HW60PK9H	$19,713	$20,132	DS-3HTL	37.7	1180	94.1	58.0/170.0	
	1800/900(2)	460	405T	HW60PK9C	$18,252	$18,671	DS-3HTL	37.7	1180	94.1	26.6/74.0	
	1800/900(2)	575	405T	HW60PK9G	$20,990	$21,409	DS-3HTL	37.7	1180	94.1	22.2/59.0	
	1200/600(2)	200	444T	HW60PK36H	$27,329	$27,807	DS-3HTL	45.4	1660	91.7	61.0/180.0	
	1200/600(2)	460	444T	HW60PK36C	$25,304	$25,782	DS-3HTL	45.4	1660	91.0	28.0/77.0	
	1200/600(2)	575	444T	HW60PK36G	$29,100	$29,578	DS-3HTL	45.4	1660	91.0	22.9/64.0	
75 (18-3/4)	1800/900(2)	200	405T	HW75PK9H	$22,877	$23,296	DS-3HTL	37.7	1180	94.5	74.0/205.0	
	1800/900(2)	460	405T	HW75PK9C	$21,182	$21,601	DS-3HTL	37.7	1180	94.5	31.0/89.0	
	1800/900(2)	575	405T	HW75PK9G	$24,360	$24,779	DS-3HTL	37.7	1180	94.5	25.2/71.0	
	1200/600(2)	200	445T	HW75PK36H	$31,716	$32,194	DS-3HTL	45.4	1700	93.6	91.0/255.0	
	1200/600(2)	460	445T	HW75PK36C	$29,367	$29,845	DS-3HTL	45.4	1700	93.6	42.0/105.0	
	1200/600(2)	575	445T	HW75PK36G	$33,772	$34,250	DS-3HTL	45.4	1700	93.6	35.0/89.0	
100 (25)	1800/900(2)	200	445T	HW100PK9H	$34,212	$34,690	DS-3HTL	45.4	1700	94.5	90.0/280.0	
	1800/900(2)	460	445T	HW100PK9C	$31,678	$32,156	DS-3HTL	45.4	1700	94.1	38.0/115.0	
	1800/900(2)	575	445T	HW100PK9G	$36,429	$36,907	DS-3HTL	45.4	1700	94.5	32.0/94.0	
	1200/600(2)	200	447T	HW100PK36H	$47,430	$47,908	DS-3HTL	48.9	2025	93.0	144.0/304.0	
	1200/600(2)	460	447T	HW100PK36C	$43,917	$44,395	DS-3HTL	48.9	2025	93.6	66.0/139.0	
	1200/600(2)	575	447T	HW100PK36G	$50,505	$50,983	DS-3HTL	48.9	2025	93.0	55.0/112.0	

* W6 & W7 mounting not available on Totally Enclosed Fan Cooled (TEFC) Motors.

ReadyLine® Cooling Tower Duty Three Phase, Totally Enclosed Air Over (TEAO) Premium Efficient, Inverter Duty 10:1 (6-60 Hz) Speed Range Variable Torque

APPLICATIONS:

For use directly in the airstream in Cooling Tower, Evaporative Condenser and other commercial and industrial applications requiring protection from harsh operating conditions with high humidity. Air velocities per page.

CTNI

FEATURES:

- Double Dip & Bake, 100% Solids, Polyester Insulation On Windings
- Class F Insulation, 40°C Ambient
- Cast Iron Frame
- Bearing Isolators on "wet" end for vertical mounting positions
- Double Sealed, same size bearings both ends
- Sealed Bracket-to-Frame Registers & Leads
- Stainless Steel Nameplate & Zinc Plated Hardware
- 1.15 Service Factor
- Rotor Balance better than 0.08 in/sec
- NEMA®† Design B Performance on 60 Hertz Sine Wave Power
- Inverter Compatible: Exceeds NEMA®† MG-1 Part 31 (10:1 Variable Torque)
- Meets IEC 34-5 Classification IP55
- Includes CORRO-DUTY® Motor Paint and Rotor Treatment

Option List Prices: Add motor & required options list prices, then use applicable multiplier to calculate net price.

Options	Frame Size								
	140	180	210	250	280	320	360	400	440
Space Heater	$263	$328	$358	$490	$514	$538	$561	$597	$609
Thermistor	$585	$585	$585	$585	$585	$585	$585	$585	$585
Shaft Grounding	$825	$853	$879	$905	$987	$1,067	$1,191	$1,859	$2,322

List A: For mounting positions F1, F2, C1, C2, W1, W2, W3, W4. List B: For mounting positions W5, W6, W7, W8. *

HP	RPM	Voltage	Frame	Catalog Number	List A	List B	Discount Symbol	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
2	1800	200	145T	HVW2V2H	$776	$865	DS-3HTL	11.1	70	86.5	6.6	
	1800	230/460	145T	HVW2V2E	$719	$808	DS-3HTL	11.1	70	86.5	5.7/2.9	
	1800	575	145T	HVW2V2G	$827	$916	DS-3HTL	11.1	70	86.5	2.3	
	1200	200	184T	HVW2V3H	$1,436	$1,561	DS-3HTL	13.7	110	88.5	7.2	
	1200	230/460	184T	HVW2V3E	$1,329	$1,454	DS-3HTL	13.7	110	88.5	6.2/3.1	
	1200	575	184T	HVW2V3G	$1,529	$1,654	DS-3HTL	13.7	110	88.5	2.5	
3	1800	200	182T	HVW3V2H	$1,168	$1,293	DS-3HTL	13.7	100	89.5	9.2	
	1800	230/460	182T	HVW3V2E	$1,081	$1,206	DS-3HTL	13.7	100	89.5	7.9/3.9	
	1800	575	182T	HVW3V2G	$1,243	$1,368	DS-3HTL	13.7	100	89.5	3.2	
	1200	200	213T	HVW3V3H	$2,161	$2,298	DS-3HTL	16.3	160	89.5	10.1	
	1200	230/460	213T	HVW3V3E	$2,001	$2,138	DS-3HTL	16.3	160	90.2	8.7/4.4	
	1200	575	213T	HVW3V3G	$2,301	$2,438	DS-3HTL	16.3	160	89.5	3.5	
5	1800	200	184T	HVW5V2H	$1,218	$1,343	DS-3HTL	13.7	110	89.5	14.4	
	1800	230/460	184T	HVW5V2E	$1,129	$1,254	DS-3HTL	13.7	110	89.5	12.5/6.3	
	1800	575	184T	HVW5V2G	$1,297	$1,422	DS-3HTL	13.7	110	89.5	5.0	
	1200	200	215T	HVW5V3H	$2,254	$2,391	DS-3HTL	16.3	175	90.2	16.2	
	1200	230/460	215T	HVW5V3E	$2,087	$2,224	DS-3HTL	16.3	175	90.2	14.0/7.0	
	1200	575	215T	HVW5V3G	$2,400	$2,537	DS-3HTL	16.3	175	90.2	5.6	
7 1/2	1800	200	213T	HVW7V2H	$1,678	$1,815	DS-3HTL	16.3	160	91.7	21.1	
	1800	230/460	213T	HVW7V2E	$1,554	$1,691	DS-3HTL	16.3	160	91.7	18.5/9.3	
	1800	575	213T	HVW7V2G	$1,787	$1,924	DS-3HTL	16.3	160	91.7	7.5	
	1200	200	254T	HVW7V3H	$3,104	$3,278	DS-3HTL	22.1	300	91.0	21.5	
	1200	230/460	254T	HVW7V3E	$2,875	$3,049	DS-3HTL	22.1	300	91.0	18.6/9.3	
	1200	575	254T	HVW7V3G	$3,306	$3,480	DS-3HTL	22.1	300	91.0	7.5	

* W6 & W7 mounting not available on Totally Enclosed Fan Cooled (TEFC) Motors.

ReadyLine® Cooling Tower Duty Three Phase, Totally Enclosed Air Over (TEAO) Premium Efficient, Inverter Duty 10:1 (6-60 Hz) Speed Range Variable Torque

(continued)

CTNI

List A: For mounting positions F1, F2, C1, C2, W1, W2, W3, W4. List B: For mounting positions W5, W6, W7, W8. *

HP	RPM	Voltage	Frame	Catalog Number	List A	List B	Discount Symbol	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
10	1800	200	215T	HVW10V2H	$1,986	$2,123	DS-3HTL	16.3	175	91.7	27.3	
	1800	230/460	215T	HVW10V2E	$1,839	$1,976	DS-3HTL	16.3	175	91.7	23.8/11.9	
	1800	575	215T	HVW10V2G	$2,115	$2,252	DS-3HTL	16.3	175	91.7	9.6	
	1200	200	256T	HVW10V3H	$3,675	$3,849	DS-3HTL	22.1	340	91.0	28.3	
	1200	230/460	256T	HVW10V3E	$3,403	$3,577	DS-3HTL	22.1	340	91.7	24.5/12.3	
	1200	575	256T	HVW10V3G	$3,913	$4,087	DS-3HTL	22.1	340	91.0	9.8	
15	1800	200	254T	HVW15V2H	$2,851	$3,025	DS-3HTL	22.1	300	92.4	42.0	
	1800	230/460	254T	HVW15V2E	$2,640	$2,814	DS-3HTL	22.1	300	92.4	37.0/18.4	
	1800	575	254T	HVW15V2G	$3,036	$3,210	DS-3HTL	22.1	300	92.4	14.4	
	1200	200	284T	HVW15V3H	$5,275	$5,496	DS-3HTL	24.8	380	91.7	43.0	
	1200	230/460	284T	HVW15V3E	$4,884	$5,105	DS-3HTL	24.8	380	91.7	37.0/18.6	
	1200	575	284T	HVW15V3G	$5,617	$5,838	DS-3HTL	24.8	380	91.7	14.8	
20	1800	200	256T	HVW20V2H	$3,262	$3,436	DS-3HTL	22.1	340	93.0	54.0	
	1800	230/460	256T	HVW20V2E	$3,021	$3,195	DS-3HTL	22.1	340	93.0	47.0/23.7	
	1800	575	256T	HVW20V2G	$3,473	$3,647	DS-3HTL	22.1	340	93.0	19.1	
	1200	200	286T	HVW20V3H	$6,034	$6,255	DS-3HTL	24.8	410	91.7	56.0	
	1200	230/460	286T	HVW20V3E	$5,588	$5,809	DS-3HTL	24.8	410	91.7	49.0/24.5	
	1200	575	286T	HVW20V3G	$6,426	$6,647	DS-3HTL	24.8	410	91.7	19.6	
25	1800	200	284T	HVW25V2H	$4,429	$4,650	DS-3HTL	24.8	380	93.6	67.0	
	1800	230/460	284T	HVW25V2E	$4,101	$4,322	DS-3HTL	24.8	380	93.6	60.0/29.8	
	1800	575	284T	HVW25V2G	$4,716	$4,937	DS-3HTL	24.8	380	93.6	23.3	
	1200	200	324T	HVW25V3H	$8,193	$8,474	DS-3HTL	28.3	600	93.0	68.0	
	1200	230/460	324T	HVW25V3E	$7,586	$7,867	DS-3HTL	28.3	600	93.0	59.0/29.3	
	1200	575	324T	HVW25V3G	$8,724	$9,005	DS-3HTL	28.3	600	93.0	23.6	
30	1800	200	286T	HVW30V2H	$4,676	$4,897	DS-3HTL	24.8	410	93.6	79.0	
	1800	230/460	286T	HVW30V2E	$4,330	$4,551	DS-3HTL	24.8	410	93.6	69.0/34.0	
	1800	575	286T	HVW30V2G	$4,978	$5,199	DS-3HTL	24.8	410	93.6	27.6	
	1200	200	326T	HVW30V3H	$8,650	$8,931	DS-3HTL	28.3	625	93.0	80.0	
	1200	230/460	326T	HVW30V3E	$8,009	$8,290	DS-3HTL	28.3	625	93.0	70.0/35.0	
	1200	575	326T	HVW30V3G	$9,210	$9,491	DS-3HTL	28.3	625	93.0	28.2	
40	1800	200	324T	HVW40V2H	$5,903	$6,184	DS-3HTL	28.3	600	94.1	105.0	
	1800	230/460	324T	HVW40V2E	$5,466	$5,747	DS-3HTL	28.3	600	94.1	92.0/46.0	
	1800	575	324T	HVW40V2G	$6,286	$6,567	DS-3HTL	28.3	600	94.1	37.0	
	1200	200	364T	HVW40V3H	$10,921	$11,231	DS-3HTL	30.4	740	94.1	107.0	
	1200	230/460	364T	HVW40V3E	$10,112	$10,422	DS-3HTL	28.3	740	94.1	93.0/46.0	
	1200	575	364T	HVW40V3G	$11,629	$11,939	DS-3HTL	30.4	740	94.1	37.0	
50	1800	200	326T	HVW50V2H	$6,890	$7,171	DS-3HTL	28.3	625	94.5	130.0	
	1800	230/460	326T	HVW50V2E	$6,380	$6,661	DS-3HTL	28.3	625	94.5	112.0/56.0	
	1800	575	326T	HVW50V2G	$7,336	$7,617	DS-3HTL	28.3	625	94.5	45.0	
	1200	200	365T	HVW50V3H	$12,745	$13,055	DS-3HTL	30.4	910	94.1	134.0	
	1200	230/460	365T	HVW50V3E	$11,801	$12,111	DS-3HTL	30.4	910	94.1	116.0/58.0	
	1200	575	365T	HVW50V3G	$13,571	$13,881	DS-3HTL	30.4	910	94.1	46.0	

* W6 & W7 mounting not available on Totally Enclosed Fan Cooled (TEFC) Motors.

ReadyLine® Cooling Tower Duty Three Phase, Totally Enclosed Air Over (TEAO) Premium Efficient, Inverter Duty 10:1 (6-60 Hz) Speed Range Variable Torque

(continued)

CTNI

List A: For mounting positions F1, F2, C1, C2, W1, W2, W3, W4. List B: For mounting positions W5, W6, W7, W8. *

HP	RPM	Voltage	Frame	Catalog Number	List A	List B	Discount Symbol	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
60	1800	200	364T	HVW60V2H	$9,229	$9,539	DS-3HTL	30.4	740	95.0	159.0	
	1800	230/460	364T	HVW60V2E	$8,545	$8,855	DS-3HTL	30.4	740	95.0	137.0/69.0	
	1800	575	364T	HVW60V2G	$9,828	$10,138	DS-3HTL	30.4	740	95.0	55.0	
	1200	200	404T	HVW60V3H	$17,073	$17,492	DS-3HTL	33.9	1160	94.5	161.0	
	1200	230/460	404T	HVW60V3E	$15,810	$16,229	DS-3HTL	33.9	1160	94.5	140.0/70.0	
	1200	575	404T	HVW60V3G	$18,181	$18,600	DS-3HTL	33.9	1160	94.5	56.0	
75	1800	200	365T	HVW75V2H	$10,711	$11,021	DS-3HTL	30.4	910	95.4	193.0	
	1800	230/460	365T	HVW75V2E	$9,917	$10,227	DS-3HTL	30.4	910	95.4	169.0/84.0	
	1800	575	365T	HVW75V2G	$11,405	$11,715	DS-3HTL	30.4	910	95.4	68.0	
	1200	200	405T	HVW75V3H	$19,815	$20,234	DS-3HTL	33.9	1180	94.5	201.0	
	1200	230/460	405T	HVW75V3E	$18,347	$18,766	DS-3HTL	33.9	1180	94.5	173.0/87.0	
	1200	575	405T	HVW75V3G	$21,099	$21,518	DS-3HTL	33.9	1180	94.5	70.0	
100	1800	200	405T	HVW100V2H	$16,018	$16,437	DS-3HTL	33.9	1180	95.4	260.0	
	1800	230/460	405T	HVW100V2E	$14,831	$15,250	DS-3HTL	33.9	1180	95.4	225.0/113.0	
	1800	575	405T	HVW100V2G	$17,055	$17,474	DS-3HTL	33.9	1180	95.4	90.0	
	1200	200	444T	HVW100V3H	$29,632	$30,110	DS-3HTL	39.9	1660	95.0	284.0	
	1200	230/460	444T	HVW100V3E	$27,438	$27,916	DS-3HTL	39.9	1660	95.0	248.0/124.0	
	1200	575	444T	HVW100V3G	$31,552	$32,030	DS-3HTL	39.9	1660	95.0	99.0	

Minimum Air Velocity Required for TEAO Models

Horsepower	Velocity (FPM) 4 Pole	Velocity (FPM) 6 Pole
2	1000	580
3	1000	600
5	1054	700
7.5	1023	650
10	975	600
15	1500	650
20	1700	850

Horsepower	Velocity (FPM) 4 Pole	Velocity (FPM) 6 Pole
25	1500	950
30	1600	1000
40	1700	1100
50	1800	1150
60	1800	1150
75	2000	1300
100	2000	1300

*Note: Use 1/2 of these velocities for 8 Pole (900 RPM). Use the above velocities for 50 Hz motors (Customer to make adjustments for lower motor speed in order to maintain fan speed).

* W6 & W7 mounting not available on Totally Enclosed Fan Cooled (TEFC) Motors.

ReadyLine® Cooling Tower Duty Three Phase, Totally Enclosed Air Over (TEAO) Premium Efficient, 2 Speed, 1 Winding

CTEN

APPLICATIONS:

For use directly in the airstream in Cooling Tower, Evaporative Condenser and other commercial and industrial applications requiring protection from harsh operating conditions with high humidity.

FEATURES:

- Double Dip & Bake, 100% Solids, Polyester Insulation On Windings
- Class F Insulation, 40°C Ambient
- Cast Iron Frame
- Bearing Isolators on "wet" end for vertical mounting positions
- Double Sealed, same size bearings both ends
- Sealed Bracket-to-Frame Registers & Leads
- Stainless Steel Nameplate & Zinc Plated Hardware
- 1.15 Service Factor
- Rotor Balance better than 0.08 in/sec
- NEMA®† Design B Performance on 60 Hertz Sine Wave Power
- Meets IEC 34-5 Classification IP55
- Includes CORRO-DUTY® Motor Paint and Rotor Treatment

Option List Prices: Add motor & required options list prices, then use applicable multiplier to calculate net price.

Options	Frame Size								
	140	180	210	250	280	320	360	400	440
Space Heater	$263	$328	$358	$490	$514	$538	$561	$597	$609
Thermistor	$585	$585	$585	$585	$585	$585	$585	$585	$585
Shaft Grounding	$825	$853	$879	$905	$987	$1,067	$1,191	$1,859	$2,322

List A: For mounting positions F1, F2, C1, C2, W1, W2, W3, W4. List B: For mounting positions W5, W6, W7, W8. *

HP HP (Low)	RPM/RPM Low (# Windings)	Voltage	Frame	Catalog Number	List A	List B	Discount Symbol	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
2 (1/2)	1800/900(1)	200	145T	HVW2PL9H	$1,048	$1,137	DS-3HTL	11.1	70	84.0	4.1/6.4	
	1800/900(1)	460	145T	HVW2PL9C	$970	$1,059	DS-3HTL	11.1	70	84.0	1.9/2.8	
	1800/900(1)	575	145T	HVW2PL9G	$1,116	$1,205	DS-3HTL	11.1	70	84.0	1.4/2.2	
	1200/600(1)	200	213T	HVW2PL36H	$1,707	$1,844	DS-3HTL	16.3	175	87.5	4.8/7.2	
	1200/600(1)	460	213T	HVW2PL36C	$1,580	$1,717	DS-3HTL	16.3	160	85.5	2.0/3.1	
	1200/600(1)	575	213T	HVW2PL36G	$1,818	$1,955	DS-3HTL	16.3	160	86.5	1.6/2.5	
3 (3/4)	1800/900(1)	200	182T	HVW3PL9H	$1,577	$1,702	DS-3HTL	13.7	100	86.5	4.0/9.7	
	1800/900(1)	460	182T	HVW3PL9C	$1,460	$1,585	DS-3HTL	13.7	100	85.5	1.8/4.5	
	1800/900(1)	575	182T	HVW3PL9G	$1,679	$1,804	DS-3HTL	13.7	100	84.0	1.5/3.5	
	1200/600(1)	200	215T	HVW3PL36H	$2,569	$2,706	DS-3HTL	16.3	175	85.5	5.2/9.7	
	1200/600(1)	460	215T	HVW3PL36C	$2,379	$2,516	DS-3HTL	16.3	175	66.0	4.2/2.3	
	1200/600(1)	575	215T	HVW3PL36G	$2,736	$2,873	DS-3HTL	16.3	175	85.5	1.8/3.4	
5 (1-1/4)	1800/900(1)	200	184T	HVW5PL9H	$1,645	$1,770	DS-3HTL	13.7	110	86.5	6.4/16.2	
	1800/900(1)	460	184T	HVW5PL9C	$1,523	$1,648	DS-3HTL	13.7	110	86.5	2.6/6.6	
	1800/900(1)	575	184T	HVW5PL9G	$1,751	$1,876	DS-3HTL	13.7	110	86.5	2.0/5.2	
	1200/600(1)	200	254T	HVW5PL36H	$2,680	$2,854	DS-3HTL	22.1	300	87.5	6.9/17.7	
	1200/600(1)	460	254T	HVW5PL36C	$2,482	$2,656	DS-3HTL	22.1	300	88.5	3.4/7.2	
	1200/600(1)	575	254T	HVW5PL36G	$2,855	$3,029	DS-3HTL	22.1	300	87.5	2.8/5.9	
7 1/2 (1-7/8)	1800/900(1)	200	213T	HVW7PL9H	$2,266	$2,403	DS-3HTL	16.3	160	87.5	8.9/23.6	
	1800/900(1)	460	213T	HVW7PL9C	$2,097	$2,234	DS-3HTL	16.3	160	88.5	3.6/9.5	
	1800/900(1)	575	213T	HVW7PL9G	$2,413	$2,550	DS-3HTL	16.3	160	88.5	2.8/7.4	
	1200/600(1)	200	256T	HVW7PL36H	$3,692	$3,866	DS-3HTL	22.1	340	90.2	14.9/23.4	
	1200/600(1)	460	256T	HVW7PL36C	$3,419	$3,593	DS-3HTL	22.1	340	88.5	7.6/11.0	
	1200/600(1)	575	256T	HVW7PL36G	$3,931	$4,105	DS-3HTL	22.1	340	90.2	6.1/8.8	
10 (2-1/2)	1800/900(1)	200	215T	HVW10PL9H	$2,682	$2,819	DS-3HTL	16.3	175	88.5	10.8/28.3	
	1800/900(1)	460	215T	HVW10PL9C	$2,483	$2,620	DS-3HTL	16.3	175	88.5	4.9/12.9	
	1800/900(1)	575	215T	HVW10PL9G	$2,856	$2,993	DS-3HTL	16.3	175	90.2	3.8/9.9	
	1200/600(1)	200	284T	HVW10PL36H	$4,370	$4,591	DS-3HTL	24.8	380	87.5	14.5/40.0	
	1200/600(1)	460	284T	HVW10PL36C	$4,047	$4,268	DS-3HTL	24.8	380	88.5	5.8/14.9	
	1200/600(1)	575	284T	HVW10PL36G	$4,654	$4,875	DS-3HTL	24.8	380	89.5	4.6/11.4	

* W6 & W7 mounting not available on Totally Enclosed Fan Cooled (TEFC) Motors.

ReadyLine® Cooling Tower Duty Three Phase, Totally Enclosed Air Over (TEAO) Premium Efficient, 2 Speed, 1 Winding

(continued)

CTEN

List A: For mounting positions F1, F2, C1, C2, W1, W2, W3, W4. List B: For mounting positions W5, W6, W7, W8. *

HP HP (Low)	RPM/RPM Low (# Windings)	Voltage	Frame	Catalog Number	List A	List B	Discount Symbol	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
15 (3-3/4)	1800/900(1)	200	254T	HVW15PL9H	$3,850	$4,024	DS-3HTL	22.1	300	91.0	16.8/43.0	
	1800/900(1)	460	254T	HVW15PL9C	$3,564	$3,738	DS-3HTL	22.1	300	91.0	7.6/19.3	
	1800/900(1)	575	254T	HVW15PL9G	$4,099	$4,273	DS-3HTL	22.1	300	91.0	6.1/15.4	
	1200/600(1)	200	286T	HVW15PL36H	$6,273	$6,494	DS-3HTL	24.8	410	90.2	21.8/43.0	
	1200/600(1)	460	286T	HVW15PL36C	$5,809	$6,030	DS-3HTL	24.8	410	90.2	7.6/18.9	
	1200/600(1)	575	286T	HVW15PL36G	$6,679	$6,900	DS-3HTL	24.8	410	91.0	9.9/16.0	
20 (5)	1800/900(1)	200	256T	HVW20PL9H	$4,404	$4,578	DS-3HTL	22.1	340	91.0	21.3/56.0	
	1800/900(1)	460	256T	HVW20PL9C	$4,078	$4,252	DS-3HTL	22.1	340	91.0	9.1/24.1	
	1800/900(1)	575	256T	HVW20PL9G	$4,689	$4,863	DS-3HTL	22.1	340	91.0	7.2/19.2	
	1200/600(1)	200	324T	HVW20PL36H	$7,176	$7,457	DS-3HTL	28.3	600	91.0	20.6/55.0	
	1200/600(1)	460	324T	HVW20PL36C	$6,645	$6,926	DS-3HTL	28.3	600	90.2	9.1/24.1	
	1200/600(1)	575	324T	HVW20PL36G	$7,641	$7,922	DS-3HTL	28.3	600	90.2	7.2/19.3	
25/(6-1/4)	1800/900(1)	200	286T	HVW25PL9H	$5,978	$6,199	DS-3HTL	24.8	410	92.4	25.5/68.0	
	1800/900(1)	460	286T	HVW25PL9C	$5,536	$5,757	DS-3HTL	24.8	410	92.4	11.1/29.6	
	1800/900(1)	575	286T	HVW25PL9G	$6,366	$6,587	DS-3HTL	24.8	410	92.4	9.0/23.8	
	1200/600(1)	200	326T	HVW25PL36H	$9,743	$10,024	DS-3HTL	28.3	625	91.7	33.0/69.0	
	1200/600(1)	460	326T	HVW25PL36C	$9,022	$9,303	DS-3HTL	28.3	625	92.4	15.7/30.0	
	1200/600(1)	575	326T	HVW25PL36G	$10,374	$10,655	DS-3HTL	28.3	625	92.4	12.7/24.1	
30 (7-1/2)	1800/900(1)	200	324T	HVW30PL9H	$6,313	$6,594	DS-3HTL	28.3	600	92.4	30.0/81.0	
	1800/900(1)	460	324T	HVW30PL9C	$5,844	$6,125	DS-3HTL	28.3	600	92.4	12.6/35.0	
	1800/900(1)	575	324T	HVW30PL9G	$6,721	$7,002	DS-3HTL	28.3	600	93.0	10.5/28.1	
	1200/600(1)	200	364T	HVW30PL36H	$10,287	$10,597	DS-3HTL	30.4	740	92.4	32.0/90.0	
	1200/600(1)	460	364T	HVW30PL36C	$9,525	$9,835	DS-3HTL	30.4	740	92.4	14.0/41.0	
	1200/600(1)	575	364T	HVW30PL36G	$10,953	$11,263	DS-3HTL	30.4	740	92.4	11.3/33.0	
40 (10)	1800/900(1)	200	326T	HVW40PL9H	$7,969	$8,250	DS-3HTL	28.3	625	93.0	39.0/106.0	
	1800/900(1)	460	326T	HVW40PL9C	$7,379	$7,660	DS-3HTL	28.3	625	93.0	16.7/46.0	
	1800/900(1)	575	326T	HVW40PL9G	$8,487	$8,768	DS-3HTL	28.3	625	92.4	13.3/37.0	
	1200/600(1)	200	364T	HVW40PL36H	$12,987	$13,297	DS-3HTL	30.4	740	91.7	41.0/126.0	
	1200/600(1)	460	364T	HVW40PL36C	$12,026	$12,336	DS-3HTL	30.4	740	91.7	17.8/54.0	
	1200/600(1)	575	364T	HVW40PL36G	$13,829	$14,139	DS-3HTL	30.4	740	91.0	14.3/43.0	
50 (12-1/2)	1800/900(1)	200	364T	HVW50PL9H	$9,301	$9,611	DS-3HTL	30.4	740	93.6	45.0/136.0	
	1800/900(1)	460	364T	HVW50PL9C	$8,612	$8,922	DS-3HTL	30.4	740	93.6	21.3/59.0	
	1800/900(1)	575	364T	HVW50PL9G	$9,903	$10,213	DS-3HTL	30.4	740	93.6	15.7/47.0	
	1200/600(1)	200	365T	HVW50PL36H	$15,156	$15,466	DS-3HTL	30.4	910	92.4	55.0/144.0	
	1200/600(1)	460	365T	HVW50PL36C	$14,034	$14,344	DS-3HTL	30.4	910	93.0	22.9/61.0	
	1200/600(1)	575	365T	HVW50PL36G	$16,139	$16,449	DS-3HTL	30.4	910	92.4	18.3/49.0	
60 (15)	1800/900(1)	200	365T	HVW60PL9H	$12,459	$12,769	DS-3HTL	30.4	910	93.6	56.0/158.0	
	1800/900(1)	460	365T	HVW60PL9C	$11,536	$11,846	DS-3HTL	30.4	910	94.1	24.9/69.0	
	1800/900(1)	575	365T	HVW60PL9G	$13,267	$13,577	DS-3HTL	30.4	910	94.1	20.0/55.0	
	1200/600(1)	200	405T	HVW60PL36H	$20,304	$20,723	DS-3HTL	33.9	1180	94.1	69.0/170.0	
	1200/600(1)	460	405T	HVW60PL36C	$18,801	$19,220	DS-3HTL	33.9	1180	94.1	29.0/72.0	
	1200/600(1)	575	405T	HVW60PL36G	$21,621	$22,040	DS-3HTL	33.9	1180	94.1	23.0/58.0	
75 (18-3/4)	1800/900(1)	200	405T	HVW75PL9H	$14,460	$14,879	DS-3HTL	33.9	1180	94.1	69.0/197.0	
	1800/900(1)	460	405T	HVW75PL9C	$13,389	$13,808	DS-3HTL	33.9	1180	94.1	31.0/86.0	
	1800/900(1)	575	405T	HVW75PL9G	$15,396	$15,815	DS-3HTL	33.9	1180	94.1	24.3/69.0	
	1200/600(1)	200	444T	HVW75PL36H	$23,564	$24,042	DS-3HTL	40.0	1660	93.6	74.0/201.0	
	1200/600(1)	460	444T	HVW75PL36C	$21,818	$22,296	DS-3HTL	40.0	1660	93.6	33.0/88.0	
	1200/600(1)	575	444T	HVW75PL36G	$25,091	$25,569	DS-3HTL	40.0	1660	93.6	26.4/71.0	

* W6 & W7 mounting not available on Totally Enclosed Fan Cooled (TEFC) Motors.

ReadyLine® Cooling Tower Duty Three Phase, Totally Enclosed Air Over (TEAO) Premium Efficient, 2 Speed, 1 Winding

(continued)

CTEN

List A: For mounting positions F1, F2, C1, C2, W1, W2, W3, W4. List B: For mounting positions W5, W6, W7, W8. *

HP HP (Low)	RPM/RPM Low (# Windings)	Voltage	Frame	Catalog Number	List A	List B	Discount Symbol	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
100 (25)	1800/900(1)	200	444T	HVW100PL9H	$21,623	$22,101	DS-3HTL	40.0	1660	94.1	88.0/261.0	
	1800/900(1)	460	444T	HVW100PL9C	$20,021	$20,499	DS-3HTL	40.0	1660	94.1	39.0/114.0	
	1800/900(1)	575	444T	HVW100PL9G	$23,025	$23,503	DS-3HTL	40.0	1660	93.6	32.0/92.0	
	1200/600(1)	200	445T	HVW100PL36H	$35,239	$35,717	DS-3HTL	40.0	1700	94.5	129.0/294.0	
	1200/600(1)	460	445T	HVW100PL36C	$32,629	$33,107	DS-3HTL	40.0	1700	94.1	55.0/127.0	
	1200/600(1)	575	445T	HVW100PL36G	$37,522	$38,000	DS-3HTL	40.0	1700	94.1	45.0/104.0	

Minimum Air Velocity Required for TEAO Models

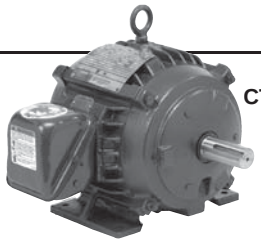
Horsepower	Velocity (FPM) 4 Pole	Velocity (FPM) 6 Pole
2	1000	580
3	1000	600
5	1054	700
7.5	1023	650
10	975	600
15	1500	650
20	1700	850

Horsepower	Velocity (FPM) 4 Pole	Velocity (FPM) 6 Pole
25	1500	950
30	1600	1000
40	1700	1100
50	1800	1150
60	1800	1150
75	2000	1300
100	2000	1300

*Note: Use 1/2 of these velocities for 8 Pole (900 RPM). Use the above velocities for 50 Hz motors (Customer to make adjustments for lower motor speed in order to maintain fan speed).

* W6 & W7 mounting not available on Totally Enclosed Fan Cooled (TEFC) Motors.

ReadyLine® Cooling Tower Duty Three Phase, Totally Enclosed Air Over (TEAO) Premium Efficient, 2 Speed, 2 Winding 2-100 HP



CTEN

APPLICATIONS:

For use in Cooling Tower, Evaporative Condenser and other commercial and industrial applications requiring protection from harsh operating conditions with high humidity.

FEATURES:

- Double Dip & Bake, 100% Solids, Polyester Insulation On Windings
- Class F Insulation, 40°C Ambient
- Cast Iron Frame
- Bearing Isolators on "wet" end for vertical mounting positions
- Double Sealed, same size bearings both ends
- Sealed Bracket-to-Frame Registers & Leads
- Stainless Steel Nameplate & Zinc Plated Hardware
- 1.15 Service Factor
- Rotor Balance better than 0.08 in/sec
- NEMA®† Design B Performance on 60 Hertz Sine Wave Power
- Meets IEC 34-5 Classification IP55
- Includes CORRO-DUTY® Motor Paint and Rotor Treatment

Option List Prices: Add motor & required options list prices, then use applicable multiplier to calculate net price.

Options	Frame Size								
	140	180	210	250	280	320	360	400	440
Space Heater	$263	$328	$358	$490	$514	$538	$561	$597	$609
Thermistor	$585	$585	$585	$585	$585	$585	$585	$585	$585
Shaft Grounding	$825	$853	$879	$905	$987	$1,067	$1,191	$1,859	$2,322

List A: For mounting positions F1, F2, C1, C2, W1, W2, W3, W4. List B: For mounting positions W5, W6, W7, W8. *

HP HP (Low)	RPM/RPM Low (# Windings)	Voltage	Frame	Catalog Number	List A	List B	Discount Symbol	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
2 (1/2)	1800/900(2)	200	184T	HVW2PK9H	$1,707	$1,832	DS-3HTL	15.5	110	84.0	3.5/7.0	
	1800/900(2)	460	184T	HVW2PK9C	$1,580	$1,705	DS-3HTL	15.5	110	84.0	1.7/3.4	
	1800/900(2)	575	184T	HVW2PK9G	$1,818	$1,943	DS-3HTL	15.5	110	84.0	1.4/2.7	
	1200/600(2)	200	215T	HVW2PK36H	$2,366	$2,503	DS-3HTL	19.1	175	82.5	5.0/8.3	
	1200/600(2)	460	215T	HVW2PK36C	$2,192	$2,329	DS-3HTL	19.1	175	81.5	2.3/3.7	
	1200/600(2)	575	215T	HVW2PK36G	$2,520	$2,657	DS-3HTL	19.1	175	82.5	1.8/2.8	
3 (3/4)	1800/900(2)	200	213T	HVW3PK9H	$2,569	$2,706	DS-3HTL	19.1	160	87.5	9.3/9.2	
	1800/900(2)	460	213T	HVW3PK9C	$2,379	$2,516	DS-3HTL	19.1	160	87.5	4.3/4.3	
	1800/900(2)	575	213T	HVW3PK9G	$2,736	$2,873	DS-3HTL	19.1	160	86.5	3.5/3.5	
	1200/600(2)	200	254T	HVW3PK36H	$3,562	$3,736	DS-3HTL	25.5	300	86.5	4.4/10.3	
	1200/600(2)	460	254T	HVW3PK36C	$3,298	$3,472	DS-3HTL	25.5	300	85.5	2.1/4.3	
	1200/600(2)	575	254T	HVW3PK36G	$3,794	$3,968	DS-3HTL	25.5	300	85.5	1.7/3.4	
5 (1-1/4)	1800/900(2)	200	215T	HVW5PK9H	$2,680	$2,817	DS-3HTL	19.1	175	88.5	6.9/14.7	
	1800/900(2)	460	215T	HVW5PK9C	$2,482	$2,619	DS-3HTL	19.1	175	87.5	4.3/6.6	
	1800/900(2)	575	215T	HVW5PK9G	$2,855	$2,992	DS-3HTL	19.1	175	87.5	2.8/5.4	
	1200/600(2)	200	256T	HVW5PK36H	$3,716	$3,890	DS-3HTL	25.5	340	86.5	8.0/16.4	
	1200/600(2)	460	256T	HVW5PK36C	$3,441	$3,615	DS-3HTL	25.5	340	86.5	4.1/8.6	
	1200/600(2)	575	256T	HVW5PK36G	$3,957	$4,131	DS-3HTL	25.5	340	86.5	3.2/6.9	
7 1/2 (1-7/8)	1800/900(2)	200	254T	HVW7PK9H	$3,692	$3,866	DS-3HTL	25.5	300	91.0	8.8/21.8	
	1800/900(2)	460	254T	HVW7PK9C	$3,419	$3,593	DS-3HTL	25.5	300	91.7	3.8/9.4	
	1800/900(2)	575	254T	HVW7PK9G	$3,931	$4,105	DS-3HTL	25.5	300	91.0	2.9/7.5	
	1200/600(2)	200	284T	HVW7PK36H	$5,118	$5,339	DS-3HTL	27.0	380	88.5	12.3/26.7	
	1200/600(2)	460	284T	HVW7PK36C	$4,740	$4,961	DS-3HTL	27.0	380	87.5	5.7/12.2	
	1200/600(2)	575	284T	HVW7PK36G	$5,450	$5,671	DS-3HTL	27.0	380	86.5	4.8/10.3	

* W6 & W7 mounting not available on Totally Enclosed Fan Cooled (TEFC) Motors.

ReadyLine® Cooling Tower Duty Three Phase, Totally Enclosed Air Over (TEAO) Premium Efficient, 2 Speed, 2 Winding 2-100 HP

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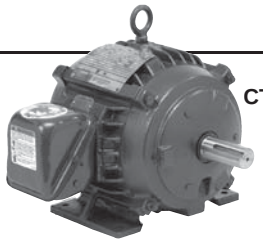


CTEN

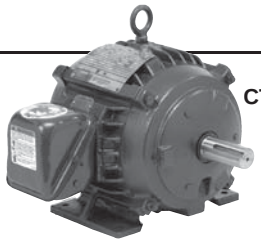
List A: For mounting positions F1, F2, C1, C2, W1, W2, W3, W4. List B: For mounting positions W5, W6, W7, W8. *

HP HP (Low)	RPM/RPM Low (# Windings)	Voltage	Frame	Catalog Number	List A	List B	Discount Symbol	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
10 (2-1/2)	1800/900(2)	200	256T	HVW10PK9H	$4,370	$4,544	DS-3HTL	25.5	340	91.7	12.0/27.5	
	1800/900(2)	460	256T	HVW10PK9C	$4,047	$4,221	DS-3HTL	25.5	340	91.7	5.2/12.0	
	1800/900(2)	575	256T	HVW10PK9G	$4,654	$4,828	DS-3HTL	25.5	340	91.7	4.1/9.8	
	1200/600(2)	200	286T	HVW10PK36H	$6,058	$6,279	DS-3HTL	27.0	410	88.5	12.6/29.9	
	1200/600(2)	460	286T	HVW10PK36C	$5,610	$5,831	DS-3HTL	27.0	410	89.5	7.2/15.0	
	1200/600(2)	575	286T	HVW10PK36G	$6,451	$6,672	DS-3HTL	27.0	410	89.5	5.5/11.3	
15 (3-3/4)	1800/900(2)	200	284T	HVW15PK9H	$6,273	$6,494	DS-3HTL	27.0	380	91.0	16.1/44.0	
	1800/900(2)	460	284T	HVW15PK9C	$5,809	$6,030	DS-3HTL	27.0	380	92.4	8.9/24.3	
	1800/900(2)	575	284T	HVW15PK9G	$6,679	$6,900	DS-3HTL	27.0	380	92.4	5.6/14.8	
	1200/600(2)	200	324T	HVW15PK36H	$8,697	$8,978	DS-3HTL	30.6	600	90.2	17.3/43.0	
	1200/600(2)	460	324T	HVW15PK36C	$8,053	$8,334	DS-3HTL	30.6	600	89.5	7.5/18.8	
	1200/600(2)	575	324T	HVW15PK36G	$9,261	$9,542	DS-3HTL	30.6	600	89.5	5.9/15.0	
20 (5)	1800/900(2)	200	286T	HVW20PK9H	$7,176	$7,397	DS-3HTL	27.0	410	92.4	20.4/56.0	
	1800/900(2)	460	286T	HVW20PK9C	$6,645	$6,866	DS-3HTL	27.0	410	92.4	8.9/24.3	
	1800/900(2)	575	286T	HVW20PK9G	$7,641	$7,862	DS-3HTL	27.0	410	91.7	7.7/20.4	
	1200/600(2)	200	326T	HVW20PK36H	$9,949	$10,230	DS-3HTL	30.6	625	91.0	24.2/62.0	
	1200/600(2)	460	326T	HVW20PK36C	$9,212	$9,493	DS-3HTL	30.6	625	91.0	10.9/26.1	
	1200/600(2)	575	326T	HVW20PK36G	$10,594	$10,875	DS-3HTL	30.6	625	90.2	8.3/20.2	
25 / (6-1/4)	1800/900(2)	200	324T	HVW25PK9H	$9,743	$10,024	DS-3HTL	30.6	600	91.7	28.0/71.0	
	1800/900(2)	460	324T	HVW25PK9C	$9,022	$9,303	DS-3HTL	30.6	600	92.4	11.2/31.0	
	1800/900(2)	575	324T	HVW25PK9G	$10,374	$10,655	DS-3HTL	30.6	600	92.4	8.2/24.0	
	1200/600(2)	200	364T	HVW25PK36H	$13,507	$13,817	DS-3HTL	33.6	740	91.7	31.0/73.0	
	1200/600(2)	460	364T	HVW25PK36C	$12,507	$12,817	DS-3HTL	33.6	740	91.0	13.0/35.0	
	1200/600(2)	575	364T	HVW25PK36G	$14,382	$14,692	DS-3HTL	33.6	740	91.0	11.0/26.7	
30 (7-1/2)	1800/900(2)	200	326T	HVW30PK9H	$10,287	$10,568	DS-3HTL	30.6	625	92.4	30.0/81.0	
	1800/900(2)	460	326T	HVW30PK9C	$9,525	$9,806	DS-3HTL	30.6	625	93.6	15.2/36.0	
	1800/900(2)	575	326T	HVW30PK9G	$10,953	$11,234	DS-3HTL	30.6	625	93.0	11.4/29.3	
	1200/600(2)	200	365T	HVW30PK36H	$14,260	$14,570	DS-3HTL	33.6	910	91.7	32.0/86.0	
	1200/600(2)	460	365T	HVW30PK36C	$13,205	$13,515	DS-3HTL	33.6	910	90.2	14.4/38.0	
	1200/600(2)	575	365T	HVW30PK36G	$15,185	$15,495	DS-3HTL	33.6	910	91.0	11.7/32.0	
40 (10)	1800/900(2)	200	364T	HVW40PK9H	$12,987	$13,297	DS-3HTL	33.6	740	92.4	38.0/118.0	
	1800/900(2)	460	364T	HVW40PK9C	$12,026	$12,336	DS-3HTL	33.6	740	93.0	18.5/50.0	
	1800/900(2)	575	364T	HVW40PK9G	$13,820	$14,130	DS-3HTL	33.6	740	93.0	40.0/15.2	
	1200/600(2)	200	404T	HVW40PK36H	$18,005	$18,424	DS-3HTL	37.7	1160	92.4	45.0/126.0	
	1200/600(2)	460	404T	HVW40PK36C	$16,672	$17,091	DS-3HTL	37.7	1160	91.0	18.9/50.0	
	1200/600(2)	575	404T	HVW40PK36G	$19,172	$19,591	DS-3HTL	37.7	1160	91.7	15.8/42.0	
50 (12-1/2)	1800/900(2)	200	365T	HVW50PK9H	$15,156	$15,466	DS-3HTL	33.6	910	93.6	47.0/136.0	
	1800/900(2)	460	365T	HVW50PK9C	$14,034	$14,344	DS-3HTL	33.6	910	94.5	22.5/58.0	
	1800/900(2)	575	365T	HVW50PK9G	$16,139	$16,449	DS-3HTL	33.6	910	93.6	15.7/47.0	
	1200/600(2)	200	405T	HVW50PK36H	$21,013	$21,432	DS-3HTL	37.7	1180	93.0	59.0/146.0	
	1200/600(2)	460	405T	HVW50PK36C	$19,456	$19,875	DS-3HTL	37.7	1180	92.4	26.8/63.0	
	1200/600(2)	575	405T	HVW50PK36G	$22,374	$22,793	DS-3HTL	37.7	1180	92.4	22.2/51.0	

* W6 & W7 mounting not available on Totally Enclosed Fan Cooled (TEFC) Motors.

ReadyLine® Cooling Tower Duty Three Phase, Totally Enclosed Air Over (TEAO) Premium Efficient, 2 Speed, 2 Winding 2-100 HP

(continued)



CTEN

List A: For mounting positions F1, F2, C1, C2, W1, W2, W3, W4. List B: For mounting positions W5, W6, W7, W8. *

HP HP (Low)	RPM/RPM Low (# Windings)	Voltage	Frame	Catalog Number	List A	List B	Discount Symbol	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
60 (15)	1800/900(2)	200	405T	HVW60PK9H	$20,304	$20,723	DS-3HTL	37.7	1180	94.5	58.0/170.0	
	1800/900(2)	460	405T	HVW60PK9C	$18,801	$19,220	DS-3HTL	37.7	1180	94.5	26.6/73.0	
	1800/900(2)	575	405T	HVW60PK9G	$21,621	$22,040	DS-3HTL	37.7	1180	94.5	22.2/59.0	
	1200/600(2)	200	444T	HVW60PK36H	$28,149	$28,627	DS-3HTL	45.4	1660	93.0	61.0/178.0	
	1200/600(2)	460	444T	HVW60PK36C	$26,064	$26,542	DS-3HTL	45.4	1660	92.4	28.1/76.0	
	1200/600(2)	575	444T	HVW60PK36G	$29,973	$30,451	DS-3HTL	45.4	1660	91.7	22.7/63.0	
75 (18-3/4)	1800/900(2)	200	405T	HVW75PK9H	$23,564	$23,983	DS-3HTL	37.7	1180	94.5	74.0/205.0	
	1800/900(2)	460	405T	HVW75PK9C	$21,818	$22,237	DS-3HTL	37.7	1180	94.5	31.0/89.0	
	1800/900(2)	575	405T	HVW75PK9G	$25,091	$25,510	DS-3HTL	37.7	1180	94.5	25.2/71.0	
	1200/600(2)	200	445T	HVW75PK36H	$32,668	$33,146	DS-3HTL	45.4	1700	93.6	92.0/255.0	
	1200/600(2)	460	445T	HVW75PK36C	$30,248	$30,726	DS-3HTL	45.4	1700	94.1	42.0/105.0	
	1200/600(2)	575	445T	HVW75PK36G	$34,785	$35,263	DS-3HTL	45.4	1700	93.6	35.0/89.0	
100 (25)	1800/900(2)	200	445T	HVW100PK9H	$35,239	$35,717	DS-3HTL	45.4	1700	94.5	91.0/280.0	
	1800/900(2)	460	445T	HVW100PK9C	$32,629	$33,107	DS-3HTL	45.4	1700	94.5	38.0/115.0	
	1800/900(2)	575	445T	HVW100PK9G	$37,522	$38,000	DS-3HTL	45.4	1700	94.5	32.0/94.0	
	1200/600(2)	200	447T	HVW100PK36H	$48,853	$49,331	DS-3HTL	48.9	2025	93.6	145.0/303.0	
	1200/600(2)	460	447T	HVW100PK36C	$45,235	$45,713	DS-3HTL	48.9	2025	94.1	66.0/139.0	
	1200/600(2)	575	447T	HVW100PK36G	$52,019	$52,497	DS-3HTL	48.9	2025	94.1	55.0/111.0	

Minimum Air Velocity Required for TEAO Models

Horsepower	Velocity (FPM) 4 Pole	Velocity (FPM) 6 Pole
2	1000	580
3	1000	600
5	1054	700
7.5	1023	650
10	975	600
15	1500	650
20	1700	850

Horsepower	Velocity (FPM) 4 Pole	Velocity (FPM) 6 Pole
25	1500	950
30	1600	1000
40	1700	1100
50	1800	1150
60	1800	1150
75	2000	1300
100	2000	1300

*Note: Use 1/2 of these velocities for 8 Pole (900 RPM). Use the above velocities for 50 Hz motors (Customer to make adjustments for lower motor speed in order to maintain fan speed).

* W6 & W7 mounting not available on Totally Enclosed Fan Cooled (TEFC) Motors.

General Purpose Single Phase

For commercial and industrial applications such as pumps, fans, blowers, conveyors and tools.

