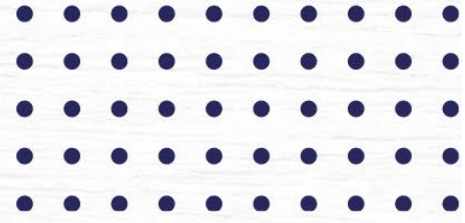