Horsepower: 1/12 – 10 HP

RPM: 3600, 1800, 1200, 900 RPM (Some Two Speed Ratings Available)

Voltage: Operable on 115, 208 or 230 Volts, 60 Hz

Construction: Rolled Steel Frame

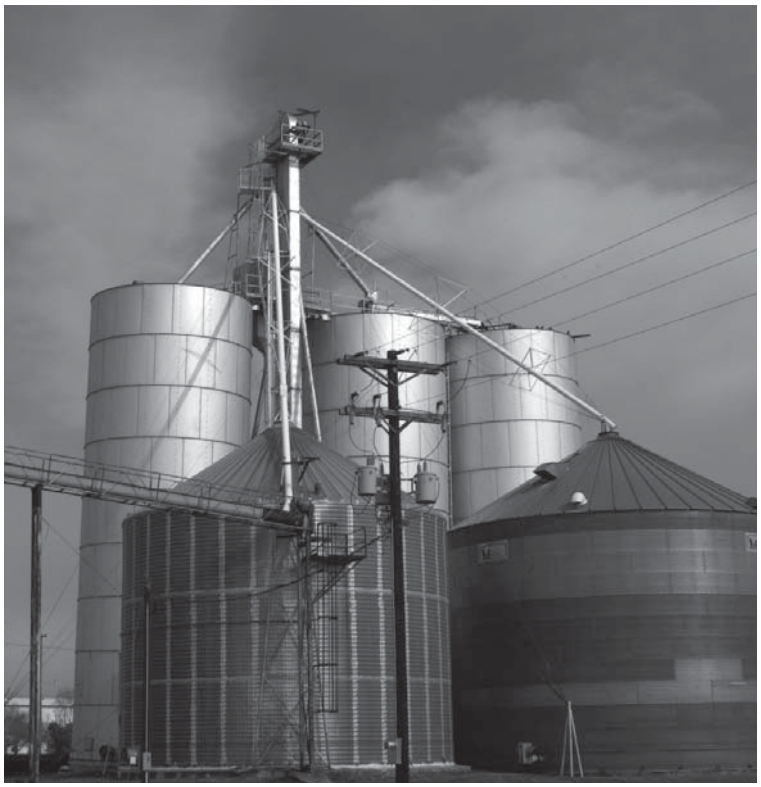
Bearings: Ball or Sleeve Bearings

Ambient: 40°C Rated

Thermal Overload:

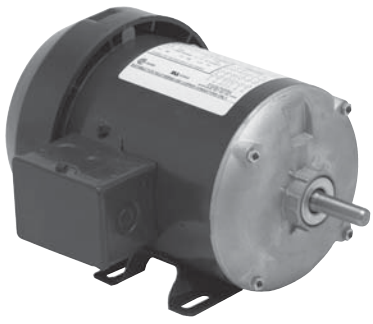
- Automatic Reset Thermal Overload Protector
- Manual Reset Thermal Overload Protector
- Non-Protected

Agency: UL®† Recognized and CSA®† Certified

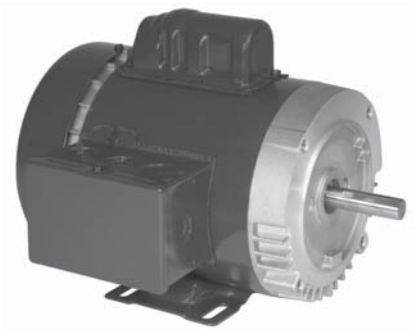


Extensive Line of General Purpose Single Phase Motors

Open Drip-Proof Split Phase



Totally Enclosed, Fan Cooled Split Phase



Totally Enclosed, Fan Cooled Capacitor Start

† All marks shown within this document are properties of their respective owners.

General Purpose Single Phase
Open Drip-Proof (ODP), Split Phase

APPLICATIONS:

For commercial and industrial ventilation systems.

FEATURES:

- 40°C Ambient
- 60 Hz
- Reversible Rotation
- Continuous Duty
- Class A or B Insulation
- Ball Bearing

Single Speed, Resilient Base

HP	RPM	Voltage	Frame	Catalog Number	SF	Shaft. Dim.	Total Length	Ship Wt.	Full Load Amps	Notes
1/6	1200	115	48Z	D16B3N4Z9	1.35	1/2" x 1 .875"	10 .4	17	4 .5	20, 25
1/4	1800	115	48	D14B2N49	1.35	1/2" x 1 .5"	8 .4	14	5 .1	25
	1800	115	56Z	D14B2NZA9	1.00	1/2" x 1 .5"	9 .4	15	5 .4	20, 25
	1200	115	56	D14B3N9	1.35	5/8" x 1 .875"	9 .7	25	5 .5	21, 25
	1200	208-230	56	7998	1.35	5/8" x 5 .9"	14 .0	25	2 .9	24
1/3	1800	115	48	D13B2N4A9	1.00	1/2" x 1 .5"	9 .4	15	6 .8	25
	1800	115	48Z	D13B2N4Z9	1.35	1/2" x 1 .875"	9 .3	16	7 .0	20, 25
	1800	115	56Z	D13B2NZA9	1.00	1/2" x 1 .875"	9 .8	15	6	25
	1800	230	48	D13B2K4A9	1.00	1/2" x 1 .5"	9 .4	15	3	25
	1200	115/230	56	D13B3P9	1.35	1/2" x 1 .5"	9 .8	25	7 .5/3 .8	21, 25
1/2	1800	115	48	D12B2N49	1.00	1/2" x 1 .5"	9 .4	18	8 .8	25
	1800	115	56	D12B2NA9	1.00	1/2" x 1 .5"	9 .7	21	8 .6	25
	1800	115	56Z	D12B2NZA9	1.00	1/2" x 1 .875"	9 .1	18	6 .0	25
3/4	1800	115	56	D34B2N9	1.00	5/8" x 1 .875"	9 .6	21	11 .3	25

Two Speed, Resilient Base

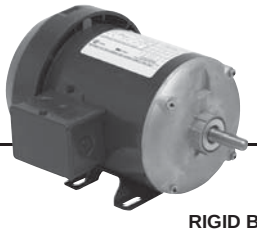
HP	RPM	Voltage	Frame	Catalog Number	SF	Shaft. Dim.	Total Length	Ship Wt.	Full Load Amps	Notes
1/3-1/9	1800/1200	115	48	D13B10N49	1.00	1/2" x 1 .5"	10 .4	19	6 .4/4 .0	20, 25
	1800/1200	115	56Z	3053	1.00	1/2" x 1 .5"	9 .9	19	7 .1	25
1/2-1/6	1800/1200	115	56	3306	1.00	5/8" x 1 .875"	10 .8	26	9 .2	25

Single Speed, Rigid Base

HP	RPM	Voltage	Frame	Catalog Number	SF	Shaft Dim.	"C' Dim. (inches)	Ship Wt.	Full Load Amps	Notes
1/4	1800	115	48Z	D14B2N4Z	1.15	1/2" x 2 .25"	9 .3	14	5 .3	20, 25
1/3	1800	115	48	D13B2N4A	1.00	1/2" x 1 .5"	9 .4	16	6 .8	25
	1800	115	48	D13BA2N4A	1.35	1/2" x 1 .5"	9 .4	16	6 .0	24
	1800	115	48Z	D13B2N4Z	1.35	1/2" x 2 .25"	9 .3	14	7 .0	20, 25
	1800	115	56Z	2911	1.00	1/2" x 1 .5"	9 .4	17	6 .0	25
1/2	1800	115	48	D12B2N4	1.00	1/2" x 1 .5"	9 .8	18	8 .8	25
	1725	115	56	1366	1.25	5/8" x 1.875"	10.3	19	8.9	25

Note 20: Stud Extensions in 3 5/8" Square Pattern
Note 21: Stud Extensions in 4 3/16" Square Pattern
Note 24: Automatic Reset Thermal Overload Protector
Note 25: Non-Protected

General Purpose Single Phase
Totally Enclosed, Fan Cooled (TEFC) Split Phase



RIGID BASE

APPLICATIONS:

For commercial fans and blowers, tools, conveyors, pumps and general industrial equipment requiring moderate starting torque.

FEATURES:

- 40°C Ambient
- 60 Hz
- Continuous Duty
- Class A or B Insulation
- Ball Bearing

Single Speed, Resilient Base

HP	RPM	Voltage	Frame	Catalog Number	SF	Total Length	Ship Wt.	Full Load Amps	Notes
1/6	1800	115	48	T16B2N49	1.00	10.7	18	3.4	20, 25
1/4	1800	115	48	T14B2N49	1.00	10.7	18	4.4	20, 25
	1200	115/230	56	T14B3P9	1.00	11.9	23	5 .8/2 .9	20, 25
	1800	115	48Z	D13B2N4Z	1.35	1/2" x 2 .25"	9 .3	14	7 .0
	1800	115	56Z	2911	1.00	1/2" x 1 .5"	9 .4	17	6 .0
1/2	1800	115	48	D12B2N4	1.00	1/2" x 1 .5"	9 .8	18	8 .8

Single Speed, Rigid Base

HP	RPM	Voltage	Frame	Catalog Number	SF	Total Length	Ship Wt.	Full Load Amps	Notes
1/3	3600	115	48	T13B1N4	1.00	10.7	15	5.4	25

Note 20: Stud Extensions in 3 5/8" Square Pattern
Note 25: Non-Protected

General Purpose Single Phase
Open Drip-Proof (ODP), Resilient Base, Capacitor Start

APPLICATIONS:

For air compressors, pumps, conveyors, blowers and general industrial equipment.

FEATURES:

- Class A or B Insulation
- Reversible Rotation
- 40°C Ambient
- 60 Hz
- Continuous Duty

Single Speed, Rigid Base

HP	RPM	Voltage	Frame	Catalog Number	SF	Total Length	Ship Wt.	Full Load Amps	Notes
1/6	900	115	48	3700	1.35	8.9	15	4 .5	25
1/4	1200	115/208-230	56	6305	1.35	11.3	25	6 .4/3 .0-3 .2	24
1/3	3600	115/208-230	48	D13CA1J49	1.35	9.9	17	6/2 .9-3 .0	24
	1800	115/208-230	56	D13CA2JH9	1.35	9.8	25	8 .8/3 .9-4 .4	24
	1800	115/230	48	4145	1.00	9.4	17	6 .8/3 .4	25
	1800	115/230&110/220	48	6300	1.35	9.9	21	6 .5/3 .3&7 .3/3 .6	25, 98
	1800	115/230&110/220	56	6292	1.35	10.3	22	6 .5/3 .3&7 .3/3 .6	25, 98
	1200	115/208-230	56	D13CA3J9	1.35	11.3	27	6 .8/3 .4-3 .4	24
	1200	115/230	56	6306	1.35	10.8	27	7 .4/3 .7	25
1/2	1800	115/208-230	48	D12C2J49	1 .25	9.9	22	10 .3/4 .8-5 .3	25
	1800	115/208-230	48	D12CA2J49	1 .25	8.7	23	10 .3/4 .8-5 .3	24
	1800	115/208-230	56H	D12CA2JH9	1 .25	11.8	27	9 .0/4 .3-4 .5	24
	1800	115/208-230	56	D12C2J9	1 .25	11.3	22	7 .7/3 .7-3 .8	25
	1200	115/208-230	56	D12CA3J9	1 .25	12.3	28	10 .4/5 .1-5 .2	24
	1200	115/230	56	6310	1 .25	10.2	28	10 .3/5 .2	25
3/4	3600	115/208-230	56	D34CA1J9	1 .25	11.8	26	10 .4/5 .3-5 .2	24
	1800	115/230	56	1660	1 .00	10.8	27	11 .6/5 .8	
	1800	115/208-230	56	3753	1 .25	9.8	25	11 .6/5 .8	24
	1800	115-208/230	56H	D34CA2JH9	1 .25	11.8	27	11 .1/5 .5-5 .5	24
	1800	115-208/230	56	D34C2J9	1 .25	11.8	95	9 .8/5 .2-5 .0	25
	1725	115/208-230	56H	1209	1.25	11.8	32	11.4/5.7-5.7	24
	1200	115/208-230	56H	D34CA3J9	1.15	13.3	40	10 .6/5 .4-5 .3	24
1	3600	115/208-230	56	D1C1J9	1.25	11.8	31	14 .6/6 .9-7 .3	25
	3600	115/208-230	56	D1CA1J9	1.25	11.8	25	14 .6/6 .9-7 .3	24
	1800	115/208-230	56H	D1C2JH9	1.15	12.3	32	14 .8/7 .5-7 .3	25
	1800	115/208-230	56H	D1CA2JH9	1.15	12.3	31	14 .8/7 .5-7 .3	24
	1800	115/208-230	56	3754	1.15	11.8	34	16 .4/8 .2	
	1200	115/208-230	56H	D1CA3JH9	1.15	13.8	42	12 .6/6 .4-6 .3	18,24
1-1/2	3600	115/208-230	56H	D32CA1JH9	1.15	12.31	39	18 .6/9 .8-9 .3	24
	1800	115/208-230	145T	D32C2J149	1.15	13.7	45	19 .2/10 .0-9 .6	25
	1800	115/208-230	56H	D32CA2JH9	1.15	13.3	38	19 .2/10 .0-9 .6	24

Two Speed

HP	RPM	Voltage	Frame	Catalog Number	SF	Total Length	Ship Wt.	Full Load Amps	Notes
3/4-1/4	1800/1200	115	56	6311	1.25	10.8	26	8 .9/6 .1	25
1-1/3	1800/1200	208/230	56	6316	1.15	11.8	32	7 .4-7 .4/4 .0-4 .3	25

Note 18: Incorporates Run Capacitor
Note 24: Automatic Reset Thermal Overload Protector
Note 25: Non-Protected
Note 98: 50/60 Hz Motor

General Purpose Single Phase
Open Drip-Proof (ODP) Rigid Base, Capacitor Start

APPLICATIONS:

For air compressors, pumps, conveyors, blowers and general industrial equipment.

FEATURES:

- Double Shielded Ball Bearings
- Rigid Base Standard
- Class B Insulation
- Continuous Duty
- 40°C Ambient
- F1 Assembly
- Reversible Rotation

HP	RPM	Voltage	Frame	Catalog Number	SF	Total Length	Ship Wt.	Full Load Amps	Notes
1/4	1725	115/230	48	D14CPA2P4	1.35	9.5	14.74	3.1/1.5	18, 24
1/3	3600	115/230	48	6335	1.35	9.2	16	6 .8/3 .4	24
	1800	115/208-230	48	D13C2J4	1.35	8.7	22	8 .8/3 .8-4 .3	25
	1800	115/230&110/220	48	6349	1.35	9.5	20	6 .5/3 .3 & 7 .3/3 .6	24, 98
1/2	1800	115/208-230	48	D12C2J4	1.25	9.2	24	10 .3/4 .8-5 .3	25
	1800	115/208-230	56	D12C2J	1.25	11.9	27	9 .0/4 .3-4 .5	25
	1800	115/208-230	56	D12CM2J	1.25	10.9	29	9 .0/4 .3-4 .5	23
	1800	115/208-230	56	D12CA2J	1.25	10.9	20	9 .0/4 .3-4 .5	24
	1800	115/230	48	6343	1.25	9.5	20	8 .2/4 .1	24
3/4	3600	115/208-230	56	D34C1J	1.25	11.4	27	10 .4/5 .3-5 .2	25
	3600	115/208-230	56	D34CM1J	1.25	11.4	23	10 .4/5 .3-5 .2	23
	1800	115/208-230	56	D34C2J	1.25	9.0	27	11 .4/5 .7	25
	1800	115/208-230	56	D34CA2J	1.25	11.4	25	11 .4/5 .7-5 .7	24
	1800	115/208-230	56	D34CM2J	1.25	11.4	24	11 .4/5 .7-5 .7	23
	1200	115/208-230	56H	D34C3JH	1.15	12.9	38	10 .6/5 .4-5 .3	18
1	3600	115/208-230	56	D1C1J	1.25	11.4	31	14 .6/6 .9-7 .3	25
	3600	115/208-230	56	D1CM1J	1.25	11.4	31	14 .6/6 .9-7 .3	23
	1800	115/208-230	143T	D1C2J14	1.15	12.3	32	14 .8/7 .5-7 .3	25
	1800	115/208-230	143T	D1CA2J14	1.15	12.3	30	14 .8/7 .5-7 .3	24
	1800	115/208-230	143T	D1CM2J14	1.15	12.3	35	14 .8/7 .5-7 .3	23
	1800	115/208-230	56H	D1C2JH	1.15	11.9	28	14 .8/7 .5-7 .3	25
	1800	115/208-230	56H	D1CA2JH	1.15	11.9	28	14 .8/7 .5-7 .3	24
	1800	115/208-230	56H	D1CM2JH	1.15	11.9	31	14 .8/7 .5-7 .3	23
	1800	115/230	182	D1C2P18Z	1.25	12.8	69	14 .4/7 .2	25
	1200	115/208-230	56H	D1C3JH	1.15	13.4	44	12 .6/6 .4-6 .3	18, 25
1-1/2	3600	115/208-230	143T	D32C1J14	1.15	12.3	31	18 .6/9 .8-9 .3	25
	3600	115/208-230	56H	D32C1JH	1.15	11.9	31	18 .6/9 .8-9 .3	25
	3600	115/208-230	56H	D32CM1JH	1.15	11.9	32	18 .6/9 .8-9 .3	23
	1800	115/208-230	145T	D32C2J14	1.15	13.3	39	19 .2/10 .0-9 .6	25
	1800	115/208-230	145T	D32CM2J14	1.15	13.3	39	19 .2/10 .0-9 .6	23
	1800	115/208-230	56H	D32C2JH	1.15	12.9	37	19 .2/10 .0-9 .6	25
	1800	115/208-230	56H	D32CA2JH	1.15	12.9	40	19 .2/10 .0-9 .6	24
	1800	115/208-230	56H	D32CM2JH	1.15	12.9	37	19 .2/10 .0-9 .6	23
	1800	115/230	184	D32C2P18Z	1.15	13.3	71	22 .0/11 .0	25
2	3600	115/208-230	145T	D2C1J14	1.15	12.8	36	22 .4/12 .4-11 .2	25
	3600	115/208-230	56H	D2C1JH	1.15	12.4	35	22 .4/12 .4-11 .2	25

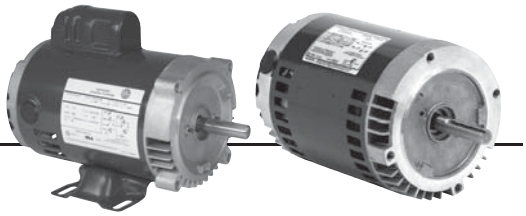
Note 18: Incorporates Run Capacitor
Note 23: Manual Reset Thermal Overload Protector
Note 24: Automatic Reset Thermal Overload Protector
Note 25: Non-Protected
Note 98: 50/60 Hz Motor

General Purpose Single Phase
Open Drip-Proof (ODP) Rigid Base, Capacitor Start *(continued)*

HP	RPM	Voltage	Frame	Catalog Number	SF	Total Length	Ship Wt.	Full Load Amps	Notes
2	1800	115/208-230	145T	D2CA2J14	1.15	14.25	42	20 .0/11 .3-10 .0	18, 24
	1800	115/208-230	145T	D2C2J14	1.15	13.75	42	20 .0/11 .3-10 .0	18, 25
	1800	115/208-230	145T	D2CM2J14	1.15	14.25	42	20 .0/11 .3-10 .0	18, 23
	1800	115/208-230	56H	D2CA2JH	1.15	13.89	41	20 .0/11 .3-10 .0	18, 24
	1800	115/208-230	56H	D2CM2JH	1.15	13.89	42	20 .0/11 .3-10 .0	18, 23
	1800	115/230	182T	D2C2P18	1.15	14.75	70	23 .2/11 .6	18, 25
	1800	115/230	213	D2C2P21Z	1.15	15.02	75	24 .6/12 .3	18, 25
3	3600	115/230	182	D3C1P18	1.15	17.25	81	32 .0/16 .0	18, 25
	3600	230	56	D3CM1K	1.00	12.43	121	15.0	18, 25
	1800	115/230	184T	D3C2P18	1.15	15.75	76	38 .0/19 .0	18, 25
5	3600	230	184T	D5C1K18	1.15	18.00	82	19.6	18, 25
	1800	230	184T	D5C2K18	1.15	16.25	86	22.0	18, 25
	1800	230	213T	D5C2K21	1.15	19.13	86	22.0	18, 25
	1800	230	215	D5C2K21Z	1.15	19.13	86	22.0	18, 25
7-1/2	3600	230	213T	D7C1K21	1.15	19.13	129	30.3	18, 25
	1800	230	215T	D7C2K21	1.15	19.87	105	35.5	18, 25
10	3600	230	215T	D10C1K21	1.15	20.63	92	40.0	18, 25
	1800	230	215T	D10C2K21	1.15	19.87	150	42.2	18, 25

Note 18: Incorporates Run Capacitor
Note 23: Manual Reset Thermal Overload Protector
Note 24: Automatic Reset Thermal Overload Protector
Note 25: Non-Protected

General Purpose Single Phase
Open Drip-Proof (ODP), C-Face, Capacitor Start



APPLICATIONS:

For air compressors, commercial duty pumps, conveyors, blowers and general industrial equipment.

FEATURES:

- Double Shielded Ball Bearings – Locked Drive End Bearings
- 50/60 Hz Motors Have 1.0 SF on 50 Hz
- Class B Insulation
- Continuous Duty
- 40°C Ambient
- F1 Assembly
- Reversible Rotation

Footed

HP	RPM	Voltage	Frame	Catalog Number	SF	Total Length	Ship Wt.	Full Load Amps	Notes
1/2	1800	115/208-230	56C	D12C2JC	1.25	11.0	22	9 .0/4 .3-4 .5	25
3/4	1800	115/208-230	56C	D34C2JC	1.25	11.0	26	11 .4/5 .7-5 .7	25
1-1/2	3600	115/208/230	56HC	D32C1JHC	1.15	11.9	32	18 .6/9 .8-9 .3	25
	1800	115/208-230	145TC	D32C2J14C	1.15	13.0	43	19 .2/10 .0-9 .6	25
2	1800	115/208-230	56HC	D2C2JHC	1.15	13.0	41	20 .0/11 .3-10 .0	18, 25

Footless

HP	RPM	Voltage	Frame	Catalog Number	SF	Total Length	Ship Wt.	Full Load Amps	Notes
1/3	1800	115/208-230	56C	D13C2JCR	1.35	10.4	20	6 .4/3 .2	25
1/2	1800	115/208-230	56C	D12C2JCR	1.25	10.4	20	9 .0/4 .3-4 .5	25
	1800	115/208-230	56C	D34CA2JCR	1.25	11.0	26	11 .4/5 .7-5 .7	24
1	1800	115/208-230	56C	D1C2JCR	1.25	10.9	22	14 .8/7 .5-7 .3	25
1-1/2	1800	115/208-230	56C	D32C2JCR	1.15	12.4	39	19 .2/10 .0-9 .6	25
	1800	115/208-230	56C	D32CA2JCR	1.15	12.4	39	19 .2/10 .0-9 .6	24
2	1800	115/208-230	56C	D2CA2JCR	1.15	14.0	40	20 .0/11 .3-10 .0	18, 24

Note 18: Incorporates Run Capacitor
Note 24: Automatic Reset Thermal Overload Protector
Note 25: Non-Protected

Note 98: 50/60 Hz Motor
Note PF: Pump and Fan Duty Only
Additional Pump Motor Offerings are Available

*Drip Cover Kits sold in multiples of three

General Purpose Single Phase
Totally Enclosed, Fan Cooled (TEFC) Rigid Base, Capacitor Start

APPLICATIONS:

For air compressors, pumps, conveyors, blowers and general industrial equipment.

FEATURES:

- Double Shielded Ball Bearings
- Class B Insulation
- Continuous Duty
- 40°C Ambient
- Capacitor Start
- Induction Run
- F1 Assembly
- Reversible Rotation

HP	RPM	Voltage	Frame	Catalog Number	SF	Total Length	Ship Wt.	Full Load Amps	Notes
1/4	1800	115/208-230	48	T14CM2J4	1.15	10.3	22	6 .6/2 .9-3 .3	23
	1200	115/208-230	56	T14C3J	1.15	11.4	23	6 .4/3 .0-3 .2	25
1/3	3600	115/208-230	48	T13C1J4	1.15	10.8	19	5 .5/2 .7-2 .8	25
	1800	115/208-230	56	T13C2J	1.15	10.6	30	6 .6/2 .9-3 .3	25
	1800	115/208-230	56	T13CM2J	1.15	10.6	17	6 .6/3 .0-3 .3	23
	1200	115/208-230	56	T13C3J	1.15	11.4	23	6 .8/3 .4-3 .4	25
1/2	3600	115/208-230	56	T12CM1J	1.15	11.6	28	8 .0/3 .8-4 .0	23
	1800	100-120/200-240	56	6174	1.25	12.0	27	6 .3-5 .6/3 .1-2 .8	25, 98
	1800	115/208-230	48	T12C2J4	1.15	11.4	21	9/4 .3-4 .5	25
	1800	115/208-230	56	T12C2J	1.15	11.4	30	9 .0/4 .3-4 .5	25
	1800	115/208-230	56	T12CA2J	1.15	11.4	26	9 .0/4 .3-4 .5	24
	1800	115/208-230	56	T12CM2J	1.15	11.4	28	9 .0/4 .3-4 .5	23
	1200	115/208-230	56	T12C3J	1.15	12.4	37	10 .4/5 .1-5 .2	25
3/4	3600	115/208-230	56	T34C1J	1.15	11.9	5	10 .4/5 .3-5 .2	25
	3600	115/208-230	56	T34CA1J	1.15	11.9	26	10 .4/5 .3-5 .2	24
	3600	115/208-230	56	T34CM1J	1.15	11.9	25	10 .4/5 .3-5 .2	23
	1800	100-120/200-240	56	T34C2Z	1.25	11.3	30	9 .2-8 .4/4 .6-4 .2	25, 98
	1800	115/208-230	56	T34C2J	1.15	11.3	33	11 .4/5 .7-5 .7	25
	1800	115/208-230	56	T34CA2J	1.15	11.9	28	11 .4/5 .7-5 .7	24
	1800	115/208-230	56	T34CM2J	1.15	11.3	31	11 .4/5 .7-5 .7	23
	1200	115/208-230	56H	T34C3JH	1.15	13.4	39	10 .6/5 .4-5 .3	25
1	3600	115/208-230	56	T1C1J	1.15	12.4	30	13 .6/6 .9-6 .8	25
	3600	115/208-230	56	T1CA1J	1.15	12.4	27	13 .6/6 .9-6 .8	24
	3600	115/208-230	56	T1CM1J	1.15	12.4	27	13 .6/6 .9-6 .8	23
	1800	100-120/200-240	56	T1C2Z	1.15	12.5	42	11 .0-9 .2/5 .5-4 .7	25, 98
	1800	115/208-230	143T	T1CA2J14	1.15	12.8	36	14 .0/6 .9-7 .0	24
	1800	115/208-230	143T	T1CM2J14	1.15	12.8	36	14 .0/6 .9-7 .0	23
	1800	115/208-230	56H	T1C2JH	1.15	12.4	28	14 .0/6 .9-7 .0	25
	1800	115/208-230	56H	T1CA2JH	1.15	12.4	33	14 .0/6 .9-7 .0	24
	1800	115/208-230	56H	T1CM2JH	1.15	12.4	40	14 .0/6 .9-7 .0	23
	1800	115/230	182	T1C2P18Z	1.00	14.1	72	13 .8/6 .9	25
	1800	115-208/230	143T	T1C2J14	1.15	12.8	33	14 .0/6 .9-7 .0	25
	1200	115/208-230	56H	T1C3JH	1.15	13.9	44	12 .6/6 .6-6 .3	25

Note 23: Manual Reset Thermal Overload Protector
Note 24: Automatic Reset Thermal Overload Protector
Note 25: Non-Protected
Note 98: 50/60 Hz Motor

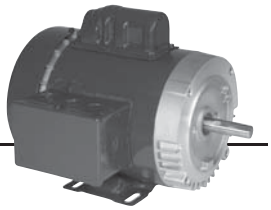
General Purpose Single Phase
Totally Enclosed, Fan Cooled (TEFC) Rigid Base, Capacitor Start

(continued)

HP	RPM	Voltage	Frame	Catalog Number	SF	Total Length	Ship Wt.	Full Load Amps	Notes
1-1/2	3600	115/208-230	143T	T32C1J14	1.15	13.3	34	14 .6/8 .1-7 .4	25
	3600	115/208-230	56H	T32CM1JH	1.15	12.9	34	14 .6/8 .1-7 .4	23
	3600	115-208/230	56H	T32C1JH	1.15	12.9	32	14 .6/8 .1-7 .4	25
	1800	115/208-230	145T	T32C2J14	1.15	14.3	41	14 .4/8 .0-7 .2	25
	1800	115/208-230	145T	T32CA2J14	1.15	14.3	40	14 .4/8 .0-7 .2	24
	1800	115/208-230	56H	T32C2JH	1.15	13.9	30	14 .4/8 .0-7 .2	25
	1800	115/208-230	56H	T32CA2JH	1.15	13.9	41	14 .4/8 .0-7 .2	24
	1800	115/208-230	56H	T32CM2JH	1.15	13.9	28	14 .4/8 .0-7 .2	23
	1800	115/230	184	T32C2P18Z	1.00	15.1	79	18 .4/9 .2	25
2	3600	115/208-230	145T	T2C1J14	1.15	13.8	41	19 .5/10 .8-9 .7	25
	3600	115/208-230	145T	T2CM1J14	1.15	13.8	40	19 .5/10 .8-9 .7	23
	3600	115/208-230	56H	T2C1JH	1.15	13.4	40	19 .5/10 .8-9 .7	25
	3600	115/208-230	56H	T2CM1JH	1.15	13.4	39	19 .5/10 .8-9 .7	23
	1800	115/208-230	145T	T2C2J14	1.15	14.3	54	18 .9/10 .3-9 .4	25
	1800	115/208-230	145T	T2CA2J14	1.00	14.8	54	18 .9/10 .3-9 .4	24
	1800	115/208-230	145T	T2CM2J14	1.00	14.3	54	18 .9/10 .3-9 .4	23
	1800	115/208-230	56H	T2C2JH	1.15	13.9	54	18 .9/10 .3-9 .4	25
	1800	115/208-230	56H	T2CA2JH	1.00	14.4	54	18 .9/10 .3-9 .4	24
	1800	115/208-230	56H	T2CM2JH	1.00	13.9	54	18 .9/10 .3-9 .4	23
	1800	115/230	182T	T2C2P18	1.00	15.2	50	23 .6/11 .8	18, 25
	1800	115/230	213	T2C2P21Z	1.00	17.6	72	24 .0/12 .0	18, 25
3	3600	115/230	182T	T3C1P18	1.00	16.6	83	32 .0/16 .0	18, 25
	1800	115/230	184T	T3C2P18	1.00	17.7	121	30 .0/15 .0	18, 25
	1800	115/230	215	T3C2P21	1.00	19.6	83	33 .6/16 .8	18, 25
5	3600	230	184T	T5C1K18	1.00	17.4	91	19.6	18, 25
	1800	230	213T	T5C2K21	1.00	19.6	121	23.0	18, 25
	1800	230	215	T5C2K21Z	1.00	19.6	90	20.0	18, 25
7-1/2	3600	230	213T	T7C1K21	1.00	20.0	92	30.3	18, 25
	1800	230	215T	T7C2K21	1.00	22.0	90	30.0	18, 25
	1800	115/208-230	56H	T1CM2JH	1.15	12.4	40	14 .0/6 .9-7 .0	23
	1800	115/230	182	T1C2P18Z	1.00	14.1	72	13 .8/6 .9	25
	1800	115-208/230	143T	T1C2J14	1.15	12.8	33	14 .0/6 .9-7 .0	25
	1200	115/208-230	56H	T1C3JH	1.15	13.9	44	12 .6/6 .6-6 .3	25

Note 18: Incorporates Run Capacitor
Note 23: Manual Reset Thermal Overload Protector
Note 24: Automatic Reset Thermal Overload Protector
Note 25: Non-Protected

General Purpose Single Phase
Totally Enclosed, Fan Cooled (TEFC) C-Face, Capacitor Start



APPLICATIONS:

For use on air compressors, commercial duty pumps, conveyors, blowers and general industrial equipment.

FEATURES:

- Double Shielded Ball Bearings
- Class B Insulation
- Continuous Duty
- 40°C Ambient
- Capacitor Start
- Induction Run
- F1 Assembly
- Reversible Rotation
- 50/60 Hz Motors Have 1.0 S.F. on 50 Hz

Footed

HP	RPM	Voltage	Frame	Catalog Number	SF	Total Length	Ship Wt.	Full Load Amps	Notes
1/2	1800	100-120/200-240	56C	6212	1.25	12.0	25	6 .3-5 .6/3 .1-2 .8	18, 24, 98
	1800	115/208-230	56C	T12C2JC	1.15	11.4	23	9 .0/4 .3-4 .5	25
3/4	3600	115/208-230	56C	T34C1JC	1.15	11.9	30	10 .4/ .5 .3-5 .2	25
1	1800	100-120/200-240	56C	T1CM2ZC	1.15	12.5	40	11 .0-9 .2/5 .5-4 .7	18, 23
	1800	115/208-230	56HC	T1C2JHC	1.15	12.4	33	14 .0/6 .9-7 .0	25
1 1/2	1800	115/208-230	56HC	T32C2JHC	1.15	13.9	41	14 .4/8 .0-7 .2	18, 25
2	1800	115/208-230	145TC	T2C2J14C	1.15	14.0	46	18 .9/10 .3-9 .4	18, 25
	1800	115/208-230	56HC	T2C2JHC	1.15	13.9	43	18 .9/10 .3-9 .4	18, 25

Note 18: Incorporates Run Capacitor
Note 23: Manual Reset Thermal Overload Protector
Note 24: Automatic Reset Thermal Overload Protector
Note 25: Non-Protected
Note 98: 50/60 Hz Motor
Note PF: Pump and Fan Duty Only
Additional Pump Motor Offerings are Available

General Purpose Single Phase
Totally Enclosed, Fan Cooled (TEFC) C-Face, Capacitor Start

(continued)

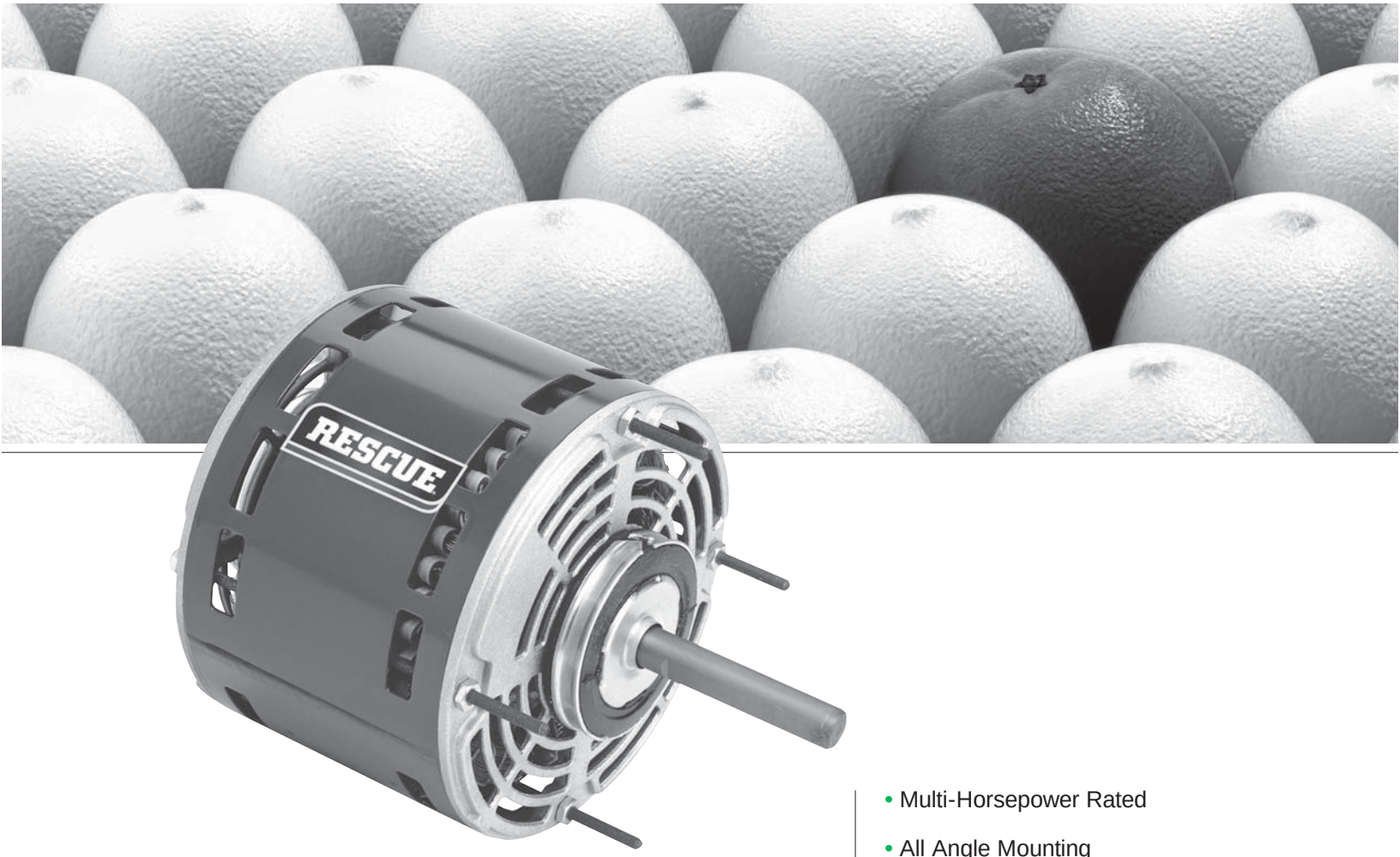
Footless

HP	RPM	Voltage	Frame	Catalog Number	SF	Total Length	Ship Wt.	Full Load Amps	Notes
1/4	1725	115/230	56C	T14C2JCR	1.15	11.5	31	6 .5/2 .8-3 .2	25
1/3	1800	115/230	42CZ	T13C2P42ZCR	1.00	11.6	21	6 .2/3 .1	25
	1800	115/208-230	56C	T13CA2JCR	1.15	11.0	31	6 .6/3 .0-3 .3	24
1/2	1800	100-120/200-240	56C	T12C2ZCR	1.25	12.2	25	6 .3-5 .6/3 .1-2 .8	18, 25, 98
	1800	115/208-230	56C	T12C2JCR	1.15	11.0	22	9 .0/4 .3-4 .5	25
	1800	115/208-230	56C	T12CA2JCR	1.15	11.4	23	9 .0/4 .3-4 .5	24
	1800	115/208-230	56C	T12CM2JCR	1.15	11.4	20	9 .0/4 .3-4 .5	23
	1200	115/208-230	56C	T12C3JCR	1.15	11.4	22	10 .4/5 .1-5 .2	25
3/4	1800	100-120/200-240	56C	T34C2ZCR	1.25	12.4	32	9 .2-8 .4/4 .6-4 .2	18, 25, 98
	1800	115/208-230	56C	T34C2JCR	1.15	11.9	25	11 .4/5 .7-5 .7	25
	1800	115/208-230	56C	T34CA2JCR	1.15	11.9	27	11 .4/5 .7-5 .7	24
	1800	115/208-230	56C	T34CM2JCR	1.15	11.6	24	11 .4/5 .7-5 .7	23
	1200	115/208-230	56C	T34C3JCR	1.15	13.4	28	10 .8/5 .4-5 .3	18, 25
1	3600	115/208-230	56C	T1CA1JCR	1.15	12.4	27	13 .6/6 .9-6 .8	24
	1800	100-120/200-240	56C	T1C2ZCR	1.15	12.5	40	11 .0-9 .2/5 .5-4 .7	25, 98
	1800	115/208-230	143TC	T1C2J14CR	1.15	13.1	30	14 .0/6 .9-7 .0	25
	1800	115/208-230	143TC	T1CA2J14CR	1.15	12.4	33	14 .0/6 .9-7 .0	24
	1800	115/208-230	143TC	T1CM2J14CR	1.15	12.4	30	14 .0/6 .9-7 .0	23
	1800	115/208-230	56C	T1C2JCR	1.15	13.1	43	14 .0/6 .9-7 .0	25
	1800	115/208-230	56C	T1CA2JCR	1.15	12.4	43	14 .0/6 .9-7 .0	24
	1800	115-208/230	56C	T1CM2JCR	1.15	12.4	24	14 .0/6 .9-7 .0	23
	1200	115/208-230	56C	T1C3JCR	1.15	13.9	44	12 .6/6 .6-6 .3	25
1-1/2	3600	115/208-230	143TC	T32C1J14CR	1.15	12.9	32	14 .6/8 .1-7 .4	25
	3600	115/208-230	56C	T32CA1JCR	1.15	12.9	32	14 .6/8 .1-7 .4	24
	1800	115/208-230	145TC	T32C2J14CR	1.15	13.1	47	14 .4/8 .0-7 .2	25
	1800	115/208-230	145TC	T32CA2J14CR	1.15	13.9	47	14 .4/8 .0-7 .2	24
	1800	115/208-230	145TC	T32CM2J14CR	1.15	13.9	47	14 .4/8 .0-7 .2	23
	1800	115/208-230	56C	T32C2JCR	1.15	13.6	31	14 .4/8 .0-7 .2	25
	1800	115/208-230	56C	T32CA2JCR	1.15	13.9	31	14 .4/8 .0-7 .2	24
	1800	115/208-230	56C	T32CM2JCR	1.15	13.9	31	14 .4/8 .0-7 .2	23
2	3600	115/208-230	145TC	T2C1J14CR	1.15	12.9	34	19 .5/10 .8-9 .7	25
	1800	115/208-230	145TC	T2C2J14CR	1.15	13.9	35	18 .9/10 .3-9 .4	25
	1800	115/208-230	145TC	T2CA2J14CR	1.00	14.4	40	18 .9/10 .3-9 .4	24
	1800	115/208-230	145TC	T2CM2J14CR	1.00	14.0	40	18 .9/10 .3-9 .4	23
	1800	115/208-230	56C	T2C2JCR	1.15	13.9	31	18 .9/10 .3-9 .4	25
	1800	115/208-230	56C	T2CA2JCR	1.00	14.4	31	18 .9/10 .3-9 .4	24
	1800	115/208-230	56C	T2CM2JCR	1.00	13.4	31	18 .9/10 .3-9 .4	23

Note 18: Incorporates Run Capacitor
Note 23: Manual Reset Thermal Overload Protector
Note 24: Automatic Reset Thermal Overload Protector
Note 25: Non-Protected

Note 98: 50/60 Hz Motor
Note PF: Pump and Fan Duty Only
Additional Pump Motor Offerings are Available

RESCUE® Motors



There are many imitations but only ONE RESCUE.™

Ask for RESCUE,® the EASILY installed, PERMANENT replacement motor that helps YOU save more money.

- Multi-Horsepower Rated
- All Angle Mounting
- Flex Mounting with Kit 44
- Belly Band Mounting with Kit 17
- Resilient Mount utilizing 2.5" Hub Rings
- Exclusive Rheem®† and Ruud®† Side Shell Holes
- Extended Studs
- Quiet Bearing System
- Reversible

For more information about the U.S. MOTORS® brand, visit ***www.usmotors.com***

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Agriculture

For use in farm & agriculture duty applications.

Horsepower: 1/4 – 30 HP

Phase: Single and Three Phase

RPM: 3600 or 1800 RPM

Voltage:

- Single Phase, 115, 115/230, or 230 Volts, 60 Hz
- Three Phase, 230/460 Volts, 60 Hz

Enclosure: Totally Enclosed, Air Over (TEAO) & Totally Enclosed, Fan Cooled (TEFC) Options

Construction: Rolled steel or aluminum frame

Conduit Box: Varies based on motor size and end use design

Bearings: Ball bearings

Grease: Mobil 28®† Low Temperature Grease Standard in High Torque and Ultra High Torque Argi Duty motors

Temp Rise: Ambient 40°C

Thermal Overload:

- High Torque and Ultra High Torque available with manual reset overload protectors
- Motors available with automatic reset overload protectors or thermostats

When it comes to motors for farm, dairy, agricultural, horticultural and aquacultural duty applications, there's only one brand you need to know: U.S. MOTORS® brand.

Our motors are built for performance, efficiency and longevity — three benefits that you require from your motors. U.S. MOTORS® brand offers one of the broadest selections of ag duty motors in the industry…motors for virtually any agricultural application including:

Bin Loading and Unloading Systems:
Center drive auger
Top drive auger
Horizontal power head
Bucket elevators

Material Handling:
Chain conveyors
Bucket elevators
Drag conveyors
Pit conveyors

Feed Delivery Systems:
Poultry
Swine
Cattle

Grain Aeration and Conditioning:
Vane axial fans
Centrifugal fans
Inline centrifugal fans
Heaters

Ventilation:
Poultry house vent fans
Pit vent fans
Livestock house fans
Greenhouses
Direct and belt drive fans
Curtain motors
Hatcher and setter motors
Crop dryers

Additional Applications:
Agitators
Compressors
Hay hoists
Barn cleaners
Silo unloaders
Irrigation pumps
Transfer pumps
Pressure washers
Center pivot gear motors

† All marks shown within this document are properties of their respective owners.

Special Application Agriculture Single Phase, Totally Enclosed, Fan Cooled (TEFC), Ultra High Torque, Capacitor Start

APPLICATIONS:

For powering agitators, augers, compressors, conveyors, feeders and hay hoists.
High torque motors are used on barn cleaners, manure pumps and silo unloaders.

FEATURES:

- Class F Insulation
- 40°C Ambient, Continuous Duty
- Typical Starting Torque 300% Of Full Load
- F1 Assembly
- Extruded Aluminum Frame (180-210 Frame)
- Manual Reset Thermal Overload Protector
- Plastic Fan & Fan Cover
- Double Shielded Bearings w/Low-Temp Grease (Regreasable Shaft End)
- Removable Condensation Drains For Vertical Mounting
- Fully Gasketed Steel Conduit Box
- Die Cast Aluminum Brackets With Steel Bearing Inserts

Footed

HP	RPM	Voltage	Frame	Catalog Number	SF	Total Length	Ship Wt.	Full Load Amps	Notes
1-1/2	1800	115/230	145T	FDU32CM2P14	1 .15	13 .7	50	19 .2/9 .6	23, CSCR
2	1800	115/230	182TZ	FDU2CM2P18Z	1 .15	16 .8	66	25 .6/12 .8	23
3	1800	230	184T	FDU3CM2K18	1.15	18.8	78	17.0	23
5	1800	230	184T	FDU5CM2K18	1.15	18.8	86	24.0	23
	1800	230	215TZ	FDU5CM2K21Z	1.15	20.1	122	29.0	23
7-1/2	1800	230	215TZ	FDU7CM2K21Z	1.15	21.4	150	30.0	23
10	1800	230	215T	FDU10CM2K21	1.15	21.3	175	41.0	23

C-Face

HP	RPM	Voltage	Frame	Catalog Number	SF	Total Length	Ship Wt.	Full Load Amps	Notes
3	1800	208-230	184TC	FDU3CM2K18C	1.15	18.7	78	16.4/17.0	23
5	1800	208-230	184TC	FDU5CM2K18C	1.15	18.7	100	22.2/24.0	23
7-1/2	1800	230	215TC	FDU7CM2K21C	1.15	21.3	150	30.0	23
10	1800	230	215TC	FDU10CM2K21C	1.15	21.3	215	41.2	23

Special Application Air Compressor Single Phase Open Drip-Proof (ODP)

APPLICATIONS:

Designed for belt drive air compressor duty high breakdown torque.

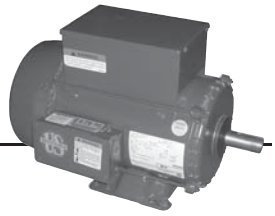
FEATURES:

- Rigid Welded Base
- Continuous Duty
- Manual Reset Thermal Overload Protector
- ODP Enclosure
- Class B Insulation
- 40°C Ambient
- Ball Bearings
- Rotation - CCW Facing Shaft End, Non-Reversible

HP	RPM	Voltage	Frame	Catalog Number	SF	Total Length	Ship Wt.	Full Load Amps	Notes
2	3600	115/230	56	3768	1 .00	11 .9	28	15 .0/7 .5	23
3	3600	208-230	56	3769	1 .00	12 .4	32	15 .0	23
5	3600	230	145T	D5CM1K14	1.00	13.4	43	22.0	23

Note 23: Manual Reset Thermal Overload Protector

Special Application Agriculture Single Phase, Totally Enclosed, Fan Cooled (TEFC) Agri Duty High Torque, Capacitor Start



APPLICATIONS:

For powering agitators, augers, compressors, conveyors, feeders and hay hoists.
High torque motors are used on barn cleaners, manure pumps and silo unloaders.

FEATURES:

- Class F Insulation (140-210 Frame)
- 40°C Ambient, Continuous Duty
- Reversible Rotation
- F1 Assembly
- Steel Frames & Steel Welded Base (140-210 Frame)
- Die Cast Aluminum Brackets With Steel Bearing Inserts
- Manual Reset Thermal Overload Protector
- Steel Fan Cover & Conduit Box
- Non-Regreasable Double Shielded Bearings
- Shaft Slinger (140-210 Frame)
- Capacitor Start-Capacitor Run (3-10 HP)
- Low Temperature Grease

Footed

HP	RPM	Voltage	Frame	Catalog Number	SF	Total Length	Ship Wt.	Full Load Amps	Notes
1/3	1800	115/230	56	FD13CM2P	1 .15	10 .3	20	6 .2/3 .1	23
1/2	1800	115/230	56	FD12CM2P	1 .15	10 .8	20	9 .0/4 .5	23
3/4	1800	115/230	56	FD34CM2P	1 .15	11 .8	20	10 .8/5 .4	23
1	1800	115/230	143T	FD1CM2P14	1 .15	13 .7	48	15 .0/7 .5	23
	1800	115/230	56H	FD1CM2PZ	1 .15	12 .7	20	14 .4/7 .2	23
1-1/2	1800	115/230	145T	FD32CM2P14	1 .15	13 .6	41	16 .2/8 .1	23, CSCR
2	1800	115/230	182T	FD2CM2P18	1 .00	15 .2	60	23 .6/11 .8	23
	1800	115/230	56HZ	FD2CM2PHZ	1 .00	13 .7	40	20 .0/10 .0	23, CSCR
3	1800	230	184T	FD3CM2K18	1.00	17.2	74	14.5	23
5	1800	230	184T	FD5CM2K18	1.00	18.2	85	22.0	23
	1800	230	213T	FD5CM2K21	1.00	19.6	80	23.0	23
7-1/2	1800	230	215T	FD7CM2K21	1.00	22.1	147	30.0	23
10	1800	230	215T	FD10CM2K21	1.00	22.1	180	38.0	23

C-Face, Footless

HP	RPM	Voltage	Frame	Catalog Number	SF	Total Length	Ship Wt.	Full Load Amps	Notes
1/3	1800	115/230	56C	FD13CM2PCR	1 .15	10 .6	21	6 .6/3 .3	23
1/2	1800	115/230	56C	FD12CM2PCR	1 .15	10 .6	24	9 .0/4 .5	23
3/4	1800	115/230	56C	FD34CM2PCR	1 .15	12 .2	35	11 .4/5 .7	23
1	1800	115/230	56C	FD1CM2PCR	1 .15	12 .3	39	14 .0/7 .0	23
1-1/2	1800	115/230	56C	FD32CM2PCR	1 .15	12 .8	46	16 .2/8 .1	23, CSCR

Note 23: Manual Reset Thermal Overload Protector
Note CSCR: Capacitor Start Capacitor Run

Special Application Agriculture Single Phase Aeration Fan & Crop Dryer

APPLICATIONS:

For air over applications or fans mounted directly on the motor shaft. Specifically designed for use on vane axial crop dryers and aeration fans.

FEATURES:

Aeration Fan

- Totally Enclosed, Air Over
- Class B Insulation On 56 Frame
- Class F Insulation On 140 Frame
- Keyed Shaft Drilled On Center 1" Deep & Tapped 1/4" UNC
- 56Z Frame Motors Have 5/8" Dia. X 2-1/4" Long Shaft
- F1 Assembly Position

Aeration Fan – Cap Start

HP	RPM	Voltage	Frame	Catalog Number	SF	Total Length	Ship Wt.	Nominal Eff.	Full Load Amps	Notes
3/4	3600	115/230	56Z	FD34CA1PZ	1 .00	11 .0	25	-	11 .0/5 .5	24
1	3600	115/230	56Z	FD1CA1PZ	1 .00	11 .5	29	70 .0	12 .4/6 .2	24
1-1/2	3600	115/230	143TZ	FD32CA1P14	1 .00	12 .6	32	73 .0	17 .4/8 .7	24
2	3600	115/230	143TZ	FD2CA1P14	1 .00	13 .6	42	75 .5	22 .2/11 .1	24
3	3600	230	145TZ	FD3CA1K14	1.00	13.6	42	78.5	14.9	24, CSCR

FEATURES:

Crop Dryer

- Open Drip-Proof Air-Over
- Thermostat Protected (Overheating Protection) Requires Leads to be Connected to Control Circuit of Motor Controller
- Non-Standard 1-1/8" Diameter x 3-1/4" Long Keyed Shaft Is Drilled On Center 1" Deep & Tapped 1/4-20 UNC
- Rodent Screens, Extra Long Leads, Class F Insulation
- F1 Assembly Position

Crop Dryer – Cap Start

HP	RPM	Voltage	Frame	Catalog Number	SF	Total Length	Ship Wt.	Nominal Eff.	Full Load Amps	Notes
5-7	3600	230	184TZ	FD5CM1K18Z	1.00	18.4	90	82.8	21.0	-
7.5-9	3600	230	184TZ	FD7CM1K18Z	1.00	18.4	90	88.7	30.0	-
10-12	3600	230	215TZ	FD10CM1K21Z	1.15	20.4	127	85.2	40.0	-

Note 24: Automatic Reset Thermal Overload Protector
Note CSCR: Capacitor Start Capacitor Run

Special Application Farm Single & Three Phase Direct Drive Poultry Fan

APPLICATIONS:

For direct drive exhaust and vent fans in poultry and livestock houses.

FEATURES:

- Continuous Duty
- PSC Models Include Capacitor Mounted With Cover
- Clockwise Drive End Rotation
- Automatic Reset Thermal Overload Protection
- Studs For Mounting Fan Guard
- 1.0 Service Factor Except Where Noted
- Terminal Board With Side Conduit Plug Unless Noted

Yoke Mount, Welded Tab Fan Motors

HP	RPM/ Spd.	Voltage	Frame	Catalog Number	Amps	Motor Type	Bearings	Enclosure	Ship Wt.	Notes
1/4	1100/2	115	48YZ	1933	5.7	PSC	Ball	OAO	19	1
	1100/2	115	48Y	1917	4.2	PSC	Ball	TEAO	15	
	1100/2	115	48Y	1931	3.0	PSC	SAB	TEAO	13	1
1/3	1075/2	115	48Y	1935	5.3	PSC	Ball	TEAO	20	
	1800/1	115	48YZ	1928	5.0	Split Phase	Ball	TEAO	18	
1/2	900/1	115	48YZ	1940	6.4	PSC	Ball	TEAO	25	1
	1200/2	115	48Y	1838	5.8	PSC	SAB	TEAO	23	1
	1200/2	115	48Y	1924	7.2	PSC	Ball	TEAO	23	
	1200/2	115	48Y	1937	7.2	PSC	Ball	TEAO	18	1

Note 01: OEM Replacement Catalog Number

Special Application Farm Single & Three Phase Direct Drive Poultry Fan

APPLICATIONS:

For direct drive exhaust and vent fans in poultry and livestock houses.

FEATURES:

- Ball Bearings
- 40°C Ambient
- TEAO Enclosure except where noted
- Class B Insulation
- Continuous Air Over Duty

Single Phase, Permanent Split Capacitor, Resilient Mount

HP	RPM	Voltage	Frame	Catalog Number	Mounting	SF	Total Length	Ship Wt.	Full Load Amps	Shaft Dim.	Notes
1/2	1800	115/230	48YZ	1850	Resilient	1 .00	10 .9	25	5 .0/2 .5	0 .5 x 2 .5	24

Single Phase, Permanent Split Capacitor, Stud Mount

HP	RPM	Voltage	Frame	Catalog Number	Mounting	SF	Total Length	Ship Wt.	Full Load Amps	Shaft Dim.	Notes
1/2	900	115/230	48YZ	8102	Stud	1 .25	10 .2	22	6 .0/3 .0	0 .625 x 2 .625	24

Single Phase, Permanent Split Capacitor, Rigid Mount

HP	RPM	Voltage	Frame	Catalog Number	Mounting	SF	Total Length	Ship Wt.	Full Load Amps	Shaft Dim.	Notes
1/2	900	115/230	56Z	FD12AA4P	Rigid	1 .00	11 .4	35	6 .4/3 .2	0 .625 x 2 .5	24

Single Phase, Permanent Split Capacitor, Face Mount

HP	RPM	Voltage	Frame	Catalog Number	Mounting	SF	Total Length	Ship Wt.	Full Load Amps	Shaft Dim.	Notes
1	900	230	56CZ	FD1AA4KCR	Face	1.00	13.9	45	5.8	0.625 x 2.5	24
	900	230	56YZ	1837	Face	1 .00	13 .3	37	5 .2	0 .75 x 3 .25	24

Three Phase, Face Mount

HP	RPM	Voltage	Frame	Catalog Number	SF	Total Length	Ship Wt.	Full Load Amps	Shaft Dim.	Notes
1	900	440-460	56YZ	8101	1 .00	13 .6	24	2 .0	0 .75 x 3 .25	24
1-1/2	900	460	184TCH	UN32S4CKR	1.25	16.9	70	3.9	1.125"	28, FTLS

Note 24: Automatic Reset Thermal Overload Protector
Note 28: TENV Enclosure
Note FTLS: Footless

Special Application Agriculture Auger Duty Motors

Capacitor Start

APPLICATIONS:

For use on augers.

FEATURES:

- Totally Enclosed, Fan Cooled (except where noted)
- Class B Insulation
- Manual Reset Thermal Overload Protector
- 1/2 HP & Above Have ODE Shaft Extension for Hand Crank
- Ball Bearings
- 56Y are Keyed; 56YZ are Flat Shaft
- Reversible Rotation
- Footed (except where noted)

Capacitor Start

HP	RPM	Voltage	Frame	Catalog Number	SF	Total Length	Ship Wt.	Full Load Amps	Notes
1/2	1800	115/230	56Y	1843	1 .00	11 .6	30	8 .0/4 .0 & 9 .6/4 .8	FTLS, 98
	1800	115/230	56Y	FD12CM2PZY	1 .00	11 .2	28	8 .0/4 .0 & 9 .6/4 .8	98
	1800	115/230	56Y	FD12CM2PZYR	1 .00	12 .2	28	8 .6/4 .3 & 10 .4/5 .4	FTLS, 98
3/4	1800	115/230	56Y	FD34CM2PZYR	1 .00	12 .6	32	10 .6/5 .3 & 11 .8/5 .9	FTLS, 98
	1800	115/230	56Z	FD34CM2PZY	1 .00	12 .2	32	10 .6/5 .3 & 11 .8/5 .9	
1-1/2	1800	115/230	56HY	FD32CM2PHZY	1 .15	13 .9	45	16 .2/8 .1	

Split Phase

HP	RPM	Voltage	Frame	Catalog Number	SF	Total Length	Ship Wt.	Full Load Amps	Notes
1/3	1800	115/230	56YZ	FD13BM2PZYR	1.00	11.5	22	5.3/2.6 & 5.9/3.0	28,FTLS,98

Three Phase

HP	RPM	Voltage	Frame	Catalog Number	SF	Total Length	Ship Wt.	Full Load Amps	Notes
1/3	1800	208-230/460	56Y	FD13SM2DZYR	1 .00	11 .25	26	1 .8-2 .0/1 .0	FTLS, 98
1/2	1800	208-230/460	56Y	FD12SM2DZYR	1 .00	11 .75	27	2 .2/1 .1&2 .0-2 .0/1 .0	FTLS, 98
3/4	1800	208-230/460	56Y	FD34SM2DZYR	1 .00	11 .75	27	2 .7-2 .6/1 .3	FTLS, 98
1	1800	208-230/460	56Y	FD1SM2DZYR	1 .00	12 .94	29	3 .4-3 .4/1 .7	FTLS, 98
1-1/2	1800	208-230/460	56Y	FD32SM2DZYR	1 .00	12 .94	38	4 .8-4 .5/2 .3	FTLS, 98
	1800	115/230	56HY	FD32CM2PHZY	1 .15	13 .9	45	16 .2/8 .1	

Note 28: TENV Enclosure
Note 98: 50/60 Hz
Note FTLS: Footless
Note: Definite Purpose Motors do not need to meet EPAct efficiency.

Special Application Agriculture
Agri Duty Fan and Hatcher/Setter Motors

Agri Duty Fan

Hatcher & Setter

APPLICATIONS:

Agri duty fans designed for direct drive and vent fans in poultry and livestock houses. Hatcher and setter motors are used in hatchers and setters.

FEATURES:

Agri Duty Fan Motors
- Ball Bearings
- 40°C Ambient, Continuous Duty
- Totally Enclosed, Air Over (TEAO) Enclosure
- Rigid Base (except where noted)
- Class B Insulation
- Automatic Reset Thermal Overload Protector
- Built-in Conduit Box
- Split Phase & Capacitor Start (see notes below)

Hatcher & Setter Motors
- Ball Bearings
- 40°C Ambient
- Totally Enclosed, Air Over (TEAO) Enclosure
- Class B Insulation
- Continuous Air Over Duty
- Permanent Split Capacitor
- Shaft Dimensions 0.5 Dia. X 1.5 Length
- Reversible Rotation (except where noted)

Agri Duty Fan Motors – Single Phase

HP	RPM	Voltage	Frame	Catalog Number	SF	Total Length	Ship Wt.	Full Load Amps	Notes
1/2	1800	115/208-230	56	FD12BA2P9	1.25	11.1	24	5.4/2.7	35, 94
	1800	115/230	56	FD12BA2P	1.25	11.3	24	8.0/4.0	94
3/4	1800	115/230	56	FD34BA2P	1.25	12.2	28	10.8/5.4	94
1	1800	115/230	56	FD1CA2J	1 .15	12 .4	27	10 .9/5 .4-5 .4	CSCR
	1800	115/230	56	FD1CA2J9	1 .15	12 .4	25	10 .9/5 .4-5 .4	
1-1/2	1800	115/230	56	FD32CA2P	1	12 .6	42	13 .0/6 .5	98

Agri Duty Fan Motors – Three Phase

HP	RPM	Voltage	Frame	Catalog Number	SF	Total Length	Ship Wt.	Full Load Amps	Notes
1/2	1725/1425	208-230/460 & 190/380"	56	FD12SA2D	1 .15/1 .00	10 .1	26	1 .8/0 .9	24, 98

Hatcher & Setter Motors

HP	RPM	Voltage	Frame	Catalog Number	SF	Total Length	Ship Wt.	Full Load Amps	Notes
1/2	1800	115/230	48YZ	FD12AM2P4ZRS	1 .00	9 .4	19	5 .0/2 .5	23, 98

Note 23: Manual Reset Thermal Overload Protector
Note 24: Automatic Reset Thermal Overload Protector
Note 35: Resilient Base
Note 94: Split Phase
Note 98: 50/60 Hz
Note CSCR: Capacitor Start Capacitor Run

General Purpose Motors

Horsepower: 1 – 500 HP

Frame Sizes: 143 through 5811

Phase: Three Phase

RPM: 3600, 1800, 1200 or 900 RPM

Voltage:
- 200
- 208-230/460
- 230/460
- 460
- 575 Volts

Enclosure:
- Open Drip-Proof (ODP)
- Totally Enclosed, Fan Cooled (TEFC)

Service Factor: 1.15 SF or greater

Insulation: Class B or F Insulation

Efficiency: Premium Efficient, NEMA Premium®† Efficient or EPAct

Nameplate: CE Mark on nameplate (180 Frame or larger)

Agency: UL®† Recognized and CSA®† Certified

World Motor® Features:
- Both 60 Hz and 50 Hz operations (without derating motor)
- 250 Frame and larger ratings suitable for wye-start delta run or across-the-line starting
- Energy Efficient per NEMA (2003) MG1, 12-10
- Meets EPAct 92 (USA), NOM 74 (Mexico), and CSA®† C390 (Canada) efficiency levels
- AllGuard® Motor Quality System

Open Drip-Proof Motors NEMA Premium

UNIMOUNT® Motors NEMA Premium

HOSTILE DUTY™ Motors NEMA Premium

† All marks shown within this document are properties of their respective owners.

General Purpose Three Phase, Open Drip-Proof (ODP) NEMA Premium®† Efficient – IE3

NEMA Premium

APPLICATIONS:

For use in pumps, fans, compressors, material handling and other general purpose applications where contaminants are minimal.

FEATURES:

- World Motor® Features Except Where Noted
- Class F Insulation, Class B Rise At Service Factor
- Rolled Steel Frame 56-320, Cast Iron Frame 360-440
- Aluminum End Shields 56-250, Cast Iron End Shields 280-440
- "CE" Mark on Nameplate (140 Frame & Larger)
- 40°C Ambient, NEMA®† Design B Performance On 60 Hz Sine Wave Power
- 1.15 Service Factor
- Regreasable Bearings 180 Frame & Up
- Suitable for use with Variable Frequency Drive Constant Torque: 4:1 Variable Torque: 10:1
- Double Shielded Bearings 140-400, Open On 440
- Bearing Caps On 400 & 440 Frames
- F1 Assembly Position except where noted
- Lifting Provisions 210 Frame & Up
- Inverter Suitable 10:1 Variable Torque, 4:1 Constant Torque
- Conversion Kits: Drip Cover Kits (140-320 Frame)

HP	RPM	Voltage	Frame	Catalog Number	Total Length	Ship Wt.	Full Load Eff.	Full Load Amps	Notes
1/4	1800	208-230/460	48	D14S2D4	9 .6	14	-	1 .3-1 .3/0 .65	26, NNP
1/3	3600	208-230/460	56	D13S1A	9 .6	16	-	1 .4-1 .5/0 .75	26, NNP
	1800	208-230/460	56	D13S2A	9 .9	25	-	1 .5-1 .7/0 .8	26, NNP
1/2	3600	208-230/460	48	D12S1D4	9 .4	18	-	1 .8-1 .8/0 .9	26, NNP
	1800	208-230/460	56	D12S2A	10 .0	25	-	1 .98-1 .9/ .98	26, NNP
	1200	208-230/460	56	D12S3A	12 .0	25	-	2 .2-2 .2/1 .1	26, NNP
3/4	3600	230/460	48	D34S1B	8.9	21	-	2.4/1.2	26, NNP
	1800	208-230/460	56	D34S2A	10 .0	27	-	2 .7-2 .8/1 .4	26, NNP
	1725	575	56C	4937	11.9	22	-	1.1	
	1200	208-230/460	56H	D34S3AH	11 .9	30	-	3 .0/1 .53 .5/1 .9	26, NNP
1	3600	208-230/460	56	D1S1A	10 .4	27	-	2 .8-2 .9/1 .4	26, NNP
	1800	208-230/460	56H	D1S2AH	11 .1	25	-	3 .4-3 .4/1 .7	26, NNP
	1800	208-230/460	56HZ	D1E2DHZ	12 .0	29	-	4 .0-3 .8/1 .9	26, NNP
	1800	200	143T	D1P2H	12 .8	35	85 .5	3 .6	
	1800	208-230/460	143T	D1P2D	12 .8	30	85 .5	3 .2-3 .1/1 .5	3
	1800	575	143T	D1P2G	12 .8	30	85 .5	1 .3	
	1200	200	145T	D1P3H	12 .8	35	82 .5	4 .5	
	1200	208-230/460	145T	D1P3D	14 .1	35	82 .5	4 .0-4 .0/2 .0	3
	1200	575	145T	D1P3G	14 .1	35	82 .5	1 .6	
	900	208-230/460	182T	D1E4D	15 .0	50	75 .5	4 .4-4 .6/2 .3	03, NNP
1-1/2	3600	208-230/460	143T	D32P1D	12 .8	30	85 .5	4 .2-3 .8/1 .9	3
	3600	575	143T	D32P1G	12 .8	30	84 .0	1 .5	
	1800	200	145T	D32P2H	12 .8	35	86 .5	4 .8	
	1800	208-230/460	145T	D32P2D	12 .8	35	86 .5	4 .4-4 .2/2 .1	3
	1800	575	145T	D32P2G	12 .8	35	86 .5	1 .7	
	1200	200	182T	D32P2B2	15.0	50	86.5	6.0	03, 05
	1200	208-230/460	182T	D32P3D	15 .0	50	86 .5	5 .2-5 .0/2 .5	3
	1200	575	182T	D32P3G	15 .0	50	86 .5	2 .0	
	900	575	184T	D32E4G	15 .0	60	75 .5	2 .4	NNP
2	3600	208-230/460	56H	D2S1AH	11 .6	33	-	6 .2-6 .2/3 .1	26, NNP
	3600	200	145T	D2P1H	12 .8	35	85 .5	5 .6	
	3600	208-230/460	145T	D2P1D	12 .8	35	85 .5	5 .5-5 .0/2 .5	3
	3600	575	145T	D2P1G	12 .8	35	85 .5	2	
	1800	200	145T	D2P2H	12 .8	35	86 .5	6 .4	

Note 03: 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note 05: F2 Assembly Position
Note 26: Does not include World Motor® features
Note NNP: Non-NEMA Premium®† Rating

Inverter Suitable
10:1 VT and 4:1 CT

† All marks shown within this document are properties of their respective owners.

General Purpose Three Phase, Open Drip-Proof (ODP)
NEMA Premium®† Efficient – IE3 *(continued)*

HP	RPM	Voltage	Frame	Catalog Number	Total Length	Ship Wt.	Full Load Eff.	Full Load Amps	Notes
2	1800	208-230/460	145T	D2P2D	12 .8	35	86 .5	5 .9-5 .5/2 .8	3
	1800	230/460	145T	D2P2B2	12.8	35	86.5	5.9-5.5/2.8	03, 05
	1800	575	145T	D2P2G	12 .8	35	86 .5	2 .2	
	1800	208-230/460	56H	D2S2AH	11 .5	33	-	6 .0/3 .0	26, NNP
	1800	208-230/460	56HZ	D2E2DHZ	12 .4	36	85 .5	6 .6-6 .6/3 .3	26, NNP
	1200	200	184T	D2P3H	15 .0	60	87 .5	7 .3	
	1200	208-230/460	184T	D2P3D	15 .0	60	87 .5	6 .5-6 .3/3 .1	3
	1200	575	184T	D2P3G	15 .0	60	87 .5	2 .4	
	900	208-230/460	213T	D2E4D	16 .0	90	85 .5	7 .9-7 .4/3 .7	03, NNP
	900	575	213T	D2E4G	16 .0	90	85 .5	2 .9	NNP
3	3600	200	145T	D3P1H	12 .8	35	85 .5	8 .4	
	3600	208-230/460	145T	D3P1D	12 .8	35	85 .5	8 .2-7 .3/3 .7	3
	3600	575	145T	D3P1G	12 .8	35	85 .5	2 .9	
	1800	200	182T	D3P2H	15 .0	50	89 .5	9 .0	
	1800	208-230/460	182T	D3P2D	15 .0	50	89 .5	8 .4-7 .8/3 .9	3
	1800	575	182T	D3P2G	15 .0	50	89 .5	3 .2	
	1800	208-230/460	56HZ	D3E2DHZ	13 .5	45	86 .5	9 .7-9 .4/4 .6	26, NNP
	1200	200	213T	D3P3H	16 .0	90	88 .5	10 .5	
	1200	208-230/460	213T	D3P3D	16 .0	90	89 .5	9 .4-8 .8/4 .4	3
	1200	575	213T	D3P3G	16 .0	90	88 .5	3 .6	
	900	208-230/460	215T	D3E4D	17 .5	100	86 .5	11 .6-11 .0/5 .5	03, NNP
	900	575	215T	D3E4G	17 .5	100	86 .5	4 .4	NNP
5	3600	200	182T	D5P1H	15 .0	50	88 .5	14 .1	
	3600	208-230/460	182T	D5P1D	15 .0	50	89 .5	13 .5-12 .3/6 .2	3
	3600	575	182T	D5P1G	15 .0	50	89 .5	4 .9	
	1800	200	184T	D5P2H	15 .0	60	89 .5	14 .7	
	1800	208-230/460	184T	D5P2D	15 .0	60	89 .5	13 .8-13 .0/6 .5	3
	1800	575	184T	D5P2G	15 .0	60	89 .5	5 .2	
	1200	200	215T	D5P3H	17 .5	105	89 .5	16 .1	
	1200	208-230/460	215T	D5P3D	17 .5	105	89 .5	15 .2-14 .5/7 .3	3
	1200	575	215T	D5P3G	17 .5	105	89 .5	5 .7	
	900	208-230/460	254T	D5E4D	22 .6	150	88 .5	16 .2-15 .2/7 .6	02, 03, NNP
	900	575	254T	D5E4G	22 .6	150	87 .5	6 .2	02, NNP
7-1/2	3600	200	184T	D7P1H	15 .0	60	88 .5	20 .8	
	3600	208-230/460	184T	D7P1D	15 .0	60	89 .5	20 .1-18 .3/9 .1	3
	3600	575	184T	D7P1G	15 .0	60	88 .5	7 .3	
	1800	200	213T	D7P2H	16 .0	90	91 .0	21 .4	
	1800	208-230/460	213T	D7P2D	16 .0	90	91 .0	20 .2-18 .5/9 .3	3
	1800	575	213T	D7P2G	16 .0	90	91 .0	7 .2	
	1200	200	254T	D7P3H	22 .6	150	91 .0	21 .9	2
	1200	208-230/460	254T	D7P3D	22 .6	150	91 .0	20 .7-19 .4/9 .7	02, 03
	1200	575	254T	D7P3G	22 .6	150	91 .0	7 .8	2

Note 02: Suitable for Wye-Delta start on voltages shown
Note 03: 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate
Note 05: F2 Assembly Position
Note 26: Does not include World Motor® features
Note NNP: Non-NEMA Premium®† Rating

† All marks shown within this document are properties of their respective owners.

General Purpose Three Phase, Open Drip-Proof (ODP)
NEMA Premium®† Efficient – IE3 *(continued)*

NEMA Premium

HP	RPM	Voltage	Frame	Catalog Number	Total Length	Ship Wt.	Full Load Eff.	Full Load Amps	Notes
7-1/2	900	208-230/460	256T	D7E4D	23 .2	160	88 .5	23 .9-22 .8/11 .4	02, 03, NNP
	900	575	256T	D7E4G	23 .2	160	88 .5	9 .7	02, NNP
10	3600	200	213T	D10P1H	16 .0	90	90 .2	28 .0	
	3600	208-230/460	213T	D10P1D	16 .0	90	90 .2	27 .1-24 .3/12 .2	3
	3600	575	213T	D10P1G	16 .0	90	90 .2	9 .7	
	1800	200	215T	D10P2H	17 .5	105	91 .7	28 .1	
	1800	208-230/460	215T	D10P2D	17 .5	105	91 .7	26 .3-23 .8/11 .9	3
	1800	575	215T	D10P2G	17 .5	105	91 .7	9 .8	
	1200	200	256T	D10P3H	23 .2	160	91 .7	29 .3	2
	1200	208-230/460	256T	D10P3D	22 .6	160	91 .7	27 .3-25 .5/12 .7	02, 03
	1200	575	256T	D10P3G	22 .0	160	91 .7	10 .2	2
	900	208-230/460	284T	D10E4D	24 .9	225	89 .5	31 .0-29 .2/14 .6	02, 03, NNP
	900	575	284T	D10E4G	24 .9	225	89 .5	12 .1	02, NNP
15	3600	200	215T	D15P1H	17 .5	105	90 .2	41	
	3600	208-230/460	215T	D15P1D	17 .5	105	91 .0	40 .0-36 .0/18 .0	3
	3600	575	215T	D15P1G	17 .5	105	90 .2	14 .6	
	1800	200	254T	D15P2H	22 .6	150	93 .0	42	2
	1800	208-230/460	254T	D15P2D	22 .6	150	93 .0	40 .0-37 .0/18 .3	02, 03
	1800	575	254T	D15P2G	22 .6	150	93 .0	14 .8	
	1200	200	284T	D15P3H	24 .9	225	91 .7	42 .0	2
	1200	208-230/460	284T	D15P3D	24 .9	225	91 .7	41 .0-37 .0/18 .5	02, 03
	1200	575	284T	D15P3G	24 .9	225	91 .7	14 .7	2
	900	200	286T	D15E4H	24 .9	250	89 .5	49	02, NNP
	900	208-230/460	286T	D15E4D	24 .9	250	89 .5	46-43/21 .4	02, 03, NNP
	900	575	286T	D15E4G	24 .9	250	89 .5	18	02, NNP
20	3600	200	254T	D20P1H	22 .6	150	91 .7	54	2
	3600	208-230/460	254T	D20P1D	22 .6	150	92 .4	52 .0-47 .0/23 .4	02, 03
	3600	575	254T	D20P1G	20 .0	150	91 .0	18 .7	
	1800	200	256T	D20P2H	22 .6	160	93 .0	56	2
	1800	208-230/460	256T	D20P2D	22 .6	160	93 .0	54-49/24 .4	02, 03
	1800	575	256T	D20P2G	22 .6	160	93 .0	19 .2	
	1200	200	286T	D20P3H	24 .9	250	92 .4	56 .0	2
	1200	208-230/460	286T	D20P3D	24 .9	250	92 .4	53-49/24 .3	02, 03
	1200	575	286T	D20P3G	24 .9	250	92 .4	19 .3	2
	900	208-230/460	324T	D20E4D	27 .3	385	90 .2	60-54/26 .9	02, 03, NNP
	900	575	324T	D20E4G	27 .3	385	90 .2	21 .5	02, NNP
25	3600	200	256T	D25P1H	23 .2	160	91 .7	66 .0	2
	3600	208-230/460	256T	D25P1D	22 .6	160	93 .0	63-57/28 .3	02, 03, 14
	3600	575	256T	D25P1G	22 .0	160	91 .7	22 .9	2
	1800	200	284T	D25P2H	24 .9	225	94 .1	67	2
	1800	208-230/460	284T	D25P2D	24 .9	225	93 .6	64-58/29	02, 03
	1800	575	284T	D25P2G	24 .9	225	94 .1	23	
	1800	200	284TS	D25P2HS	23 .5	225	93 .6	67	2
	1800	208-230/460	284TS	D25P2DS	23 .5	225	93 .6	64-58/29	02, 03

Note 02: Suitable for Wye-Delta start on voltages shown
Note 03: 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate
Note 14: NEMA®† Design A
Note NNP: Non-NEMA Premium®† Rating

General Purpose Three Phase, Open Drip-Proof (ODP)
NEMA Premium®† Efficient – IE3 *(continued)*

NEMA Premium

HP	RPM	Voltage	Frame	Catalog Number	Total Length	Ship Wt.	Full Load Eff.	Full Load Amps	Notes
25	1800	460	284TS	D25P2CS	23 .5	225	94 .1	29 .2	
	1800	575	284TS	D25P2GS	23 .5	225	93 .6	23 .1	2
	1200	200	324T	D25P3H	27 .3	385	93 .0	67	2
	1200	208-230/460	324T	D25P3D	27 .3	385	93 .0	65-59/29 .4	02, 03, 14
	1200	575	324T	D25P3G	27 .3	385	93	23 .5	2
	900	208-230/460	326T	D25E4D	27 .3	460	91 .0	74-67/33	02, 03, NNP
	900	575	326T	D25E4G	27 .3	460	90 .2	27	02, NNP
30	3600	200	284TS	D30P1HS	23 .5	225	93 .6	78	14
	3600	208-230/460	284TS	D30P1DS	23 .5	225	92 .4	79-68/34	02, 03
	3600	575	284TS	D30P1GS	23 .5	225	93 .0	27 .4	
	1800	200	286T	D30P2H	24 .9	250	94 .1	79	2
	1800	208-230/460	286T	D30P2D	24 .9	250	94 .1	77-69/34	02, 03
	1800	575	286T	D30P2G	24 .9	250	94 .1	27 .7	
	1800	200	286TS	D30P2HS	23 .5	250	94 .1	79	2
	1800	208-230/460	286TS	D30P2DS	23 .5	250	94 .1	77-69/34	02, 03
	1800	575	286TS	D30P2GS	23 .5	250	94 .1	27 .5	2
	1200	200	326T	D30P3H	27 .3	460	93 .6	81	2
	1200	208-230/460	326T	D30P3D	27 .3	460	93 .6	78-70/35	02, 03
	1200	575	326T	D30P3G	27 .3	460	93 .6	28	02, 14
	900	575	364T	D30E4G	28 .7	580	91 .0	30	02, NNP
40	3600	200	286TS	D40P1HS	23 .5	250	93 .6	103	02, 14
	3600	208-230/460	286TS	D40P1DS	23 .5	250	93 .6	100-90/45	02, 03, 14
	3600	575	286TS	D40P1GS	23 .5	250	93 .0	36	
	1800	200	324T	D40P2H	27 .3	385	94 .1	105	
	1800	208-230/460	324T	D40P2D	27 .3	385	94 .1	102-91/46	02, 03
	1800	575	324T	D40P2G	27 .3	385	94 .5	37	
	1800	200	324TS	D40P2HS	25 .8	385	94 .1	105	2
	1800	208-230/460	324TS	D40P2DS	25 .8	385	94 .1	102-91/46	02, 03
	1800	575	324TS	D40P2GS	25 .8	385	94 .1	37	2
	1200	230/460	364T	D40P3E	29 .0	580	94 .5	92/46	02, 03
	1200	575	364T	D40P3G	28 .7	580	94 .5	37	2
	900	230/460	365T	D40E4E	29 .7	600	91 .0	106/53	02, 03, NNP
	900	575	365T	D40E4G	29 .7	600	91 .7	42	02, NNP
50	3600	200	324TS	D50P1HS	26 .0	385	93 .0	134	2
	3600	208-230/460	324TS	D50P1DS	26 .0	385	93 .0	130-117/59	02, 03
	3600	575	324TS	D50P1GS	26 .0	385	93 .0	47	2
	1800	200	326T	D50P2H	27 .3	460	94 .5	130	2
	1800	208-230/460	326T	D50P2D	27 .3	460	94 .5	126-113/56	02, 03
	1800	575	326T	D50P2G	27 .3	460	94 .5	46	
	1800	200	326TS	D50P2HS	25 .8	460	94 .5	130	2
	1800	208-230/460	326TS	D50P2DS	25 .8	460	93 .6	126-113/56	02, 03
	1800	460	326TS	D50P2FS	25 .8	460	94 .5	56	02, 03
	1800	575	326TS	D50P2GS	25 .8	460	93 .0	52	2
	1200	230/460	365T	D50P3E	30	600	94 .5	115/57	02, 03
	1200	575	365T	D50P3G	29 .7	600	94 .5	46	2

Note 02: Suitable for Wye-Delta start on voltages shown
Note 03: 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate
Note 14: NEMA®† Design A
Note NNP: Non-NEMA Premium®† Rating

General Purpose Three Phase, Open Drip-Proof (ODP)
NEMA Premium®† Efficient – IE3 *(continued)*

NEMA Premium

HP	RPM	Voltage	Frame	Catalog Number	Total Length	Ship Wt.	Full Load Eff.	Full Load Amps	Notes
50	900	230/460	404T	D50E4E	32 .6	750	91 .7	132/66	02, 03, NNP
	900	575	404T	D50E4G	32 .6	750	92 .4	53	02, NNP
60	3600	200	326TS	D60P1HS	26	460	94 .1	156	2
	3600	208-230/460	326TS	D60P1DS	26	460	93 .6	152-136/68	02, 03
	3600	575	326TS	D60P1GS	26	460	93 .6	54	02, 14
	1800	230/460	364T	D60P2E	29	580	95 .0	138/69	02, 03
	1800	575	364T	D60P2G	29	580	95 .0	55	
	1800	230/460	364TS	D60P2ES	26 .6	580	95 .0	138/69	02, 03
	1800	460	364TS	D60P2FS	26 .6	580	95 .0	69	02, 03
	1800	575	364TS	D60P2GS	26 .6	580	95 .0	55	2
	1200	230/460	404T	D60P3E	33	750	95 .0	137/69	02, 03
	900	230/460	405T	D60E4E	34 .1	800	92 .4	158/79	02, 03, NNP
	900	575	405T	D60E4G	34 .1	800	92 .4	62	02, NNP
75	3600	230/460	364TS	D75P1ES	27 .3	580	94 .1	171/86	02, 03
	3600	575	364TS	D75P1GS	27 .3	580	94 .1	69	2
	1800	230/460	365T	D75P2E	30	600	95 .0	172/86	02, 03
	1800	575	365T	D75P2G	30	600	95 .0	69	
	1800	230/460	365TS	D75P2ES	27 .6	600	95 .0	172/86	02, 03
	1800	460	365TS	D75P2FS	27 .6	600	95 .0	86	02, 03
	1800	575	365TS	D75P2GS	27 .6	600	95 .0	69	2
	1200	230/460	405T	D75P3E	34	800	95 .0	172/86	02, 03
	1200	575	405T	D75P3G	34 .1	800	94 .5	69	2
	900	230/460	444T	D75E4E	37 .8	1100	93 .6	188/94	02, 03, NNP
	900	575	444T	D75E4G	37 .8	1100	94 .1	74	02, NNP
100	3600	230/460	365TS	D100P1ES	28	600	94 .5	225/112	02, 03
	3600	575	365TS	D100P1GS	28	600	94 .1	90	2
	1800	230/460	404T	D100P2E	33	750	95 .4	225/112	02, 03
	1800	575	404T	D100P2G	33	750	95 .4	90	2
	1800	230/460	404TS	D100P2ES	30	750	95 .4	225/112	02, 03
	1800	460	404TS	D100P2FS	29 .6	750	95 .4	112	02, 03
	1800	575	404TS	D100P2GS	29 .6	750	95 .4	90	2
	1200	230/460	444T	D100P3E	37 .8	1100	95 .4	242/121	02, 03
	1200	460	444T	D100P3C	38	1100	95 .4	121	
	1200	575	444T	D100P3G	37 .8	1100	95 .0	98	2
	900	230/460	445T	D100E4E	39 .8	1200	93 .6	246/123	02, 03, NNP
	900	575	445T	D100E4G	39 .8	1200	94 .1	98	02, NNP
125	3600	460	404TS	D125P1FS	30	750	95 .0	136	02, 03
	3600	575	404TS	D125P1GS	30	750	94 .5	109	2
	1800	460	405T	D125P2F	34	800	95 .4	140	02, 03
	1800	575	405T	D125P2G	34	800	95 .4	112	
	1800	460	405TS	D125P2FS	31 .1	800	95 .4	140	02, 03
	1800	575	405TS	D125P2GS	31 .1	800	95 .4	112	2
	1200	460	445T	D125P3F	40	1200	95 .4	151	02, 03
	1200	575	445T	D125P3G	39 .8	1200	95 .4	121	2
	900	460	445T	D125E4F	39 .8	1200	93 .6	155	02, 03, NNP
	900	575	445T	D125E4G	39 .8	1200	93 .6	124	02, NNP

Note 02: Suitable for Wye-Delta start on voltages shown
Note 03: 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate
Note 14: NEMA®† Design A
Note NNP: Non-NEMA Premium®† Rating

General Purpose Three Phase, Open Drip-Proof (ODP)
NEMA Premium®† Efficient – IE3 *(continued)*

HP	RPM	Voltage	Frame	Catalog Number	Total Length	Ship Wt.	Full Load Eff.	Full Load Amps	Notes
150	3600	460	405TS	D150P1FS	31	800	94 .5	164	
	3600	575	405TS	D150P1GS	31	800	94 .1	131	
	1800	460	444T	D150P2F	38	1100	96 .2	169	14
	1800	575	444T	D150P2G	38	1100	95 .8	136	14
	1800	460	444TS	D150P2FS	34	1100	95 .8	168	02, 03, 14
	1800	575	444TS	D150P2GS	34	1100	95 .8	134	02, 14
	1200	460	445T	D150P3F	40	1200	95 .8	190	02, 03
	900	460	447T	D150E4F	43 .3	1700	94 .1	183	02, 03, NNP
	900	575	447T	D150E4G	43 .3	1700	94 .1	146	02, NNP
200	3600	460	444TS	D200P1FS	34	1100	95 .0	228	02, 03
	3600	575	444TS	D200P1GS	34	1100	95	181	2
	1800	460	445T	D200P2F	40	1200	96 .2	231	
	1800	575	445T	D200P2G	40	1200	95 .8	188	
	1800	460	445TS	D200P2FS	36	1200	96 .2	231	02, 03
	1800	575	445TS	D200P2GS	36	1200	95 .8	188	2
	1200	460	447T	D200P3F	43	1700	95 .4	250	02, 03
	1200	575	445T	D200P3G	39 .8	1700	95 .4	205	2
	900	460	449T	D200E4F	48 .3	2000	93 .6	255	02,03,57,NNP
250	3600	460	445TS	D250P1FS	36	1200	95 .4	282	02, 03
	3600	575	445TS	D250P1GS	36	1200	95	223	2
	3600	460	445TS	D250E1FS	36 .0	1200	95 .0	281	02, 03, NNP
	1800	460	445T	D250E2F	39 .8	1200	95 .4	277	02, 03, NNP
	1800	575	445T	D250E2G	39 .8	1200	95 .4	221	02, NNP
	1800	460	445TS	D250E2FS	36 .0	1200	95 .4	277	02, 03, NNP
	1800	575	445TS	D250E2GS	36 .0	1200	95 .4	221	02, NNP
	1800	460	447T	D250P2F	43	1700	96 .2	286	02, 03
	1800	575	447T	D250P2G	39 .8	1700	95 .8	228	2
	1800	460	447TS	D250P2FS	36	1700	95 .8	284	02, 03
	1800	575	447TS	D250P2GS	36	1700	95 .8	228	2
	1200	575	447T	D250P3G	43 .3	1700	95 .4	228	2
300	3600	460	445TS	D300E1FS	36 .0	1200	95 .4	326	02, 03, NNP
	1800	460	447T	D300E2F	43 .3	1700	95 .4	329	02, 03, NNP
	1800	460	447TS	D300E2FS	39 .5	1700	95 .4	329	02, 03, NNP
	1800	575	447TS	D300E2GS	39 .5	1700	95 .4	263	02, NNP
350	3600	460	447TS	D350E1FS	39 .5	1700	95 .4	377	02, 03, NNP
	1800	460	447T	D350E2F	43 .3	1700	95 .8	383	02, 03, NNP
	1800	460	447TS	D350E2FS	39 .5	1700	95 .8	383	02, 03, NNP
400	3600	460	449TS	D400E1FS	44 .5	2000	95 .4	434	NNP
	1800	460	449TM	D400E2F	44 .5	2000	95 .8	441	02,03,57,NNP

Note 02: Suitable for Wye-Delta start on voltages shown
Note 03: 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate
Note 14: NEMA®† Design A
Note 57: Not suitable for belted applications
Note NNP: Non-NEMA Premium®† Rating

General Purpose Three Phase, Open Drip-Proof (ODP) Energy Efficient, Resilient Base

APPLICATIONS:

For use on pumps, fans, compressors, material handling and other general purpose applications where contaminants are minimal.

FEATURES:

- Rolled Steel Frame
- Aluminum End Shields
- 40°C Ambient
- F1 Assembly Position
- Motors Do Not Include World Motor® Features

HP	RPM	Voltage	Frame	Catalog Number	SF	Total Length	Ship Wt.	Full Load Amps	Notes
1/3	1800	208-230/460	56	D13S2A9	1 .35	11 .8	20	1 .4-1 .4/0 .7	
1/2	1800	208-230/460	56	D12S2A9	1 .25	11 .9	22	1 .98-1 .9/ .98	
3/4	1800	208-230/460	56	D34S2A9	1 .25	12 .3	23	2 .8-2 .7/1 .4	
1	1800	208-230/460	56H	D1S2AH9	1 .25	12 .8	27	3 .2-3 .0/1 .5	
1 1/2	3600	208-230/460	56H	D32SA1AH9	1 .15	12 .8	26	4 .7-4 .4/2 .2	
	1800	208-230/460	56H	D32S2AH9	1 .25	12 .8	29	4 .9-5 .0/2 .5	

General Purpose Three Phase Open Drip-Proof (ODP) Energy Efficient, C-Face

APPLICATIONS:

For use on pumps, fans, compressors, material handling and other general purpose applications where contaminants are minimal.

FEATURES:

- World Motor® Features Except Where Noted
- Rolled Steel Frame
- Aluminum End Shields
- 40°C Ambient, NEMA®† Design B Performance On 60 Hz Sine Wave Power
- Full HP @ 50 Hz
- Double Shielded Bearings
- F1 Assembly Position

HP	RPM	Voltage	Frame	Catalog Number	Mounting	SF	Total Length	Ship Wt.	Full Load Amps	Notes
3/4	3600	208-230/460	56C	EE508	Footless	1 .50	11 .3	25	2 .7-2 .8/1 .4	3
	1800	208-230/460	56C	D34S2ACR	Footless	1 .25	11 .4	22	2 .8-2 .7/1 .4	
	1200	208-230/460	56C	D34S3DCR	Footless	1 .15	12 .0	30	3 .4-3 .5/1 .7	26
1	3600	208-230/460	56C	EE511	Footless	1 .40	11 .6	26	3 .5-3 .4/1 .7	3
	3600	208-230/460	56C	EE511B	Footed	1.40	11.1	26	3.5-3.4/1.7	3
	1800	208-230/460	56HC	D1S2AHC	Footed	1 .25	12 .0	28	3 .2-3 .0/1 .5	
1-1/2	3600	208-230/460	56C	EE609	Footless	1 .30	11 .4	27	4 .4-4 .3/2 .2	3
	3600	208-230/460	56C	D32S1AHC	Footed	1 .15	11 .9	27	4 .7-4 .4/2 .2	26
	1800	208-230/460	56C	D32S2ACR	Footless	1 .25	12 .4	32	4 .9-5 .0/2 .5	3
2	3600	208-230/460	56C	EE612	Footless	1 .20	11 .9	33	5 .5-5 .1/2 .5	
	3600	208-230/460	56C	D2S1AHC	Footed	1 .15	11 .9	33	6 .0-5 .4/2 .7	
	1800	208-230/460	56C	EE708	Footless	1 .15	13 .1	38	6 .2-5 .8/2 .9	
3	3600	208-230/460	56C	EE736	Footless	1 .15	12 .9	35	7 .9-7 .6/3 .8	

Note 03: 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note 26 : Does not include World Motor® features

General Purpose Three Phase, Totally Enclosed, Fan Cooled (TEFC) UNIMOUNT® NEMA Premium®† Efficient – IE3

NEMA Premium

APPLICATIONS:

For general industrial equipment including fans, blowers, compressors, pumps and direct connected equipment.

FEATURES:

- World Motor® Features, Except Where Noted
- Class F Insulation, Class B Rise at Full Load On 60 Hertz Sine Wave Power
- Aluminum Frame (180-280), Rolled Steel (56-140)
- "CE" Mark on Nameplate (140 Frame & Larger)
- Shaft Slinger on Pulley End
- Full 50 & 60 Hertz Operating Data on Nameplate (03)
- Full HP @ 50 Hz
- Field Convertible to F2 Assembly (180 Frame & Up)
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- Regreasable Shaft-End Bearings 180 Frame & Up
- Sealed Bearings 56-140 Frame, Double Shielded 180-280 Frame
- Suitable for Wye-Delta Start 250 Frame & Larger
- Dual Voltage Ratings Suitable for Part Winding Start (PWS) on Low Voltage
- Lifting Provisions 180 Frame & Up
- Inverter Suitable 10:1 Variable Torque, 4:1 Constant Torque
- Conversion Kits: Drip Cover & Brakes (56-210 Frame)

HP	RPM	Voltage	Frame	Catalog Number	SF	Total Length	Ship Wt.	Full Load Eff.	Full Load Amps	Notes
1/4	1800	208-230/460	56	T14S2A	1.15	10.9	17	-	1.1-1.1/.5	03, 19, NNP
	1200	208-230/460	56	T14S3A	1.15	11.9	17	-	1.4-1.5/.76	NNP
1/3	1800	208-230/460	56	T13S2A	1.15	11.4	20	-	1.3-1.3/0.6	03, NNP
1/2	3600	208-230/460	48	T12S1D4	1.00	10.7	19	-	1.8-1.8/1.0	03, NNP
	3600	208-230/460	56	T12S1A	1.15	10.9	20	-	2.0-2.0/1.0	03, NNP
	1800	208-230/460	56	T12S2A	1.15	11.9	21	-	1.8-1.8/0.9	03, NNP
	1800	575	56	T12S2G	1.15	11.3	23	-	0.80	03, NNP
	1200	208-230/460	56	T12S3A	1.15	11.9	23	-	2.2-2.3/1.1	NNP
	1200	575	56	T12S3G	1.15	11.9	26	-	0.85	NNP
3/4	3600	208-230/460	56	T34S1A	1.15	11.9	22	-	2.5-2.5/1.2	03, NNP
	1800	208-230/460	56	T34S2A	1.15	11.9	23	-	3.0-3.0/1.5	03, NNP
	1800	575	56	T34S2G	1.15	12.5	25	-	1.1	37, NNP
	1200	208-230/460	143T	T34S3B14	1.15	12.8	30	75.5	3.4-3.5/1.7	NNP
	1200	208-230/460	56H	T34S3AH	1.15	12.9	31	-	3.1-3.2/1.6	NNP
1	3600	208-230/460	56	T1P1A	1.15	11.9	23	-	3.4-3.2/1.6	03, NNP
	3600	208-230/460	56	U1E1D	1.25	12.5	32	-	3.1-2.7/1.4	03, NNP
	3600	575	56	U1E1G	1.25	12.5	32	-	1.2	NNP
	1800	208-230/460	56H	T1S2AH	1.15	12.4	30	-	3.3-3.2/1.5	NNP
	1800	200	143T	U1P2H	1.25	12.8	35	85.5	3.4	
	1800	208-230/460	143T	U1P2D	1.25	12.8	76	85.5	3.1-3/1.5	3
	1800	575	56H	T1S2GH	1.15	12.4	26	-	1.3	NNP
	1800	575	143T	U1P2G	1.25	12.8	40	85.5	1.1	
	1200	208-230/460	56H	T1S3A	1.15	13.4	32	-	3.7-3.8/1.9	03, NNP
	1200	200	145T	U1P3H	1.25	12.8	40	82.5	4.1	
	1200	208-230/460	145T	U1P3D	1.25	12.8	40	82.5	3.6-3.5/1.8	3
	1200	575	145T	U1P3G	1.25	12.8	40	82.5	1.4	
	900	208-230/460	182T	U1E4D	1.25	12.8	60	74.0	4.4-4.7/2.4	03, NNP
1-1/2	3600	208-230/460	56H	T32S1AH	1.15	12.3	26	-	4.7-4.5/2.2	03, NNP
	3600	200	143T	U32P1H	1.25	12.8	35	84.0	4.4	
	3600	208-230/460	143T	U32P1D	1.25	12.8	35	84.0	4.2-3.9/1.9	3
	3600	575	143T	U32P1G	1.25	12.8	35	84.0	1.6	
	1800	200	145T	U32P2H	1.25	12.8	40	86.5	4.7	

Note 03: 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note 19: Also rated for 190/380, 220/415 volt 50 Hz at 1.0 Service Factor
Note 37: Q-3 leads for across-the-line start
Note NNP: Non-NEMA Premium®† Rating

General Purpose Three Phase, Totally Enclosed, Fan Cooled (TEFC) UNIMOUNT® NEMA Premium®† Efficient – IE3

NEMA Premium

(continued)

HP	RPM	Voltage	Frame	Catalog Number	SF	Total Length	Ship Wt.	Full Load Eff.	Full Load Amps	Notes
1-1/2	1800	208-230/460	145T	U32P2D	1.25	12.8	40	86.5	4.5-4.3/2.1	3
	1800	575	145T	U32P2G	1.25	12.8	40	86.5	1.7	
	1800	208-230/460	56H	T32S2AH	1.15	12.9	34	-	5.1-5.2/2.6	NNP
	1200	208-230/460	56	T32S3AH	1.15	14.4	41	-	5.4-5.3/2.6	NNP
	1200	200	182T	U32P3H	1.25	16.1	64	87.5	5.4	
	1200	208-230/460	182T	U32P3D	1.25	16.1	60	87.5	4.8-4.7/2.3	3
	1200	575	182T	U32P3G	1.25	16.1	60	87.5	1.8	
	1200	208-230/460	182T	S32P3A	1.25	14.9	60	87.5	5.1-5.2/2.6	04,16,26,RS
	900	208-230/460	184T	U32E4D	1.25	12.8	70	78.5	6.2-6.6/3.3	03, NNP
2	3600	200	145T	U2P1H	1.25	12.8	40	85.5	6.3	
	3600	208-230/460	145T	U2P1D	1.25	12.8	40	85.5	5.4-4.9/2.5	3
	3600	575	145T	U2P1G	1.25	12.8	40	85.5	2	
	3600	208-230/460	145T	T2P2AHZ	1.25	12.8	40	85.5		
	3600	208-230/460	56H	T2S1AH	1.15	12.4	33	-	6.0-5.4/2.7	NNP
	3600	208-230/460	56HZ	T2E1AHZ	1.25	13.3	32	-	6.3-6.1/3.1	NNP
	3600	575	56H	T2S1G	1.15	12.4	31	-	2.3	NNP
	1800	208-230/460	56H	T2S2AH	1.15	12.9	36	-	7.2-7.1/3.4	NNP
	1800	208-230/460	56HZ	T2E2AHZ	1.25	13.8	36	-	6-5.9/3	NNP
	1800	200	145T	U2P2H	1.25	12.8	45	86.5	6.2	
	1800	208-230/460	145T	U2P2D	1.25	12.8	45	86.5	5.9-5.7/2.8	3
	1800	575	145T	U2P2G	1.25	12.8	45	86.5	2.3	
	1200	200	184T	U2P3H	1.25	16.9	74	88.5	7.2	
	1200	208-230/460	184T	U2P3D	1.25	16.1	70	88.5	6.4-6.2/3.1	3
	1200	575	184T	U2P3G	1.25	16.1	70	88.5	2.5	
	1200	208-230/460	184T	S2P3A	1.15	15.9	70	88.5	6.4-6.2/3.1	04,16,26,RS
	900	208-230/460	213T	U2E4D	1.25	18.6	90	82.5	7.9-7.6/3.8	03, NNP
3	3600	200	145T	U3P1HF	1.25	13.8	53	86.5	8.8	
	3600	200	182T	U3P1H	1.25	16.1	60	86.5	8.8	
	3600	208-230/460	145T	U3P1DF	1.25	13.8	73	88.5	-	3
	3600	208-230/460	182T	U3P1D	1.25	16.1	60	88.5	8.4-7.8/3.9	3
	3600	575	145T	U3P1GF	1.25	13.8	63	87.5	-	
	3600	575	182T	U3P1G	1.25	16.1	60	87.5	3.1	
	3600	208-230/460	182T	S3P1A	1.15	14.9	60	86.5	8.4-7.7/3.9	04,16,26,RS
	1800	208-230/460	182T	S3P2A	1.15	14.9	60	89.5	8.4-7.8/3.9	04,16,26,RS
	1800	200	182T	U3P2H	1.25	16.1	60	89.5	9.1	
	1800	208-230/460	182T	U3P2D	1.25	60.0	89.5	89.5	8.4-7.8/3.9	3
	1800	575	182T	U3P2G	1.25	16.1	60	89.5	3.2	
	1200	200	213T	U3P3H	1.25	18.6	105	89.5	9.9	
	1200	208-230/460	213T	U3P3D	1.25	18.6	110	89.5	9.3-8.6/4.3	3
	1200	575	213T	U3P3G	1.25	18.6	110	89.5	3.4	
	1200	208-230/460	213T	S3P3A	1.15	18.9	105	89.5	9.2-8.6/4.3	04,16,26,RS

Note 03: 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate
Note 04: On 60 Hertz Sine Wave power
Note 16: Motors marked 208-230/460 volts may not meet all NEMA (MG-1) performance standards when operated at 208 volts
Note 26: Does not include World Motor® features
Note NNP: Non-NEMA Premium®† Rating
Note RS: Rolled Steel Frame

General Purpose Three Phase, Totally Enclosed, Fan Cooled (TEFC) UNIMOUNT® NEMA Premium®† Efficient – IE3

NEMA Premium

(continued)

HP	RPM	Voltage	Frame	Catalog Number	SF	Total Length	Ship Wt.	Full Load Eff.	Full Load Amps	Notes
3	900	208-230/460	215T	U3E4D	1 .25	20 .1	125	84 .0	11 .7-11 .1/5 .5	03,NNP
5	3600	200	184T	U5P1H	1 .25	16 .9	70	89 .5	14 .0	
	3600	208-230/460	184T	U5P1D	1 .25	16 .9	75	89 .5	13 .4-12 .2/6 .1	3
	3600	575	184T	U5P1G	1 .25	16 .1	75	89 .5	4 .9	
	3600	208-230/460	184T	S5P1A	1 .15	15 .9	70	88 .5	13 .6-12 .1/6 .1	04, 16, 26
	1800	208-230/460	184T	S5P2A	1 .15	15 .9	70	89 .5	13 .5-12 .5/6 .2	04, 16, 26
	1800	200	184T	U5P2H	1 .25	16 .9	70	89 .5	14 .1	
	1800	208-230/460	184T	U5P2D	1 .25	16 .9	70	90 .2	13 .6-12 .3/6 .2	3
	1800	575	184T	U5P2G	1 .25	16 .9	70	89 .5	5 .1	
	1200	208-230/460	215T	S5P3A	1 .15	18 .7	120	89 .5	5 .0-14 .1/7 .0	04, 16, 26
	1200	200	215T	U5P3H	1 .25	20 .1	135	89 .5	15 .9	
	1200	208-230/460	215T	U5P3D	1 .25	20 .1	135	90 .2	15-14/7	3
	1200	575	215T	U5P3G	1 .25	20 .1	135	89 .5	5 .6	
	900	200	254T	U5E4H	1 .25	23 .9	180	85 .5	17 .3	NNP
	900	208-230/460	254T	U5E4D	1 .25	23 .9	180	85 .5	16 .4-15 .4/7 .7	03,NNP
	900	575	254T	U5E4G	1 .25	23 .9	180	86 .5	6 .1	NNP
7-1/2	3600	200	213T	U7P1H	1 .25	18 .6	105	90 .2	20 .6	
	3600	208-230/460	213T	U7P1D	1 .25	18 .6	100	91 .7	19 .7-17 .9/8 .9	3
	3600	575	213T	U7P1G	1 .25	18 .6	100	89 .5	7 .5	
	3600	208-230/460	213T	S7P1A	1 .15	18 .9	105	89 .5	19 .9-17 .9/9 .0	04, 16, 26
	3600	208-230/460	213T	U7P1AF	1 .25	16 .9	70	89 .5	19 .5-17 .1/8 .9	
	1800	208-230/460	213T	S7P2A	1 .15	18 .9	105	91 .7	20 .0-18 .1/9 .1	04, 16, 26
	1800	200	213T	U7P2H	1 .25	18 .6	105	91 .7	20 .8	
	1800	208-230/460	213T	U7P2D	1 .25	18 .6	110	91 .7	20-18 .2/9 .1	3
	1800	575	213T	U7P2G	1 .25	18 .6	110	91 .7	7 .2	
	1200	200	254T	U7P3H	1 .25	23 .9	180	91 .0	21 .8	
	1200	208-230/460	254T	U7P3D	1 .25	23 .9	200	91 .7	20 .2/10 .1	3
	1200	575	254T	U7P3G	1 .25	23 .9	200	91 .0	8 .3	
	900	208-230/460	256T	U7E4D	1 .25	25 .6	300	86 .5	23 .8-22 .2/11 .1	03,NNP
	900	575	256T	U7E4G	1 .25	25 .6	300	86 .5	8 .8	NNP
10	3600	200	215T	U10P1H	1 .25	20 .1	120	90 .2	27	
	3600	208-230/460	215T	U10P1D	1 .25	20 .1	125	91 .7	26 .4-23 .5/11 .8	3
	3600	575	215T	U10P1G	1 .25	20 .1	125	91 .7	9 .4	
	3600	208-230/460	215T	S10P1A	1 .15	18 .9	120	90 .2	26 .5-23 .5/11 .7	04, 16, 26
	1800	208-230/460	215T	S10P2A	1 .15	18 .9	120	91 .7	26 .5-23 .9/11 .9	04, 16, 26
	1800	200	215T	U10P2H	1 .25	20 .1	135	91 .7	27 .5	
	1800	208-230/460	215T	U10P2D	1 .25	20 .1	133	91 .7	26 .5-23 .9/12	3
	1800	575	215T	U10P2G	1 .25	20 .1	135	91 .7	9 .6	
	1200	200	256T	U10P3H	1 .25	25 .6	210	91 .7	28 .2	
	1200	208-230/460	256T	U10P3D	1 .25	25 .6	250	91 .7	25/12 .5	3
	1200	575	256T	U10P3G	1 .25	25 .6	210	91 .7	9 .8	

Note 03: 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note 04: On 60 Hertz Sine Wave power

Note 16: Motors marked 208-230/460 volts may not meet all NEMA (MG-1) performance standards when operated at 208 volts

Note 26: Does not include World Motor® features

Note NNP: Non-NEMA Premium®† Rating

General Purpose Three Phase, Totally Enclosed, Fan Cooled (TEFC) UNIMOUNT® NEMA Premium®† Efficient – IE3

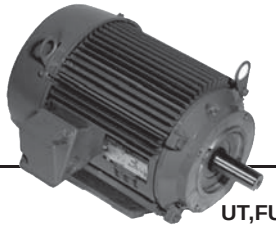
NEMA Premium

(continued)

HP	RPM	Voltage	Frame	Catalog Number	SF	Total Length	Ship Wt.	Full Load Eff.	Full Load Amps	Notes
15	3600	200	254T	U15P1H	1 .25	23 .9	190	91 .0	40	
	3600	208-230/460	215T	U15P1AF	1 .25	21 .6	140	91 .0	39-35/17 .7	
	3600	208-230/460	254T	U15P1D	1 .25	23 .6	185	91 .0	39-35/17 .7	3
	3600	575	254T	U15P1G	1 .25	23 .6	185	91 .0	14 .1	
	1800	200	254T	U15P2H	1 .25	23 .9	190	92 .4	42	
	1800	208-230/460	254T	U15P2D	1 .25	23 .6	240	92 .4	40-37/18 .4	3
	1800	575	254T	U15P2G	1 .25	23 .6	240	92 .4	14 .6	
20	3600	200	256T	U20P1H	1 .25	25 .6	210	91 .7	53	
	3600	208-230/460	256T	U20P1D	1 .25	25 .6	220	91 .7	51-46/22 .9	3
	3600	575	256T	U20P1G	1 .25	25 .6	220	91 .7	18 .3	
	1800	200	256T	U20P2H	1 .25	25 .6	230	93 .0	54	
	1800	208-230/460	256T	U20P2D	1 .25	25 .6	250	93 .0	53-47/23 .7	3
	1800	575	256T	U20P2G	1 .25	25 .6	250	93 .0	19	
25	3600	208-230/460	284T	U25P1D	1 .25	28 .3	280	91 .7	56 .8/28 .4	
	3600	208-230/460	284TS	U25P1DS	1 .25	26 .9	280	91 .7	56 .8/28 .4	
	3600	575	284T	U25P1G	1 .25	28 .3	280	91 .7	22 .7	
	3600	575	284TS	U25P1GS	1 .25	26 .9	280	91 .7	22 .7	
	3600	200	284T	U25P1H	1 .25	28 .3	280	91 .7	65 .0	
	3600	200	284TS	U25P1HS	1 .25	26 .9	280	91 .7	65 .0	
	1800	208-230/460	284T	U25P2D	1 .25	28 .3	280	93 .6	58 .6/29 .3	
	1800	208-230/460	284TS	U25P2DS	1 .25	26 .9	280	93 .6	58 .6/29 .3	
	1800	575	284T	U25P2G	1 .25	28 .3	280	93 .6	23 .4	
	1800	575	284TS	U25P2GS	1 .25	26 .9	280	93 .6	23 .4	
	1800	200	284T	U25P2H	1 .25	28 .3	280	93 .6	67 .0	
	1800	200	284TS	U25P2HS	1 .25	26 .9	280	93 .6	67 .0	
30	1800	208-230/460	286T	U30P2D	1 .25	28 .3	300	93 .6	70 .0/35 .0	
	1800	208-230/460	286TS	U30P2DS	1 .25	26 .9	300	93 .6	70 .0/35 .0	
	1800	575	286T	U30P2G	1 .25	28 .3	300	93 .6	28 .1	
	1800	575	286TS	U30P2GS	1 .25	26 .9	300	93 .6	28 .1	
	1800	200	286T	U30P2H	1 .25	28 .3	300	93 .6	81 .0	
	1800	200	286TS	U30P2HS	1 .25	26 .9	300	93 .6	81 .0	

Note 03: 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC)
UNIMOUNT® NEMA®† Premium Efficient – IE3, C-Face Footed NEMA Premium



UT,FUT
UTE

APPLICATIONS:

For use on pumps, fans, compressors, material handling, and other general purpose applications in damp, dusty or dirty environments.

FEATURES:

- WORLDMOTOR® Features Except Where Noted
- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- "CE" Mark On Nameplate
- Shaft Slinger On Pulley End
- Full 50 & 60 Hertz Operating Data On Nameplate (03)
- Full HP @ 50 Hertz
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- Sealed Bearings (140 Frame); Double Shielded Bearings (180 Frame and Up)
- Dual Voltage Ratings Suitable For Part Winding Start (PWS) On Low Voltage
- Suitable For Wye-Delta Start 250 Frame & Larger
- Conversion Kits: C&D Flanges, Drip Cover and Brakes

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
1 1/2	1200	208-230/460	182TC	U32P3DC	$845	DS-3AL	1.25	16.2	60	87.5	4.8-4.7/2.3	
	1200	575	182TC	U32P3GC	$845	DS-3AL	1.25	16.2	60	87.5	1.8	
2	1200	208-230/460	184TC	U2P3DC	$930	DS-3AL	1.25	16.9	70	88.5	6.4-6.2/3.1	
3	3600	208-230/460	182TC	U3P1DC	$860	DS-3AL	1.25	16.2	50	87.5	8.4-7.8/3.9	
	3600	208-230/460	182TCH	U3P1DK	$860	DS-3AL	1.25	16.2	50	87.5	8.4-7.8/3.9	
	1800	208-230/460	182TC	U3P2DC	$772	DS-3AL	1.25	16.2	70	89.5	8.4-7.8/3.9	
	1800	208-230/460	182TCH	U3P2DK	$772	DS-3AL	1.25	16.2	60	89.5	8.4-7.8/3.9	
	1800	575	182TC	U3P2GC	$772	DS-3AL	1.25	16.2	60	89.5	3.2	
	1200	208-230/460	213TC	U3P3DC	$1,150	DS-3AL	1.25	18.8	110	89.5	9.3-8.6/4.3	
5	3600	208-230/460	184TC	U5P1DC	$1,056	DS-3AL	1.25	16.2	75	88.5	13.4-12.2/6.1	
	3600	208-230/460	184TCH	U5P1DK	$1,056	DS-3AL	1.25	16.2	75	88.5	13.4-12.2/6.1	
	1800	200	184TCH	U5P2HK	$882	DS-3AL	1.25	16.9	80	89.5	14.2	
	1800	208-230/460	184TC	U5P2DC	$882	DS-3AL	1.25	16.9	80	90.2	13.6-12.3/6.2	
	1800	208-230/460	184TCH	U5P2DK	$882	DS-3AL	1.25	16.9	80	90.2	13.6-12.3/6.2	
	1800	575	184TC	U5P2GC	$882	DS-3AL	1.25	16.9	70	89.5	5	
	1200	208-230/460	215TC	U5P3DC	$1,597	DS-3AL	1.25	20.3	135	90.2	15-14/7	
	1200	575	215TC	U5P3GC	$1,597	DS-3AL	1.25	20.3	135	89.5	5.6	
7 1/2	3600	208-230/460	213TC	U7P1DC	$1,306	DS-3AL	1.25	18.8	105	91.0	19.9-17.8/8.9	03
	3600	575	213TC	U7P1GC	$1,306	DS-3AL	1.25	18.8	105	89.5	7.5	
	1800	208-230/460	213TC	U7P2DC	$1,192	DS-3AL	1.25	18.8	105	91.7	20-18.2/9.1	
	1200	208-230/460	254TC	U7P3DC	$2,147	DS-3AL	1.25	24.0	180	91.0	20.6-19/9.5	
10	3600	208-230/460	215TC	U10P1DC	$1,511	DS-3AL	1.25	20.3	125	91.7	26.4-23.5/11.8	
	3600	575	215TC	U10P1GC	$1,511	DS-3AL	1.25	20.1	125	91.7	9.4	
	1800	208-230/460	215TC	U10P2DC	$1,416	DS-3AL	1.25	20.3	133	91.7	26.5-23.9/12	
	1800	575	215TC	U10P2GC	$1,416	DS-3AL	1.25	20.3	133	91.7	9.6	
	1200	208-230/460	256TC	U10P3DC	$2,558	DS-3AL	1.25	25.8	250	91.7	27.1-24.6/12.3	
15	3600	208-230/460	215TC	U15P1DFC	$1,812	DS-3AL	1.25	21.5	125	91.0	39-35/17.6	
	3600	208-230/460	254TC	U15P1DC	$2,174	DS-3AL	1.25	24.0	180	91.0	39-35/17.3	02,03
	3600	575	254TC	U15P1GC	$2,174	DS-3AL	1.25	24.0	185	91.0	13.9	
	1800	208-230/460	254TC	U15P2DC	$1,973	DS-3AL	1.25	24.0	240	92.4	40-37/18.4	
20	3600	208-230/460	256TC	U20P1DC	$2,650	DS-3AL	1.25	25.8	230	91.0	53-46/23	02,03
	3600	575	256TC	U20P1GC	$2,650	DS-3AL	1.25	25.8	230	91.0	18.5	02
	1800	208-230/460	256TC	U20P2DC	$2,391	DS-3AL	1.25	25.8	250	93.0	53-47/23.7	
25	3600	208-230/460	284TC	U25P1DC	$3,268	DS-3AL	1.15	28.3	250	91.7	65-57/28.4	
	1800	208-230/460	284TC	U25P2DC	$2,890	DS-3AL	1.15	28.3	290	93.6	65-59/29.3	
30	1800	208-230/460	286TC	U30P2DC	$3,333	DS-3AL	1.25	28.4	325	93.6	78-73/36	

Note 02 Suitable for Wye-Delta start on voltages shown
Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Definite Purpose Three Phase, UNIMOUNT® Totally Enclosed Fan Cooled (TEFC) Multi-Speed

UT

APPLICATIONS:

For applications requiring more than one standard speed.

FEATURES:

- Class F Insulation
- Extruded Aluminum Frame (140: Rolled Steel)
- Aluminum End Shields With Steel Bearing Inserts
- 40°C Ambient
- Regreasable Bearings 250 Frame & Up
- Double Shielded Bearings
- Removable Base 180 Frame & Up
- Lifting Provisions 180 Frame & Up
- Conversion Kits: C&D Flanges
- 1.0 Service Factor Or Higher

Variable Torque, 1800/900 RPM, One Winding

HP (HP-Low)	RPM/RPM-Low (# Wdgs)	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
1 (1/4)	1800/900(1)	460	143T	U1L9C	$700	DS-3MS	1.25	12.8	34	78.5	1.6	
1 1/2 (3/8)	1800/900(1)	460	145T	U32L9C	$770	DS-3MS	1.25	12.8	34	78.5	2.4	
2 (1/2)	1800/900(1)	460	145T	U2L9C	$850	DS-3MS	1.25	13.8	42	81.5	3	
3 (3/4)	1800/900(1)	460	182T	U3L9C	$884	DS-3MS	1.25	16.1	52	80.0	4.4	
5 (1-1/4)	1800/900(1)	460	184T	U5L9C	$1,234	DS-3MS	1.15	16.9	60	84.0	7	
7 1/2 (1-7/8)	1800/900(1)	460	213T	U7L9C	$1,532	DS-3MS	1.25	18.6	102	87.5	9.5	
10 (2-1/2)	1800/900(1)	460	215T	U10L9C	$1,936	DS-3MS	1.15	20.1	130	84.0	13	
15 (3-3/4)	1800/900(1)	460	254T	U15L9C	$2,544	DS-3MS	1.25	23.9	222	87.5	18.6	
20 (5)	1800/900(1)	460	256T	U20L9C	$3,166	DS-3MS	1.15	25.6	242	87.5	24.4	
25/ (6-1/4)	1800/900(1)	460	286T	U25L9C	$3,730	DS-3MS	1.15	28.3	262	87.5	30	

Constant Torque, 1800/900 RPM, One Winding

HP (HP-Low)	RPM/RPM-Low (# Wdgs)	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
1 (1/2)	1800/900(1)	460	145T	U1R9C	$846	DS-3MS	1.25	13.8	42	81.5	1.5	
1 1/2 (3/4)	1800/900(1)	460	182T	U32R9C	$928	DS-3MS	1.25	16.1	58	80.0	2.2	
2 (1)	1800/900(1)	460	182T	U2R9C	$1,026	DS-3MS	1.25	16.1	40	80.0	2.8	
3 (1-1/2)	1800/900(1)	460	184T	U3R9C	$1,065	DS-3MS	1.15	16.1	67	78.5	4.1	
5 (2-1/2)	1800/900(1)	460	215T	U5R9C	$1,490	DS-3MS	1.25	20.1	112	82.5	6.6	
7 1/2 (3-3/4)	1800/900(1)	460	254T	U7R9C	$1,851	DS-3MS	1.15	23.9	190	84.0	9.6	
10 (5)	1800/900(1)	460	256T	U10R9C	$2,338	DS-3MS	1.00	25.6	238	84.0	12.7	
15 (7-1/2)	1800/900(1)	460	284T	U15R9C	$3,068	DS-3MS	1.25	28.3	262	85.5	18.6	
20 (10)	1800/900(1)	460	286T	U20R9C	$3,820	DS-3MS	1.15	28.3	262	85.5	24.7	

Constant Torque, 1800/1200 RPM, Two Winding

HP (HP-Low)	RPM/RPM-Low (# Wdgs)	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
1 (2/3)	1800/1200(2)	460	145T	U1D10C	$1,161	DS-3MS	1.15	13.8	42	80.0	1.8	
1 1/2 (1)	1800/1200(2)	460	182T	U32D10C	$1,273	DS-3MS	1.25	16.1	50	75.5	2.7	
2 (1-1/3)	1800/1200(2)	460	184T	U2D10C	$1,403	DS-3MS	1.25	16.9	85	77.0	3.4	
3 (2)	1800/1200(2)	460	213T	U3D10C	$1,460	DS-3MS	1.00	18.6	90	82.5	4.2	
5 (3-1/3)	1800/1200(2)	460	215T	U5D10C	$2,044	DS-3MS	1.25	20.1	90	84.0	6.7	
7 1/2 (5)	1800/1200(2)	460	254T	U7D10C	$2,537	DS-3MS	1.25	23.9	232	84.0	10.1	
10 (6-2/3)	1800/1200(2)	460	256T	U10D10C	$3,207	DS-3MS	1.25	25.6	262	85.5	12.9	
15 (10)	1800/1200(2)	460	286T	U15D10C	$4,210	DS-3MS	1.25	28.3	262	86.5	18.8	

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) Hostile Duty NEMA®† Premium Efficient – IE3

NEMA Premium

CTE

APPLICATIONS:

For pulp & paper plants, saw mills, mines, foundries, chemical plants, waste management facilities, and other process-related industries requiring protection within harsh operating conditions.

FEATURES:

- WORLDMOTOR® Features Except Where Noted
- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- Cast Iron Frame (140: Rolled Steel), Cast Iron End Brackets
- Stainless Steel Nameplate (with "CE" Mark) & Zinc Plated Hardware
- Same Size Bearings (180 – 400 Frames)
- Shaft Slinger On Pulley End For IP54 Protection
- Dual Voltage 230/460 Volts (1-100 HP)
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- Regreasable Ball Bearings 250 Frame & Up, Lifting Provisions 180 Frame & Up
- Double Shielded Bearings 140-360, Open On 400-440
- 1.15 Service Factor @ 60 Hz
- Steel Fan Cover & Conduit Box
- Field Convertible To F2 Mounting 180 Frame & Larger
- Condensation Drains With Threaded Brass Breather Plugs
- Conversion Kits: All Cast Iron Upgrade, C&D Flanges, Canopy Kits (except 320-360)

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
1	1800	200	143T	H1P2H	$498	DS-3HD	12.9	45	85.5	3.4	
	1800	208-230/460	143T	H1P2D	$498	DS-3HD	12.9	45	85.5	3.2-3/1.5	03
	1800	575	143T	H1P2G	$498	DS-3HD	12.9	47	86.5	1.1	
	1200	208-230/460	145T	H1P3D	$677	DS-3HD	13.1	52	82.5	3.6-3.5/1.8	03
	900	208-230/460	182T	H1E4D	$1,049	DS-3HD	16.0	100	74.0	4.4-4.7/2.4	NNP
1 1/2	3600	200	143T	H32P1H	$574	DS-3HD	12.9	45	84.0	4.4	
	3600	208-230/460	143T	H32P1D	$574	DS-3HD	12.9	47	84.0	4.2-3.9/2	03
	1800	200	145T	H32P2H	$552	DS-3HD	13.1	50	86.5	4.7	
	1800	208-230/460	145T	H32P2D	$552	DS-3HD	13.1	52	86.5	4.5-4.3/2.1	03
	1800	575	145T	H32P2G	$552	DS-3HD	13.1	52	86.5	1.7	
	1200	200	182T	H32P3H	$751	DS-3HD	16.0	85	87.5	5.4	
	1200	208-230/460	182T	H32P3D	$751	DS-3HD	16.0	138	87.5	4.8-4.7/2.3	03
	900	230/460	184T	H32E4E	$1,164	DS-3HD	16.0	110	78.5	6.6/3.3	NNP
2	3600	200	145T	H2P1H	$682	DS-3HD	13.1	50	86.5	5.6	
	3600	208-230/460	145T	H2P1D	$682	DS-3HD	13.1	52	86.5	5.4-4.9/2.4	03
	3600	575	145T	H2P1G	$682	DS-3HD	13.1	52	86.5	2	
	1800	200	145T	H2P2H	$605	DS-3HD	13.1	50	86.5	6.2	03
	1800	208-230/460	145T	H2P2D	$605	DS-3HD	13.1	50	86.5	6-5.7/2.8	03
	1800	575	145T	H2P2G	$605	DS-3HD	13.1	52	86.5	2.3	
	1200	200	184T	H2P3H	$836	DS-3HD	16.0	95	88.5	7.2	
	1200	208-230/460	184T	H2P3D	$836	DS-3HD	16.0	95	88.5	6.4-6.2/3.1	03
	1200	575	184T	H2P3G	$836	DS-3HD	16.0	95	88.5	2.5	
	900	230/460	213T	H2E4E	$1,296	DS-3HD	19.2	160	82.5	7.6/3.8	03,NNP
	900	575	213T	H2E4G	$1,296	DS-3HD	19.2	160	82.5	3	NNP
3	3600	200	182T	H3P1H	$767	DS-3HD	16.0	85	86.5	8.8	
	3600	208/230	182T	H3P1D	$767	DS-3HD	16.0	85	87.5	8.4/7.8	03
	3600	575	182T	H3P1G	$767	DS-3HD	16.0	100	87.5	3.1	
	1800	200	182T	H3P2H	$678	DS-3HD	16.0	85	89.5	9.1	
	1800	208-230/460	182T	H3P2D	$678	DS-3HD	16.0	100	89.5	8.4-7.8/3.9	03
	1800	575	182T	H3P2G	$678	DS-3HD	16.0	85	89.5	3.2	
	1200	200	213T	H3P3H	$1,036	DS-3HD	19.2	150	89.5	10.1	
	1200	208-230/460	213T	H3P3D	$1,036	DS-3HD	19.2	157	89.5	9.3-8.8/4.4	
	1200	575	213T	H3P3G	$1,036	DS-3HD	19.2	157	89.5	3.5	
	900	200	215T	H3E4H	$1,606	DS-3HD	19.2	180	84.0	12.8	NNP
	900	230/460	215T	H3E4E	$1,606	DS-3HD	19.2	180	84.0	11.1/5.5	03,NNP
	900	575	215T	H3E4G	$1,606	DS-3HD	19.2	180	84.0	4.5	NNP

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note NNP Non-NEMA®† Premium Rating

† All marks shown within this document are properties of their respective owners.

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) Hostile Duty® NEMA®† Premium Efficient – IE3 *(continued)*

NEMA Premium

(continued)

CTE

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
5	3600	200	184T	H5P1H	$962	DS-3HD	16.0	100	88.5	14	
	3600	208-230/460	184T	H5P1D	$962	DS-3HD	16.0	100	88.5	13.4-12.2/6.1	03
	3600	575	184T	H5P1G	$962	DS-3HD	16.0	100	89.5	4.9	
	1800	200	184T	H5P2H	$788	DS-3HD	16.0	100	89.5	14.6	
	1800	208-230/460	184T	H5P2D	$788	DS-3HD	16.0	100	89.5	13.9-12.8/6.4	03
	1800	575	184T	H5P2G	$788	DS-3HD	16.0	100	89.5	5.1	
	1200	200	215T	H5P3H	$1,483	DS-3HD	19.2	150	89.5	15.9	
	1200	208-230/460	215T	H5P3D	$1,483	DS-3HD	19.2	179	90.2	15-14/7	
	1200	575	215T	H5P3G	$1,483	DS-3HD	19.2	150	90.2	5.6	
	900	208-230/460	254T	H5E4D	$2,299	DS-3HD	25.3	300	85.5	16.4-15.4/7.7	02,03,NNP
7 1/2	3600	200	213T	H7P1H	$1,192	DS-3HD	19.2	150	90.2	20.6	
	3600	208-230/460	213T	H7P1D	$1,192	DS-3HD	19.2	160	91.0	19.9-17.8/8.9	03
	3600	575	213T	H7P1G	$1,192	DS-3HD	19.2	160	91.7	7.1	14
	1800	200	213T	H7P2H	$1,078	DS-3HD	19.2	150	91.7	21.5	
	1800	208-230/460	213T	H7P2D	$1,078	DS-3HD	19.2	163	91.7	20-18.5/9.3	
	1800	575	213T	H7P2G	$1,078	DS-3HD	19.2	163	91.7	7.5	
	1200	200	254T	H7P3H	$1,979	DS-3HD	25.3	300	91.0	21.9	02
	1200	208-230/460	254T	H7P3D	$1,979	DS-3HD	25.3	300	91.7	20.6-18.8/9.4	02
	1200	575	254T	H7P3G	$1,979	DS-3HD	25.3	300	91.0	7.6	02
	900	208-230/460	256T	H7E4D	$3,067	DS-3HD	25.3	300	86.5	23.8-22.1/11	02,03,NNP
10	3600	200	215T	H10P1H	$1,397	DS-3HD	19.2	180	91.0	27	
	3600	208-230/460	215T	H10P1D	$1,397	DS-3HD	19.2	180	91.7	26.4-23.5/11.8	
	3600	575	215T	H10P1G	$1,397	DS-3HD	19.2	180	91.7	9.4	
	1800	200	215T	H10P2H	$1,302	DS-3HD	19.2	190	91.7	27.5	
	1800	208-230/460	215T	H10P2D	$1,302	DS-3HD	19.2	190	91.7	26.5-23.9/12	
	1800	575	215T	H10P2G	$1,302	DS-3HD	19.1	195	91.7	9.6	
	1200	200	256T	H10P3H	$2,390	DS-3HD	25.3	340	91.0	28.4	02
	1200	208-230/460	256T	H10P3D	$2,390	DS-3HD	25.3	340	91.7	27.1-24.6/12.3	02
	1200	575	256T	H10P3G	$2,390	DS-3HD	25.3	340	91.7	9.8	02
	900	230/460	284T	H10E4E	$3,693	DS-3HD	27.0	385	88.5	28.3/14.2	02,03,NNP
	900	575	284T	H10E4G	$3,693	DS-3HD	27.0	340	88.5	11.4	02,NNP
15	3600	200	254T	H15P1H	$1,999	DS-3HD	25.3	300	91.0	40	02
	3600	208-230/460	254T	H15P1D	$1,999	DS-3HD	25.3	300	91.0	39-34/17.2	02,03
	3600	575	254T	H15P1G	$1,999	DS-3HD	25.3	300	91.0	13.8	02
	1800	200	254T	H15P2H	$1,798	DS-3HD	25.3	300	92.4	42	02
	1800	208-230/460	254T	H15P2D	$1,798	DS-3HD	25.3	300	92.4	40-37/18.4	02
	1800	575	254T	H15P2G	$1,798	DS-3HD	25.3	300	92.4	14.6	
	1200	200	284T	H15P3H	$3,331	DS-3HD	27.0	385	91.7	42	02,14
	1200	208-230/460	284T	H15P3D	$3,331	DS-3HD	27.0	385	91.7	41-37/18.4	02,03,14
	1200	575	284T	H15P3G	$3,331	DS-3HD	27.0	284	91.7	14.8	02,14
	900	200	286T	H15E4H	$4,938	DS-3HD	27.0	390	88.5	50	02,NNP
	900	230/460	286T	H15E4E	$4,938	DS-3HD	27.0	390	88.5	44/21.8	02,03,NNP
	900	575	286T	H15E4G	$4,938	DS-3HD	27.0	390	88.5	17.3	02,NNP

Note 02 Suitable for Wye-Delta start on voltages shown
Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate
Note 14 NEMA®† Design A
Note NNP Non-NEMA®† Premium Rating

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) Hostile Duty® NEMA®† Premium Efficient – IE3 *(continued)*

NEMA Premium

(continued)

CTE

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
20	3600	200	256T	H20P1H	$2,475	DS-3HD	25.3	340	91.0	53	02
	3600	208-230/460	256T	H20P1D	$2,475	DS-3HD	25.3	340	91.0	53-46/23	02,03
	3600	575	256T	H20P1G	$2,475	DS-3HD	25.3	340	91.0	18.4	02
	1800	200	256T	H20P2H	$2,216	DS-3HD	25.3	340	93.0	54	02
	1800	208-230/460	256T	H20P2D	$2,216	DS-3HD	25.3	340	93.0	53-47/23.5	02,03
	1800	575	256T	H20P2G	$2,216	DS-3HD	25.3	340	93.0	19	02
	1200	200	286T	H20P3H	$4,035	DS-3HD	27.0	286	91.7	57	02,14
	1200	208-230/460	286T	H20P3D	$4,035	DS-3HD	27.0	400	91.7	54-49/24.5	02,03,14
	1200	575	286T	H20P3G	$4,035	DS-3HD	27.0	400	91.7	19.7	02,14
	900	230/460	324T	H20E4E	$5,844	DS-3HD	30.6	510	89.5	55/27.3	02,03,NNP
	900	575	324T	H20E4G	$5,844	DS-3HD	30.6	510	89.5	21.7	02,NNP
25	3600	200	284TS	H25P1HS	$3,036	DS-3HD	25.6	355	91.7	67	02
	3600	208-230/460	284T	H25P1D	$3,036	DS-3HD	27.0	355	91.7	66-57/28.7	02,03
	3600	208-230/460	284TS	H25P1DS	$3,036	DS-3HD	25.6	355	91.7	66-57/28.7	02,03
	3600	575	284TS	H25P1GS	$3,036	DS-3HD	25.6	355	91.7	23	02
	1800	200	284T	H25P2H	$2,659	DS-3HD	27.0	355	93.6	66	02
	1800	200	284TS	H25P2HS	$2,659	DS-3HD	25.6	355	93.6	66	02
	1800	208-230/460	284T	H25P2D	$2,659	DS-3HD	27.0	355	93.6	64-58/28.9	02,03
	1800	208-230/460	284TS	H25P2DS	$2,659	DS-3HD	25.6	355	93.6	64-58/28.9	02,03
	1800	575	284T	H25P2G	$2,659	DS-3HD	27.0	355	93.6	23	02
	1800	575	284TS	H25P2GS	$2,659	DS-3HD	25.6	355	93.6	23	02
	1200	200	324T	H25P3H	$4,801	DS-3HD	30.6	510	93.0	71	02,14
	1200	230/460	324T	H25P3E	$4,801	DS-3HD	30.6	510	93.0	62/31	02,03,14
	1200	575	324T	H25P3G	$4,801	DS-3HD	30.6	510	93.0	24.6	02,14
	900	200	326T	H25E4H	$6,923	DS-3HD	30.6	590	89.5	78	02,NNP
	900	230/460	326T	H25E4E	$6,923	DS-3HD	30.6	590	89.5	67/33	02,03,NNP
30	3600	200	286TS	H30P1HS	$3,560	DS-3HD	25.6	400	91.7	79	02
	3600	208-230/460	286T	H30P1D	$3,560	DS-3HD	27.0	400	91.7	79-69/34	02,03
	3600	208-230/460	286TS	H30P1DS	$3,560	DS-3HD	25.6	400	91.7	79-69/34	02,03
	3600	575	286TS	H30P1GS	$3,560	DS-3HD	25.6	400	91.7	27.6	02
	1800	200	286T	H30P2H	$3,101	DS-3HD	27.0	415	93.6	80	02
	1800	200	286TS	H30P2HS	$3,101	DS-3HD	25.6	415	93.6	80	02
	1800	208-230/460	286T	H30P2D	$3,101	DS-3HD	27.0	415	93.6	77-69/35	03
	1800	208-230/460	286TS	H30P2DS	$3,101	DS-3HD	25.6	415	93.6	77-69/35	03
	1800	575	286T	H30P2G	$3,101	DS-3HD	27.0	415	93.6	27.6	02
	1800	575	286TS	H30P2GS	$3,101	DS-3HD	25.6	415	93.6	27.6	02
	1200	200	326T	H30P3H	$5,665	DS-3HD	30.6	590	93.0	84	02,14
	1200	230/460	326T	H30P3E	$5,665	DS-3HD	30.6	590	93.0	74/37	02,03,14
	1200	575	326T	H30P3G	$5,665	DS-3HD	30.6	590	93.0	29.6	02,14
	900	230/460	364T	H30E4E	$7,970	DS-3HD	32.6	790	91.7	80/40	02,03,NNP
	900	575	364T	H30E4G	$7,970	DS-3HD	32.6	790	92.4	31	02,NNP

Note 02 Suitable for Wye-Delta start on voltages shown
Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate
Note 14 NEMA®† Design A
Note NNP Non-NEMA®† Premium Rating

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) Hostile Duty® NEMA®† Premium Efficient – IE3 *(continued)*

NEMA Premium

(continued)

CTE

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
40	3600	200	324TS	H40P1HS	$4,600	DS-3HD	29.1	460	93.0	104	02,14
	3600	230/460	324TS	H40P1ES	$4,600	DS-3HD	29.1	460	93.0	90/45	02,03,14
	3600	575	324TS	H40P1GS	$4,600	DS-3HD	29.1	460	93.0	36	02,14
	1800	200	324T	H40P2H	$4,049	DS-3HD	30.6	510	94.1	104	02
	1800	200	324TS	H40P2HS	$4,049	DS-3HD	29.1	510	94.1	104	02
	1800	230/460	324T	H40P2E	$4,049	DS-3HD	30.6	510	94.1	90/45	02,03
	1800	230/460	324TS	H40P2ES	$4,049	DS-3HD	29.1	510	94.1	90/45	02,03
	1800	575	324T	H40P2G	$4,049	DS-3HD	30.6	510	94.1	36	02
	1800	575	324TS	H40P2GS	$4,049	DS-3HD	29.1	510	94.1	36	02
	1200	200	364T	H40P3H	$7,630	DS-3HD	32.6	800	94.1	106	02
	1200	230/460	364T	H40P3E	$7,630	DS-3HD	32.6	800	94.1	93/46	02,03
	1200	575	364T	H40P3G	$7,630	DS-3HD	32.6	800	94.1	37	02
	900	230/460	365T	H40E4E	$9,873	DS-3HD	32.6	840	92.4	105/52	02,03,NNP
	900	575	365T	H40E4G	$9,873	DS-3HD	32.6	840	92.4	41	02,NNP
50	3600	200	326TS	H50P1HS	$5,919	DS-3HD	29.1	550	93.0	129	02
	3600	230/460	326TS	H50P1ES	$5,919	DS-3HD	29.1	550	93.0	112/56	02,03
	3600	575	326TS	H50P1GS	$5,919	DS-3HD	29.1	550	93.0	45	02
	1800	200	326T	H50P2H	$4,971	DS-3HD	30.6	590	94.5	129	02,14
	1800	200	326TS	H50P2HS	$4,971	DS-3HD	29.1	590	94.5	129	02,14
	1800	230/460	326T	H50P2E	$4,971	DS-3HD	30.6	590	94.5	112/56	02,03
	1800	230/460	326TS	H50P2ES	$4,971	DS-3HD	29.1	590	94.5	112/56	02,03
	1800	575	326T	H50P2G	$4,971	DS-3HD	30.6	590	94.5	45	02
	1800	575	326TS	H50P2GS	$4,971	DS-3HD	29.1	590	94.5	45	02
	1200	200	365T	H50P3H	$8,790	DS-3HD	32.6	890	94.1	133	02
	1200	230/460	365T	H50P3E	$8,790	DS-3HD	32.6	890	94.1	115/58	02,03
	1200	575	365T	H50P3G	$8,790	DS-3HD	32.6	890	94.1	46	02
60	3600	200	364TS	H60P1HS	$7,901	DS-3HD	30.4	825	93.6	154	02,14
	3600	230/460	364TS	H60P1ES	$7,901	DS-3HD	30.4	825	93.6	134/67	02,03
	3600	575	364TS	H60P1GS	$7,901	DS-3HD	30.4	825	93.6	53	02,14
	1800	200	364T	H60P2H	$7,228	DS-3HD	32.6	865	95.0	155	02
	1800	200	364TS	H60P2HS	$7,228	DS-3HD	30.4	865	95.0	155	02
	1800	230/460	364T	H60P2E	$7,228	DS-3HD	32.6	865	95.0	136/68	02,03
	1800	230/460	364TS	H60P2ES	$7,228	DS-3HD	30.4	865	95.0	136/68	02,03
	1800	575	364T	H60P2G	$7,228	DS-3HD	32.6	865	95.0	55	02
	1800	575	364TS	H60P2GS	$7,228	DS-3HD	30.4	865	95.0	55	02
	1200	230/460	404T	H60P3E	$10,356	DS-3HD	37.6	1160	94.5	139/70	
75	3600	200	365TS	H75P1HS	$9,928	DS-3HD	30.4	875	93.6	194	02,14
	3600	230/460	365TS	H75P1ES	$9,928	DS-3HD	30.4	875	93.6	167/84	02,03,14
	3600	575	365TS	H75P1GS	$9,928	DS-3HD	30.4	875	93.6	67	02,14
	1800	200	365T	H75P2H	$9,193	DS-3HD	32.6	890	95.4	196	02,14
	1800	200	365TS	H75P2HS	$9,193	DS-3HD	30.4	890	95.4	196	02,14
	1800	230/460	365T	H75P2E	$9,193	DS-3HD	32.6	890	95.4	169/85	02,03
	1800	230/460	365T	H75P2EB	$9,730	DS-3HD	32.6	890	95.4	169/85	02,03,09
	1800	230/460	365TS	H75P2ES	$9,193	DS-3HD	30.4	890	95.4	169/85	02,03
	1800	575	365T	H75P2G	$9,193	DS-3HD	32.6	890	95.4	68	02
	1800	575	365T	H75P2GB	$9,730	DS-3HD	32.6	890	95.4	68	02,09
	1800	575	365TS	H75P2GS	$9,193	DS-3HD	30.4	890	95.4	68	02
	1200	230/460	405T	H75P3E	$12,210	DS-3HD	37.6	1175	94.5	174/87	02,03

Note 02 Suitable for Wye-Delta start on voltages shown
Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate
Note 09 Roller Bearing
Note 14 NEMA®† Design A
Note NNP Non-NEMA®† Premium Rating

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) Hostile Duty® NEMA®† Premium Efficient – IE3 *(continued)*

NEMA Premium

(continued)

CTE

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
75	1200	230/460	405T	H75P3EB	$13,310	DS-3HD	37.6	1175	94.5	174/87	02,03,09
	900	230/460	444T	H75E4E	$18,164	DS-3HD	45.8	1400	93.0	193/97	02,03,NNP
100	3600	230/460	405TS	H100P1ES	$13,296	DS-3HD	34.6	1175	94.5	224/112	02,03
	3600	575	405TS	H100P1GS	$13,296	DS-3HD	34.6	1175	94.1	90	
	1800	200	405T	H100P2H	$11,329	DS-3HD	37.6	1200	95.4	260	
	1800	200	405TS	H100P2HS	$11,329	DS-3HD	34.6	1200	95.4	260	
	1800	230/460	405T	H100P2E	$11,329	DS-3HD	37.6	1200	95.4	225/113	
	1800	230/460	405T	H100P2EB	$12,429	DS-3HD	37.6	1200	95.4	225/113	09
	1800	230/460	405TS	H100P2ES	$11,329	DS-3HD	34.6	1200	95.4	225/113	
	1800	575	405T	H100P2G	$11,329	DS-3HD	37.6	1200	95.4	90	02
	1800	575	405T	H100P2GB	$11,939	DS-3HD	37.6	1200	95.4	90	02,09
	1800	575	405TS	H100P2GS	$11,329	DS-3HD	34.6	1200	95.4	90	
	1200	230/460	444T	H100P3E	$16,718	DS-3HD	45.8	1600	95.4	248/124	02,03
	1200	230/460	444T	H100P3EB	$18,268	DS-3HD	45.8	1600	95.4	248/124	02,03,09
	1200	575	444T	H100P3G	$16,718	DS-3HD	43.4	1618	95.4	99	
	1200	575	444T	H100P3GB	$17,868	DS-3HD	45.8	1600	95.0	99	02,09
	900	230/460	445T	H100E4E	$22,950	DS-3HD	45.4	1500	93.6	262/131	02,03,NNP
125	3600	460	444TS	H125P1FS	$16,545	DS-3HD	41.66	1550	95.8	142	03
	3600	575	444TS	H125P1GS	$16,545	DS-3HD	41.66	1550	95.8	114	
	1800	460	444T	H125P2F	$14,102	DS-3HD	45.8	1575	95.4	144	02,03
	1800	460	444T	H125P2FB	$15,652	DS-3HD	45.8	1575	95.4	144	02,03,09
	1800	460	444TS	H125P2FS	$14,102	DS-3HD	42.0	1575	95.4	144	02
	1800	575	444T	H125P2G	$14,102	DS-3HD	45.8	1575	95.4	116	02
	1800	575	444TS	H125P2GS	$14,102	DS-3HD	42.0	1575	95.4	116	02
	1200	460	445T	H125P3F	$19,123	DS-3HD	45.8	1650	95.4	151	02,03
	1200	460	445T	H125P3FB	$20,673	DS-3HD	45.8	1650	95.4	151	02,09
	1200	575	445T	H125P3G	$19,123	DS-3HD	45.8	1650	95.4	123	02
	1200	575	445T	H125P3GB	$20,273	DS-3HD	45.8	1650	95.4	123	02,09
	900	460	447T	H125E4F	$25,055	DS-3HD	48.9	1900	94.1	155	02,03,NNP
150	3600	460	445TS	H150P1FS	$20,361	DS-3HD	41.66	1625	95.8	171	03
	3600	575	445TS	H150P1GS	$20,361	DS-3HD	41.66	1625	95.4	137	
	1800	460	445T	H150P2F	$16,738	DS-3HD	45.8	1650	95.8	171	02,03
	1800	460	445T	H150P2FB	$18,288	DS-3HD	45.8	1650	95.8	171	02,03,09
	1800	460	445TS	H150P2FS	$16,738	DS-3HD	42.0	1650	95.8	171	02
	1800	575	445T	H150P2G	$16,738	DS-3HD	45.8	1650	95.8	137	02
	1800	575	445TS	H150P2GS	$16,738	DS-3HD	42.0	1650	95.8	137	02
	1200	460	447T	H150P3F	$21,964	DS-3HD	49.3	2000	96.2	181	02,03
	1200	460	447T	H150P3FB	$23,514	DS-3HD	49.3	2000	96.2	181	02,09
	1200	575	447T	H150P3G	$21,964	DS-3HD	49.3	2000	95.8	145	02
	1200	575	447T	H150P3GB	$23,314	DS-3HD	49.3	2000	95.8	145	02,09
200	3600	460	447TS	H200P1FS	$25,731	DS-3HD	45.16	2100	96.2	217	03
	3600	575	447TS	H200P1GS	$25,731	DS-3HD	45.16	2100	95.8	173	
	1800	460	447T	H200P2F	$20,393	DS-3HD	49.3	2150	96.2	224	02,03
	1800	460	447T	H200P2FB	$21,943	DS-3HD	49.3	2150	96.2	224	02,03,09
	1800	460	447TS	H200P2FS	$20,393	DS-3HD	45.5	2150	96.2	224	02
	1800	575	447T	H200P2G	$20,393	DS-3HD	49.3	2150	96.2	181	02
	1800	575	447TS	H200P2GS	$20,393	DS-3HD	45.5	2150	96.2	181	02

Note 02 Suitable for Wye-Delta start on voltages shown
Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate
Note 09 Roller Bearing
Note NNP Non-NEMA®† Premium Rating

Definite Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) UNIMOUNT®, Inverter Duty 10:1 (6-60 Hertz) Speed Range Variable Torque

APPLICATIONS:

For use on pumps, fans, blowers or other inverter powered applications.

UTI

FEATURES:

- INVERTER GRADE® Insulation System (Meets NEMA®† MG-1 Part 31)
- Class F Thermostats (One Per Phase)
- Extruded Aluminum Frame (140: Rolled Steel)
- Aluminum End Shields With Steel Bearing Inserts
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- Removable Base 180 Frame & Larger
- Lifting Provisions 180 Frame & Larger
- Regreasable Shaft-End Bearing 180 Frame & Larger
- Sealed Bearings 56-140, Double Shielded Bearings 180-280
- Double Dip & Bake With Extra Bracing
- Premium Efficient Design, F1 Assembly Position
- Class F Insulation, 1.15 Service Factor On Sine Wave / 1.0 Service Factor On PWM
- Constant Horsepower To 90 Hertz
- Precision Balance (< 0.08 In/Sec Vibration)
- C-Face Footed 1-5 HP

5:1 (12-60 Hertz) Speed Range Constant Torque

HP	RPM (Max Speed)	Voltage	Frame	Catalog Number	List	Discount Symbol	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
1/3	1800(3600)	208-230/460	56C	UN13V2BC	$374	DS-VST	8.8	26	-	1.4-1.4/0.71	28
	1800(3600)	230/460	56C	U13T2BCR	$393	DS-VST	10.8	22	-	1.6/0.8	FTLS
1/2	1800(3600)	208-230/460	56C	UN12V2AC	$416	DS-VST	8.8	26	-	2.0-2.1/1.1	28
	1800(3600)	230/460	56C	U12T2BCR	$437	DS-VST	10.8	78	-	2.3/1.1	FTLS
	1200(2400)	208-230/460	56C	UN12V3BC	$541	DS-VST	10.3	33	-	2.3-2.4/1.2	28
3/4	1800(3600)	208-230/460	56C	UN34V2AC	$414	DS-VST	8.8	26	-	2.8-2.7/1.3	28
	1800(3600)	230/460	56C	U34T2BCR	$469	DS-VST	12.1	32	-	2.7/1.3	FTLS
	1200(2400)	208-230/460	56C	UN34V3BC	$586	DS-VST	13.6	32	-	3.1-3.0/1.5	28
1	1800(3600)	208-230/460	56C	UN1V2AFC	$522	DS-VST	11.8	37	-	3.5-3.4/1.7	28
	1800(3600)	230/460	143TC	U1V2BC	$537	DS-VST	13.1	45	85.5	2.9/1.5	
	1200(2400)	230/460	145TC	U1V3BC	$698	DS-VST	13.1	42	81.5	3.7/1.9	
1 1/2	3600(7200)	230/460	143TC	U32V1BC	$609	DS-VST	13.1	37	84.0	3.9/1.9	
	1800(3600)	208-230/460	56C	T32V2BFC	$572	DS-VST	13.4	34	-	5.1-5.0/2.5	
	1800(3600)	230/460	145TC	U32V2BC	$587	DS-VST	13.1	42	85.5	4.2/2.1	
	1200(2400)	230/460	182TC	U32V3BC	$890	DS-VST	16.1	60	87.5	4.6/2.3	
2	3600 (7200)	230/460	145TC	U2V1BC	$636	DS-VST	13.1	40	86.5	4.9/2.4	
	1800(3600)	230/460	145TC	U2V2BC	$636	DS-VST	13.1	55	85.5	5.5/2.8	
	1200 (2400)	230/460	184TC	U2V3BC	$975	DS-VST	16.9	70	87.5	6/3	
3	3600 (7200)	230/460	182TC	U3V1BC	$905	DS-VST	16.1	60	87.5	7.8/3.9	
	1800(3600)	230/460	182TC	U3V2BC	$848	DS-VST	16.1	75	88.5	8.2/4.1	
	1200(2400)	230/460	213TC	U3V3BC	$1,295	DS-VST	18.6	115	90.2	8.7/4.4	
5	3600(7200)	230/460	184TC	U5V1BC	$1,203	DS-VST	16.9	75	88.5	12.1/6.1	
	1800(3600)	230/460	184TC	U5V2BC	$985	DS-VST	16.9	80	90.2	12.3/6.2	
	1200(2400)	230/460	215TC	U5V3BC	$1,854	DS-VST	20.1	145	90.2	14/7	
7 1/2	3600(7200)	230/460	213T	U7V1B	$1,430	DS-VST	18.6	105	91.0	17.8/8.9	
	1800(3600)	230/460	213T	U7V2B	$1,294	DS-VST	18.6	115	91.0	18.3/9.2	
	1200(2400)	230/460	254T	U7V3B	$2,375	DS-VST	23.9	212	91.0	18.6/9.3	
10	3600(7200)	230/460	215T	U10V1B	$1,676	DS-VST	20.1	125	91.0	23.5/11.8	
	1800(3600)	230/460	215T	U10V2B	$1,563	DS-VST	20.1	140	91.7	23.8/11.9	
	1200(2400)	230/460	256T	U10V3B	$2,868	DS-VST	25.6	250	0.0	24.4/12.2	
15	3600(7200)	230/460	254T	U15V1B	$2,399	DS-VST	23.9	202	90.2	35/17.7	
	1800(3600)	230/460	254T	U15V2B	$2,158	DS-VST	23.9	240	93.0	37/18.4	
20	3600(7200)	230/460	256T	U20V1B	$2,970	DS-VST	25.6	222	90.2	47/23.4	
	1800(3600)	230/460	256T	U20V2B	$2,660	DS-VST	25.6	262	93.0	47/23.7	

Note 28 TENV Enclosure
Note FTLS Footless

Definite Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) Hostile Duty, Inverter Duty 10:1 (6-60 Hertz) Speed Range Variable Torque

APPLICATIONS:

For use on pumps, fans, blowers or other inverter powered applications having variable torque requirements.

CTI

FEATURES:

- INVERTER GRADE® Insulation System (Meets NEMA®† MG-1 Part 31)
- Class F Thermostats (One Per Phase)
- Cast Iron Frame (140: Rolled Steel), Cast Iron End Brackets
- Corrosion Resistant Mill & Chemical Duty Paint
- Stainless Steel Nameplate & Zinc Plated Hardware
- Shaft Slinger On Pulley End For IP54 Protection
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- 1.15 Service Factor On Sine Wave / 1.0 Service Factor On PWM Special Balance
- Regreasable Bearings 250 Frame & Up
- Double Shielded Bearings 140-360, Open On 400-440
- Double Dip & Bake With Extra Bracing
- Premium Efficient Design, F1 Assembly Position
- Class F Insulation, 1.15 Service Factor On Sine Wave / 1.0 Service Factor On PWM
- Constant Horsepower To 90 Hertz
- Conversion Kits: All Cast Iron Upgrade, C&D Flanges, Canopy Kits (except 320-360)
- C-Face Footed 1-5 HP

5:1 (12-60 Hertz) Speed Range Constant Torque

HP	RPM (Max Speed)	Voltage	Frame	Catalog Number	List	Discount Symbol	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
1	1800(3600)	230/460	143TC	H1V2BC	$558	DS-VST	12.6	67	85.5	2.9/1.5	
	1200(2400)	230/460	145TC	H1V3BC	$812	DS-VST	12.6	72	81.5	3.7/1.9	
1 1/2	3600(7200)	230/460	143TC	H32V1BC	$689	DS-VST	12.6	65	84.0	3.9/1.9	
	1800(3600)	230/460	145TC	H32V2BC	$619	DS-VST	12.6	72	85.5	4.4/2.2	
	1200(2400)	230/460	182TC	H32V3BC	$901	DS-VST	16.8	100	86.5	5/2.5	
2	3600(7200)	230/460	145TC	H2V1BC	$818	DS-VST	12.6	72	86.5	4.9/2.4	
	1800(3600)	230/460	145TC	H2V2BC	$678	DS-VST	12.6	82	85.5	5.5/2.8	
	1200(2400)	230/460	184TC	H2V3BC	$973	DS-VST	15.6	110	87.5	6/3	
3	3600(7200)	230/460	182TC	H3V1BC	$959	DS-VST	16.0	100	87.5	7.6/3.8	
	1800(3600)	230/460	182TC	H3V2BC	$848	DS-VST	16.8	100	89.5	7.8/3.9	
	1200(2400)	230/460	213TC	H3V3BC	$1,295	DS-VST	19.1	160	90.2	8.7/4.4	
5	3600(7200)	230/460	184TC	H5V1BC	$1,203	DS-VST	16.8	110	88.5	12.2/6.1	
	1800(3600)	230/460	184TC	H5V2BC	$985	DS-VST	16.8	110	89.5	12.8/6.4	
	1200(2400)	230/460	215TC	H5V3BC	$1,854	DS-VST	20.6	175	90.2	14/7	
7 1/2	3600(7200)	230/460	213T	H7V1B	$1,294	DS-VST	17.6	160	91.0	17.8/8.9	
	1800(3600)	230/460	213T	H7V2B	$1,294	DS-VST	19.2	167	91.0	18.4/9.2	
	1200(2400)	230/460	254T	H7V3B	$2,375	DS-VST	25.3	300	91.0	18.6/9.3	
10	3600(7200)	230/460	215T	H10V1B	$1,676	DS-VST	19.2	175	91.0	23.2/11.6	
	1800(3600)	230/460	215T	H10V2B	$1,563	DS-VST	19.1	175	91.7	23.8/11.9	
	1200(2400)	230/460	256T	H10V3B	$2,868	DS-VST	25.5	352	91.7	24.5/12.3	
15	3600(7200)	230/460	254T	H15V1B	$2,399	DS-VST	25.3	300	90.2	35/17.7	
	1800(3600)	230/460	254T	H15V2B	$2,158	DS-VST	25.3	300	92.4	37/18.4	
	1200(2400)	230/460	284T	H15V3B	$3,997	DS-VST	35.7	380	91.7	37/18.7	
20	3600(7200)	230/460	256T	H20V1B	$2,970	DS-VST	25.5	362	90.2	47/23.4	
	1800(3600)	230/460	256T	H20V2B	$2,660	DS-VST	25.5	372	93.0	47/23.7	
	1200(2400)	230/460	286T	H20V3B	$4,842	DS-VST	27.0	410	91.7	49/24.5	
25	3600(7200)	230/460	284TS	H25V1BS	$3,400	DS-VST	25.6	380	91.7	59/29.5	
	1800(3600)	230/460	284T	H25V2B	$2,979	DS-VST	27.0	380	93.0	59/29.4	
	1200(2400)	230/460	324T	H25V3B	$5,377	DS-VST	30.6	600	93.0	62/31	
30	3600(5400)	230/460	286TS	H30V1BS	$3,987	DS-VST	25.6	400	91.7	69/35	
	1800(2700)	230/460	286T	H30V2B	$3,474	DS-VST	27.0	440	93.6	69/34	
	1200(2400)	230	326T	H30V3B	$6,345	DS-VST	30.6	675	93.0	74	

Definite Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) Hostile Duty, Inverter Duty 10:1 (6-60 Hertz) Speed Range Variable Torque

(continued)

CTI

HP	RPM (Max Speed)	Voltage	Frame	Catalog Number	List	Discount Symbol	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
40	3600(5400)	230/460	324TS	H40V1BS	$5,152	DS-VST	29.1	560	92.4	91/46	
	1800(2700)	230/460	324T	H40V2B	$4,535	DS-VST	30.6	600	94.1	92/46	
	1200(2400)	230/460	364T	H40V3B	$8,546	DS-VST	32.6	906	94.1	93/46	
50	3600(5400)	230/460	326TS	H50V1BS	$6,629	DS-VST	29.1	600	93.0	112/56	
	1800(2700)	230/460	326T	H50V2B	$5,568	DS-VST	30.6	710	94.5	113/56	
	1200(2400)	230/460	365T	H50V3B	$9,845	DS-VST	32.6	900	94.1	116/58	
60	3600(5400)	230/460	364TS	H60V1BS	$8,533	DS-VST	30.4	790	93.6	136/68	
	1800(2700)	230/460	364T	H60V2B	$7,807	DS-VST	32.6	825	95.0	138/69	
	1200(2400)	230/460	404T	H60V3B	$11,184	DS-VST	37.6	1160	94.5	140/70	
75	3600(4500)	230/460	365TS	H75V1BS	$10,722	DS-VST	30.4	830	93.6	167/83	
	1800(3600)	230/460	365T	H75V2B	$9,929	DS-VST	32.6	225	95.0	168/84	
	1200(2400)	230/460	405T	H75V3B	$13,187	DS-VST	37.6	1300	94.5	175/87	
100	3600(4500)	230/460	405TS	H100V1BS	$13,960	DS-VST	34.6	1200	94.5	218/109	
	1800(3600)	230	405T	H100V2B	$12,236	DS-VST	37.6	1250	95.4	225	
	1200(2400)	460	444T	H100V3C	$18,055	DS-VST	45.8	1660	95.0	122	
125	3600(4500)	460	444TS	H125V1CS	$17,869	DS-VST	41.66	1550	95.8	142	
	1800(3600)	460	444T	H125V2C	$16,220	DS-VST	45.8	1675	95.4	146.0	
	1200(2400)	460	445T	H125V3C	$20,653	DS-VST	45.8	1750	95.4	151	
150	3600(4500)	460	445TS	H150V1CS	$21,000	DS-VST	41.66	1625	95.8	171	
	1800(3600)	460	445T	H150V2C	$18,949	DS-VST	45.4	1800	95.8	171	
	1200(2400)	460	445T	H150V3C	$23,721	DS-VST	45.4	1750	95.4	153	
200	3600(4500)	460	447TS	H200V1CS	$27,800	DS-VST	45.16	2100	96.2	217	
	1800(3600)	460	447T	H200V2C	$23,135	DS-VST	48.9	2143	95.8	226	

Definite Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) Hostile Duty, Inverter Duty 10:1 (6-60 Hertz) Speed Range Constant Torque

APPLICATIONS:

For pumps, fans, blowers or other inverter powered applications having constant torque requirements.
All items on this page are assembled to order. Contact your Customer Service representative for lead times.

CTI

FEATURES:

- INVERTER GRADE® Insulation System (Meets NEMA®† MG-1 Part 31)
- Class F Thermostats (One Per Phase)
- Cast Iron Frame (140: Rolled Steel), Cast Iron End Brackets
- Corrosion Resistant Mill & Chemical Duty Paint
- Stainless Steel Nameplate & Zinc Plated Hardware
- Shaft Slinger On Pulley End For IP54 Protection
- 40°C Ambient, NEMA®† Design A Performance
- Regreasable Bearings 250 Frame & Up, Lifting Provisions 180 Frame & Up
- Double Shielded Bearings 140-360
- Double Dip & Bake With Extra Bracing
- Premium Efficient Design, Special Balance, F1 Assembly Position
- Class F Insulation, 1.15 Service Factor On Sine Wave / 1.0 Service Factor On PWM
- Cast Iron Inner Bearing Caps (180 Frame & Up)
- Conversion Kits: All Cast Iron Upgrade, C&D Flanges, Drip Cover Kits (except 320-360)
- C-Face 180 Frame and Smaller

HP	RPM (Max Speed)	Voltage	Frame	Catalog Number	List	Discount Symbol	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
1	1800(3600)	230/460	145TC	H1T2BC	$619	DS-VST	12.6	65	84.0	3.5/1.8	
1 1/2	1800(3600)	230/460	145TC	H32T2BC	$678	DS-VST	12.6	70	85.5	4.6/2.3	
2	1800(3600)	230/460	182TC	H2T2BC	$848	DS-VST	15.2	100	89.5	5.8/2.9	
3	1800(3600)	230/460	184TC	H3T2BC	$985	DS-VST	15.6	110	90.2	8.8/4.4	
5	1800(3600)	230/460	213T	H5T2B	$1,294	DS-VST	17.6	160	91.7	13.1/6.6	
7 1/2	1800(3600)	230/460	215T	H7T2B	$1,563	DS-VST	19.1	175	92.4	18.4/9.2	
10	1800(3600)	230/460	254T	H10T2B	$2,158	DS-VST	23.8	300	93.0	26.1/13	
15	1800(3600)	230/460	256T	H15T2B	$2,660	DS-VST	25.5	360	94.1	36/18	
20	1800(3600)	230/460	284T	H20T2B	$2,979	DS-VST	25.5	390	93.6	48/23.9	
25	1800(3600)	230/460	286T	H25T2B	$3,474	DS-VST	27.0	440	94.1	58/28.9	
30	1800(2700)	230/460	324T	H30T2B	$4,535	DS-VST	30.6	600	94.5	69/35	
40	1800(2700)	230/460	326T	H40T2B	$5,568	DS-VST	30.6	610	94.5	90/45	
50	1800(2700)	230/460	364T	H50T2B	$7,807	DS-VST	32.6	825	95.0	115/57	
60	1800(2700)	230/460	365T	H60T2B	$9,929	DS-VST	32.6	910	95.4	135/67	

Definite Purpose Three Phase, Open Dripproof (ODP) Inverter Duty 10:1 (6-60 Hertz) Speed Range Variable Torque

DI, RI

APPLICATIONS:

For use on pumps, fans, blowers or other inverter powered applications.

FEATURES:

- INVERTER GRADE® Insulation System (Meets NEMA®† MG-1 Part 31)
- Class F Thermostats (One Per Phase)
- Rolled Steel Frame (140-320), Cast Iron Frame (360-440)
- Aluminum End Shields 140-250, Cast Iron End Shields 280-440
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- Constant Horsepower To 90 Hertz
- Lifting Provisions (210 Frame & Up)
- Regreasable Bearings 180 Frame & Up, Lifting Provisions 210 Frame & Up
- Double Shielded Bearings 140-400, Open On 440 Frame
- Double Dip & Bake With Extra Bracing
- Premium Efficient Design, Special Balance, F1 Assembly Position
- Class F Insulation, 1.15 Service Factor On Sine Wave / 1.0 Service Factor On PWM
- Conversion Kits: Canopy Kits (140-320 Frame)
- For VFD Guidelines, Refer to Page viii

5:1 (12-60 Hertz) Speed Range Constant Torque

HP	RPM (Max Speed)	Voltage	Frame	Catalog Number	List	Discount Symbol	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
1	1800(3600)	230/460	143T	D1V2B	$688	DS-VFM	12.8	37	84.0	3.1/1.6	
	1200(2400)	230/460	145T	D1V3B	$887	DS-VFM	12.8	40	80.0	3.7/1.8	
1 1/2	1800(3600)	230/460	145T	D32V2B	$752	DS-VFM	12.8	42	85.5	4.2/2.1	
	1200(2400)	230/460	182T	D32V3B	$972	DS-VFM	15.0	50	85.5	5.3/2.6	
2	1800(3600)	230/460	145T	D2V2B	$829	DS-VFM	12.8	147	85.5	5.7/2.8	
	1200(2400)	230/460	184T	D2V3B	$1,249	DS-VFM	15.0	60	86.5	6.3/3.2	
3	1800(3600)	230/460	182T	D3V2B	$885	DS-VFM	15.0	50	89.5	7.8/3.9	
5	3600(7200)	230/460	182T	D5V1B	$1,075	DS-VFM	15.0	50	87.5	12.2/6.1	
	1800(3600)	230/460	184T	D5V2B	$1,075	DS-VFM	15.0	60	89.5	13/6.5	
	1200(2400)	230/460	215T	D5V3B	$1,958	DS-VFM	17.5	104	88.5	14.4/7.2	
7 1/2	3600(7200)	230/460	184T	D7V1B	$1,562	DS-VFM	15.0	60	87.5	18.2/9.1	
	1800(3600)	230/460	213T	D7V2B	$1,500	DS-VFM	16.0	94	91.0	18.5/9.3	
	1200(2400)	230/460	254T	D7V3B	$2,339	DS-VFM	22.6	150	91.7	18.9/9.5	
10	3600(7200)	230/460	213T	D10V1B	$1,854	DS-VFM	16.0	94	90.2	24.3/12.2	
	1800(3600)	230/460	215T	D10V2B	$1,814	DS-VFM	17.5	104	90.2	24.5/12.2	
	1200(2400)	230/460	256T	D10V3B	$2,734	DS-VFM	22.7	160	91.7	25.1/12.6	
15	3600(7200)	230/460	215T	D15V1B	$2,345	DS-VFM	17.5	104	90.2	36/18	
	1800(3600)	230/460	254T	D15V2B	$2,408	DS-VFM	22.6	162	92.4	37/18.6	
	1200(2400)	230/460	284T	D15V3B	$3,520	DS-VFM	24.9	312	91.7	37/18.5	
20	3600(7200)	230/460	254T	D20V1B	$2,770	DS-VFM	22.6	162	91.0	46/23.2	
	1800(3600)	230/460	256T	D20V2B	$2,940	DS-VFM	22.7	172	93.0	48/24	
	1200(2400)	230/460	286T	D20V3B	$4,317	DS-VFM	24.9	337	91.7	49/24.4	
25	3600(7200)	230/460	256T	D25V1B	$3,379	DS-VFM	22.7	160	91.0	58/29.2	
	1800(3600)	230/460	284T	D25V2B	$3,417	DS-VFM	24.9	162	93.6	58/29.2	
	1200(2400)	230/460	324T	D25V3B	$5,125	DS-VFM	27.3	416	93.0	59/29.3	
30	3600(5400)	230/460	284TS	D30V1BS	$4,030	DS-VFM	23.5	312	92.4	68/34	
	1800(2700)	230/460	286T	D30V2B	$3,971	DS-VFM	24.9	350	94.1	69/34	
	1200(2400)	230/460	326T	D30V3B	$5,862	DS-VFM	27.3	446	93.0	70/35	
40	3600(5400)	230/460	286TS	D40V1BS	$4,977	DS-VFM	23.5	362	93.0	90/45	
	1800(2700)	230/460	324T	D40V2B	$4,766	DS-VFM	27.3	731	94.1	91/46	
	1200(2400)	230/460	364T	D40V3B	$8,314	DS-VFM	28.7	580	94.5	92/46	
50	3600(5400)	230/460	324TS	D50V1BS	$5,913	DS-VFM	25.8	416	93.0	117/59	
	1800(2700)	230/460	326T	D50V2B	$5,556	DS-VFM	27.3	611	94.1	114/57	
	1200(2400)	230/460	365T	D50V3B	$9,709	DS-VFM	29.7	580	94.5	115/57	
60	3600(5400)	230/460	326TS	D60V1BS	$6,724	DS-VFM	25.8	446	93.6	135/67	
	1800(2700)	230/460	364T	D60V2B	$6,810	DS-VFM	28.7	580	95.0	138/69	
	1200(2400)	230/460	404T	D60V3B	$11,328	DS-VFM	32.6	763	95.0	138/69	

Definite Purpose Three Phase, Open Dripproof (ODP)
Inverter Duty 10:1 (6-60 HZ) Speed Range Variable Torque

(continued)

DI, RI

HP	RPM (Max Speed)	Voltage	Frame	Catalog Number	List	Discount Symbol	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
75	3600(4500)	230/460	364TS	D75V1BS	$8,660	DS-VFM	26.6	580	94.1	171/85	
	1800(3600)	230/460	365T	D75V2B	$8,011	DS-VFM	29.7	600	95.0	171/86	
	1200(2400)	230/460	405T	D75V3B	$13,029	DS-VFM	34.1	800	94.5	172/86	
100	3600(4500)	230/460	365TS	D100V1BS	$11,372	DS-VFM	27.6	600	94.1	224/112	
	1800(3600)	230/460	404T	D100V2B	$9,991	DS-VFM	32.6	868	95.4	224/112	
	1200(2400)	460	444T	D100V3C	$16,135	DS-VFM	37.8	1100	95.0	121	
125	3600(4500)	460	404TS	D125V1CS	$14,150	DS-VFM	29.6	763	95.0	136	
	1800(3600)	460	405T	D125V2C	$12,231	DS-VFM	34.1	813	95.4	140	
150	3600(4500)	230/460	405TS	D150V1BS	$17,212	DS-VFM	31.1	800	94.5	327/164	
	1800(3600)	460	444T	D150V2C	$17,276	DS-VFM	37.8	1118	95.8	165	
	1200(2400)	460	445T	D150V3C	$21,964	DS-VFM	39.8	1200	95.4	190	
200	1800(3600)	460	445T	D200V2C	$22,322	DS-VFM	39.8	1200	95.8	231	
250	1800(3600)	460	447T	D250V2C	$32,263	DS-VFM	43.3	1700	96.2	285	

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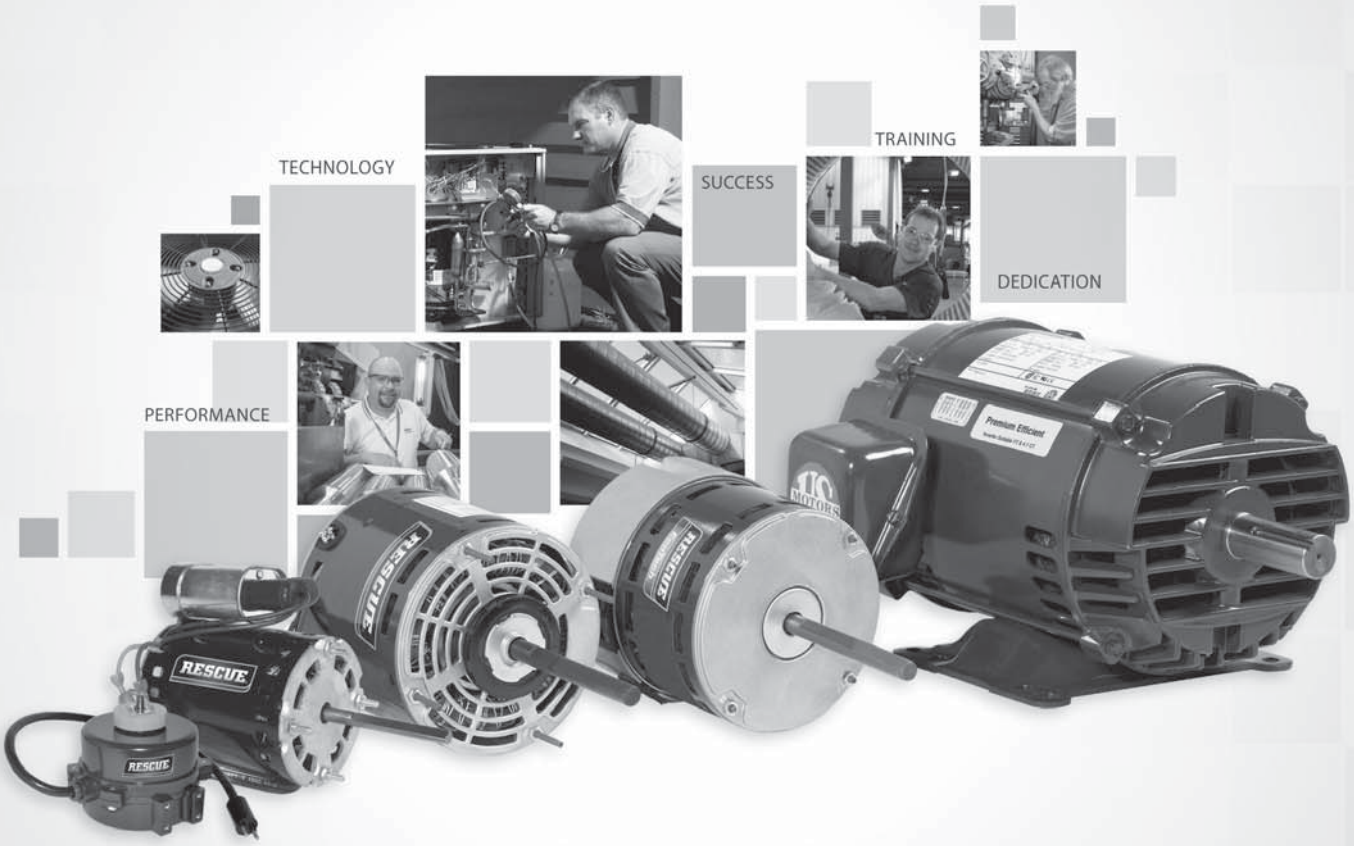

You can rely on the U.S. MOTORS® brand to offer Pool and Spa Motors that are highly respected products in the industry. Every day we strive to be a better partner with you and answer your needs through our responsive, knowledgeable and collaborative team. We understand the needs and goals of the industry and innovate products to meet those ever changing demands. Our brand is dedicated to the success of customers who in turn always **Rely on US.**™

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Residential Water System Pump Motors

For use on jet pumps, booster pumps, lawn sprinkler pumps, and other centrifugal pump applications.

Horsepower: 1/2 – 3 HP

Phase: Single Phase

Torque: Capacitor Start electrical designs utilized for superior torque even in the most difficult starting conditions

Voltage Selector Switch: Easy to use voltage selector switch for confidence in field wiring (Found on motors with catalog numbers ending in "-2V" and "UPR")

Mounting Options: NEMA 56J, and Square Flange. The Square Flange mounting face incorporates a five-point surface, which supplies extra pump support

Enclosure: Open Drip-Proof (ODP)

Compartments: Two-Compartment constructions

Bearings: All Ball Bearing construction. Double Shielded ball bearings on both motor ends

Ease of Impeller Assembly or Removal: Conveniently accessible shaft flats or screw driver slots to hold onto the motor shaft

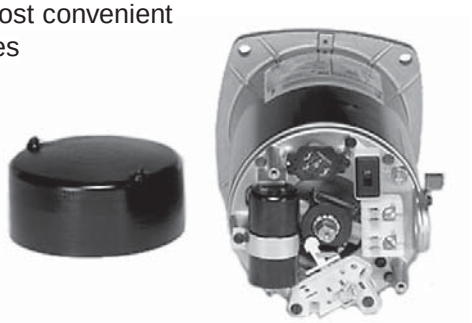
Shaft Extensions: Corrosion-resistant 303 stainless steel shaft extensions on U.S. MOTORS® brand two-compartment construction motors.

Agency: UL®† Recognized and CSA®† Certified

Water Systems Products

Improved technology and compact design advances field-friendly features to a new level.

- New stamped steel dome cover with captive fasteners
- Easy to access shaft flats to hold shaft during pump assembly and disassembly
- New angled surface terminal board for greater top-down visibility. The terminals are aligned properly with the conduit opening
- One of the industry's most convenient voltage selection devices



† All marks shown within this document are properties of their respective owners.

Special Application Single Phase, Open Drip-Proof (ODP) Jet Pump, Square Flange & C-Face, Capacitor Start

APPLICATIONS:

For jet pumps, booster pumps, centrifugal pumps, lawn sprinkler pumps.

FEATURES:

- 303 Stainless Steel Shaft
- C-Face: 7/16-20 UNF2A thread
- Square Flange: 1/2-20 UNC-2A thread
- Ball Bearings (Locked Drive End Bearing)
- Continuous Duty
- 60 Hz
- E-Z Access™ Motor Cover
- 40°C Ambient
- Automatic Reset Thermal Overload Protector
- Round Frame (Without Base), NEMA®† 56C C-Face or Square Flange Mounting
- Power Leads Supplied For Proper Connection To Pressure Switch
- Voltage Selector Switch (Catalog Numbers Ending With "-2V" and "UPR")

C-Face, Two Compartment, E-Z Access™ Motors

HP	RPM	Voltage	Frame	Catalog Number	SF	Total Length	Ship Wt.	Full Load Amps	Notes
1/2	3600	115/230	56J	JJ0502-2V	1 .60	13 .0	25	9 .6/4 .8	UL
3/4	3600	115/230	56J	JJ0752-2V	1 .50	13 .8	21	12 .2/6 .1	UL
1	3600	115/230	56J	JJ1002-2V	1 .40	14 .0	23	13 .4/6 .7	UL
1-1/2	3600	115/230	56J	JJ1502-2	1 .30	14 .5	27	14 .0/7 .0	18, UL
2	3600	230	56J	JJ2002-2	1 .20	14 .52	27	8 .6	18, UL

Square Flange, Two Compartment, E-Z Access™ Motors

HP	RPM	Voltage	Frame	Catalog Number	SF	Total Length	Ship Wt.	SF Amps	Notes
1/2	3600	230/115	48Y	JS0502-2V	1 .95	11 .71	19	5 .9/11 .8	
3/4	3600	230/115	48Y	JS075UPR	1 .27	11 .71	20	5 .9/11 .8	UL
	3600	230/115	48Y	JS0752-2V	1 .65	12 .95	13	7 .4/14 .8	
1	3600	115/230	48Y	JS100UPR	1 .25	12 .95	23	14 .8/7 .4	UL
	3600	115/230	48Y	JS1002-2V	1 .65	12 .95	23	18 .4/9 .2	
1 .5	3600	115/230	48Y	JS1502-2V	1 .5	13 .45	27	19 .6/9 .8	18
2	3600	230	48Y	JS2002-2	1 .3	13 .45	27	11 .0	18

Note 18: Incorporates Run Capacitor
Note UL: Motors Meet UL®† 778 Approvable Design for Water Protection Specifications

Commercial Duty Pump Motors

For use on chiller, condensate and other HVACR duty pumps, booster, irrigation, dishwasher and parts washer pumps, along with many other commercial duty applications.

Horsepower: 1/4 – 60 HP

Phase: Single and Three Phase

RPM: 3600, 1800 or 1200 RPM

Voltage:

- Single Phase: 208-230/115 Volts, 50/60 Hz options
- Three Phase: 208-230/460 and 190/380-415 Volts, 60/50 Hz (575 Volts available)

Efficiency: Standard, Energy Efficient and Extreme-E®

Bolt-On Base: Many ratings provide for removable base construction

Mounting Options:

- NEMA®† 56C, TC, TSC and 56J
- Bolt-on base models provide for both shaft down, vertically mounted pump applications and rigid base, horizontally mounted pump applications

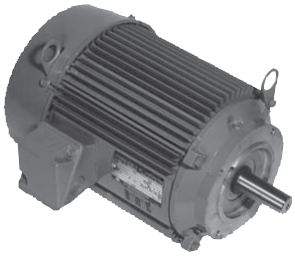
Enclosure: Open Drip-Proof (ODP) and Totally Enclosed, Fan Cooled (TEFC)

Bearings: Double sealed ball bearings on all 56-Frame commercial duty pump motors. Double shielded ball bearings on all other motors.

303 Stainless Steel Shaft Extensions: on 56J mount motors providing superior corrosion resistance

Agency: UL®† Recognized and CSA®† Certified

extreme-E®



Three Phase, (TEFC) C-Face

Single Phase, (ODP) C-Face

Split Phase Hot Water Circulating Pump, (ODP)

† All marks shown within this document are properties of their respective owners.

Special Application Commercial Pump Single Phase Totally Enclosed, Fan Cooled (TEFC) C-Face

APPLICATIONS:

For use on chiller, condensate, and other HVACR duty pumps, booster and irrigation pumps, dishwasher and part washer pumps, watering and de-watering pumps, and other commercial duty pumping applications.

FEATURES:

- Double Sealed Ball Bearings
- Class B Insulation, Continuous Duty, 40°C Ambient
- Shaft Threads for 56J Mount: 7/16-20 UNC-2A
- 50/60 Hz Motors have 1.0 S.F. on 50 Hz
- F1 Assembly
- Reversible Rotation
- Capacitor Start, Induction Run

HP	RPM	Voltage	Frame	Catalog Number	Base (Feet)	SF	Total Length	Ship Wt.	Max. Amps	Notes	
1/3	3600	115/208-230	56C	EC01	No	1.15	11 .4	22	6 .6/3 .2-3 .3	24, 98	
	3600	115/208-230	56J	EU01	Remov.	1.15	11 .9	23	6 .6/3 .2-3 .3	24, 98	
	1800	115/208-230	56C	T13CA2JCR	No	1.15	11 .0	31	6 .6/3 .0-3 .3	24	
1/2	3600	115/208-230	56C	EC03	No	1.15	11 .4	23	7 .8/4 .1-3 .9	24, 98	
	3600	115/208-230	56C	EC03B	Rigid	1.15	11.4	24	7.8/4.1-3.9	24, 98	
	3600	115/208-230	56J	EU03	Remov.	1.15	11 .9	24	7 .8/4 .1-3 .9	24, 98	
	1800	100-120/200-240	56C	6212	Rigid	1.25	12 .0	25	6 .3-5 .6/3 .1-2 .8	18, 24, 98	
	1800	100-120/200-240	56C	T12C2ZCR	No	1.25	12 .2	25	6 .3-5 .6/3 .1-2 .8	25, 98	
	1800	115/208-230	56C	T12CA2JCR	No	1.15	11 .4	23	9 .0/4 .3-4 .5	24	
	1725	115/208-230	56J	EU04	Remov.	1.15	11.3	35	8.8/4.3-4.4	24	
3/4	3600	115/208-230	56C	T34C1JC	Rigid	1.15	11 .9	30	10 .4/ .5 .3-5 .2	25	
	3600	115/208-230	56C	EC06	No	1.15	11 .9	26	10 .0/5 .2-5 .0	24, 98	
	3600	115/208-230	56J	EU05	Remov .	1.15	12 .4	27	10 .0/5 .2-5 .0	24, 98	
	1800	100-120/200-240	56C	T34C2ZCR	No	1.25	12 .4	32	9 .2-8 .4/4 .6-4 .2	18, 25, 98	
	1800	115/208-230	56C	T34CA2JCR	No	1.15	11 .9	27	11 .4/5 .7-5 .7	24	
	1200	115/208-230	56C	T34C3JCR	No	1.15	13 .4	28	10 .8/5 .4-5 .3	18, 25	
1	3600	115/208-230	56C	EC09B	Rigid	1.15	12.1	29	12.8/6.6-6.4	24, 98	
	3600	115/208-230	56J	EU07	Remov.	1.15	12 .6	29	12 .8/6 .6-6 .4	24, 98	
	3600	115/208-230	56C	T1CA1JCR	No	1.15	12 .4	27	13 .6/6 .9-6 .8	24	
	1800	115/208-230	56C	T1CA2JCR	No	1.15	12 .4	43	14 .0/6 .9-7 .0	24	
	1800	115/208-230	56C	EC10B	Rigid	1.15	12.4	37	13.6/7.0-6.8	24	
1-1/2	3600	115/208-230	56C	EC11B	Rigid	1.15	12.6	36	16.6/9.0-8.3	24, 98	
	3600	115/208-230	56J	EU09	Remov.	1.15	13 .1	36	16 .6/9 .0-8 .3	24, 98	
	3600	115/208-230	56C	T32CA1JCR	No	1.15	12 .9	32	14 .6/8 .1-7 .4	24, 18	
	1800	115/208-230	56C	T32CA2JCR	No	1.15	13 .9	31	14 .4/8 .0-7 .2	24, 18	
	1800	115/208-230	56C	EC12B	Rigid	1.15	12.4	38	14.0/7.7-7.0	18, 24	E
2	3600	208-230	56C	EC13	No	1.15	12 .9	37	9 .6-9 .0	18, 24, 98	E
	3600	208-230	56C	EC13B	Rigid	1.15	12.9	38	9.6-9.0	18, 24, 98	E
	3600	208-230	56J	EU11	Remov.	1.15	13 .4	38	9 .6-9 .0	18, 24, 98	E
	1800	115/208-230	56C	T2CA2JCR	No	1.00	14 .4	31	18 .9/10 .3-9 .4	24, 18	
	1800	115/208-230	145TC	T2C2J14C	Rigid	1.00	14 .0	46	18 .9/10 .3-9 .4	18, 25	
	1800	115/208-230	56HC	T2C2JHC	Rigid	1.15	13 .9	43	18 .9/10 .3-9 .4	18, 25	
3	3600	208-230	56J	EU12	Remov.	1.15	13 .9	39	13 .7-13 .0	18, 24	E

extreme-E® Extreme-E® represents our most efficient running, highest performing line of pump motors.

Note 18: Incorporates Run Capacitor
Note 24: Automatic Reset Thermal Overload Protector
Note 25: Non-Protected
Note 98: 50/60 Hz Motor

Special Application Commercial Pump Single Phase Open Drip-Proof (ODP) C-Face

APPLICATIONS:

For use on chiller, condensate, and other HVACR duty pumps, booster and irrigation pumps, dishwasher and part washer pumps, watering and de-watering pumps, and other commercial duty pumping applications.

FEATURES:

- Double Sealed Ball Bearings - Locked Drive End Bearing
- 50/60 Hz Motors have 1.0 S.F. on 50 Hz
- Class B Insulation
- Continuous Duty
- 40°C Ambient
- F1 Assembly
- Reversible Rotation
- Shaft Threads for 56J Mount: 7/16-20 UNC-2A

HP	RPM	Voltage	Frame	Catalog Number	Base (Feet)	SF	Total Length	Ship Wt.	Dripcover Kit	Max. Amps	Notes
1/3	3600	115/208-230	56C	EC0332B	Rigid	1.75	10.8	17	DC48	8.0/4.2-4.0	24, 98
	3600	115/208-230	56J	EU0332	No	1 .75	11 .3	16	DC48	8 .0/4 .2-4 .1	24, 98
1/2	3600	115/208-230	56C	EC0502	No	1 .60	11 .2	17	DC56	10 .8/5 .9-5 .4	24, 98
	3600	115/208-230	56J	EU0502	No	1 .60	11 .7	17	DC56	10 .8/5 .9-5 .5	24, 98, PF
	3600	115/208-230	56J	EU0502B	Remov.	1.60	11.6	18	DC48	10.4/5.1-5.2	24, 98
	1800	115/208-230	56C	EC0504	No	1 .25	11 .0	20	DC48	10 .0/5 .1-5 .0	24
	1800	115/208-230	56C	EC0504B	Rigid	1.25	10.4	22	DC56	10.0/5.1-5.0	24
3/4	3600	208-230/115	56C	EC0752	No	1 .50	11 .9	18	DC56	7 .0-6 .4/12 .8	24, 98
	3600	208-230/115	56J	EU0752	No	1 .50	12 .4	18	DC48	7 .0-6 .4/12 .8	24, 98, PF
	3600	208-230/115	56J	EU0752B	Remov.	1.50	12.1	19	DC48	7.3-7.0/14.0	24, 98
	1800	115/208-230	56C	D34CA2JCR	No	1 .25	11 .0	26	DC56	11 .4/5 .7-5 .7	24, FL
1	3600	208-230/115	56C	EC1002	No	1 .40	12 .2	20	DC56	8 .5-7 .7/15 .4	24, 98
	3600	208-230/115	56J	EU1002	No	1 .40	12 .7	20	DC48	8 .5-7 .7/15 .4	24, 98, PF
	3600	208-230/115	56J	EU1002B	Remov.	1.40	12.4	21	DC48	8.6-8.1/16.2	24, 98
	1800	208-230/115	56C	EC1004B	Rigid	1.15	11.6	31	DC56	8.4-8.2/16.4	24
1-1/2	3600	208-230/115	56C	EC1502	No	1 .30	12 .4	30	DC56	11 .3-10 .9/21 .8	24, 98, PF
	3600	208-230/115	56J	EU1502	No	1 .30	12 .9	30	DC56	11 .3-10 .9/21 .8	24, 98
	3600	208-230/115	56J	EU1502B	Remov.	1.30	12.9	31	DC56	11.3-10.9/21.8	24, 98
	1800	115/208-230	56C	D32CA2JCR	No	1 .15	12 .4	39	DC56	20 .4/10 .0-10 .2	24, FL
2	3600	208-230/115	56C	EC2002	No	1 .20	12 .4	32	DC56	12 .2-11 .1/22 .2	18, 98, PF
	3600	208-230/115	56C	EC2002B	Rigid	1.20	12.4	33	DC56	12.2-11.1/22.2	18, 98
E	3600	208-230/115	56J	EU2002	No	1 .20	12 .9	32	DC56	12 .2-11 .1/22 .2	18, 98
	3600	208-230/115	56J	EU2002B	Remov.	1.20	12.9	33	DC56	12.2-11.1/22.2	18, 98
	1800	115/208-230	56C	D2CA2JCR	No	1 .15	14 .0	40	DC56	20 .0/11 .3-10 .0	18, 24, FL
	1800	115/208-230	56HC	D2C2JHC	Rigid	1 .15	13 .0	41	DC56	20 .0/11 .3-10 .0	18, 25, FL
3	3600	208-230	56C	EC3002	No	1 .15	12 .9	37	DC56	15 .7-14 .2	18, 24
E	3600	208-230	56J	EU3002	No	1 .15	13 .4	37	DC56	15 .7-14 .2	18, 24
	3600	208-230	56J	EU3002B	Remov.	1.15	13.4	38	DC56	15.7-14.2	18, 24

extreme-E® Extreme-E® represents our most efficient running, highest performing line of pump motors.

Note 18: Incorporates Run Capacitor
Note 24: Automatic Reset Thermal Overload Protector
Note 98: 50/60 Hz Motor
Note FL: All Listed Amps are Full Load Amps

Note PF: Pump and Fan duty only.
Additional pump offering available in the Pool & Spa Standard Motor Catalog
All 2HP and 3HP pump motors are Extreme-E rated.
*Drip Cover Kits sold in multiples of three:
DC48; DC56

Special Application Carbonator Pump Single Phase, Open Drip-Proof (ODP) Split Phase

APPLICATIONS:

Designed end shield with extended hub and short slotted shaft for close coupling carbonator pump to motor.

FEATURES:

- For Carbonator Duty Only
- Reversible Rotation
- Automatic Reset Thermal Overload Protector
- Threaded Conduit Hub
- All Ball Bearing Construction
- Green Ground Lead
- Special Slotted Shaft

Resilient Base

HP	RPM	Voltage	Frame	Catalog Number	SF	Total Length	Ship Wt.	Full Load Amps	Notes
1/4	1800	120/240	48YZ	6001	1 .00	7 .7	15	5 .5/2 .7 4 .4/2 .2	98
	1800	115	48YZ	1004	1 .00	7 .7	15	5 .0	
	1800	200-240	48YZ	1004H	1 .00	7 .7	15	2 .5/3 .0 2 .3/2 .3	98
1/3	1800	100-120/200-240	48YZ	6079	1 .00	8 .3	16	6 .5/3 .0	98
	1800	115	48YZ	1003	1 .00	7 .7	16	6 .5	
1/2	1800	120/240	48YZ	6078	1 .00	8 .7	17	7 .5/3 .6	98
	1800	115	48YZ	6080	1 .00	8 .7	18	8 .4	
3/4	1800	120/240	48YZ	872	1 .00	9 .7	19	10 .0/4 .9 9 .8/4 .9	98

Rigid Base

HP	RPM	Voltage	Frame	Catalog Number	SF	Total Length	Ship Wt.	Full Load Amps	Note
3/4	1725	480&380	48Y	1057	9	9.5	17	1.5	98

Note 98: 50/60 Hz Motor

Split Phase Hot Water Circulating Pump
Open Drip-Proof (ODP)

APPLICATIONS:

Designed to meet manufacturer's requirements for use on hot water circulating pumps.

FEATURES:

- Painted Red To Indicate Hot-Water Usage
- 40°C Ambient
- Reversible Rotation
- Resilient Hub Rings
- Special Balance For Quiet Operation
- Class B Insulation
- 1725 RPM
- Automatic Reset Thermal Overload Protector
- Sleeve Bearings Have All Angle Thrust System
- Units Match OEM Performance And Mechanical Features
- Sleeve Bearings Unless Noted

Split Phase, NEMA Frame 48YZ

HP	Voltage	Catalog Number	Amps	Bolt Circle	Rings OC	SF	Rotation Shaft End	Ship Wt.	Notes	Industry Numbers
1/12	115	3255	2.5	4.63	5.94	1.75	CW	10		111034, 805316-010
1/6	115	3256	3.8	4.63	6.94	1.75	CW	13		111061, 817025-005
1/6	115	3257	3.8	5.00	6.94	1.75	CW	14		111036, 111031, 817025-001
1/4	115	3259	4.6	5.00	6.94	1.25	CW	15		111040, 817025-007, 111050
1/3	115	3260	6.0	5.86	6.94	1.30	CCW	15		169226, 816141-002, 169038

Capacitor Start, NEMA Frame 56YZ

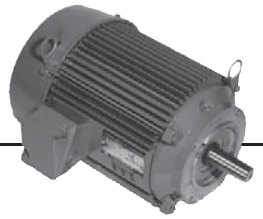
HP	Voltage	Catalog Number	Amps	Bolt Circle	Rings OC	SF	Rotation Shaft End	Ship Wt.	Notes	Industry Numbers
1/2	115/208-230	3258	5.7/3.0-2.9	5.86	7.94	1.50	Rev	27	2	111044, 169228, 811757-001
3/4	115/208-230	3261	8.2/4.7-4.2	5.86	8.44	1.50	Rev	33	2	111047, 169230, 811757-002

Three Phase, Ball Bearing, C-Face, NEMA Frame 56CZ

HP	Voltage	Catalog Number	Amps	Bolt Circle	Rings OC	SF	Rotation Shaft End	Ship Wt.	Notes	Industry Numbers
1-1/2	208-230/460	3265	5.0-4.9/2.4	5.86	-	1.35	Rev	28	2, LA	169092, 169237, 816678-069

Note 2: Coupler assembly required for proper Bell & Gossett replacement
Note LA: Limited Availability

Special Application Commercial Pump Three Phase Totally Enclosed, Fan Cooled (TEFC) C-Face



APPLICATIONS:

For use on chiller, condensate, and other HVACR duty pumps, booster and irrigation pumps, dishwasher and part washer pumps, watering and de-watering pumps, and other commercial duty pumping applications.

FEATURES:

- Totally Enclosed
- Double sealed ball bearings on all 56-Frame commercial duty pump motors. Double shielded ball bearings on all other motors.
- Continuous Duty
- 60 Hz & 60/50 Hz
- 50/60 Hz Motors have 1.0 S.F. on 50 Hz
- "CE" Mark on Nameplate
- 40°C Ambient
- NEMA®† "C" Flange Mounting
- Premium 303 Stainless Steel on 56J Mount, Carbon Steel on All Others
- Shaft Threads for 56J Mount: 7/16-20 UNC-2A

HP	RPM	Voltage	Frame	Catalog Number	Base (Feet)	SF	Total Length	Ship Wt.	Full Load Eff.	Max. Amps	Notes
1/4	1800	575	56C	U14S2GC	Rigid	1 .25	10 .8	20	-	0 .4	26
	1800	208-230/460	56C	U14S2AC	Rigid	1 .25	10 .8	20	-	1 .3-1 .4/0 .7	26
	1800	208-230/460	56C	U14S2ACR	No	1 .25	10 .8	20	-	1-1/0 .5	16
1/3	1800	575	56C	U13S2GC	Rigid	1 .25	10 .8	22	-	0 .5	26
	1800	208-230/460	56C	U13S2AC	Rigid	1 .25	10 .8	20	-	1 .5-1 .5/0 .8	26
	1800	208-230/460	42CZ	T13S2D42ZCR	No	1 .00	11 .6	19	65 .0	1 .5-1 .5/0 .75	26, 98
	1800	208-230/460	56C	U13S2ACR	No	1 .25	10 .8	22	-	1 .2-1 .2/0 .6	16
	1200	208-230/460	56C	U13S3AC	Rigid	1 .25	10 .8	23	-	1 .3-1 .3/0 .6	26
	1200	208-230/460	56C	T13S3DCR	No	1 .15	11 .4	23	77 .0	1 .6-1 .6/0 .80	26
1/2	3600	208-230/460	56C	U12S1AC	Rigid	1 .25	10 .8	23	-	1 .7-1 .6/0 .8	26
	3600	208-230/460	56J	EE283	No	1 .15	11 .6	26	-	2 .22-2 .2/1 .1	98
	3600	208-230/460	56J	EE283B	Rigid	1.15	11.6	26	-	2.22-2.2/1.1	98
	3600	208-230/460	56C	T12S1ACR	No	1 .25	11 .4	26	64 .0	2 .18-2 .18/1 .09	03, 16
	1800	575	56C	U12S2GC	Rigid	1 .25	10 .8	24	-	0 .7	03, 26
	1800	208-230/460	56C	U12S2AC	Rigid	1 .25	10 .8	24	-	1 .8-1 .8/0 .9	03, 26
	1800	575	56C	U12S2GCR	No	1 .25	10 .8	24	-	0 .7	03, 26
	1800	208-230/460	56C	U12S2ACR	No	1 .25	10 .8	24	-	1 .8-1 .8/0 .9	03, 16
	1200	208-230/460	56C	U12S3AC	Rigid	1 .25	11 .5	25	-	2 .1-2 .0/1 .0	26
	1200	208-230/460	56C	U12S3ACR	No	1 .25	10 .8	25	-	2 .1-2 .1/1 .1	16
3/4	3600	208-230/460	56C	U34S1AC	Rigid	1 .25	10 .8	24	-	2 .5-2 .2/1 .1	26
	3600	208-230/460	56J	EE515	No	1 .15	11 .6	27	-	3 .0-2 .8/1 .4	98
	3600	208-230/460	56J	EE515B	Rigid	1.15	11.6	27	-	3.0-2.8/1.4	98
	3600	208-230/460	56C	U34S1ACR	No	1 .25	10 .8	24	-	2 .5-2 .2/1 .1	16
	1800	575	56C	U34S2GC	Rigid	1 .25	10 .8	25	-	1 .1	26
	1800	208-230/460	56C	U34S2AC	Rigid	1 .25	10 .8	25	-	2 .7-2 .7/1 .4	26
	1800	575	56C	U34S2GCR	No	1 .25	10 .8	25	-	1 .1	
	1800	208-230/460	56C	U34S2ACR	No	1 .25	10 .8	25	-	2 .6-2 .7/1 .3	03, 16
	1200	208-230/460	143TC	U34S3DC	Rigid	1 .25	12 .1	35	-	3 .1-3 .1/1 .6	
	1200	208-230/460	56C	U34S3AC	Rigid	1 .25	10 .8	25	-	3 .1-3 .2/1 .6	26
	1200	208-230/460	56C	U34S3ACR	No	1 .25	12 .0	25	78 .6	3 .1-3 .2/1 .6	26
1	3600	208-230/460	56C	U1S1AC	Rigid	1 .25	10 .8	25	-	3 .2-2 .9/1 .5	26
	3600	208-230/460	56J	EE516	No	1 .15	11 .6	28	-	3 .6-3 .2/1 .6	98
	3600	208-230/460	56J	EE516B	Rigid	1.15	11.6	28	-	3.6-3.2/1.6	98
	3600	575	56J	EE516-5	Remov .	1 .15	11 .6	27	-	1 .5	
	3600	208-230/460	56C	U1S1ACR	No	1 .25	10 .8	25	-	3 .2-2 .9/1 .5	16
	1800	200	143TC	U1E2HC	Rigid	1 .25	12 .1	35	78 .5	3 .4	

Note 03: 60/50 Hz rated with no derate on HP; 230/460 V 60 Hz ratings operate on 190/380 V 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note 16: Motors marked 208-230/460 Vmay not meet all NEMA®† (MG-1) performance standards when operated at 208 V

Note 26: Does not include World Motor® features

Note 98: 50/60 Hz Motor

Special Application Commercial Pump Three Phase Totally Enclosed, Fan Cooled (TEFC) C-Face *(continued)*

HP	RPM	Voltage	Frame	Catalog Number	Base (Feet)	SF	Total Length	Ship Wt.	Full Load Eff.	Max. Amps	Notes
1	1800	575	143TC	U1E2GC	Rigid	1 .25	12 .1	35	82 .5	1 .2	
	1800	575	56C	U1S2GFC	Rigid	1 .25	12 .1	28	-	1 .4	26
	1800	208-230/460	143TC	U1P2DC	Rigid	1 .25	12 .1	35	85 .5	3 .1-3/1 .5	3
	1800	208-230/460	56C	U1S2AFC	Rigid	1 .25	12 .1	42	-	3 .4-3 .4/1 .7	26
	1800	208-230/460	56J	EE684	Remov .	1 .15	12 .4	28	-	3 .8-3 .8/1 .9	98
	1800	575	56C	U1S2GFCR	No	1 .25	12 .1	28	-	1 .4	
	1800	208-230/460	56C	U1S2AFCR	No	1 .25	12 .1	28	-	3 .3-3 .4/1 .7	16
	1200	208-230/460	145TC	U1P3DC	Rigid	1 .25	13 .1	40	82 .5	3 .6-3 .5/1 .8	3
	1200	208-230/460	56C	U1S3DFC	Rigid	1 .25	12 .1	30	-	3 .8-4/2	26
1-1/2	3600	208-230/460	143TC	U32P1DC	Rigid	1 .25	12 .1	85	84	4 .5-4 .3/2 .1	3
	3600	208-230/460	56C	U32S1AFC	Rigid	1 .25	12 .1	30	-	4 .6-4/2	26
	3600	208-230/460	56J	EE661	No	1 .15	11 .9	30	-	5 .4-5 .0/2 .5	98
	3600	208-230/460	56J	EE661B	Rigid	1.15	11.9	30	-	5.4-5.0/2.5	98
	3600	208-230/460	56C	T32S1ACR	No	1 .15	11 .4	29	80 .0	4 .7-4 .5/2 .2	98
	1800	575	145TC	U32P2GC	Rigid	1 .25	13 .1	40	86 .5	1 .7	
	1800	575	56C	U32S2GFC	Rigid	1 .25	12 .1	30	-	1 .9	26
	1800	208-230/460	145TC	U32P2DC	Rigid	1 .25	13 .1	40	86 .5	4 .5-4 .3/2 .1	3
	1800	208-230/460	56C	U32S2AFC	Rigid	1 .25	12 .1	30	-	4 .7-4 .7/2 .3	26
	1800	208-230/460	56C	U32S2AFCR	No	1 .25	12 .1	30	81 .5	4 .7-4 .7/2 .3	16
	1200	208-230/460	182TC	U32P3DC	Rigid	1 .25	16 .1	50	87 .5	4 .8-4 .7/2 .3	3
2	3600	575	145TC	U2P1GC	Rigid	1 .25	13 .1	35	85 .5	2 .0	
	3600	208-230/460	145TC	U2P1DC	Rigid	1 .25	13 .1	35	85 .5	5 .4-4 .9/2 .5	3
	3600	208-230/460	56C	U2S1AFC	Rigid	1 .25	12 .1	29	-	5 .9-5 .3/2 .6	26
	3600	208-230/460	56J	EE706	No	1 .15	12 .4	32	-	6 .9-6 .4/3 .2	98
	3600	208-230/460	56J	EE706B	Rigid	1.15	12.4	32	-	6.9-6.4/3.2	98
	3600	575	56J	EE706-5	Remov .	1 .15	12 .4	31	-	2 .5	
	3600	208-230/460	56C	T2S1ACR	No	1 .15	12 .4	29	80 .0	6 .0-5 .4/2 .7	
	1800	575	145TC	U2P2GC	Rigid	1 .25	13 .1	35	86 .5	2 .3	
	1800	575	56C	U2S2GFC	Rigid	1 .25	12 .5	30	-	2 .5	26
	1800	208-230/460	145TC	U2P2DC	Rigid	1 .25	13 .1	45	86 .5	5 .9-5 .7/2 .8	3
	1800	208-230/460	56C	U2S2AFC	Rigid	1 .25	12 .1	30	-	6 .3-6 .3/3 .2	26
	1800	208-230/460	56C	U2S2AFCR	No	1 .25	12 .1	30	80 .0	6 .3-6 .2/3 .1	16
	1200	208-230/460	184TC	U2P3DC	Rigid	1 .25	16 .9	65	88 .5	6 .4-6 .2/3 .1	3
3	3600	208-230/460	145TC	U3P1A14C	Rigid	1 .25	13 .4	47	88 .5	--	
	3600	208-230/460	182TC	U3P1DC	Rigid	1 .25	16 .1	50	88 .5	8 .4-7 .8/3 .9	3
	3600	208-230/460	56C	U3S1AFC	Rigid	1 .25	10 .8	42	-	8 .5-7 .5/3 .8	26
	3600	208-230/460	56J	EE707	No	1 .15	13 .4	40	-	9 .6-8 .6/4 .3	
	3600	208-230/460	56J	EE707B	Rigid	1.15	13.4	40	-	9.6-8.6/4.3	
	3600	575	56J	EE707-5	Remov .	1 .15	13 .4	39	-	3 .4	
	3600	208-230/460	56C	T3S1ACR	No	1 .15	13 .4	42	-	8 .5-7 .3/3 .6	
	3600	208-230/460	145TC	U3E1A14CR	No	1 .25	13 .4	37	86 .0	8 .5-7 .3/3 .6	
	3600	208-230/460	182TC	U3E1DCR	No	1 .25	16 .1	53	85 .5	8 .7-8/4	3
	3600	208-230/460	182TCH	U3E1DKR	No	1.25	16.1	53	85.5	8.7-8/4	3
	1800	208-230/460	182TC	U3P2DC	Rigid	1 .25	16 .1	70	89 .5	8 .4-7 .8/3 .9	3
	1800	208-230/460	182TCH	U3P2DK	Rigid	1.25	16.1	60	89.5	8.4-7.8/3.9	3

Note 03: 60/50 Hz rated with no derate on HP; 230/460 V 60 Hz ratings operate on 190/380 V 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

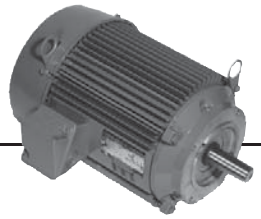
Note 16: Motors marked 208-230/460 V may not meet all NEMA®† (MG-1) performance standards when operated at 208 V

Note 26: Does not include World Motor® features

Note 98: 50/60 Hz Motor

† All marks shown within this document are properties of their respective owners.

Special Application Commercial Pump Three Phase Totally Enclosed, Fan Cooled (TEFC) C-Face *(continued)*



HP	RPM	Voltage	Frame	Catalog Number	Base (Feet)	SF	Total Length	Ship Wt.	Full Load Eff.	Max. Amps	Notes
3	1800	208-230/460	182TC	U3E2DCR	No	1 .25	16 .1	60	87 .5	8 .4-8/4	3
	1200	208-230/460	213TC	U3P3DC	Rigid	1 .25	18 .6	90	89 .5	9 .3-8 .6/4 .3	3
	1200	208-230/460	213TC	U3E3DCR	No	1 .25	18 .6	110	87 .5	9 .7-9 .1/4 .5	3
5	3600	208-230/460	184TC	U5P1DC	Rigid	1 .25	16 .9	70	89 .5	13 .4-12 .2/6 .1	3
	3600	208-230/460	184TCH	U5P1DK	Rigid	1.25	16.9	70	89.5	13.4-12.2/6.1	3
	3600	208-230/460	184TC	U5E1DCR	No	1 .25	16 .9	70	87 .5	13 .8-12 .3/6 .1	3
	1800	575	184TC	U5P2GC	Rigid	1 .25	16 .9	88	90 .2	5 .1	
	1800	208-230/460	184TC	U5P2DC	Rigid	1 .25	16 .9	88	90 .2	13 .6-12 .3/6 .2	3
	1800	575	184TC	U5E2GCR	No	1 .25	16 .9	70	87 .5	5 .1	
	1800	208-230/460	184TC	U5E2DCR	No	1 .25	16 .9	70	87 .5	14-12 .7/6 .3	
	1200	208-230/460	215TC	U5P3DC	Rigid	1 .25	20 .1	140	90 .2	15 .0-14 .0/7 .0	3
	1200	208-230/460	215TC	U5E3DCR	No	1 .25	20 .1	140	87 .5	15 .6-14 .5/7 .3	3
7-1/2	3600	208-230/460	213TC	U7P1DC	Rigid	1 .25	18 .6	100	91 .7	19 .7-17 .9/8 .9	3
	3600	208-230/460	213TC	U7E1DCR	No	1 .25	18 .6	100	88 .5	20 .4-18 .4/9 .2	3
	1800	575	213TC	U7P2GC	Rigid	1 .25	18 .6	110	91 .7	7 .2	
	1800	208-230/460	213TC	U7P2DC	Rigid	1 .25	18 .6	120	91 .7	20 .0-18 .2/9 .1	3
	1800	208-230/460	213TC	U7E2DCR	No	1 .15	18 .6	110	89 .5	20 .6-18 .8/9 .4	3
	1200	208-230/460	254TC	U7E3DCR	No	1 .25	23 .9	200	89 .5	20 .8-18 .8/9 .4	02, 03
10	3600	575	215TC	U10P1GC	Rigid	1 .25	20 .1	110	91 .7	9 .4	
	3600	208-230/460	215TC	U10P1DC	Rigid	1 .25	20 .1	110	91 .7	26 .4-23 .5/11 .8	3
	3600	208-230/460	215TC	U10E1DCR	No	1 .25	20 .1	110	89 .5	26 .7-23 .8/11 .9	3
	1800	208-230/460	215TC	U10P2DC	Rigid	1 .25	20 .1	120	91 .7	26 .5-23 .9/12 .0	3
	1800	208-230/460	215TC	U10E2DCR	No	1 .25	20 .1	120	89 .5	27 .2-24 .6/12 .3	3
	1200	208-230/460	256TC	U10P3DC	Rigid	1 .25	25 .7	230	91 .7	27 .1-24 .6/12 .3	3
	1200	208-230/460	256TC	U10E3DCR	No	1 .25	25 .7	230	89 .5	27 .5-25/12 .5	02, 03
15	3600	575	254TC	U15P1GC	Rigid	1 .25	23 .9	210	91	13 .9	
	3600	208-230/460	215TC	U15P1DFC	Rigid	1 .25	21 .5	125	91	39-35/17 .6	
	3600	208-230/460	254TC	U15P1DC	Rigid	1 .15	23 .9	210	91	39-35/17 .7	3
	3600	575	254TC	U15E1GCR	No	1 .25	23 .9	210	90 .2	14	2
	3600	208-230/460	254TC	U15E1DCR	No	1 .15	23 .9	210	90 .2	40-35/17 .6	02, 03
	1800	208-230/460	254TC	U15P2DC	Rigid	1 .25	23 .9	220	92 .4	40-37/18 .4	3
	1800	575	254TC	U15E2GCR	No	1 .25	23 .9	220	91 .0	14 .7	2
	1800	208-230/460	254TC	U15E2DCR	No	1 .25	23 .9	220	91 .0	41-37/18 .5	02, 03
20	3600	208-230/460	256TC	U20P1DC	Rigid	1 .25	25 .7	230	91 .7	51-46/22 .9	3
	3600	208-230/460	256TC	U20E1DCR	No	1 .25	25 .7	230	90 .2	53-47/23 .4	02, 03
	1800	208-230/460	256TC	U20P2DC	Rigid	1 .25	25 .7	250	93 .0	53-47/23 .7	3
	1800	208-230/460	256TC	U20E2DCR	No	1 .25	25 .7	250	91 .0	54-49/24 .3	02, 03
25	3600	575	284TC	U25P1GC	Rigid	1 .25	28 .3	250	91 .7	22 .7	
	3600	208-230/460	284TC	U25P1DC	Rigid	1 .25	28 .3	250	91 .7	65-57/28 .4	3
	3600	575	284TC	U25E1GCR	No	1 .25	28 .3	290	91 .0	22 .9	2
	3600	208-230/460	284TC	U25E1DCR	No	1 .25	28 .3	290	91 .0	65-57/28 .7	02, 03
	1800	208-230/460	284TC	U25P2DC	Rigid	1 .25	28 .3	290	93 .6	65-59/29 .3	3
	1800	208-230/460	284TC	U25E2DCR	No	1 .25	28 .3	290	92 .4	67-59/29 .6	02, 03
30	1800	208-230/460	286TC	U30P2DC	Rigid	1 .25	28 .3	325	93 .6	78-70/35	3
	1800	208-230/460	286TC	U30E2DCR	No	1 .25	28 .3	320	92 .4	80-72/36	02, 03

Note 02: Suitable for Wye-Delta start on voltages shown
Note 03: 60/50 Hz rated with no derate on HP; 230/460 V 60 Hz ratings operate on 190/380 V 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Special Application Commercial Pump Three Phase Open Drip-Proof (ODP) C-Face

APPLICATIONS:

For use on chiller, condensate, and other HVACR duty pumps, booster and irrigation pumps, dishwasher and part washer pumps, watering and de-watering pumps, and other commercial duty pumping applications.

FEATURES:

- "CE" Mark on nameplate (140 Frame and Larger)
- Double Sealed Ball Bearings on All 56-Frame Commercial Duty Pump Motors; Double Shielded Ball Bearings on All Others
- Continuous Duty
- 60 Hz & 60/50 Hz
- 50/60 Hz Motors have 1.0 S.F. on 50 Hz
- 40°C Ambient
- Suitable for Wye-Delta start 250-Frame and larger
- NEMA®† "C" Flange Mounting
- Shaft Threads for 56J Mount: 7/16-20 UNC-2A
- Premium 303 S.S. on 56J; Mount & Carbon Steel on All Others

HP	RPM	Voltage	Frame	Catalog Number	Base (Feet)	SF	Total Length	Ship Wt.	Dripcover Kit	Max. Amps	Notes
3/4	3600	208-230/460	56C	EE508	No	1 .50	11 .3	25	DC48	3 .8-3 .6/1 .8	3
	3600	208-230/460	56J	EE446	No	1 .50	11 .8	25	DC48	3 .8-3 .6/1 .8	3
	3600	208-230/460	56J	EE446B	Rigid	1.50	11.6	25	DC56	3.7-3.6/1.8	3
	1800	208-230/460	56C	D34S2ACR	No	1 .25	11 .4	22	DC56	2 .8-2 .7/1 .4	FL
	1200	208-230/460	56C	D34S3DCR	No	1 .15	12 .0	30	DC56	3 .4-3 .5/1 .7	26, FL
1	3600	208-230/460	56C	EE511	No	1 .40	11 .6	26	DC48	4 .6-4 .6/2 .3	3
	3600	208-230/460	56C	EE511B	Rigid	1.40	11.1	26	DC56	4.4-4.2/2.1	3
	3600	208-230/460	56J	EE506	No	1 .40	12 .1	26	DC48	4 .6-4 .6/2 .3	3
	3600	208-230/460	56J	EE506B	Rigid	1.40	11.6	26	DC56	4.4-4.2/2.1	3
	1800	208-230/460	56HC	D1S2AHC	Rigid	1 .25	12 .0	28	DC56	3 .2-3 .0/1 .5	FL
1-1/2	3600	208-230/460	56C	EE609	No	1 .30	11 .4	27	DC56	6 .0-5 .8/2 .9	3
	3600	208-230/460	56C	D32S1AHC	Rigid	1 .15	11 .9	27	DC56	4 .7-4 .4/2 .2	26, FL
	3600	208-230/460	56J	EE607	No	1 .30	11 .9	27	DC56	6 .0-5 .8/2 .9	3
	3600	208-230/460	56J	EE607B	Rigid	1.30	11.9	27	DC56	6.0-5.8/2.9	3
	1800	208-230/460	56C	D32S2ACR	No	1 .25	12 .4	32	DC56	4 .9-5 .0/2 .5	03, FL
2	3600	208-230/460	56C	EE612	No	1 .15	11 .9	33	DC56	6 .0-5 .7/2 .9	
	3600	208-230/460	56C	D2S1AHC	Rigid	1 .15	11 .9	33	DC56	6 .0-5 .4/2 .7	FL
	3600	208-230/460	56J	EE733	No	1 .20	12 .4	30	DC56	6 .6-6 .4/3 .2	3
	3600	208-230/460	56J	EE733B	Rigid	1.20	12.4	30	DC56	6.6-6.4/3.2	3
	3600	575	56J	EE733-5	Remov .	1 .20	12 .4	30	DC56	2 .6	
	1800	208-230/460	56C	D2S2ACR	No	1 .15	13 .0	35	DC56	6 .1-6 .2/3 .1	FL
3	3600	208-230/460	56C	EE736	No	1 .15	12 .9	35	DC56	9 .6-9 .4/4 .7	
	3600	208-230/460	56J	EE734	No	1 .15	13 .4	35	DC56	9 .6-9 .4/4 .7	
	3600	208-230/460	56J	EE734B	Rigid	1.15	13.4	35	DC56	9.6-9.4/4.7	
	3600	575	56J	EE734-5	Remov .	1 .15	13 .4	35	DC56	3 .4	
5	3600	208-230/460	182TC	D5P1DC	Rigid	1 .15	16	50	969957	15 .7-14 .7	03, FL
	1800	208-230/460	184TC	D5P2DC	Rigid	1 .15	16 .0	60	969574	13 .8-13/6 .5	03, FL
7-1/2	3600	208-230/460	184TC	D7P1DC	Rigid	1 .15	16 .0	60	969574	20 .3-18 .1/9 .1	03, FL
	1800	208-230/460	213TC	D7P2DC	Rigid	1 .15	17 .0	100	969575	20 .2-18 .5/9 .3	03, FL
10	3600	208-230/460	213TC	D10P1DC	Rigid	1 .15	18 .0	100	969575	27 .1-24 .3/12 .2	03, FL
	1800	208-230/460	215TC	D10P2DC	Rigid	1 .15	18 .0	110	969575	26 .3-23 .8/11 .9	03, FL
15	3600	208-230/460	215TC	D15P1DC	Rigid	1 .15	18 .0	110	969575	40-36/18	03, FL

Note 03: 60/50 Hz rated with no derate on HP; 230/460 V 60 Hz ratings operate on 190/380 V 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note 26: Does not include World Motor® features

Note FL: All Listed Amps are Full Load Amps

Special Application Commercial Pump Three Phase Open Drip-Proof (ODP) C-Face *(continued)*

HP	RPM	Voltage	Frame	Catalog Number	Base (Feet)	SF	Total Length	Ship Wt.	Dripcover Kit	Max. Amps	Notes
20	3600	208-230/460	254TC	D20P1DC	Rigid	1 .15	23 .0	160	472131	52-47/23 .4	02, 03, FL
	1800	208-230/460	256TC	D20P2DC	Rigid	1 .15	24 .0	170	472131	54-49/24 .4	02, 03, FL
25	3600	208-230/460	256TC	D25P1DC	Rigid	1 .15	24 .0	170	472131	63-57/28 .7	02, 03, FL
	1800	208-230/460	284TC	D25P2DC	Rigid	1 .15	25 .0	315	969578	64-58/29	02, 03, FL
30	1800	208-230/460	286TC	D30P2DC	Rigid	1 .15	25 .0	350	969578	77-69/34	02, 03, FL
40	3600	208-230/460	286TSC	D40P1DSC	Rigid	1 .15	23 .5	350	969578	100-90/45	02, 03, FL
	1800	208-230/460	324TC	D40P2DC	Rigid	1 .15	27 .3	385	969579	102-91/46	02, 03, FL
50	3600	208-230/460	324TSC	D50P1DSC	Rigid	1 .15	25 .8	385	969579	130-117/59	02, 03, FL
	1800	208-230/460	326TC	D50P2DC	Rigid	1 .15	27 .3	415	969579	126-113/56	02, 03, FL
60	3600	208-230/460	326TSC	D60P1DSC	Rigid	1 .15	25 .8	415	969579	152-136/68	02, 03, FL

Note 02: Suitable for Wye-Delta start on voltages shown
Note FL: All Listed Amps are Full Load Amps

Note 03: 60/50 Hz rated with no derate on HP; 230/460 V 60 Hz ratings operate on 190/380 V 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Close Coupled Pump Motors

For specific requirements of centrifugal pumps where the pump impeller is mounted directly on the motor shaft.

Horsepower: 1 – 60 HP

Phase: Single and Three Phase

RPM: 1800 and 3600 RPM

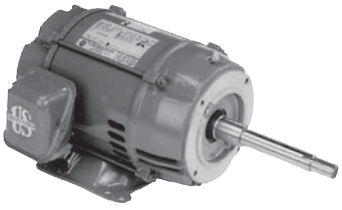
Voltage:
- 115/230
- 230
- 575
- 208-230/460
- 200
- 230/460 Volts

Efficiency: Standard, Energy and Premium Efficient

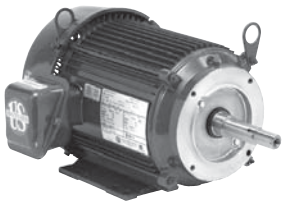
Enclosure:
- Open Drip-Proof (ODP)
- Totally Enclosed, Fan Cooled (TEFC)
- Hazardous Location

Mounting: Footed and Footless

Shaft Types:
- JM
- JP
- Westcoast



Close Coupled Pump ODP Motor

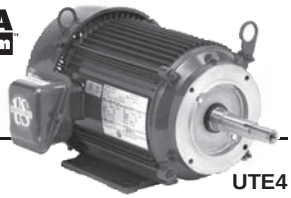


U.S. MOTORS® brand Close Coupled Pump Motors are designed to meet a variety of applications

Single Phase:
- Open Drip-Proof (ODP)
  - JM Shaft Footed
  - JP Shaft Footed
- Totally Enclosed, Fan Cooled (TEFC)
  - JM Shaft Footed
  - JP Shaft Footed

Three Phase:
- Open Drip-Proof Standard and Premium Efficient
  - JM Shaft Footed & Footless
  - JP Shaft Footed & Footless
  - Westcoast Shaft Footed (Standard Efficient only)
- Open Drip-Proof Energy Efficient
  - JM Shaft Footed
  - JP Shaft Footed
- Hazardous Location, Dual Label
  - JM Shaft Footed
- Totally Enclosed, Fan Cooled (TEFC) Standard and Energy Efficient
  - JM Shaft Footed
  - JP Shaft Footed
  - Westcoast Footed (Standard Efficient Only)
- Totally Enclosed, Fan Cooled (TEFC) Premium Efficient
  - JM Shaft Footed

Special Application Close Coupled Pump Three Phase Totally Enclosed Fan Cooled (TEFC) NEMA®† Premium Efficient



UTE4

APPLICATIONS:

For the specific requirements of centrifugal pumps where the pump impeller is mounted directly on the motor shaft. Used in damp, dusty or dirty environments.

FEATURES:

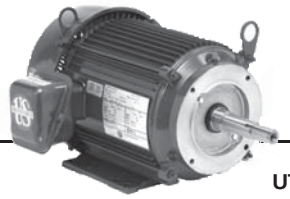
- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- Cast Iron Frame 280 & Up, Aluminum 180-250, Rolled Steel 140
- Cast Iron End Brackets 280 & Up, Aluminum With Steel Bearing Inserts
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- Regreasable Shaft End Bearing 180 Frame & Up
- Double Shielded Bearings
- Removable Base (180 - 250 Frame)
- Lifting Provisions 180 Frame & Up
- "JM" Shaft For Mechanical Seal
- "CE" Mark On Nameplate
- Conversion Kits: Canopy Kits

JM Shaft - Footed

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
1	3600	575	143JM	UJ1P1GM	$529	DS-3PT	1.25	14.3	30	81.5	1.1	
	1800	230/460	143JM	UJ1P2BM	$518	DS-3PT	1.25	14.3	35	85.5	3/1.5	
	1800	575	142JM	UJ1P2GM	$518	DS-3PT	1.25	14.3	30	85.5	1.1	
1 1/2	3600	230/460	143JM	UJ32P1BM	$584	DS-3PT	1.25	14.3	30	84.0	3.9/1.9	
	3600	575	143JM	UJ32P1GM	$584	DS-3PT	1.25	14.3	30	84.0	1.6	
	1800	230/460	145JM	UJ32P2BM	$565	DS-3PT	1.25	14.3	42	86.5	4.2/2.1	
	1800	575	145JM	UJ32P2GM	$565	DS-3PT	1.25	14.3	30	86.5	1.7	
2	3600	575	145JM	UJ2P1GM	$622	DS-3PT	1.25	14.3	42	86.5	2	
	1800	230/460	145JM	UJ2P2BM	$611	DS-3PT	1.25	14.3	40	86.5	5.8/2.9	
	1800	575	145JM	UJ2P2GM	$611	DS-3PT	1.25	14.3	35	86.5	2.3	
3	3600	230/460	182JM	UJ3P1BM	$886	DS-3PT	1.25	17.8	100	87.5	7.8/3.9	
	3600	575	182JM	UJ3P1GM	$886	DS-3PT	1.25	17.8	100	87.5	3.1	
	1800	230/460	182JM	UJ3P2BM	$795	DS-3PT	1.15	17.8	80	88.5	8/4	NNP
	1800	575	182JM	UJ3P2GM	$795	DS-3PT	1.25	17.8	60	89.5	3.1	
5	3600	230/460	184JM	UJ5P1BM	$1,088	DS-3PT	1.25	17.8	100	88.5	12.2/6.1	
	3600	575	184JM	UJ5P1GM	$1,088	DS-3PT	1.25	17.8	100	88.5	4.9	
	1800	230/460	184JM	UJ5P2BM	$908	DS-3PT	1.25	17.8	100	90.2	6.3/6.3	
	1800	575	184JM	UJ5P2GM	$908	DS-3PT	1.25	17.8	70	89.5	5	
7 1/2	3600	230/460	213JM	UJ7P1BM	$1,345	DS-3PT	1.25	19.9	105	91.0	17.8/8.9	
	3600	575	213JM	UJ7P1GM	$1,345	DS-3PT	1.25	19.8	240	91.0	7.1	
	1800	230/460	213JM	UJ7P2BM	$1,228	DS-3PT	1.25	19.8	120	91.0	18.3/9.2	NNP
	1800	575	213JM	UJ7P2GM	$1,228	DS-3PT	1.25	19.8	105	91.7	7.2	
10	3600	230/460	215JM	UJ10P1BM	$1,556	DS-3PT	1.25	21.4	166	91.0	23.5/11.7	
	3600	575	215JM	UJ10P1GM	$1,556	DS-3PT	1.25	21.4	166	91.0	9.4	
	1800	230/460	215JM	UJ10P2BM	$1,458	DS-3PT	1.00	21.4	166	91.7	23.8/11.9	
	1800	575	215JM	UJ10P2GM	$1,458	DS-3PT	1.25	21.4	120	91.7	9.6	
15	3600	230/460	254JM	UJ15P1BM	$2,239	DS-3PT	1.25	25.4	220	91.0	35/17.7	
	3600	575	254JM	UJ15P1GM	$2,239	DS-3PT	1.25	25.4	220	91.0	14.1	
	1800	230/460	254JM	UJ15P2BM	$2,131	DS-3PT	1.25	25.4	240	93.0	37/18.4	
	1800	575	254JM	UJ15P2GM	$2,131	DS-3PT	1.15	25.4	180	92.4	14.6	
20	3600	230/460	256JM	UJ20P1BM	$2,730	DS-3PT	1.25	27.1	344	92.4	46/23	
	3600	575	256JM	UJ20P1GM	$2,730	DS-3PT	1.25	27.1	344	91.0	18.5	
	1800	230/460	256JM	UJ20P2BM	$2,463	DS-3PT	1.15	27.1	250	93.0	47/23.7	
	1800	575	256JM	UJ20P2GM	$2,463	DS-3PT	1.25	27.1	230	93.0	19	
25	3600	230/460	284JM	HJ25P1BM	$3,595	DS-3PT	1.15	27.9	350	91.7	60/30	
	3600	575	284JM	HJ25P1GM	$3,595	DS-3PT	1.15	27.9	380	91.7	23	
	1800	230/460	284JM	HJ25P2BM	$3,237	DS-3PT	1.15	27.9	350	93.6	59/29.3	
	1800	575	284JM	HJ25P2GM	$3,237	DS-3PT	1.15	27.9	380	93.6	23	
30	3600	230/460	286JM	HJ30P1BM	$4,383	DS-3PT	1.15	27.9	275	91.7	69/34	
	3600	575	286JM	HJ30P1GM	$4,383	DS-3PT	1.15	27.9	410	91.7	27.6	
	1800	230/460	286JM	HJ30P2BM	$3,666	DS-3PT	1.15	27.9	475	93.6	69/35	
	1800	575	286JM	HJ30P2GM	$3,666	DS-3PT	1.15	27.9	410	93.6	27.6	

Note NNP Non-NEMA®† Premium Rating

Special Application Close Coupled Pump Three Phase Totally Enclosed Fan Cooled (TEFC) Energy Efficient



UT4

APPLICATIONS:

For the specific requirements of centrifugal pumps where the pump impeller is mounted directly on the motor shaft. Used in damp, dusty or dirty environments.

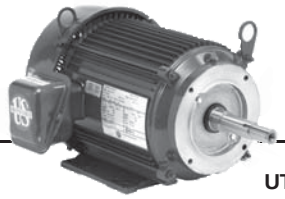
FEATURES:

- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- Extruded Aluminum Frame (140: Rolled Steel)
- Aluminum End Shields With Steel Bearing Inserts
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- Regreasable Shaft End Bearing 180 Frame & Up
- "CE" Mark On Nameplate
- Double Shielded Bearings
- Removable Base 180 Frame & Up
- Lifting Provisions 180 Frame & Up
- "JP" Shaft For Packing Seal
- Conversion Kits: Canopy Kits

JM Shaft - Footed

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt (lbs)	Full Load Eff.	Full Load Amps	Notes
1	1800	208-230/460	143JM	UJ1E2DM	$414	DS-3PT	1.25	14.3	35	82.5	3.1-3/1.5	
1 1/2	3600	208-230/460	143JM	UJ32E1DM	$467	DS-3PT	1.25	14.3	30	82.5	4.3-3.9/1.9	
	1800	208-230/460	145JM	UJ32E2DM	$452	DS-3PT	1.25	14.3	35	84.0	4.6-4.4/2.2	
2	3600	208-230/460	145JM	UJ2E1DM	$497	DS-3PT	1.25	14.3	40	84.0	5.6-5/2.5	
	1800	208-230/460	145JM	UJ2E2DM	$489	DS-3PT	1.25	14.3	30	84.0	6.2-6/3	
3	3600	208-230/460	145JM	UJ3E1DFM	$591	DS-3PT	1.25	15.3	60	85.5	8.2-7.2/3.6	
	3600	208-230/460	182JM	UJ3E1DM	$709	DS-3PT	1.25	17.8	60	85.5	8.7-8/4	
	1800	208-230/460	182JM	UJ3E2DM	$636	DS-3PT	1.25	17.8	60	87.5	8.6-8.1/4.1	
5	3600	208-230/460	184JM	UJ5E1DM	$870	DS-3PT	1.25	17.8	75	87.5	13.8-12.3/6.1	
	1800	208-230/460	184JM	UJ5E2DM	$726	DS-3PT	1.25	18.6	70	87.5	14-12.7/6.3	
7 1/2	3600	208-230/460	184JM	UJ7E1DFM	$971	DS-3PT	1.15	17.8	70	88.5	19.8-18/9	
	3600	208-230/460	213JM	UJ7E1DM	$1,076	DS-3PT	1.15	19.9	105	88.5	20.4-18.4/9.2	
	1800	208-230/460	213JM	UJ7E2DM	$982	DS-3PT	1.25	19.9	155	89.5	20.8-18.9/9.4	
10	3600	208-230/460	215JM	UJ10E1DM	$1,245	DS-3PT	1.25	21.3	120	89.5	26.7-23.8/11.9	
	1800	208-230/460	215JM	UJ10E2DM	$1,166	DS-3PT	1.25	21.3	135	89.5	27.5-24.8/12.4	
15	3600	208-230/460	215JM	UJ15E1DFM	$1,441	DS-3PT	1.25	21.4	140	90.2	40-35/17.6	
	3600	208-230/460	254JM	UJ15E1DM	$1,791	DS-3PT	1.25	25.4	190	90.2	40-35/17.6	
	1800	208-230/460	254JM	UJ15E2DM	$1,705	DS-3PT	1.25	25.4	190	91.0	41-38/19	
20	3600	208-230/460	256JM	UJ20E1DM	$2,184	DS-3PT	1.25	27.1	220	90.2	54-47/23.5	
	1800	208-230/460	256JM	UJ20E2DM	$1,970	DS-3PT	1.25	27.1	250	91.0	54-50/25	
25	3600	208-230/460	256JM	UJ25E1DFM	$2,596	DS-3PT	1.25	27.1	230	91.0	65-57/28.7	
	3600	208-230/460	284JM	UJ25E1DM	$2,876	DS-3PT	1.25	29.1	280	91.0	64-56/28.2	
	1800	208-230/460	284JM	UJ25E2DM	$2,590	DS-3PT	1.25	29.1	290	92.4	67-59/29.6	
30	3600	208-230/460	286JM	UJ30E1DM	$3,507	DS-3PT	1.25	29.1	300	91.0	79-68/34	
	1800	208-230/460	286JM	UJ30E2DM	$2,933	DS-3PT	1.25	29.1	325	92.4	80-72/36	

Special Application Close Coupled Pump Three Phase Totally Enclosed Fan Cooled (TEFC) Energy Efficient



UT4

APPLICATIONS:

For the specific requirements of centrifugal pumps where the pump impeller is mounted directly on the motor shaft. Used in damp, dusty or dirty environments.

FEATURES:

- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- Extruded Aluminum Frame (140: Rolled Steel)
- Aluminum End Shields With Steel Bearing Inserts
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- Regreasable Shaft End Bearing 180 Frame & Up
- "CE" Mark On Nameplate
- Double Shielded Bearings
- Removable Base 180 Frame & Up
- Lifting Provisions 180 Frame & Up
- "JM" Shaft For Mechanical Seal
- Conversion Kits: Canopy Kits

JP Shaft - Footed

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt (lbs)	Full Load Eff.	Full Load Amps	Notes
1	1800	208-230/460	143JP	UJ1E2DP	$419	DS-3PT	1.25	17.3	30	82.5	3.1-3/1.5	
1 1/2	3600	208-230/460	143JP	UJ32E1DP	$472	DS-3PT	1.25	17.3	30	82.5	4.3-3.9/1.9	
	1800	208-230/460	145JP	UJ32E2DP	$457	DS-3PT	1.25	17.3	35	84.0	4.6-4.4/2.2	
2	3600	208-230/460	145JP	UJ2E1DP	$502	DS-3PT	1.25	17.3	40	84.0	5.6-5/2.5	
	1800	208-230/460	145JP	UJ2E2DP	$494	DS-3PT	1.25	17.3	35	84.0	6.2-6/3	
3	3600	208-230/460	145JP	UJ3E1DFP	$596	DS-3PT	1.25	18.3	60	85.5	8.2-7.2/3.6	
	3600	208-230/460	182JP	UJ3E1DP	$716	DS-3PT	1.25	20.9	60	85.5	8.7-8/4	
	1800	208-230/460	182JP	UJ3E2DP	$642	DS-3PT	1.25	20.9	60	87.5	8.6-8.1/4.1	
5	3600	208-230/460	184JP	UJ5E1DP	$879	DS-3PT	1.25	20.9	75	87.5	13.8-12.3/6.1	
	1800	208-230/460	184JP	UJ5E2DP	$734	DS-3PT	1.25	21.6	80	87.5	14-12.7/6.3	
7 1/2	3600	208-230/460	213JP	UJ7E1DP	$1,087	DS-3PT	1.15	23.8	105	88.5	20.4-18.4/9.2	
	3600	230/460	184JP	UJ7E1BP	$981	DS-3PT	1.15	20.9	70	88.5	17.9/9	
	1800	208-230/460	213JP	UJ7E2DP	$992	DS-3PT	1.25	23.8	105	89.5	20.8-18.9/9.4	
10	3600	208-230/460	215JP	UJ10E1DP	$1,257	DS-3PT	1.25	25.1	120	89.5	26.7-23.8/11.9	
	1800	208-230/460	215JP	UJ10E2DP	$1,178	DS-3PT	1.25	25.1	135	89.5	27.5-24.8/12.4	
15	3600	208-230/460	215JP	UJ15E1DFP	$1,455	DS-3PT	1.25	25.3	140	90.2	40-35/17.6	
	3600	208-230/460	254JP	UJ15E1DP	$1,809	DS-3PT	1.25	28.3	190	90.2	40-35/17.6	
	1800	208-230/460	254JP	UJ15E2DP	$1,722	DS-3PT	1.25	28.3	190	91.0	41-38/19	
20	3600	208-230/460	256JP	UJ20E1DP	$2,206	DS-3PT	1.25	30.0	220	90.2	54-47/23.5	
	1800	208-230/460	256JP	UJ20E2DP	$1,990	DS-3PT	1.25	30.0	250	91.0	54-50/25	
25	3600	208-230/460	256JP	UJ25E1DFP	$2,622	DS-3PT	1.25	30.0	230	91.0	65-57/28.7	
	3600	208-230/460	284JP	UJ25E1DP	$2,905	DS-3PT	1.25	32.0	280	91.0	64-56/28.2	
	1800	208-230/460	284JP	UJ25E2DP	$2,615	DS-3PT	1.25	32.0	290	92.4	67-59/29.6	
30	3600	208-230/460	286JP	UJ30E1DP	$3,542	DS-3PT	1.25	32.0	300	91.0	79-68/34	
	1800	208-230/460	286JP	UJ30E2DP	$2,962	DS-3PT	1.25	32.0	325	92.4	80-72/36	

Westcoast Shaft - Footed

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt (lbs)	Full Load Eff.	Full Load Amps	Notes
7 1/2	3600	208-230/460	213TCZ	UJ7E1DJ	$1,087	DS-3PT	1.15	22.8	105	88.5	20.4-18.4/9.2	
	1800	208-230/460	213TCZ	UJ7E2DJ	$992	DS-3PT	1.25	22.8	105	89.5	20.8-18.9/9.4	
10	3600	208-230/460	215TCZ	UJ10E1DJ	$1,257	DS-3PT	1.25	24.3	120	89.5	26.7-23.8/11.9	
	1800	208-230/460	215TCZ	UJ10E2DJ	$1,178	DS-3PT	1.25	24.3	135	89.5	27.5-24.8/12.4	
15	3600	208-230/460	215TCZ	UJ15E1DFJ	$1,455	DS-3PT	1.25	24.3	140	90.2	40-35/17.6	

Special Application Close Coupled Pump Three Phase Open Dripproof (ODP) NEMA®† Premium Efficient

NEMA Premium

DE1

APPLICATIONS:

For the specific requirements of centrifugal pumps where the pump impeller is mounted directly on the motor shaft. Used where dirt and moisture are minimal.

FEATURES:

- Class F Insulation, Class B Rise At Service Factor
- Rolled Steel Frame
- Aluminum End Shields 140-250, Cast Iron End Shields 280-320
- Oversized Ball Bearings w/Locked Shaft End Construction
- Premasked Mylar Nameplate (with "CE" Mark)
- F1 Assembly Position
- Regreasable Bearings 180 Frame & Up, Lifting Provisions 210 Frame & Up
- Double Shielded Bearings
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- "JM" Shaft For Mechanical Seal
- "JM" Shaft on 210 Frame and Smaller; "JP" Shaft on 250 and 280 Frame

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
3/4	1200	208-230/460	143JM	DJ34P3DM	$553	DS-3FPO	1.15	14.8	30	80.0	2.8-2.8/1.4	
1	1800	200	143JM	DJ1P2HM	$494	DS-3FPO	1.15	14.8	30	85.5	3.5	03
	1800	208-230/460	143JM	DJ1P2DM	$494	DS-3FPO	1.15	14.8	30	85.5	3.2-3.1/1.5	03
	1200	208-230/460	145JM	DJ1P3DM	$588	DS-3FPO	1.15	19.1	40	82.5	4-4/2	
1 1/2	1800	200	145JM	DJ32P2HM	$524	DS-3FPO	1.15	14.8	35	86.5	4.8	03
	1800	208-230/460	145JM	DJ32P2DM	$524	DS-3FPO	1.15	14.8	35	86.5	4.4-4.1/2.1	
	1200	208-230/460	182JM	DJ32P3DM	$697	DS-3FPO	1.15	17.4	50	86.5	5.2-5/2.5	
2	1800	200	145JM	DJ2P2HM	$560	DS-3FPO	1.15	14.8	35	86.5	6.3	
	1800	208-230/460	145JM	DJ2P2DM	$560	DS-3FPO	1.15	14.8	35	86.5	5.9-5.6/2.8	03
	1200	208-230/460	184JM	DJ2P3DM	$710	DS-3FPO	1.15	20.5	60	87.5	6.5-6.3/3.1	
3	3600	208-230/460	145JM	DJ3P1DM	$621	DS-3FPO	1.15	14.8	35	85.5	8.2-7.3/3.7	03
	1800	200	182JM	DJ3P2HM	$643	DS-3FPO	1.15	17.4	50	89.5	9	
	1800	208-230/460	182JM	DJ3P2DM	$643	DS-3FPO	1.15	17.4	50	89.5	8.4-7.8/3.9	
	1200	208-230/460	213JM	DJ3P3DM	$959	DS-3FPO	1.15	17.8	90	88.5	9.4-8.9/4.5	
5	3600	200	182JM	DJ5P1HM	$820	DS-3FPO	1.15	16.1	50	88.5	14.1	03
	3600	208-230/460	182JM	DJ5P1DM	$820	DS-3FPO	1.15	16.1	50	88.5	13.5-12.3/6.2	
	1800	200	184JM	DJ5P2HM	$785	DS-3FPO	1.15	20.5	60	89.5	14.7	
	1800	208-230/460	184JM	DJ5P2DM	$785	DS-3FPO	1.15	20.5	60	89.5	13.8-13/6.5	03
	1200	208-230/460	215JM	DJ5P3DM	$1,399	DS-3FPO	1.15	19.3	105	89.5	15.2-14.5/7.3	
7 1/2	3600	208-230/460	184JM	DJ7P1DM	$1,028	DS-3FPO	1.15	17.4	60	88.5	20.5-18.1/9.1	03
	1800	200	213JM	DJ7P2HM	$1,042	DS-3FPO	1.15	17.8	90	91.0	21.4	
	1800	208-230/460	213JM	DJ7P2DM	$1,042	DS-3FPO	1.15	17.8	90	91.0	20.2-18.5/9.3	03
	1200	208-230/460	254JP	DJ7P3DP	$1,514	DS-3FPO	1.15	27.4	150	91.7	20.8-20.3/10.1	14
10	3600	200	213JM	DJ10P1HM	$1,237	DS-3FPO	1.15	17.8	90	90.2	28	03
	3600	208-230/460	213JM	DJ10P1DM	$1,237	DS-3FPO	1.15	17.8	90	90.2	27.1-24.3/12.2	03
	1800	200	215JM	DJ10P2HM	$1,223	DS-3FPO	1.15	19.3	105	91.7	28.1	03
	1800	208-230/460	215JM	DJ10P2DM	$1,223	DS-3FPO	1.15	19.3	105	92.4	26.3-23.8/11.9	03
	1200	208-230/460	256JP	DJ10P3DP	$1,905	DS-3FPO	1.15	28.1	160	91.7	27.6-25.9/13	
15	3600	200	215JP	DJ15P1HP	$1,594	DS-3FPO	1.15	23.1	105	90.2	41	
	3600	208-230/460	215JP	DJ15P1DP	$1,594	DS-3FPO	1.15	23.1	105	90.2	40-36/18	
	1800	200	254JP	DJ15P2HP	$1,712	DS-3FPO	1.15	27.4	150	93.0	42	
	1800	208-230/460	254JP	DJ15P2DP	$1,712	DS-3FPO	1.15	27.4	150	93.0	40-37/18.5	
20	3600	200	254JP	DJ20P1HP	$1,874	DS-3FPO	1.15	27.4	150	91.0	54	
	3600	208-230/460	254JP	DJ20P1DP	$1,874	DS-3FPO	1.15	27.4	150	91.7	52-47/23.4	
	1800	200	256JP	DJ20P2HP	$1,970	DS-3FPO	1.15	28.1	160	93.0	56	
	1800	208-230/460	256JP	DJ20P2DP	$1,970	DS-3FPO	1.15	28.1	160	93.0	53-48/24.2	
25	3600	200	256JP	DJ25P1HP	$2,567	DS-3FPO	1.15	28.1	160	92.4	67	
	3600	208-230/460	256JP	DJ25P1DP	$2,567	DS-3FPO	1.15	28.1	160	92.4	63-57/28.7	14
	1800	200	284JP	DJ25P2HP	$2,953	DS-3FPO	1.15	28.6	225	93.6	67	
	1800	208-230/460	284JP	DJ25P2DP	$2,953	DS-3FPO	1.15	28.6	225	93.6	64-58/29.2	06

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note 06 Dual voltage ratings, Part Winding Start on low voltage only

Note 14 NEMA®† Design A

† All marks shown within this document are properties of their respective owners.

Special Application Close Coupled Pump Three Phase Open Dripproof (ODP) Energy Efficient

FD4

APPLICATIONS:

For the specific requirements of centrifugal pumps where the pump impeller is mounted directly on the motor shaft. Used where dirt and moisture are minimal.

FEATURES:

- Class F Insulation, Class B Rise At Service Factor
- Rolled Steel Frame
- Aluminum End Shields 140-250, Cast Iron End Shields 280-320
- Oversized Ball Bearings w/ Locked Shaft End Construction
- Premasked Mylar Nameplate (with "CE" Mark)
- F1 Assembly Position
- Regreasable Bearings 180 Frame & Up, Lifting Provisions 210 Frame & Up
- Double Shielded Bearings
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- "JP" Shaft For Packing Seal, "JM" Shaft For Mechanical Seal
- Full 50 & 60 Hertz Operating Data On Nameplate (3)
- Conversion Kits: Canopy Kits

JM Shaft - Footed

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
1	1800	208-230/460	143JM	DJ1E2DM	$455	DS-3FPO	1.15	14.8	30	82.5	3.1-3/1.5	16
1 1/2	3600	208-230/460	143JM	DJ32E1DM	$491	DS-3FPO	1.15	15.4	32	82.5	4.3-4/2	16
	1800	208-230/460	145JM	DJ32E2DM	$468	DS-3FPO	1.15	15.4	37	84.0	4.5-4.4/2.2	16
2	3600	208-230/460	145JM	DJ2E1DM	$524	DS-3FPO	1.15	15.4	37	84.0	5.6-5.1/2.5	16
	1800	208-230/460	145JM	DJ2E2DM	$482	DS-3FPO	1.15	15.4	41	84.0	6-5.9/3	16
	1800	575	145JM	DJ2E2GM	$482	DS-3FPO	1.15	15.4	37	84.0	2.4	
3	3600	208-230/460	145JM	DJ3E1DM	$550	DS-3FPO	1.15	15.4	40	84.0	8.3-7.5/3.7	16
	1800	208-230/460	182JM	DJ3E2DM	$567	DS-3FPO	1.15	17.4	50	86.5	8.6-8.4/4.2	16
5	3600	200	182JM	DJ5E1HM	$718	DS-3FPO	1.15	17.4	50	85.5	14.8	
	3600	208-230/460	182JM	DJ5E1DM	$718	DS-3FPO	1.15	17.4	50	85.5	14.1-12.8/6.4	
	3600	575	182JM	DJ5E1GM	$718	DS-3FPO	1.15	17.4	50	85.5	5.1	
	1800	208-230/460	184JM	DJ5E2DM	$665	DS-3FPO	1.15	17.4	75	87.5	14-12.7/6.4	16
	1800	575	184JM	DJ5E2GM	$665	DS-3FPO	1.15	20.5	75	87.5	5.2	
7 1/2	3600	208-230/460	184JM	DJ7E1DM	$772	DS-3FPO	1.15	17.4	85	87.5	20.4-18.1/9.1	16
	3600	575	184JM	DJ7E1GM	$772	DS-3FPO	1.15	17.4	85	88.5	7.2	
	1800	208-230/460	213JM	DJ7E2DM	$882	DS-3FPO	1.15	17.8	113	88.5	21-19.2/9.6	16
	1800	575	213JM	DJ7E2GM	$882	DS-3FPO	1.15	17.8	103	88.5	7.6	
10	3600	208-230/460	213JM	DJ10E1DM	$1,076	DS-3FPO	1.15	17.8	105	88.5	27.5-25.3/12.6	16
	3600	575	213JM	DJ10E1GM	$1,076	DS-3FPO	1.15	17.8	113	88.5	10.2	
	1800	208-230/460	215JM	DJ10E2DM	$1,036	DS-3FPO	1.15	19.3	190	89.5	27.2-24.6/12.3	16
15	3600	208-230/460	215JM	DJ15E1DM	$1,264	DS-3FPO	1.15	19.3	143	89.5	41-36/18.1	16
	1800	208-230/460	254JM	DJ15E2DM	$1,372	DS-3FPO	1.15	24.6	172	91.0	41-38/19	16
20	3600	208-230/460	254JM	DJ20E1DM	$1,611	DS-3FPO	1.15	24.6	170	90.2	54-47/23.6	16
	3600	575	254JM	DJ20E1GM	$1,611	DS-3FPO	1.15	24.6	170	90.2	18.9	
	1800	208-230/460	256JM	DJ20E2DM	$1,579	DS-3FPO	1.15	25.2	207	91.0	55-50/24.8	16
25	3600	208-230/460	256JM	DJ25E1DM	$2,094	DS-3FPO	1.15	25.2	212	91.0	66-58/29	16
	1800	208-230/460	284JM	DJ25E2DM	$2,406	DS-3FPO	1.15	25.8	210	92.4	66-60/30	16
30	3600	208-230/460	284JM	DJ30E1DM	$3,193	DS-3FPO	1.15	25.8	230	91.0	80-70/35	16
	1800	208-230/460	286JM	DJ30E2DM	$2,767	DS-3FPO	1.15	25.8	280	92.4	78-71/35	16
40	3600	208-230/460	286JM	DJ40E1DM	$3,512	DS-3FPO	1.15	25.8	320	91.7	103-90/45	16
	3600	575	286JM	DJ40E1GM	$3,512	DS-3FPO	1.15	25.8	332	91.7	36	
	1800	230/460	324JM	DJ40E2EM	$3,597	DS-3FPO	1.15	27.5	485	93.0	91/46	
50	3600	230/460	324JM	DJ50E1EM	$4,829	DS-3FPO	1.15	27.5	400	92.4	116/58	
	1800	230/460	326JM	DJ50E2EM	$4,137	DS-3FPO	1.15	27.5	450	93.6	114/57	17
60	3600	230/460	326JM	DJ60E1EM	$5,553	DS-3FPO	1.15	27.5	460	93.0	136/68	17

Note 16 Motors marked 208-230/460 volts may not meet all NEMA®† (MG-1) performance standards when operated at 208 volts

Note 17 Twelve leads for across-the-line or wye-delta start on either voltage, part winding start on lower voltage

Special Application Close Coupled Pump Three Phase Open Dripproof (ODP) Energy Efficient

(continued)

FD4

JP Shaft - Footed

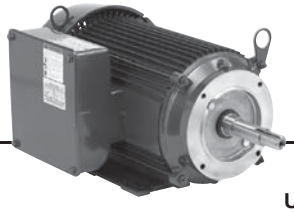
HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
1	1800	208-230/460	143JP	DJ1E2DP	$455	DS-3FPO	1.15	17.8	32	82.5	3.1-3/1.5	16
1 1/2	1800	208-230/460	145JP	DJ32E2DP	$468	DS-3FPO	1.15	18.5	37	84.0	4.5-4.4/2.2	16
2	1800	208-230/460	145JP	DJ2E2DP	$482	DS-3FPO	1.15	18.5	35	84.0	6-5.9/3	16
3	1800	208-230/460	182JP	DJ3E2DP	$567	DS-3FPO	1.15	20.5	50	86.5	8.6-8.4/4.2	
5	3600	208-230/460	182JP	DJ5E1DP	$718	DS-3FPO	1.15	20.5	50	85.5	14.1-12.8/6.4	
	1800	208-230/460	184JP	DJ5E2DP	$665	DS-3FPO	1.15	20.5	75	87.5	14-12.7/6.4	16
7 1/2	3600	208-230/460	184JP	DJ7E1DP	$772	DS-3FPO	1.15	20.5	75	87.5	20.4-18.1/9.1	16
	1800	208-230/460	213JP	DJ7E2DP	$882	DS-3FPO	1.15	21.6	106	88.5	21-19.2/9.6	16
10	3600	208-230/460	213JP	DJ10E1DP	$1,076	DS-3FPO	1.15	21.6	110	88.5	27.5-25.3/12.6	16
	1800	208-230/460	215JP	DJ10E2DP	$1,036	DS-3FPO	1.15	23.1	100	89.5	27.2-24.6/12.3	16
15	3600	208-230/460	215JP	DJ15E1DP	$1,264	DS-3FPO	1.15	23.1	140	89.5	41-36/18.1	16
	1800	200	254JP	DJ15E2HP	$1,372	DS-3FPO	1.15	27.6	160	91.0	44	
	1800	208-230/460	254JP	DJ15E2DP	$1,372	DS-3FPO	1.15	27.4	143	91.0	41-38/19	16
20	3600	208-230/460	254JP	DJ20E1DP	$1,611	DS-3FPO	1.15	27.4	198	90.2	54-47/23.6	16
	3600	575	254JP	DJ20E1GP	$1,611	DS-3FPO	1.15	27.4	195	90.2	18.9	
	1800	208-230/460	256JP	DJ20E2DP	$1,579	DS-3FPO	1.15	28.1	195	91.0	55-50/24.8	16
25	3600	208-230/460	256JP	DJ25E1DP	$2,094	DS-3FPO	1.15	28.1	210	91.0	66-58/29	16
	1800	208-230/460	284JP	DJ25E2DP	$2,406	DS-3FPO	1.15	28.6	213	92.4	66-60/30	16
	1800	575	284JP	DJ25E2GP	$2,406	DS-3FPO	1.15	28.6	213	91.7	24.4	
30	3600	208-230/460	284JP	DJ30E1DP	$3,193	DS-3FPO	1.15	28.6	230	91.0	80-70/35	16
	1800	208-230/460	286JP	DJ30E2DP	$2,767	DS-3FPO	1.15	28.6	230	92.4	78-71/35	16
40	3600	208-230/460	286JP	DJ40E1DP	$3,512	DS-3FPO	1.15	28.6	300	91.7	103-90/45	16
	3600	575	286JP	DJ40E1GP	$3,512	DS-3FPO	1.15	28.6	320	91.7	36	
	1800	208-230/460	324JP	DJ40E2DP	$3,597	DS-3FPO	1.15	30.4	412	93.6	102-91/46	17
50	3600	460	324JP	DJ50E1EP	$4,829	DS-3FPO	1.15	30.4	420	92.4	58	17
	1800	230/460	326JP	DJ50E2EP	$4,137	DS-3FPO	1.15	30.4	427	93.6	114/57	17
60	3600	230/460	326JP	DJ60E1EP	$5,553	DS-3FPO	1.25	30.4	460	93.0	136/68	17

Westcoast Shaft - Footed

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
7 1/2	1800	208-230/460	213TCZ	DJ7E2DJ	$881	DS-3FPO	1.15	18.8	113	88.5	21-19.2/9.6	
10	3600	208-230/460	213TCZ	DJ10E1DJ	$1,076	DS-3FPO	1.15	20.8	110	88.5	27.5-25.3/12.6	
	1800	208-230/460	215TCZ	DJ10E2DJ	$1,036	DS-3FPO	1.15	22.3	100	89.5	27.2-24.6/12.3	
15	3600	208-230/460	215TCZ	DJ15E1DJ	$1,263	DS-3FPO	1.15	22.3	140	89.5	41-36/18.1	

Note 16 Motors marked 208-230/460 volts may not meet all NEMA®† (MG-1) performance standards when operated at 208 volts
Note 17 Twelve leads for across-the-line or wye-delta start on either voltage, part winding start on lower voltage

Special Application Close Coupled Pump
Single Phase, Totally Enclosed Fan Cooled (TEFC)



UTM4, UTM1

APPLICATIONS:

For the specific requirements of centrifugal pumps where the pump impeller is mounted directly on the motor shaft. Used where dirt and moisture are minimal.

FEATURES:

- Class F Insulation
- Extruded Aluminum Frame
- Oversized Ball Bearings w/Locked Shaft End Construction
- Reversible Rotation
- F1 Assembly Position
- Aluminum End Shields with Steel Bearing Inserts
- Shaft Slinger On Pulley End For IP54 Protection
- Removable Base
- Lifting Provisions
- "JM" Shaft For Mechanical Seal, "JP" Shaft For Packing Seal

JM Shaft - Footed

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs.)	Full Load Amps	Notes
3	3600	115/230	184JM	UJ3C1P18M	$1,042	DS-3PT	1.15	20.3	82	32.0/16.0	18
	1800	115/230	184JM	UJ3C2P18M	$872	DS-3PT	1.15	20.3	80	30.0/15.0	18
	1800	115/230	184JM	UJ3C2P18M	$872	DS-3PT	1.15	20.3	80	30.0/15.0	18
5	3600	230	184JM	UJ5C1K18M	$1,259	DS-3PT	1.15	20.3	80	19.6	18
	1800	230	215JM	UJ5C2K21M	$1,181	DS-3PT	1.15	22.3	90	23.0	18
7 1/2	3600	230	215JM	UJ7C1K21M	$1,487	DS-3PT	1.15	22.3	133	30.3	18
	1800	230	215JM	UJ7C2K21M	$1,282	DS-3PT	1.15	22.3	210	33.5	18
10	3600	230	215JM	UJ10C1K21M	$1,813	DS-3PT	1.15	22.3	210	40.0	18
	1800	230	215JM	UJ10C2K21M	$1,694	DS-3PT	1.15	22.3	210	43.0	18

JP Shaft - Footed

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs.)	Full Load Amps	Notes
3	1800	115/230	184JP	UJ3C2P18P	$872	DS-3PT	1.15	23.3	80	30.0/15.0	18
5	3600	230	184JP	UJ5C1K18P	$1,259	DS-3PT	1.15	23.3	80	19.6	18
	1800	230	215JP	UJ5C2K21P	$1,181	DS-3PT	1.15	26.2	90	23.0	18
7 1/2	3600	230	215JP	UJ7C1K21P	$1,487	DS-3PT	1.15	26.2	180	30.3	18
	1800	230	215JP	UJ7C2K21P	$1,282	DS-3PT	1.15	26.2	120	33.5	18
10	3600	230	215JP	UJ10C1K21P	$1,813	DS-3PT	1.15	26.2	145	40.0	18
	1800	230	215JP	UJ10C2K21P	$1,694	DS-3PT	1.15	26.2	140	43.0	18

Note 18 Incorporates Run Capacitor

Special Application Close Coupled Pump Single Phase Open Dripproof (ODP)

APPLICATIONS:

For the specific requirements of centrifugal pumps where the pump impeller is mounted directly on the motor shaft. Used where dirt and moisture are minimal.

FEATURES:

- Class F Insulation
- Rolled Steel Frame
- Oversized Ball Bearings w/Locked Shaft End Construction
- Reversible
- F1 Assembly Position
- Shaft Slinger On Pulley End
- Lifting Provisions 180 Frame & Up
- "JM" Shaft For Mechanical Seal, "JP" Shaft for Packing Seal

JM Shaft - Footed

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
1	1800	115/208-230	143JM	EJM104B	$498	DS-3PO	1.15	13.8	33	14.2/7.2-7.1	25
1 1/2	1800	115/208-230	145JM	EJM154B	$589	DS-3PO	1.15	13.8	34	16.0/8.3-8.0	18,25
2	3600	115/208-230	145JM	EJM202B	$656	DS-3PO	1.15	14.6	35	19.6/10.7-9.8	18,25
	1800	115/230	182JM	DJ2C2P18M	$711	DS-3PO	1.15	17.5	70	23.2/11.6	18
3	3600	115/230	182JM	DJ3C1P18M	$786	DS-3PO	1.15	19.6	81	16.0/32.0	18
	3600	208-230	182JM	EJM302B	$647	DS-3PO	1.15	15.3	40	14.0-13.2	18,25
	1800	115/230	184JM	DJ3C2P18M	$716	DS-3PO	1.15	17.5	66	38.0/19.0	18
5	3600	208-230	184JM	EJM502B	$747	DS-3PO	1.15	16.3	45	24.0-23.7	18,25
	3600	230	184JM	DJ5C1K18M	$945	DS-3PO	1.15	19.6	82	19.6	18
	1800	230	184JM	DJ5C2K18M	$904	DS-3PO	1.15	19.6	86	22.0	18
	1800	230	213JM	DJ5C2K21M	$1,087	DS-3PO	1.15	20.5	105	22.0	25
7 1/2	3600	230	184JM	DJ7C1K18M	$1,135	DS-3PO	1.15	19.6	83	31.4	18,25
	3600	230	213JM	DJ7C1K21M	$1,364	DS-3PO	1.15	20.5	141	30.4	25
	1800	230	215JM	DJ7C2K21M	$1,161	DS-3PO	1.15	22.0	110	35.6	25
10	3600	230	215JM	DJ10C1K21M	$1,601	DS-3PO	1.15	22.0	173	40.0	25
	1800	230	215JM	DJ10C2K21M	$1,476	DS-3PO	1.15	22.0	115	42.2	25

JP Shaft - Footed

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
3	3600	115/230	182JP	DJ3C1P18P	$786	DS-3PO	1.15	22.7	81	16.0/32.0	18
	1800	115/230	184JP	DJ3C2P18P	$716	DS-3PO	1.15	20.6	66	38.0/19.0	
5	3600	230	184JP	DJ5C1K18P	$945	DS-3PO	1.15	22.7	82	19.6	18
	1800	230	184JP	DJ5C2K18P	$904	DS-3PO	1.15	22.7	86	22.0	18
7 1/2	3600	230	213JP	DJ7C1K21P	$1,364	DS-3PO	1.15	24.5	141	30.4	25
	1800	230	215JP	DJ7C2K21P	$1,161	DS-3PO	1.15	26.0	110	35.6	25
10	3600	230	215JP	DJ10C1K21P	$1,601	DS-3PO	1.15	26.0	173	40.0	25
	1800	230	215JP	DJ10C2K21P	$1,476	DS-3PO	1.15	26.0	115	42.2	25

Note 18 Incorporates Run Capacitor
Note 25 Non-protected

C-Face Kits

APPLICATIONS:

Kit designed for conversion of off-the-shelf motors to accommodate a C-Flange Mount.

Hostile Duty Type CTE, Automotive Duty Type JDE

Frame	Catalog Number	List	Discount Symbol	AK Dimension	Notes
56*	G351	$160	DS-3TE	4-1/2"	40, 43
	G350	$160	DS-3TE	4-1/2"	40, 43
140	888910	$150	DS-3TE	4-1/2"	40
180	386760	$217	DS-3TE	4-1/2"	40, JAD, JDE
	888911	$200	DS-3TE	4-1/2"	40, FCT, CTE
	888912	$200	DS-3TE	8-1/2"	40
210	888913	$275	DS-3TE	8-1/2"	40
250	888914	$320	DS-3TE	8-1/2"	40, 41
280	888915	$383	DS-3TE	10-1/2"	41
320	416478	$550	DS-3TE	12-1/2"	41
360	425918	$750	DS-3TE	12-1/2"	41, 42
360TS	427417	$750	DS-3TE	12-1/2"	41

*NEMA® frame only

Hostile Duty Type CTE, Automotive Duty Type JDE, Severe Duty Types TCE & TCI

Frame	Catalog Number	List	Discount Symbol	AK Dimension	Notes
400	646592	$1,250	DS-3TE	12-1/2"	Not CE
400TS	646592	$1,250	DS-3TE	12-1/2"	Not CE
440	427504	$1,583	DS-3TE	16"	42, Not CE
440TS	427505	$1,583	DS-3TE	16"	Not CE

Hostile Duty Type CTE, Automotive Duty Type JDE

(Old Design 320 Frame)

Frame	Catalog Number	List	Discount Symbol	AK Dimension	Notes
320	895632	$917	DS-3TE	12-1/2"	JAD, JDE
	395393	$917	DS-3TE	12-1/2"	41, FCT, CTE

Note 40: Non-NEMA® "BA" Dimension
Note 41: Pulley End Bearing Clamp Provision
Note 42: Not Usable On Short Shaft (TS or US)
Note 43: G350 to be used on M/N F593, F588, F587 & F586 only; G351 to be used on all other M/N's
Note Motor Type Code (CE, CTE, FCT, JAD and JDE): See page 165 for Integral Horsepower Motor Identification

C-Face Kits

APPLICATIONS:

Kit designed for conversion of off-the-shelf motors to accommodate a C-Flange Mount.

UNIMOUNT® TEFC
Type UTE

Frame	Catalog Number	List	Discount Symbol	AK Dimension	Notes
56-140	374790	$60	DS-3TE	4-1/2"	
180	362843	$90	DS-3TE	4-1/2"	
	362842	$120	DS-3TE	8-1/2"	
210	365033	$110	DS-3TE	8-1/2"	
250	365568	$160	DS-3TE	8-1/2"	
280	370421	$333	DS-3TE	10-1/2"	

Corro-Duty® & 841 PLUS®
Types TCE, CTI & CE

Frame	Catalog Number	List	Discount Symbol	AK Dimension	Notes
140	430512	$200	DS-3TE	4-1/2"	40, Not CE
180	427670	$242	DS-3TE	8-1/2"	40
	427672	$242	DS-3TE	4-1/2"	40
210	425854	$292	DS-3TE	8-1/2"	40
250	426051	$375	DS-3TE	8-1/2"	40
280	428973	$417	DS-3TE	10-1/2"	40
320	424742	$583	DS-3TE	12-1/2"	
360	427416	$783	DS-3TE	12-1/2"	42
360TS	427418	$783	DS-3TE	12-1/2"	Not CE
400	646592	$1,250	DS-3TE	12-1/2"	Not CE, AP
400TS	646592	$1,250	DS-3TE	12-1/2"	Not CE, AP
440	427504	$1,583	DS-3TE	16"	42, Not CE, AP
440TS	427505	$1,583	DS-3TE	16"	Not CE, AP

841 PLUS®
Type CE

Frame	Catalog Number	List	Discount Symbol	AK Dimension	Notes
400	646591	$1,250	DS-3TE	12-1/2"	
400TS	646591	$1,250	DS-3TE	12-1/2"	
440	427503	$1,583	DS-3TE	16"	42

Note 40: Non-NEMA®† "BA" Dimension
Note 42: Not Usable On Short Shaft (TS or US)
Note AP: Can be used for FCT, CTE, JAD, JDE
Note Motor Type Code (CE): See page 165 for Integral Horsepower Motor Identification

D-Flange Kits

APPLICATIONS:

Kit designed for conversion of off-the-shelf motor to accommodate a D-Flange Mount.

Hostile Duty Types FCT & CTE, Automotive Duty Type JDE

Frame	Catalog Number	List	Discount Symbol	AK Dimension	Notes
140	888916	$233	DS-3TE	9"	40
180	888917	$250	DS-3TE	9"	40, FCT, CTE
	386781	$258	DS-3TE	9"	40, JAD, JDE
210	888918	$333	DS-3TE	9"	40
250	888919	$467	DS-3TE	11"	40,41
280	888920	$583	DS-3TE	11"	41
320	437235	$650	DS-3TE	14"	
360	437237	$850	DS-3TE	14"	42

UNIMOUNT® TEFC Types FUT, UTE, UTF, UT, UTN & UTNX

Frame	Catalog Number	List	Discount Symbol	AK Dimension	Notes
140	369268	$175	DS-3TE	9"	40
180	369269	$208	DS-3TE	9"	
210	430514	$317	DS-3TE	9"	
250	430515	$400	DS-3TE	11"	
280	430516	$417	DS-3TE	11"	

Corro-Duty® & 841 PLUS® Types TCE, CTI & CE

Frame	Catalog Number	List	Discount Symbol	AK Dimension	Notes
180	427671	$267	DS-3TE	9"	40
210	425855	$342	DS-3TE	9"	40
250	426052	$475	DS-3TE	11"	40
280	428974	$542	DS-3TE	11"	
320	437236	$667	DS-3TE	14"	
360	437238	$908	DS-3TE	14"	42
400	646590	$1,317	DS-3TE	18"	Not CE
400TS	646590	$1,317	DS-3TE	18"	Not CE
440	474394	$1,658	DS-3TE	18"	42, Not CE
440TS	474395	$1,658	DS-3TE	18"	Not CE

841 PLUS® Type CE

Frame	Catalog Number	List	Discount Symbol	AK Dimension	Notes
400	646589	$1,317	DS-3TE	18"	
400TS	646589	$1,317	DS-3TE	18"	
440	476030	$1,658	DS-3TE	18"	42

Note 40: Non-NEMA®† "BA" Dimension
Note 41: Pulley End Bearing Clamp Provision
Note 42: Not Usable On Short Shaft (TS or US)
Note Motor Type Code (CE, CTE, FCT, JAD and JDE): See page 165 for Integral Horsepower Motor Identification

Dripcover Kits

APPLICATIONS:

Provides protection to the motor in a vertical shaft down position.

UNIMOUNT® TEFC
Types FUT, UTE, UTF, UT, UTE4, FUT1, FUT4, UT1 & UT4

Frame	Catalog Number	List	Discount Symbol	Notes
56-140	362108	$100	DS-3TE	
180	362260	$172	DS-3TE	
210	365035	$192	DS-3TE	
250-280	370422	$222	DS-3TE	

Open Drip-Proof
Types FD, FR, DF4, DF1, FD1, FD4, D1 & D4

Frame	Catalog Number	List	Discount Symbol	Notes
140	969573	$100	DS-3TE	
180	969574	$172	DS-3TE	
210	969575	$192	DS-3TE	
250	472131	$233	DS-3TE	
280	969578	$267	DS-3TE	
320	969579	$300	DS-3TE	

Hostile Duty, Severe Duty & 841 PLUS®
Types FCT, CTE, CTI, TCE & CE

Frame	Catalog Number	List	Discount Symbol	Notes
140	967059	$150	DS-3TE	44
180	967060	$250	DS-3TE	44
210	967061	$275	DS-3TE	44
250	967062	$333	DS-3TE	45
280	967063	$517	DS-3TE	
320	967064	$700	DS-3TE	
360	967065	$1,133	DS-3TE	
400	967066	$1,583	DS-3TE	
440	967067	$1,800	DS-3TE	

Note 44: Requires Cast Iron Fan Cover Kit for FCT, CTE & CTI Types
Note 45: Not To Be Used On Foot Mounted Motor

Cast Iron Conversion Kits

APPLICATIONS:

For severe environments where all Cast Iron construction is required.

Cast Iron Conduit Box Kits
Hostile Duty Types FCT, CTE & CTI

Frame	Catalog Number	List	Discount Symbol	Notes
140	885267	$150	DS-3TE	
180	885268	$162	DS-3TE	
210	885269	$193	DS-3TE	
250	885270	$212	DS-3TE	
280	895716	$233	DS-3TE	
320	416477	$243	DS-3TE	
360	425917	$343	DS-3TE	
400	888949	$343	DS-3TE	
440	888950	$833	DS-3TE	
449	498926	$1,375	DS-3TE	

Cast Iron Fan Cover Kits
Hostile Duty Types FCT, CTE & CTI

Frame	Catalog Number	List	Discount Symbol	Notes
140	885271	$125	DS-3TE	
180	885272	$137	DS-3TE	
210	885273	$212	DS-3TE	
250	885274	$330	DS-3TE	
280	885275	$400	DS-3TE	
320	416476	$417	DS-3TE	
360	425916	$755	DS-3TE	
400	888953	$1,223	DS-3TE	
440	888954	$1,355	DS-3TE	

Bases & Slide Rail Kits

APPLICATIONS:

Adjustable Motor Bases and Slide Rail Kits.

Adjustable Motor Base Kits

(404-449 Frame Bases have 2 adjusting screws, others have 1 screw)

Frame	Catalog Number	List	Discount Symbol	Notes
284	70911	$200	DS-3TE	
286	70912	$200	DS-3TE	
324	70913	$280	DS-3TE	
326	70914	$280	DS-3TE	
364	70915	$492	DS-3TE	
365	70916	$492	DS-3TE	
404	X667470	$550	DS-3TE	
405	X667471	$550	DS-3TE	
444	X667472	$700	DS-3TE	
445	X667473	$700	DS-3TE	
447	X256871	$800	DS-3TE	
449	X263975	$800	DS-3TE	

Slide Rail Kits

(Rail Kit Includes Two Rails & Hardware)

Frame	Catalog Number	List	Discount Symbol	Notes
280	179038	$340	DS-3TE	
320	179039	$460	DS-3TE	
360	179040	$590	DS-3TE	
400	179112	$1,180	DS-3TE	
440	181635	$1,600	DS-3TE	

Brake Kits

APPLICATIONS:

Adjustable Motor Bases and Slide Rails Kits.

UNIMOUNT® TEFC
Types FUT, UTE, UTI, UTF & UT

Frame	Rating (Ft.-Lb.)	Voltage at 60 Hz	Catalog Number	List	Discount Symbol	Notes
56-140	1.5	230/460	964220	$441	DS-BKT	
		575	964221	$441	DS-BKT	
56-140	3	115/230	964226	$510	DS-BKT	
		230/460	964223	$510	DS-BKT	
		575	964224	$510	DS-BKT	
56-140	6	125/250	958191	$691	DS-BKT	
		230/460	964225	$607	DS-BKT	
		575	964222	$607	DS-BKT	
56-140	10	230/460	964227	$984	DS-BKT	
180	10	125/250	964252	$1,017	DS-BKT	
		230/460	958195	$984	DS-BKT	
		575	958194	$984	DS-BKT	
180	15	230/460	958193	$1,086	DS-BKT	
		575	958192	$1,086	DS-BKT	
210	25	230/460	364963	$1,806	DS-BKT	46
		575	364966	$1,806	DS-BKT	46
210	35	230/460	364964	$2,055	DS-BKT	
		575	364967	$2,055	DS-BKT	46

*All 230/460 Volts, 60 Hz Brakes are nameplated and designed for use on 190/380 Volts, 50 Hz rated at ft-lb per above. All 125/250 Volts, 60 Hz Brakes are suitable for 160/220 Volts, 50 Hz at ft-lb per above.

Approved mounting positions are shown in the table below by "X". For any other positions required, contact Customer Service and state position on order. Vertical mounting is defined as 15 degrees or more from horizontal.

Brake Rating (Ft.-Lbs.)	Motor & Brake Horizontal Solenoid Position - Degrees From Vertical						Motor & Brake Vertical	
	0	0	0	0	0	0	Brake High	Brake Low
1.5, 3, 6	x	x	x	x	x	x	x	x
10, 15	x	x	x	x	x	x	x	x
25, 35	x							x

A Start/Stop cycle of no more than one stop per minute is acceptable for these brakes when used in conjunction with a Motor and Reducer. Contact Customer Service when shorter cycles are required or when used with high inertia applications, overhung loads or when not used with a reducer.

Note 46: 25 And 35 Lb-Ft For Horizontal Mounting Only

Terms & Conditions of Sale

Nidec Motor Corporation, referred to herein as the "Seller" and the customer or person or entity purchasing goods ("Goods") from Seller is referred to as the "Buyer." These Terms and Conditions, any price list or schedule, quotation, acknowledgment or invoice from Seller relevant to the sale of the Goods and all documents incorporated by specific reference herein or therein, constitute the complete and exclusive statement of the terms of the agreement governing the sale of Goods by Seller to Buyer. Seller's acceptance of Buyer's purchase order is expressly conditional on Buyer's assent to all of Seller's terms and conditions of sale, including terms and conditions that are different from or additional to the terms and conditions of Buyer's purchase order. Buyer's acceptance of or payment for the Goods will manifest Buyer's assent to these Terms and Conditions. Seller reserves the right in its sole discretion to refuse orders.

1. PRICES: Prices for Goods, whether specified in Seller's price list or schedule, acknowledgment or written quotation, are subject to change without notice. Such prices shall be adjusted to reflect Seller's prices for Goods as in effect at the time of requested shipment date, and each shipment will be invoiced at such prices. All prices are exclusive of taxes, transportation and insurance, which are to be borne by Buyer.

2. TAXES: Any current or future tax or governmental charge (or increase in same) affecting Seller's costs of production, sale, or delivery or shipment, or which Seller is otherwise required to pay or collect in connection with the sale, purchase, delivery, storage, processing, use or consumption of Goods, shall be for Buyer's account and shall be added to the price or billed to Buyer separately, at Seller's election.

3. TERMS OF PAYMENT: Unless otherwise specified by Seller, terms are net thirty (30) days from date of Seller's invoice in U.S. currency. Seller shall have the right, among other remedies, either to terminate this agreement or to suspend further performance under this and/or other agreements with Buyer in the event Buyer fails to make any payment when due, which other agreements Buyer and Seller hereby amend accordingly. Buyer shall be liable for all expenses, including attorneys' fees, relating to the collection of past due amounts. If any payment owed to Seller is not paid when due, it shall bear interest, at a rate to be determined by Seller, which shall not exceed the maximum rate permitted by law, from the date on which it is due until it is paid. Should Buyer's financial responsibility become unsatisfactory to Seller, cash payments or security satisfactory to Seller may be required by Seller for future deliveries and for the Goods theretofore delivered. If such cash payment or security is not provided, in addition to Seller's other rights and remedies, Seller may discontinue deliveries. Buyer hereby grants Seller a security interest in all Goods sold to Buyer by Seller, which security interest shall continue until all such Goods are fully paid for in cash, and Buyer, upon Seller's demand, will execute and deliver to Seller such instruments as Seller requests to protect and perfect such security interest.

4. SHIPMENT AND DELIVERY: While Seller will use all reasonable commercial efforts to maintain the delivery date(s) acknowledged or quoted by Seller, all shipping dates are approximate and not guaranteed. Seller reserves the right to make partial shipments. Seller, at its option, shall not be bound to tender delivery of any Goods for which Buyer has not provided shipping instructions and other required information. If the shipment of the Goods is postponed or delayed by Buyer for any reason, Buyer agrees to reimburse Seller for any and all storage costs and other additional expenses resulting therefrom. Risk of loss and legal title to the Goods shall transfer to Buyer for sales in which the end destination of the Goods is outside of the United States immediately after the Goods have passed beyond the territorial limits of the United States. For all other shipments, risk of loss for damage and responsibility shall pass from Seller to Buyer upon delivery to and receipt by carrier at Seller's shipping point. All shipments are F.O.B. Seller's shipping point. Any claims for shortages or damages suffered in transit are the responsibility of Buyer and shall be submitted by Buyer directly to the carrier. Shortages or damages must be identified and signed for at the time of delivery.

5. LIMITED WARRANTY: Subject to the limitations of Section 6, Seller warrants that the Goods manufactured by Seller, other than those specifically identified below, will be free from defects in material and workmanship and meet Seller's published specifications at the time of shipment under normal use and regular service and maintenance for a period of one year from the date of shipment of the Goods by Seller, unless otherwise specified by Seller in writing. Partial Motors of any kind not fully assembled by Seller shall carry no warranty of any kind, express or implied. Products purchased by Seller from a third party for resale to Buyer ("Resale Products") shall carry only the warranty extended by the original manufacturer. THE WARRANTY SET FORTH IN THIS SECTION 5 AND THE WARRANTY SET FORTH IN SECTION 7, ARE THE SOLE AND EXCLUSIVE WARRANTIES GIVEN BY SELLER WITH RESPECT TO THE GOODS AND ARE IN LIEU OF AND EXCLUDE ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, ARISING BY OPERATION OF LAW OR OTHERWISE, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WHETHER OR NOT THE PURPOSE OR USE HAS BEEN DISCLOSED TO SELLER IN SPECIFICATIONS, DRAWINGS OR OTHERWISE, AND WHETHER OR NOT SELLER'S PRODUCTS ARE SPECIFICALLY DESIGNED AND/OR MANUFACTURED BY SELLER FOR BUYER'S USE OR PURPOSE.

This warranty does not extend to any losses or damages due to misuse, accident, abuse, neglect, normal wear and tear, negligence (other than Seller's), unauthorized modification or alteration, use beyond rated capacity, unsuitable power sources or environmental conditions, improper installation, repair, handling, maintenance or application or any other cause not the fault of Seller. To the extent that Buyer or its agents has supplied specifications, information, representation of operating conditions or other data to Seller in the selection or design of the Goods and the preparation of Seller's quotation, and in the event that actual operating conditions or other conditions differ from those represented by Buyer, any warranties or other provisions contained herein which are affected by such conditions shall be null and void.

If within thirty (30) days after Buyer's discovery of any warranty defects within the warranty period, Buyer notifies Seller thereof in writing, Seller shall, at its option and as Buyer's exclusive remedy, repair, correct or replace or refund the purchase price for, that portion of the Goods found by Seller to be defective. Failure by Buyer to give such written notice within the applicable time period shall be deemed an absolute and unconditional waiver of Buyer's claim for such defects. Seller shall have the right to require the Buyer to deliver the Goods to Seller's designated repair center or manufacturing facility. All costs associated with dismantling, reinstallation and transportation to and from Seller's designated repair center or manufacturing facility and the time and expense of Seller's personnel and representatives for site travel and diagnosis under this warranty shall be borne by the Buyer. Goods repaired or replaced during the warranty period shall be covered by the foregoing warranty for the remainder of the original warranty period or ninety (90) days from the date of shipment, whichever is longer. Buyer assumes all other responsibility for any loss, damage, or injury to persons or property arising out of, connected with, or resulting from the use of Goods, either alone or in combination with other products/components.

Section 5 applies to any entity or person who may buy, acquire or use the Goods, including any entity or person who obtains the Goods from Buyer, and shall be bound by the limitations therein, including Section 6. Buyer agrees to provide such subsequent transferee conspicuous, written notice of the provisions of Sections 5 and 6.

6. LIMITATION OF REMEDY AND LIABILITY: THE SOLE AND EXCLUSIVE REMEDY FOR BREACH OF ANY WARRANTY HEREUNDER (OTHER THAN THE WARRANTY PROVIDED UNDER SECTION 7) SHALL BE LIMITED TO REPAIR, CORRECTION OR REPLACEMENT, OR REFUND OF THE PURCHASE PRICE UNDER SECTION 5.

SELLER SHALL NOT BE LIABLE FOR DAMAGES CAUSED BY DELAY IN PERFORMANCE AND THE REMEDIES OF BUYER SET FORTH IN THIS AGREEMENT ARE EXCLUSIVE. IN NO EVENT, REGARDLESS OF THE FORM OF THE CLAIM OR CAUSE OF ACTION (WHETHER BASED IN CONTRACT, INFRINGEMENT, NEGLIGENCE, STRICT LIABILITY, OTHER TORT OR OTHERWISE), SHALL SELLER'S LIABILITY TO BUYER AND/OR ITS CUSTOMERS EXCEED THE PRICE PAID BY BUYER FOR THE SPECIFIC GOODS PROVIDED BY SELLER GIVING RISE TO THE CLAIM OR CAUSE OF ACTION. BUYER AGREES THAT IN NO EVENT SHALL SELLER'S LIABILITY TO BUYER AND/OR ITS CUSTOMERS EXTEND TO INCLUDE INCIDENTAL, CONSEQUENTIAL OR PUNITIVE DAMAGES. The term "consequential damages" shall include, but not be limited to, loss of anticipated profits, business interruption, loss of use, revenue, reputation and data, costs incurred, including without limitation, for capital, fuel, power and loss or damage to property or equipment.

It is expressly understood that any technical advice furnished by Seller with respect to the use of the Goods is given without charge, and Seller assumes no obligation or liability for the advice given, or results obtained, all such advice being given and accepted at Buyer's risk.

7. PATENTS AND COPYRIGHTS: Subject to the limitations of the second paragraph of Section 6, Seller warrants that the Goods sold, except as are made specifically for Buyer according to Buyer's specifications, do not infringe any valid U.S. patent or copyright in existence as of the date of shipment. This warranty is given upon the condition that Buyer promptly notifies Seller of any claim or suit involving Buyer in which such infringement is alleged and cooperates fully with Seller and permit Seller to control completely the defense, settlement or compromise of any such allegation of infringement. Seller's warranty as to use patents only applies to infringement arising solely out of the inherent operation according to Seller's specifications and instructions (i) of such Goods, or (ii) of any combination of Goods acquired from Seller in a system designed by Seller. In the event such Goods are held to infringe such a U.S. patent or copyright in such suit, and the use of such Goods is enjoined, or in the case of a compromise or settlement by Seller, Seller shall have the right, at its option and expense, to procure for Buyer the right to continue using such Goods, or replace them with non-infringing Goods, or modify same to become non-infringing, or grant Buyer a credit for the depreciated value of such Goods and accept return of them. In the event of the foregoing, Seller may also, at its option, cancel the agreement as to future deliveries of such Goods, without liability. No license or rights in any of Seller's intellectual property associated with the Goods is granted hereby.

8. EXCUSE OF PERFORMANCE: Seller shall not be liable for delays in performance or for non-performance due to acts of God; acts of Buyer; war; fire; flood; weather; sabotage; strikes or labor disputes; civil disturbances or riots; governmental requests, restrictions, allocations, laws, regulations, orders or actions; unavailability of or delays in transportation; default of suppliers; or unforeseen circumstances or any events or causes beyond Seller's reasonable control. Deliveries or other performance may be suspended for an appropriate period of time or canceled by Seller upon notice to Buyer in the event of any of the foregoing, but the balance of the agreement shall otherwise remain unaffected as a result of the foregoing.

If Seller determines that its ability to supply the total demand for the Goods, or to obtain material used directly or indirectly in the manufacture of the Goods, is hindered, limited or made impracticable due to causes set forth in the preceding paragraph, Seller may allocate its available supply of the Goods or such material (without obligation to acquire other supplies of any such Goods or material) among itself and its purchasers on such basis as Seller determines to be equitable without liability for any failure of performance which may result therefrom.

9. CANCELLATION: Buyer may cancel orders only upon reasonable advance written notice and upon payment to Seller of Seller's cancellation charges which include, among other things, all costs and expenses incurred, and, to cover commitments made, by the Seller and a reasonable profit thereon. Seller's determination of such termination charges shall be conclusive.

10. CHANGES: Buyer may request changes or additions to the Goods consistent with Seller's specifications and criteria. In the event such changes or additions are accepted by Seller, Seller may revise the price and dates of delivery. Seller reserves the right to change designs and specifications for the Goods without prior notice to Buyer, except with respect to Goods being made-to-order for Buyer. Seller shall have no obligation to install or make such change in any Goods manufactured prior to the date of such change.

11. NUCLEAR/MEDICAL. GOODS SOLD HEREUNDER ARE NOT FOR USE IN CONNECTION WITH ANY NUCLEAR, MEDICAL, LIFE-SUPPORT AND RELATED APPLICATIONS. Buyer accepts Goods with the foregoing understanding, agrees to communicate the same in writing to any subsequent purchasers or users and to defend, indemnify and hold harmless Seller from any claims, losses, suits, judgments and damages, including incidental and consequential damages, arising from such use, whether the cause of action be based in tort, contract or otherwise, including allegations that the Seller's liability is based on negligence or strict liability.

12. ASSIGNMENT: Buyer shall not assign its rights or delegate its duties hereunder or any interest herein without the prior written consent of Seller, and any such assignment, without such consent, shall be void.

13. QUANTITY: Buyer agrees to accept overruns of up to ten percent (10%) of the order on "made-to-order" goods, including parts. Any such additional items shall be priced at the price per item charged for the specific quantity ordered.

14. REPLACEMENT / SERVICE GOODS: Upon the cancellation or fulfillment of this order, Seller will have no obligation to sell and Buyer will have no obligation to purchase the Goods sold hereunder, including, but not limited to, the supply of replacement parts for Goods or Goods for Buyer's consumer service division. Seller is not obligated to sell Buyer or its consumer service divisions Goods: (i) for any fixed period of time after production of the Goods supplied hereunder ceases or after the last date of shipment made under this order: or (ii) at any pre-established price to fulfill Buyer's or its consumer service divisions requirements during or after production of the Goods ceases or after the last date of shipment under this order. Seller shall have the absolute right to revise the price of Goods and the terms of sale and to modify or discontinue the sale of the Goods, and such action shall not form the basis of any claim by Buyer against Seller.

15. TOOLING: Tool, die, and pattern charges, if any, are in addition to the price of the Goods and are due and payable upon completion of the tooling. All such tools, dies and patterns shall be and remain the property of Seller. Charges for tools, dies, and patterns do not convey to Buyer, title, ownership interest in, or rights to possession or removal, or prevent their use by Seller for other purchasers, except as otherwise expressly provided by Seller and Buyer in writing with reference to this provision.

16. INSPECTION/TESTING: Buyer, at its option and expense, may inspect and observe the testing by Seller of the Goods for compliance with Seller's standard test procedures prior to shipment, which inspection and testing shall be conducted at Seller's plant at such reasonable time as is specified by Seller. Any rejection of the Goods must be made promptly by Buyer before shipment. Tests shall be deemed to be satisfactorily completed and the test fully met when the Goods meet Seller's criteria for such procedures.

17. DRAWINGS: Seller's prints and drawings (including without limitation, the underlying technology) furnished by Seller to Buyer in connection with this agreement are the property of Seller and Seller retains all rights, including without limitation, exclusive rights of use, licensing and sale. Possession of such prints or drawings does not convey to Buyer any rights or license, and Buyer shall return all copies (in whatever medium) of such prints or drawings to Seller immediately upon request therefor.

18. EXPORT/IMPORT: Buyer agrees that all applicable import and export control laws, regulations, orders and requirements, including without limitation those of the United States and the European Union, and the jurisdictions in which the Seller and Buyer are established or from which Goods may be supplied, will apply to their receipt and use. In no event shall Buyer use, transfer, release, import, export, Goods in violation of such applicable laws, regulations, orders or requirements.

19. GENERAL PROVISIONS: These terms and conditions supersede all other communications, negotiations and prior oral or written statements regarding the subject matter of these terms and conditions. No change, modification, rescission, discharge, abandonment, or waiver of these terms and conditions shall be binding upon the Seller unless made in writing and signed on its behalf by a duly authorized representative of Seller. No conditions, usage of trade, course of dealing or performance, understanding or agreement purporting to modify, vary, explain, or supplement these terms and conditions shall be binding unless hereafter made in writing and signed by the party to be bound, and no modification or additional terms shall be applicable to this agreement by Seller's receipt, acknowledgment, or acceptance of purchase orders, shipping instruction forms, or other documentation containing terms at variance with or in addition to those set forth herein. Any such modifications or additional terms are specifically rejected and deemed a material alteration hereof. If this document shall be deemed an acceptance of a prior offer by Buyer, such acceptance is expressly conditional upon Buyer's assent to any additional or different terms set forth herein. No waiver by either party with respect to any breach or default or of any right or remedy, and no course of dealing, shall be deemed to constitute a continuing waiver of any other breach or default or of any other right or remedy, unless such waiver be expressed in writing and signed by the party to be bound. All typographical or clerical errors made by Seller in any quotation, acknowledgment or publication are subject to correction.

The validity, performance, and all other matters relating to the interpretation and effect of this agreement shall be governed by the law of the state of Missouri without regard to its conflicts of laws principles. Buyer and Seller agree that the proper venue for all actions arising in connection herewith shall be only in Missouri and the parties agree to submit to such jurisdiction. No action, regardless of form, arising out of transactions relating to this contract, may be brought by either party more than two (2) years after the cause of action has accrued. The U.N. Convention on Contracts for the International Sales of Goods shall not apply to this agreement.

Revised October 1, 2010

Motor Terminology Guide

Basic Considerations

It is important to select the motor that will help assure optimum performance of the appliance or equipment to be driven. To do this, a motor must be selected that is capable of starting the equipment, bringing it up to operating speed, and driving it at the necessary loading speed as long as required without excessive heating.

We suggest that motor specifications be considered in the following order:

Application. General purpose, condenser fan, belted fan, compressor, high pressure washer, etc.

Motor Type. Operating characteristics such as: capacitor start, capacitor start – capacitor run, split phase, permanent split capacitor, shaded pole and three phase.

Enclosure. The motor's housing type, such as: open, open drip-proof, totally enclosed fan cooled, totally enclosed non-ventilated, totally enclosed air over, etc.

Mounting. C-face, resilient base, rigid base, etc.

Bearings. Sleeve, ball (shields or seals).

Thermal Protection. Types of protection include automatic reset, manual reset, non-resettable, impedance protected and thermostat. Non-protected motors have no internal thermal protector and should not be used on applications that can start automatically or are out of sight of the operator.

Once these items are established, final specifications may be made for: horsepower, speed, voltage, NEMA frame size, service factor and full load amps.

Service Factor

This is a measure of the reserve margin built into a motor. It is expressed as a multiplier of the rated horsepower and determines permissible horsepower loading which may be carried continuously under normal environmental conditions. A motor operated at a service factor higher than 1.0 will have a higher temperature rise and may have different efficiency, power factor and speed than at the rated horsepower. Locked rotor torque and breakdown torque will remain unchanged.

Example: A motor operated at rated voltage and frequency, nameplate rating 1/4 HP, 1.35 service factor. 1/4 HP x 1.35 SF = .337 HP permissible loading if the ambient temperature does not exceed 40° C.

Insulation System Classification

The insulation system is made up of the electrical insulation materials used in the stator slot, wire coverings and supporting structural parts. It is classified for temperature rating purposes based on its thermal endurance. The classifications and their maximum temperatures for long service life are:

Class A	**105° C**
Class B	**130° C**
Class F	**155° C**
Class H	**180° C**

To determine the insulation class needed, add the maximum ambient temperature and the maximum temperature rise of the winding of the motor in the application.

Electric Motor Terminology

Ambient (Amb). The temperature of the space around the motor. Most motors are designed to operate in an ambient not over 40°C (104°F).

Note: A rating of 40°C Ambient is not the same as a rating of 40°C Rise, see "Temperature Rise."

Bearings (BRGS). Basic types include:

- **Self Aligning Bearing (SAB).** Preferred where low noise level is important, as on fan and blower motors. Unless otherwise stated, self aligning bearing motors listed can be mounted in any position, including shaft-up or shaft-down.
- **Ball.** Used where higher load capacity, either axial or radial, is required or where the shaft speed is lower than 500 RPM. Shields, metal rings with close running clearance on one side (single-shielded) or both sides (double-shielded) of bearing, and seals, which are similar except with rubber lips that press against inner race, more effectively excluding dirt, etc., are two barriers used to keep out dirt.

Efficiency. The ratio of output power divided by input power, usually expressed as a percentage. A measure of how well the electrical energy input to a motor is converted into mechanical energy at the output shaft. The higher the efficiency, the better the conversion process.

Motor Terminology Guide

Enclosure (Encl). The motor's housing. Types:

- **Open.** Ventilation openings in the shell and/or end shields which permit passage of external air over and around the windings of the motor. Used indoors, in fairly clean locations.
- **Open Air Over (OAO).** Motors intended for fan and blower service. Must be located in the air stream to provide motor cooling.
- **Open Drip-Proof (ODP).** Ventilation openings in end shields and shell placed so drops of liquid falling within an angle of 15° from vertical will not touch the windings.
- **Totally Enclosed (TE).** No ventilation openings in motor housing (but not airtight). Used in locations which are dirty, damp, oily, etc. Includes:
  - **Totally Enclosed, Fan-Cooled (TEFC).** Includes an external fan, in a protective shroud, to blow cooling air over the motor frame.
  - **Totally Enclosed, Non-Ventilated (TENV).** Depends on convection air for cooling.
  - **Totally Enclosed, Air Over (TEAO).** Depends on air flow from driven device for motor cooling. To avoid overheating, these motors must not be used in applications where there is no air over.
- **Hazardous Location.** A totally enclosed motor designed to withstand internal explosion of specified gases or vapors, and not allow the internal flame or explosion to escape.

Full-Load Amps (F/L Amps). Line current drawn by a motor when operating at rated load and voltage. Shown on motor nameplate along with service factor amps if other than 1.0. Important for proper wire size selection and motor starter heater and overcurrent protector selection.

Frame. Usually refers to the NEMA system of standardized motor mounting dimensions, which facilitates replacement.

Hertz (Hz). Frequency, in cycles per second, of AC power; usually 60 Hz in USA, 50 Hz overseas.

Horsepower (HP). The unit of output power usually applied to electric motors in North America. One horsepower is equivalent to 746 watts. Motor output power can also be rated in terms of watts. A 9 watt motor is 0.012 or 1/80 horsepower.

Motor Speeds

- **Synchronous.** The theoretical maximum speed at which an induction-type motor can operate. Synchronous speed is determined by the power line frequency and motor design (number of poles), and can be calculated using the formula:

  $$\text{RPM} = \frac{\text{Frequency in Hz} \times 120}{\text{No. of poles}}$$

- **Full-load.** The nominal speed at which an induction motor operates under rated input and load conditions. This will always be less than the synchronous speed and will vary depending on the rating and characteristics of the particular motor. For example, four pole 60 Hz fractional horsepower motors have a synchronous speed of 1800 RPM, a nominal full load speed (as shown on the nameplate) of 1725 RPM, and an actual full load speed typically ranging from 1715 to 1735 RPM.

Motor Types. Except where noted all types require single phase AC power.

- **Shaded pole.** Low starting torque, low cost. Usually used in direct drive fans and blowers, and in small pumps.
- **Permanent split capacitor (PSC).** Performance and applications similar to shaded pole but more efficient, with lower line current and higher horsepower capabilities.
- **Split phase start-induction run (or simply split phase).** Moderate starting torque, high breakdown torque, high starting current. Used on easy-starting equipment, such as belt driven fans and blowers, grinders, centrifugal pumps, gear motors, etc.
- **Split phase start-capacitor run.** Performance and applications similar to split phase start-induction run, except have higher efficiency.
- **Capacitor start-induction run (or simply capacitor start or capacitor).** High starting and breakdown torque, medium starting current. Used on hard starting applications; compressors, positive displacement pumps, farm equipment, etc.
- **Capacitor start-capacitor run (two-value).** Performance and applications similar to capacitor start-induction-run, except have higher efficiency. Generally used in higher single phase HP ratings.
- **Three Phase.** Operate on three phase power only. High starting and breakdown torque, high efficiency, medium starting current, no starting switch or auxiliary winding, simple, rugged design, long life. For all types of industrial uses.

- **Direct Current (DC).** Usable only if DC power supply is available. Commonly used on adjustable-speed applications.

Mounting (MTG)

- **Rigid.** Motor solidly fastened to equipment through metal base that is bolted or welded to motor shell, or mounted to end shield hubs without resilient rings (see "flange" below).
- **Resilient (Res).** Sometimes called rubber or hub mounted - motor shell isolated from base by vibration absorbing material, such as rubber rings on the end shields, to reduce transmission of vibration to the housing of the unit or appliance.
- **Face or flange.** Shaft end, end cover has a flat mounting surface, machined to NEMA standard dimensions with holes to allow easy, secure mounting to the housing of the unit or appliance. Commonly used on jet pumps, oil burners and gear reducers.
- **Stud.** Motor has bolts extending from front or rear, by which it is mounted. Often used on small, direct drive fans and blowers.
- **Yoke.** Tabs or ears are welded to motor shell, to allow bolting to a fan column or bracket. Used on fan-duty motors.

Power. The energy used to do work. Also the rate at which work is done. Measured in watts, horsepower, etc.

Power Factor. The ratio of real power (watts) supplied divided by apparent power supplied (volt-amperes). A measure of how well power transmission or distribution systems are being used. Do not confuse power factor with efficiency.

RPM. Rotational speed in revolutions per minute.

Rotation (Rot). Direction in which shaft rotates: CW means clockwise; CCW means counterclockwise; Rev means reversible. Rotation is usually referenced from the lead end (LE) of the motor.

Service Factor (SF). A measure of the reserve margin built into a motor. Motors rated greater than 1.0 SF have more than normal margin, and are used where unusual conditions such as occasional high or low voltage, momentary overloads, etc. are likely to occur. Used in "heavy duty" applications.

Temperature Rise. The amount by which a motor, operating under rated conditions, is hotter than its surroundings. The temperature rise rating on the motor nameplate has been replaced by a listing of maximum ambient temperature, insulation class and service factor. See "Insulation."

Thermal Protector. A temperature or current sensing device usually integral within the motor, that disconnects the motor winding from its power source to prevent overheating due to overload or failure to start. Basic types of thermal protectors include:

- **Automatic Reset (Auto).** After motor cools, protector automatically restores power. Should not be used where unexpected restarting would be hazardous.
- **Manual Reset (Man).** An external button must be pushed to restore power to motor. Preferred where unexpected restarting would be hazardous, as on saws, conveyors, compressors, etc.
- **Impedance Protected.** Motor is designed with sufficiently high inherent impedance to prevent overheating under any condition of load, including locked rotor (stalled).
- **Non-resettable (one shot).** When motor heats up the protector contacts open, but cannot be reclosed. This type of protector is used primarily in unattended fans where a stalled condition is usually not detected.

Thermostat. Employs a built-in temperature sensing device, with external leads, which must be properly connected to the control circuit of the motor controller to limit the frame or winding temperature as required by U.L., the N.E.C., C.S.A. or the C.E.C.

Torque. Twist, or turning ability, supplied by the shaft. Measured in foot-pounds (ft-lbs), inch-pounds (in-lbs), ounce-feet (oz-ft) or ounce-inches (oz-in). Three torque values are important.

- **Locked rotor or starting torque.** The torque produced at initial start.
- **Breakdown torque.** The maximum torque a running motor will produce, without stalling.
- **Pull-up torque.** The minimum torque available during the acceleration period.

Voltage. Force pushing electric current through a circuit, like pressure in a water system.

Motor Selection Guide Instructions

How to Use this Selection Guide:

1. Measure the diameter of the motor if not known.

2. Check the RPM of the motors; (7200 divided by the number of poles or coil windings for 60 Hz Applications)

- 2 Poles = 3000 to 3600 RPM
- 4 Poles = 1500 to 1725 RPM
- 6 Poles = 1050 to 1140 RPM
- 8 Poles = 800 to 850 RPM

3. Measure the length of the stack of the stator to determine horsepower. (Disassemble motor for this or measure between the dimples on the exterior of the shell)

4. Look in the tables and find the motor diameter you need for the replacement.

5. Find in the section that matches the voltage you need.

6. Look down the RPM column and find the motors that match the required speed.

7. Find the motors that have the same or greater stack (or HP or Amps if known).

8. Then pick the group that is the right electrical type Shaded Pole or PSC. PSC can replace a Shaded Pole, but usually with 1/2" less stack. A shaded pole cannot replace a PSC. All other motors should be replaced by the exact electrical type.

9. Match up the application and enclosure you need. (Do not use an open motor to replace an enclosed motor.) This will point you to the catalog motor number(s) that may fit your application and the page of the catalog where to find the details on the motor(s). Turn to the catalog page and check the detailed rating data and mechanical features to assure the proper selection.

Abbreviations:

Shaft	
DBL	Double Shaft

Enclosure	
ODP	Open Drip-Proof
OAO	Open Air Over
ODPAO	Open Drip-Proof, Air Over
OFC	Open Fan Cooled
TEAO	Totally Enclosed, Air Over
TEFC	Totally Enclosed, Fan Cooled
TENV	Totally Enclosed, Non-Ventilated

Motor Type	
Cap St	Capacitor Start
CS/CR	Capacitor Start/Capacitor Run
PSC	Permanent Split Capacitor
Shd Pl	Shaded Pole
Spl Phs	Split Phase
Spl/Cr	Split Phase/Capacitor Run
3Phs	Three Phase

Motor Selection Guide
3.3" Diameter

115 Volts

Poles	RPM	HP	Amps	Iron Stack	Speed	Shaft	Type	Motor Type	Enclosure	Catalog Number
4	1550	2W	0.2	0.500	1	0.250	Shd Pl	Unit Bearing	TEAO	2102
4	1550	4W	0.5	0.500	1	0.250	Shd Pl	Unit Bearing	TEAO	2103
4	1550	4W	0.5	0.500	1	0.250	Shd Pl	Unit Bearing	TEAO	2115
4	1550	5W	0.6	0.500	1	0.250	Shd Pl	Unit Bearing	TEAO	2119
4	1550	5W	0.6	0.500	1	0.250	Shd Pl	Unit Bearing	TEAO	2120
4	1550	6W	0.6	0.750	1	0.250	Shd Pl	Unit Bearing	TEAO	2116
4	1550	6W	0.6	0.750	1	0.250	Shd Pl	Unit Bearing	TEAO	2117
4	1550	9W	0.8	0.750	1	0.250	Shd Pl	Unit Bearing	TEAO	2118
4	1550	9W	0.8	0.750	1	0.250	Shd Pl	Unit Bearing	TEAO	2108
4	1550	16W	1.1	1.250	1	0.250	Shd Pl	Unit Bearing	TEAO	2111
4	1550	16W	1.1	1.250	1	0.250	Shd Pl	Unit Bearing	TEAO	2112

208-230 Volts

Poles	RPM	HP	Amps	Iron Stack	Speed	Shaft	Type	Motor Type	Enclosure	Catalog Number
4	1550	9W	0.4	0.750	1	0.250	Shd Pl	Unit Bearing	TEAO	2109
4	1550	9W	0.4	0.750	1	0.250	Shd Pl	Unit Bearing	TEAO	2110
4	1550	16W	0.6	1.250	1	0.250	Shd Pl	Unit Bearing	TEAO	2113
4	1550	16W	0.6	1.250	1	0.250	Shd Pl	Unit Bearing	TEAO	2114

Motor Selection Guide
5.0" Diameter

115 Volts

Poles	RPM	HP	Amps	Iron Stack	Speed	Shaft	Type	Motor Type	Enclosure	Catalog Number
4	1550	1/8	1.8	0.750	3	0.500-DBL	PSC	Room A/C	OAO	3996
4	1550	1/6	2.3	1.000	2	0.500-DBL	PSC	Room A/C	OAO	1238
4	1625	1/10	1.2	1.250	3	0.500	PSC	Direct Drive Fan/Blower	OAO	8956
4	1550	1/10	5.2	1.500	1	0.500	Shd Pl	Condenser Fan	ODPAO	721P
4	1550	1/6	5.4	1.500	1	0.500	Shd Pl	Condenser Fan	ODPAO	722P
4	1550	1/10	3.8	1.750	3	0.500-DBL	Shd Pl	Room A/C	OAO	2817
6	1075	1/30	0.5	0.750	3	0.500	PSC	Direct Drive Fan/Blower	OAO	1374
6	1100	1/20	0.6	0.750	3	0.500	PSC	Direct Drive Fan/Blower	OAO	1676
6	1100	1/15	0.8	1.000	3	0.500-DBL	PSC	Direct Drive Fan/Blower	OAO	1090
6	1050	1/15	2.8	1.000	1	0.375	Shd Pl	Direct Drive Fan/Blower	OAO	1334
6	1050	1/15	2.8	1.000	1	0.500	Shd Pl	Direct Drive Fan/Blower	OAO	1335
6	1050	1/15	3.0	1.000	2	0.500	Shd Pl	Direct Drive Fan/Blower	OAO	1333
6	1050	1/15	2.6	1.500	1	0.500	Shd Pl	Direct Drive Fan/Blower	OAO	1342
6	1050	1/10	4.8	1.500	2	0.500-DBL	Shd Pl	Room A/C	OAO	2819
6	1050	1/10	3.7	1.500	1	0.500	Shd Pl	Direct Drive Fan/Blower	OAO	1336
6	1050	1/6	5.2	1.500	1	0.500	Shd Pl	Direct Drive Fan/Blower	OAO	2166
6	1075	1/5	3.5	1.500	4	0.500	PSC	Direct Drive Fan/Blower	OAO	1268
6	1050	1/8	7.3	1.750	1	0.500	Shd Pl	Direct Drive Fan/Blower	OAO	1337
6	1050	1/4	3.7	1.750	3	0.500	PSC	Direct Drive Fan/Blower	ODPAO	1390
6	1050	1/10	4.8	1.750	4	0.500-DBL	Shd Pl	Room A/C	OAO	2818
6	1050	1/10	4.8	1.750	5	0.500-DBL	PSC	Room A/C	OAO	2827P
6	1050	1/5	7.1	2.000	1	0.500	Shd Pl	Direct Drive Fan/Blower	OAO	1340
6	1050	1/5	7.3	2.000	3	0.500	Shd Pl	Direct Drive Fan/Blower	OAO	1338P
6	1050	1/6	6.0	2.000	1	0.500	Shd Pl	Direct Drive Fan/Blower	OAO	1127P
6	1050	1/4	8.9	2.00	1	0.500	Shd Pl	Direct Drive Fan/Blower	OAO	1341

115/208-230 Volts

Poles	RPM	HP	Amps	Iron Stack	Speed	Shaft	Type	Motor Type	Enclosure	Catalog Number
4	1550	11/5	2.8/1.4	0.750	1	0.375	PSC	GE 21 frame repl.	ODPAO	1469P
4	1550	1/20	2.2/1.1	0.750	1	0.375	PSC	GE 21 frame repl.	ODPAO	1468P
4	1550	1/10	3.8/1.9	1.000	1	0.375	PSC	GE 21 frame repl.	ODPAO	1470P
6	1050	1/10	3.8/1.9	1.250	1	0.375	PSC	GE 21 frame repl.	ODPAO	1471P

208-230 Volts

Poles	RPM	HP	Amps	Iron Stack	Speed	Shaft	Type	Motor Type	Enclosure	Catalog Number
4	1550	1/8	1.1	0.750	1	0.500	PSC	Condenser Fan	TEAO	1176
6	1050	1/5	3.9	2.000	3	0.500	Shd Pl	Direct Drive Fan/Blower	OAO	1339

Motor Selection Guide
5.0" Diameter

230 Volts

Poles	RPM	HP	Amps	Iron Stack	Speed	Shaft	Type	Motor Type	Enclosure	Catalog Number
4	1500	1/20	1.1	1.000	1	0.375	PSC	Condenser Fan	ODPAO	1775P
4	1500	1/15	1.9	1.250	1	0.375	PSC	Condenser Fan	ODPAO	1779P
4	1550	1/10	2.6	1.000	1	0.500	Shd Pl	Condenser Fan	ODPAO	721P
4	1550	1/8	0.8	1.000	1	0.500	PSC	Condenser Fan	OAO	1675
4	1625	1/4	1.4	1.000	1	0.500	PSC	Condenser Fan	ODP	3042
4	1625	1/4	1.9	1.000	1	0.500	PSC	Condenser Fan	ODP	8330
4	1550	1/20	1.3	1.500	1	0.500	PSC	Condenser Fan	OAO	1989P
4	1550	1/6	2.7	1.500	1	0.500	Shd Pl	Condenser Fan	ODPAO	722P
4	1550	1/6	2.8	2.000	1	0.500	Shd Pl	Condenser Fan	OAO	1527
4	1550	1/4	3.4	2.000	3	0.500 - DBL	Shd Pl	Room A/C	OAO	1221P
6	1075	1/6	1.0	1.250	1	0.500	PSC	Condenser Fan	TEAO	1901
6	1075	1/20	0.5	1.250	3	0.500	PSC	Direct Drive Fan/Blower	OAO	3034
6	1075	1/5	1.3	1.500	1	0.500	PSC	Room A/C	ODPAO	1124
6	1050	1/10	2.0	1.500	2	0.500-DBL	Shd Pl	Room A/C	OAO	2820
6	1050	1/4	1.5	1.750	3	0.500	PSC	Direct Drive Fan/Blower	ODPAO	1391
6	1050	1/6	2.9	2.000	1	0.500	Shd Pl	Direct Drive Fan/Blower	OAO	1631

277 Volts

Poles	RPM	HP	Amps	Iron Stack	Speed	Shaft	Type	Motor Type	Enclosure	Catalog Number
8	850	1/6	0.5	1.500	3	0.500	PSC	Direct Drive Fan/Blower	OAO	1678

380-420/460 Volts

Poles	RPM	HP	Amps	Iron Stack	Speed	Shaft	Type	Motor Type	Enclosure	Catalog Number
4	1625	1/4	.95	1.000	1	0.5000	PSC	Condenser Fan	ODP	8331

Motor Selection Guide
5.6" Diameter

115 Volts

Poles	RPM	HP	Amps	Iron Stack	Speed	Shaft	Type	Motor Type	Enclosure	Catalog Number
2	3450	1/7	2.0	0.750	1	0.500	Spl Phs	Oil Burner	TENV	5866
2	3450	1/8	2.4	0.750	1	0.500	Spl Phs	Oil Burner	TENV	2097
2	3450	1/7	2.4	1.000	1	0.500	Spl Phs	Oil Burner	TENV	3083
2	3450	1/3	4.8	1.500	1	0.500	Spl Phs	Oil Burner	TENV	2319
2	3450	1/2	8.6/4.3	1.500	1	0.500	CS/CR	Belted Fan/Blower	ODP	298
2	3450	1/4	3.7	2.000	1	0.500	Spl Phs	Oil Burner	TENV	2302
4	1725	1/4	5.3	1.250	1	0.500	Spl Phs	Belted Fan/Blower	ODP	8000
4	1725	1/4	4.6	1.250	1	0.625	Spl Phs	Carbonator Pump	ODP	1004
4	1725	1/6	3.1	1.250	1	0.500	Spl Phs	Oil Burner	TENV	3252
4	1725	1/6	3.5	1.250	1	0.500	Spl Phs	Hot Water Circ Pump	ODP	2777
4	1725	1/6	3.5	1.250	1	0.500	Spl Phs	Hot Water Circ Pump	ODP	2762
4	1725	1/8	2.4	1.250	1	0.500	Spl Phs	Oil Burner	TENV	3196
4	1625	1/4	2.7	1.250	3	0.500	PSC	Direct Drive Fan/Blower	OAO	1690
4	1725	1/3	6.7	1.500	1	0.500	Spl Phs	Belted Fan/Blower	ODP	8100
4	1725	1/3	6.0	1.500	1	0.625	Spl Phs	Carbonator Pump	ODP	1003
4	1725	1/4	4.4	1.500	1	0.500	Spl Phs	Belted Fan/Blower	ODP	840CV
4	1725	1/4	4.4	1.500	1	0.500	Spl Phs	Belted Fan/Blower	ODP	2889
4	1625	1/3	3.7	1.500	3	0.500	PSC	Direct Drive Fan/Blower	OAO	1692
4	1725	1/2	8.7	2.000	1	0.500	Spl Phs	Belted Fan/Blower	ODP	8200
4	1725	1/3	5.6	2.000	1	0.500	Spl Phs	Belted Fan/Blower	ODP	841CV
4	1725	1/3	5.4	2.000	1	0.500	Spl Phs	Belted Fan/Blower	ODP	2888
4	1725	1/2	7.8	2.250	1	0.500	Spl Phs	Belted Fan/Blower	ODP	1542C
4	1725	1/2	7.8	2.250	1	0.500	Spl Phs	Belted Fan/Blower	ODP	2887
4	1725	1/3	5.8	2.250	2	0.500	Spl Phs	Belted Fan/Blower	ODP	1786
4	1725	1/3	7.1	2.250	2	0.500	Spl Phs	General Purpose	ODP	3053
4	1625	1/2	5.5	2.250	3	0.500	PSC	Direct Drive Fan/Blower	OAO	1694
4	1625	3/4	8.6	2.500	3	0.500	PSC	Direct Drive Fan/Blower	OAO	1696
6	1075	1/6	2.6	1.000	1	0.500	PSC	Unit Heater Fan	TEAO	9034
6	1075	1/6	3.0	1.000	3	0.500 - DBL	PSC	Room A/C	ODPAO	1216
6	1075	1/8	1.8	1.000	3	0.500 - DBL	PSC	Room A/C	TEAO	8523
6	1075	1/6	2.4	1.250	2	0.500	PSC	Unit Heater Fan	TEAO	4856
6	1075	1/4	3.5	1.250	3	0.500	PSC	Direct Drive Fan/Blower	OAO	1863
6	1075	1/3	5.2	1.500	3	0.500	PSC	Direct Drive Fan/Blower	OAO	1864
6	1075	1/3	5.1	1.750	1	0.500	PSC	Unit Heater Fan	TEAO	9036
6	1075	1/4	3.6	1.750	1	0.500	PSC	Unit Heater Fan	TEAO	9035
6	1075	1/2	6.8	1.750	3	0.500	PSC	Direct Drive Fan/Blower	OAO	5451
6	1075	1/3	7.0	1.750	3	0.500	PSC	Direct Drive Fan/Blower	OAO	591
6	1075	1/2	7.3	1.750	4	0.500	PSC	Direct Drive Fan/Blower	OAO	5460

Motor Selection Guide
5.6" Diameter *(continued)*

115 Volts *(continued)*

Poles	RPM	HP	Amps	Iron Stack	Speed	Shaft	Type	Motor Type	Enclosure	Catalog Number
6	1075	1/3	5.3	2.000	4	0.500	PSC	Direct Drive Fan/Blower	OAO	1410
6	1075	3/4	11.7	2.250	4	0.500	PSC	Direct Drive Fan/Blower	OAO	3340
6	1075	1/2	6.5	2.500	3	0.500	PSC	Direct Drive Fan/Blower	OAO	1865
6	1075	3/4	9.5	2.500	3	0.500	PSC	Direct Drive Blower	OAO	8904
6	1075	3/4	10.6	2.750	4	0.500	PSC	Direct Drive Fan/Blower	OAO	5463
6	1075	1	12.1	3.000	3	0.500	PSC	Direct Drive Fan/Blower	OAO	8906
6	900	3/4	11.9	3.500	4	0.500	PSC	Direct Drive Fan/Blower	OAO	1125
8	825	1/3	4.5	1.750	1	0.500	PSC	Condenser Fan	ODPAO	2342
8	850	1/6	4.5	1.750	1	0.500	Cap St	General Purpose	ODP	3700

115/208-230 Volts

Poles	RPM	HP	Amps	Iron Stack	Speed	Shaft	Type	Motor Type	Enclosure	Catalog Number
2	3450	1/2	8.6/4.3	1.500	1	0.500	CS/CR	Belted Fan/Blower	ODP	298
2	3450	3/4	9.2	2.000	1	0.500	CS/CR	Belted Fan/Blower	ODP	430
2	3450	1	11.6/5.8	2.500	1	0.625	CS/CR	Belted Fan/Blower	ODP	431
4	1725	1/4	4.4/2.2	1.250	1	0.625	Spl Phs	Carbonator Pump	ODP	6001
4	1725	1/2	7.5/3.6	2.000	1	0.625	Spl Phs	Carbonator Pump	ODP	6078
4	1725	1/3	6.2/3.1	2.000	1	0.625	Spl Phs	Carbonator Pump	ODP	6079
4	1725	1/3	6.0/3.0	2.000	1	0.500	Cap St	Belted Fan/Blower	ODP	180
4	1725	1/2	7.8/3.9	2.250	1	0.500	Spl Phs	Belted Fan/Blower	ODP	2695

200 Volts

Poles	RPM	HP	Amps	Iron Stack	Speed	Shaft	Type	Motor Type	Enclosure	Catalog Number
6	1080	1	5.9	3.000	1	0.625	PSC	Condenser Fan	ODPAP	8068

Motor Selection Guide
5.6" Diameter *(continued)*

208-230 Volts

Poles	RPM	HP	Amps	Iron Stack	Speed	Shaft	Type	Motor Type	Enclosure	Catalog Number
4	1500	1/6	0.8	0.750	1	0.500	PSC	Condenser Fan	TEAO	3405
4	1550	1/6	1.1	0.750	1	0.500	PSC	Condenser Fan	TEAO	6128
4	1550	1/6	1.4	1.000	1	0.500	PSC	Condenser Fan	ODPAO	1645
4	1625	1/4	1.4	1.250	1	0.500	PSC	Condenser Fan	TEAO	1890
4	1625	1/3	1.9	1.250	1	0.500	PSC	Condenser Fan	TEAO	1891
4	1725	1/4	2.3	1.250	1	0.625	Spl Phs	Carbonator Pump	ODP	1004H
4	1625	1/4	1.6	1.250	3	0.500 - DBL	PSC	Room A/C	ODPAO	8725
4	1550	1/4	2.1	1.500	1	0.500	PSC	Condenser Fan	ODPAO	6124
4	1625	1/4	1.5	1.500	1	0.500	PSC	Condenser Fan	TEAO	6129
4	1725	1/2	2.7	1.500	1	0.500	PSC	Condenser Fan	ODP	644
4	1625	1/3	2.1	1.500	3	0.500	PSC	Direct Drive Fan/Blower	OAO	1693
4	1625	1/3	2.2	1.500	3	0.500 - DBL	PSC	Room A/C	ODPAO	1887
4	1625	1/3	1.9	1.500	3	0.500 - DBL	PSC	Room A/C	ODPAO	8726
4	1625	1/3	1.8	1.750	1	0.500	PSC	Condenser Fan	ODPAO	4961
4	1625	1/3	2.9	1.750	1	0.500	PSC	Condenser Fan	ODPAO	7232
4	1625	1/3	1.8	1.750	1	0.500	PSC	Condenser Fan	AO	4811
4	1625	1/3	2.4	1.750	1	0.500	PSC	Condenser Fan	TEAO	6127
4	1625	1/2	3.0	2.000	1	0.500	PSC	Condenser Fan	TEAO	1892
4	1725	1/3	2.9	2.250	2	0.500	Spl Phs	Belted Fan/Blower	ODP	1789
4	1625	1/2	3.0	2.250	3	0.500	PSC	Direct Drive Fan/Blower	OAO	1695
4	1625	3/4	5.2	2.500	1	0.500 - DBL	PSC	Room A/C	ODPAO	8231
4	1625	3/4	4.0	2.500	3	0.500	PSC	Direct Drive Fan/Blower	OAO	1697
6	1075	1/8	1.0	0.750	1	0.500	PSC	Condenser Fan	ODPAO	3484
6	1100	1/10	0.8	0.750	1	0.500	PSC	Condenser Fan	TEAO	3402
6	1100	1/12	0.6	0.750	1	0.500	PSC	Condenser Fan	TEAO	3401
6	1200	1/12	0.6	0.750	2	0.500	PSC	Condenser Fan	TEAO	3033
6	1050	1/15	0.5	0.875	1	0.500	PSC	Condenser Fan	TEAO	5459
6	1075	1/4	1.7	1.000	1	0.500	PSC	Condenser Fan	ODPAO	3851
6	1075	1/4	1.6	1.000	1	0.500	PSC	Condenser Fan	ODPAO	8230
6	1075	1/5	1.3	1.000	1	0.500	PSC	Condenser Fan	TEAO	5450
6	1075	1/5	1.7	1.000	1	0.500	PSC	Condenser Fan	TEAO	5454
6	1075	1/6	1.3	1.000	1	0.500	PSC	Condenser Fan	ODPAO	5461
6	1075	1/6	1.0	1.000	1	0.500	PSC	Condenser Fan	TEAO	1859
6	1075	1/5	1.4	1.000	3	0.500 - DBL	PSC	Room A/C	OAO	1152
6	1075	1/6	1.5	1.000	3	0.500 - DBL	PSC	Room A/C	ODPAO	3133
6	1100	1/4	1.5	1.125	1	0.500	PSC	Condenser Fan	TEAO	3403
6	1075	1/3	2.0	1.250	1	0.500	PSC	Condenser Fan	TEAO	5455

Motor Selection Guide
5.6" Diameter *(continued)*

208-230 Volts *(continued)*

Poles	RPM	HP	Amps	Iron Stack	Speed	Shaft	Type	Motor Type	Enclosure	Catalog Number
6	1075	1/4	1.5	1.250	1	0.500	PSC	Condenser Fan	TEAO	1876
6	1075	1/4	1.5	1.250	1	0.500	PSC	Condenser Fan	TEAO	1860
6	1100	1/4	1.7	1.250	1	0.500	PSC	Condenser Fan	TEAO	3404
6	1075	1/4	1.9	1.250	3	0.500 - DBL	PSC	Room A/C	ODPAO	3134
6	1075	1/4	1.5	1.250	3	0.500	PSC	Direct Drive Fan/Blower	OAO	1971
6	1075	1/3	2.2	1.500	1	0.500	PSC	Condenser Fan	ODPAO	6880
6	1075	1/4	1.9	1.500	1	0.500	PSC	Condenser Fan	ODPAO	3846
6	1075	1/5	2.0	1.500	1	0.500	PSC	Condenser Fan	ODPAO	1648
6	1075	1/3	1.9	1.500	3	0.500	PSC	Direct Drive Fan/Blower	OAO	1972
6	1075	1/3	2.3	1.500	3	0.500 - DBL	PSC	Room A/C	TEAO	5108
6	1100	1/2	2.0	1.625	3	0.500 - DBL	PSC	Room A/C	TEAO	8683
6	1075	1/3	2.0	1.750	1	0.500	PSC	Condenser Fan	TEAO	1877
6	1075	1/3	3.0	1.750	1	0.500	PSC	Condenser Fan	ODPAO	9993
6	1075	1/3	2.0	1.750	1	0.500	PSC	Condenser Fan	TEAO	1861
6	1075	1/3	2.5	1.750	3	0.500 - DBL	PSC	Room A/C	ODPAO	1213
6	1075	1/3	2.5	1.750	3	0.500 - DBL	PSC	Room A/C	ODPAO	3135
6	1075	1/3	1.9	1.750	3	0.500 - DBL	PSC	Room A/C	TEAO	8558
6	1075	1/2	3.6	1.750	4	0.500	PSC	Direct Drive Fan/Blower	OAO	5461
6	1075	1/2	3.1	2.000	1	0.500	PSC	Condenser Fan	ODPAO	3852
6	1075	1/2	2.4	2.000	1	0.500 - DBL	PSC	Room A/C	TEAO	2554
6	1075	1/3	2.2	2.000	1	0.500	PSC	Condenser Fan	ODPAO	3847
6	1075	1/3	2.2	2.000	1	0.500	PSC	Condenser Fan	ODPAO	4960
6	1075	1/3	2.2	2.000	2	0.500	PSC	Condenser Fan	TEAO	8670
6	1075	1/2	2.9	2.000	3	0.500	PSC	Direct Drive Fan/Blower	OAO	1973
6	1075	1/2	2.9	2.250	1	0.500	PSC	Condenser Fan	TEAO	1878
6	1075	1/2	3.1	2.250	1	0.500	PSC	Condenser Fan	ODPAO	1444
6	1075	1/2	3.1	2.250	1	0.500	PSC	Condenser Fan	ODPAO	3848
6	1075	1/2	3.1	2.250	1	0.500	PSC	Condenser Fan	ODPAO	7025
6	1075	1/2	2.9	2.250	1	0.500	PSC	Condenser Fan	TEAO	1862
6	1075	1/2	4.5	2.250	3	0.500 - DBL	PSC	Room A/C	ODPAO	1824
6	1075	1/2	4.5	2.250	3	0.500 - DBL	PSC	Room A/C	ODPAO	3136
6	1075	1/2	3.1	2.500	1	0.500	PSC	Condenser Fan	TEAO	3330
6	1075	3/4	4.8	2.500	1	0.500	PSC	Condenser Fan	ODPAO	3097
6	1075	3/4	4.4	2.500	1	0.500	PSC	Condenser Fan	ODPAO	8665
6	1075	3/4	4.0	2.500	3	0.500	PSC	Direct Drive Blower	OAO	8905
6	1075	3/4	4.5	3.000	1	0.500	PSC	Condenser Fan	TEAO	1868

Motor Selection Guide
5.6" Diameter *(continued)*

208-230 Volts *(continued)*

Poles	RPM	HP	Amps	Iron Stack	Speed	Shaft	Type	Motor Type	Enclosure	Catalog Number
6	1075	1/2	2.9	3.000	2	0.500	PSC	Condenser Fan	TEAO	8671
6	1075	3/4	4.7	3.000	2	0.500	PSC	Condenser Fan	TEAO	1879
6	1075	1	5.6	3.000	3	0.500	PSC	Direct Drive Fan/Blower	OAO	8907
6	1100	1	6.0	3.000	4	0.625	PSC	Direct Drive Fan/Blower	OAO	4670
6	1075	1/2	3.8	3.500	1	0.500	PSC	Condenser Fan	TEAO	8868
6	1075	1	5.2	3.500	1	0.500	PSC	Condenser Fan	ODPAO	1888
8	825	1/10	1.0	1.000	1	0.500	PSC	Condenser Fan	TEAO	1871
8	825	1/8	1.2	1.000	1	0.500	PSC	Condenser Fan	TEAO	5456
8	825	1/6	1.9	1.000	3	0.500	PSC	Direct Drive Fan/Blower	OAO	8052
8	825	1/8	0.8	1.250	1	0.500	PSC	Condenser Fan	TEAO	1872
8	825	1/6	1.0	1.250	1	0.500	PSC	Condenser Fan	TEAO	1873
8	825	1/8	1.1	1.250	1	0.500	PSC	Condenser Fan	TEAO	9735
8	825	1/6	1.2	1.375	1	0.500	PSC	Condenser Fan	TEAO	5457
8	825	1/4	2.0	1.500	1	0.500	PSC	Condenser Fan	TEAO	1874
8	825	1/6	1.0	1.500	2	0.500	PSC	Condenser Fan	TEAO	8673
8	825	1/4	1.9	1.750	1	0.500	PSC	Condenser Fan	OAO	8666
8	825	1/4	2.0	1.750	2	0.500	PSC	Condenser Fan	TEAO	8674
8	850	1/4	1.5	1.750	1	0.500	PSC	Condenser Fan	TEAO	1743
8	840	1/4	1.4	1.750	1	0.500	PSC	Condenser Fan	TEAO	1123
8	825	1/3	2.8	1.750	2	0.500	PSC	Direct Drive Fan/Blower	OAO	5469
8	825	1/3	3.0	2.000	1	0.500	PSC	Direct Drive Fan/Blower	OAO	6873
8	825	1/3	2.0	2.250	1	0.500	PSC	Condenser Fan	OAO	8667
8	825	1/3	3.0	2.250	1	0.500	PSC	Condenser Fan	ODPAO	5345
8	825	1/3	2.6	2.250	1	0.500	PSC	Condenser Fan	ODPAO	7040
8	825	1/3	1.8	2.250	1	0.500	PSC	Condenser Fan	TEAO	1875
8	825	1/3	2.0	2.500	2	0.500	PSC	Condenser Fan	TEAO	8675
8	825	1/2	2.8	3.000	1	0.500	PSC	Condenser Fan	TEAO	1870
8	825	1/2	2.8	3.000	1	0.500	PSC	Condenser Fan	ODPAO	7041

Motor Selection Guide
5.6" Diameter *(continued)*

208-230/460 Volts

Poles	RPM	HP	Amps	Iron Stack	Speed	Shaft	Type	Motor Type	Enclosure	Catalog Number
6	1075	1/3	2.4/1.2	2.000	1	0.500	PSC	Comm Cond Fan	TEAO	6727
6	1075	1/2	2.8/1.4	2.500	1	0.500	PSC	Comm Cond Fan	TEAO	7475
6	1075	1/2	3.2/1.6	2.500	1	0.500	PSC	Condenser Fan	TEAO	2201
6	1140	1	3.5/1.7	2.750	1	0.500	3 Phs	Comm Cond Fan	OPDAO	1326
6	1075	3/4	4.6/2.3	3.000	1	0.500	PSC	Condenser Fan	TEAO	2202
6	1075	3/4	5.0/2.5	3.000	1	0.500	PSC	Comm Cond Fan	TEAO	6603
6	1075	3/4	5.0/2.5	3.000	1	0.500	PSC	Comm Cond Fan	TEAO	5489

277 Volts

Poles	RPM	HP	Amps	Iron Stack	Speed	Shaft	Type	Motor Type	Enclosure	Catalog Number
6	970	1/5	0.8	1.500	3	0.500	PSC	Direct Drive Fan/Blower	OAO	1680
6	1075	1/4	2.0	1.500	3	0.500	PSC	Direct Drive Fan/Blower	OAO	600
6	1075	1/3	2.2	1.750	3	0.500	PSC	Direct Drive Fan/Blower	OAO	601
6	1075	1/2	3.4	2.000	3	0.500	PSC	Direct Drive Fan/Blower	OAO	602
8	810	1/10	0.6	1.250	3	0.500	PSC	Direct Drive Fan/Blower	OAO	1679

265-277 Volts

Poles	RPM	HP	Amps	Iron Stack	Speed	Shaft	Type	Motor Type	Enclosure	Catalog Number
6	1075	1/5	1.2	1.000	3	0.500 - DBL	PSC	Room A/C	TEAO	3360

460 Volts

Poles	RPM	HP	Amps	Iron Stack	Speed	Shaft	Type	Motor Type	Enclosure	Catalog Number
6	1075	1/4	0.8	1.250	1	0.500	PSC	Condenser Fan	TEAO	3736
6	1075	1/3	1.3	2.000	1	0.500	PSC	Condenser Fan	TEAO	3737
6	1075	1/2	1.5	2.500	1	0.500	PSC	Condenser Fan	TEAO	3738
6	1075	3/4	2.0	3.000	1	0.500	PSC	Condenser Fan	TEAO	3742
6	1100	1	3.3	3.000	1	0.500	PSC	Direct Drive Fan/Blower	OAO	2553
8	825	1/4	1.0	1.750	1	0.500	PSC	Condenser Fan	TEAO	1880
8	825	1/3	1.0	2.250	1	0.500	PSC	Condenser Fan	TEAO	1881
8	825	1/2	1.6	2.250	1	0.500	PSC	Condenser Fan	TEAO	1882

380/460 Volts

Poles	RPM	HP	Amps	Iron Stack	Speed	Shaft	Type	Motor Type	Enclosure	Catalog Number
4	1600	1/3	1.0	1.750	1	0.500	3 Phs	Comm Cond Fan	OPDAO	2387

Motor Selection Guide
6.3" Diameter

115 Volts

Poles	RPM	HP	Amps	Iron Stack	Speed	Shaft	Type	Motor Type	Enclosure	Catalog Number
4	1725	1/3	5.6	1.000	1	0.500	Spl Phs	Evap Cooler	ODP	6764
4	1725	1/2	8.2	1.125	1	0.500	Spl Phs	Evap Cooler	ODP	6768
4	1725	1/3	5.8	1.125	1	0.500	Spl Phs	Belted Fan/Blower	ODP	4253
4	1725	1/4	5.0	1.125	1	0.500	Spl Phs	Direct Drive Fan/Blower	TEAO	6326
4	1725	1/2	7.9	1.375	1	0.500	Spl Phs	Evap Cooler	ODP	7095
4	1725	1/3	6.4	1.375	2	0.500	Spl Phs	Evap Cooler	ODP	7097
4	1725	1/3	5.4	1.500	1	0.500	Spl Phs	Direct Drive Fan/Blower	TEAO	6328
4	1725	1/3	6.0	1.500	1	0.500	Spl Phs	General Purpose	ODP	2911
4	1725	1/2	8.2	1.500	2	0.500	Spl Phs	Evap Cooler	ODP	7098
4	1725	1/2	8.2	1.500	2	0.500	Spl Phs	Evap Cooler	ODP	6765
4	1725	1/3	6.4	1.500	2	0.500	Spl Phs	Evap Cooler	ODP	6767
4	1725	1/2	8.0	1.625	1	0.625	Spl Phs	Belted Fan/Blower	ODP	4114
4	1725	3/4	10.5	1.625	1	0.500	Spl Phs	Evap Cooler	ODP	6769
4	1725	3/4	11.0	1.750	1	0.500	Spl Phs	Evap Cooler	ODP	7096
4	1725	1/2	9.2	1.750	2	0.625	Spl Phs	Belted Fan/Blower	ODP	4293
4	1725	1/2	8.6	1.750	2	0.625	Spl Phs	General Purpose	ODP	3306
4	1725	1/4	5.1	1.750	2	0.500	Spl Phs	Belted Fan/Blower	ODP	5792C
4	1725	3/4	10.9	1.750	2	0.500	Spl Phs	Evap Cooler	ODP	7099
4	1725	3/4	10.9	1.750	2	0.500	Spl Phs	Evap Cooler	ODP	6770
4	1725	1/2	7.4	2.000	1	0.625	Spl Phs	Direct Drive Fan/Blower	TEAO	6330
4	1725	1/2	8.7	2.000	2	0.500	Spl Phs	Belted Fan/Blower	ODP	5794C
4	1725	1/3	6.4	2.250	2	0.500	Spl Phs	Belted Fan/Blower	ODP	5793C
4	1725	3/4	11.5	2.250	2	0.625	Spl Phs	Belted Fan/Blower	ODP	5795C
4	1725	1/3	5.0	2.750	1	0.500	Spl Phs	Oil Burner	TENV	3580
4	1725	1	13.6	3.000	2	0.625	Cap St	Evap Cooler	ODP	2574
8	850	1/3	9.0	3.500	1	0.625	Spl Phs	Direct Drive Fan/Blower	ODP	1208

Motor Selection Guide
6.3" Diameter *(continued)*

115/230 Volts

Poles	RPM	HP	Amps	Iron Stack	Speed	Shaft	Type	Motor Type	Enclosure	Catalog Number
4	1725	1/2	7.4/3.7	1.500	1	0.625	Cap St	Belted Fan/Blower	ODP	1790
4	1725	1/2	8.0/4.0	1.625	1	0.625	Spl Phs	Belted Fan/Blower	ODP	4114
4	1725	1/2	8.0/4.0	1.625	1	0.625	Cap St	General Purpose	TEFC	T12C2J
4	1725	3/4	11.4/5.7	2.000	1	0.625	Cap St	Belted Fan/Blower	ODP	1893
4	1725	3/4	11.2/5.6	2.000	1	0.625	Spl Phs	Belted Fan/Blower	ODP	4115
4	1725	3/4	11.6	2.000	1	0.625	Cap St	General Purpose	ODP	1660
4	1725	1	14.0/7.0	2.750	1	0.625	CS/CR	Belted Fan/Blower	ODP	1769
4	1725	1	14.4/7.2	2.750	1	0.625	Spl Phs	Evap Cooler	ODP	5149
4	1725	1	16.4/8.2	2.750	1	0.625	Cap St	General Purpose	ODP	3754
8	850	1/3	8.0/4.0	3.000	1	0.625	Cap St	General Purpose	ODP	3705

115/208-230 Volts

Poles	RPM	HP	Amps	Iron Stack	Speed	Shaft	Type	Motor Type	Enclosure	Catalog Number
2	3450	1 1/2	17.0/8.5	2.375	1	0.625	Cap St	Belted Fan/Blower	ODP	299
4	1725	1/2	14.0	2.750	1	0.625	Cap St	Belted Fan/Blower	ODP	3187C
4	1725	1 1/2	22.4/11.2	3.500	1	0.625	Cap St	Belted Fan/Blower	ODP	4242

208-230 Volts

Poles	RPM	HP	Amps	Iron Stack	Speed	Shaft	Type	Motor Type	Enclosure	Catalog Number
6	1075	3/4	3.8	2.250	1	0.625	PSC	Comm Cond Fan	ODPAO	3566
8	825	1/2	3.6	2.500	1	0.625	PSC	Comm Cond Fan	ODPAO	3568
8	825	3/4	5.3	3.750	1	0.625	PSC	Comm Cond Fan	ODPAO	3567

Motor Selection Guide
6.3" Diameter *(continued)*

208-230/460 Volts

Poles	RPM	HP	Amps	Iron Stack	Speed	Shaft	Type	Motor Type	Enclosure	Catalog Number
4	1725	1/2	4.5	1.500	2	0.500	Spl Phs	Evap Cooler	ODP	6795
4	1725	1/2	4.8	1.750	1	0.500	Spl Phs	Evap Cooler	ODP	6766
4	1725	3/4	5.4	1.750	1	0.500	Spl Phs	Evap Cooler	ODP	6771
4	1725	1/2	4.6	1.750	2	0.625	Spl Phs	Belted Fan/Blower	ODP	4293H
4	1725	3/4	5.5	1.750	2	0.500	Spl Phs	Evap Cooler	ODP	6796
4	1725	1	3.4/1.7	2.000	1	0.625	3 Phs	Belted Fan/Blower	ODP	1813
4	1725	1 1/2	5.0/2.5	2.500	1	0.625	3 Phs	Belted Fan/Blower	ODP	1814
4	1725	1 1/2	5.0/2.5	2.500	1	0.875	3 Phs	Comm Blower	ODP	7913
4	1725	2	6.6/3.3	2.750	1	0.625	3 Phs	Belted Fan/Blower	ODP	1815
4	1725	1	7.2	3.000	2	0.625	Cap St	Evap Cooler	ODP	2423
4	1725	2	7.6/3.9	3.000	1	0.875	3 Phs	Comm Blower	ODP	7914
4	1725	2	6.3/3.1	3.500	1	0.875	3 Phs	Comm Blower	TEAO	8461
4	1725	3	9.2/4.6	3.500	1	0.875	3 Phs	Comm Blower	ODP	7915
6	1075	1/2	2.5	2.000	2	0.500	PSC	Unit Heater Fan	TEAO	1810
6	1075	1	5.2	2.750	1	0.625	PSC	Comm Cond Fan	ODPAO	3565
6	1140	3/4	3.6/1.8	2.750	1	0.625	3 Phs	Comm Cond Fan	ODPAO	1817
6	1075	3/4	3.7	2.750	2	0.500	PSC	Unit Heater Fan	TEAO	1811
6	1075	1	5.8/2.7	3.000	1	0.500	PSC	Comm Cond Fan	ODPAO	8431
6	1140	1	4.8/2.4	3.250	1	0.625	3 Phs	Comm Cond Fan	ODPAO	1818
6	1140	1	4.8/2.4	3.250	1	0.625	3 Phs	Comm Cond Fan	ODPAO	1820
6	1075	1	5.1/2.6	3.500	1	0.625	PSC	Comm Cond Fan	TEAO	2686
6	1075	1	5.2/2.6	3.500	1	0.625	PSC	Condenser Fan	TEAO	2203
6	1140	1	6.0/3.0	3.500	1	0.625	3 Phs	Comm Cond Fan	ODPAO	1816
6	1075	1 1/2	7.6/3.8	4.000	1	0.625	PSC	Condenser Fan	TEAO	2204
6	1075	1 1/2	7.5/3.8	4.000	1	0.625	PSC	Comm Cond Fan	TEAO	2896
6	1140	1 1/2	7.1/3.6	4.250	1	0.625	3 Phs	Comm Cond Fan	ODPAO	1819
6	1140	1 1/2	7.2/3.6	4.250	1	0.625	3 Phs	Comm Cond Fan	ODPAO	1821
6	1140	2	7.8/3.9	4.500	1	0.625	3 Phs	Comm Cond Fan	ODPAO	8987
6	1140	2	7.8/3.9	4.500	1	0.625	3 Phs	Comm Cond Fan	ODPAO	1822
8	850	1	5.0/2.5	4.250	1	0.625	3 Phs	Comm Cond Fan	ODPAO	1828

575 Volts

Poles	RPM	HP	Amps	Iron Stack	Speed	Shaft	Type	Motor Type	Enclosure	Catalog Number
8	850	1	2.1	4.250	1	0.625	3 Phs	Comm Cond Fan	ODPAO	1829

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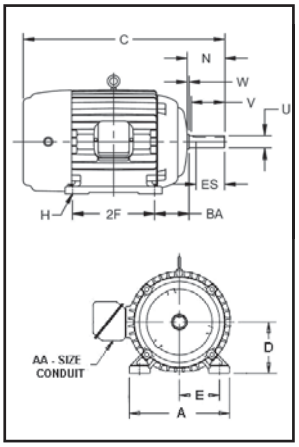
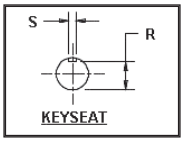
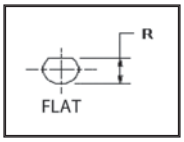
NEMA Dimension Guide

Dimensions for AC Foot-Mounted Motors with Single Straight-Shaft Extension







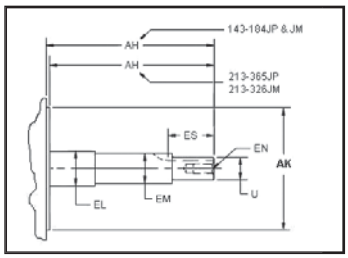
Frame	A Max	D	E	2F	BA	H	U	N-W	V Min.	Keyseat R	Keyseat ES Min.	Keyseat S	AA Min.
42	—	2.62	1.75	1.69	2.06	0.28 slot	0.375	1.12	—	0.328	—	flat	—
48	—	3.00	2.12	2.75	2.50	0.34 slot	0.500	1.50	—	0.453	—	flat	—
48H				4.75									
56	—	3.50	2.44	3.00	2.75	0.34 slot	0.625	1.88	—	0.517	1.41	0.188	—
56H				5.00									
143T	7.00	3.50	2.75	4.00	2.25	0.34 hole	0.875	2.25	2.00	0.771	1.41	0.188	3/4
145T				5.00									
182	9.00	4.50	3.75	4.50	2.75	0.41 hole	0.875	2.25	2.00	0.771	1.41	0.188	3/4
184				5.50									
182T				4.50			1.125	2.75	2.50	0.986	1.78	0.250	
184T				5.50									
213	10.50	6.25	5.00	5.50	4.25	0.53 hole	1.125	3.00	2.75	0.986	2.03	0.250	3/4
215				7.00									
213T				5.50			1.375	3.38	3.12	1.201	2.41	0.312	1
215T				7.00									
254U	12.50	5.25	4.25	8.25	3.50	0.41 hole	1.375	3.75	3.50	1.201	2.78	0.312	1
256U				10.00									
254T				8.25			1.625	4.00	3.75	1.416	2.91	0.375	1-1/4
256T				10.00									
284U	14.00	7.00	5.50	9.50	4.75	0.53 hole	1.625	4.88	4.63	1.416	3.78	0.375	1-1/4
286U				11.00									
284T				9.50			1.875	4.62	4.38	1.591	3.28	0.500	1-1/2
286T				11.00									
284TS				9.50			1.625	3.25	3.00	1.416	1.91	0.375	1-1/2
286TS				11.00									
324U	16.00	8.00	6.25	10.50	5.25	0.66 hole	1.875	5.63	5.38	1.591	4.28	0.500	1-1/2
326U				12.00									
324US				10.50			1.625	3.25	3.00	1.416	1.91	0.375	
326US				12.00									
324T				10.50			2.125	5.25	5.00	1.845	3.91	0.500	2
326T				12.00									
324TS				10.50			1.875	3.75	3.50	1.591	2.03		
326TS				12.00									
364U	18.00	9.00	7.00	11.25	5.88	0.66 hole	2.125	6.38	6.13	1.845	5.03	0.500	2
365U				12.25									
364US				11.25			1.875	3.75	3.50	1.591	2.03		
365US				12.25									
364T				11.25			2.375	5.88	5.62	2.021	4.28	0.625	3
365T				12.25									
364TS				11.25			1.875	3.75	3.50	1.591	2.03	0.500	
365TS				12.25									
404U	20.00	10.00	8.00	12.25	6.62	0.81 hole	2.375	7.13	6.88	2.021	5.53	0.625	2
405U				13.75									
404US				12.25			2.125	4.25	4.00	1.845	2.78	0.500	
405US				13.75									
404T				12.25			2.875	7.25	7.00	2.450	5.65	0.750	3
405T				13.75									
404TS				12.25			2.125	4.25	4.00	1.845	2.78	0.500	
405TS				13.75									
444U	22.00	11.00	9.00	14.50	7.50	0.81 hole	2.875	8.63	8.38	2.450	7.03	0.750	2-1/2
445U				16.50									
444US				14.50			2.125	4.25	4.00	1.845	2.78	0.500	
445US				16.50									
444T				14.50			3.375	8.50	8.25	2.880	6.91	0.875	3
445T				16.50									
447T				20.00									
449T				25.00									
444TS				14.50			2.375	4.75	4.50	2.021	3.03	0.625	
445TS				16.50									
447TS				20.00									
449TS				25.00									
5004	25.00	12.50	10.00	16.00	8.50	0.94 hole	3.875	11.63	11.25	3.309	10.00	1.000	—
5004G							3.500	10.50	10.19	3.007	9.00	0.875	—
5004S							2.875	5.75	5.50	2.450	4.13	0.750	—
5004SS							2.375	4.75	4.50	2.021	3.13	0.625	—
5006L	28.50			20.00			4.875	14.63	14.38	4.168	12.88	1.250	—
5006S							2.875	5.75	5.50	2.450	4.00	0.750	—
5006MS							3.375	6.75	6.50	2.880	5.00	0.875	—
5008	25.00			25.00			3.875	11.63	11.25	3.309	10.00	1.000	—
5008G							3.500	10.50	10.19	3.007	9.00	0.875	—
5008L	28.50						4.875	14.63	14.38	4.168	12.88	1.250	—
5008S	25.00[1]						2.875	5.75	5.50	2.450	4.131	0.750	—
	28.50[2]										4.00[2]		
5008MS	28.50						3.375	6.75	6.50	2.880	5.00	0.875	—
5008SS	25.00[1]						2.375	4.75	4.50	2.021	3.13[1]	0.625	—
	28.50[2]										3.00[2]		
5010L	28.50			32.00			4.875	14.63	14.38	4.168	12.88	1.250	—
5010S							2.875	5.75	5.50	2.450	4.00	0.750	—
5010MS							3.375	6.75	6.50	2.880	5.00	0.875	—
5010SS							2.375	4.75	4.50	2.021	3.00	0.625	—
5012L				40.00			4.875	14.63	14.38	4.168	12.88	1.250	—
5012S							2.875	5.75	5.50	2.450	4.00	0.750	—
5012MS							3.375	6.75	6.50	2.880	5.00	0.875	—
5012SS							2.375	4.75	4.50	2.021	3.00	0.625	—

1. Totally Enclosed Motors 2. Open Drip-Proof Motors

NEMA Dimension Guide *(continued)*

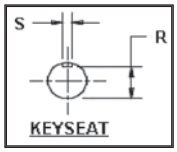
JP Shaft

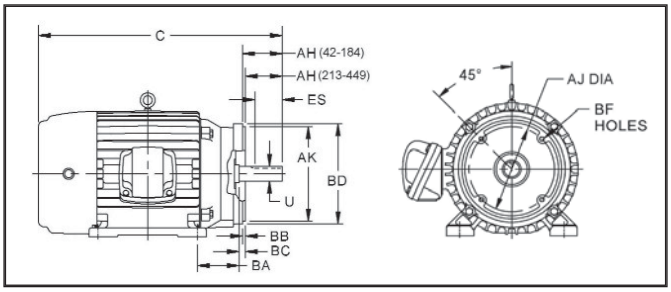
Frame	AH	U	EM	EL	EN	AK	Keyseat		
							R	ES Min.	S
143 145	7.313	0.8745	1.0000	1.156	3/8-16 x .75	4.500	0.771	1.65	0.188
182 184	7.313	0.8745	1.0000	1.250	3/8-16 x .75	4.500	0.771	1.65	0.188
213 215	8.125	1.2495	1.3750	1.750	3/8-16 x .75	8.500	1.112	1.65	0.250
254 256	8.125	1.2495	1.3750	1.750	1/2-13 x 1.00	8.500	1.112	2.53	0.250
284 286	8.125	1.2495	1.3750	1.750	1/2-13 x 1.00	12.500	1.112	2.53	0.250
324 326	8.125	1.2495	1.3750	1.750	1/2-13 x 1.00	12.500	1.112	2.53	0.250
364 365	8.125	1.6245	1.3750	1.750	1/2-13 x 1.00	12.500	1.416	2.53	0.250



JM Shaft

Frame	AH	U	EM	EL	EN	AK	Keyseat		
							R	ES Min.	S
143 145	4.250	0.8745	1.0000	1.156	3/8-16 x .75	4.500	0.771	1.65	0.188
182 184	4.250	0.8745	1.0000	1.250	3/8-16 x .75	4.500	0.771	1.65	0.188
213 215	4.250	0.8745	1.0000	1.250	3/8-16 x .75	8.500	0.771	1.65	0.188
254 256	5.250	1.2495	1.3750	1.750	1/2-13 x 1.00	8.500	1.112	2.53	0.250
284 286	5.250	1.2495	1.3750	1.750	1/2-13 x 1.00	12.500	1.112	2.53	0.250
324 326	5.250	1.2495	1.3750	1.750	1/2-13 x 1.00	12.500	1.112	2.53	0.250





Dimensions for Type C-Face AC Motors, Footed or Footless

Frame	AJ	AK	BA	BB Min.	BC	BD Max.	BF Hole			U	AH	Keyseat		
							Number	Tap Size	Bolt Penetration Allowance			R	ES Min.	S
42C	3.750	3.000	2.062	0.16	-0.19	5.00	4	1/4-20	0.188	0.375	1.312	0.328	—	flat
48C	3.750	3.000	2.50	0.16	-0.19	5.625	4	1/4-20	—	0.500	1.69	0.453	—	flat
56C	5.875	4.500	2.75	0.16	-0.19	6.50	4	3/8-16	—	0.625	2.06	0.515	1.41	0.188
143TC & 145TC	5.875	4.500	2.75	0.16	+0.12	6.50	4	3/8-16	—	0.875	2.12	0.771	1.41	0.188
182TC & 184TC	7.250	8.500	3.50	0.25	+0.12	9.00	4	1/2-13	0.56	1.125	2.62	0.986	1.78	0.250
182TCH & 184TCH	5.875	4.500	3.50	0.16	+0.12	6.50	4	3/8-16	0.75	1.125	2.62	0.986	1.78	0.250
213TC & 215TC	7.250	8.500	4.25	0.25	+0.25	9.00	4	1/2-13	0.56	1.375	3.12	1.201	2.41	0.312
254TC & 256TC	7.250	8.500	4.75	0.25	+0.25	10.00	4	1/2-13	0.75	1.625	3.75	1.416	2.91	0.375
284TC & 286TC	9.000	10.500	4.75	0.25	+0.25	11.25	4	1/2-13	0.75	1.875	4.38	1.591	3.28	0.500
284TSC & 286TSC	9.000	10.500	4.75	0.25	+0.25	11.25	4	1/2-13	0.75	1.625	3.00	1.416	1.91	0.375
324TC & 326TC	11.000	12.500	5.25	0.25	+0.25	14.00	4	5/8-11	0.94	2.125	5.00	1.845	3.91	0.500
324TSC & 326TSC	11.000	12.500	5.25	0.25	+0.25	14.00	4	5/8-11	0.94	1.875	3.50	1.591	2.03	0.500
364TC & 365TC	11.000	12.500	5.88	0.25	+0.25	14.00	4	5/8-11	0.94	2.375	5.62	2.021	4.28	0.625
364TSC & 365TSC	11.000	12.500	5.88	0.25	+0.25	14.00	8	5/8-11	0.94	1.875	3.50	1.591	2.03	0.500
404TC & 405TC	11.000	12.500	6.62	0.25	+0.25	15.50	8	5/8-11	0.94	2.875	7.00	2.450	5.65	0.750
404TSC & 405TSC	11.000	12.500	6.62	0.25	+0.25	15.50	8	5/8-11	0.94	2.125	4.00	1.845	2.78	0.500
444TC & 445TC	14.000	16.000	7.50	0.25	+0.25	18.00	8	5/8-11	0.94	3.375	8.25	2.880	6.91	0.875
444TSC & 445TSC	14.000	16.000	7.50	0.25	+0.25	18.00	8	5/8-11	0.94	2.375	4.50	2.021	3.03	0.625
447TC & 449TC	14.000	16.000	7.50	0.25	+0.25	18.00	8	5/8-11	0.94	3.375	8.25	2.880	6.91	0.875
447TSC & 449TSC	14.000	16.000	7.50	0.25	+0.25	18.00	8	5/8-11	0.94	2.375	4.50	2.021	3.03	0.625
5000 Frame Series	14.500	16.500	—	0.25	+0.25	18.00	4	5/8-11	0.94	—	—	—	—	—

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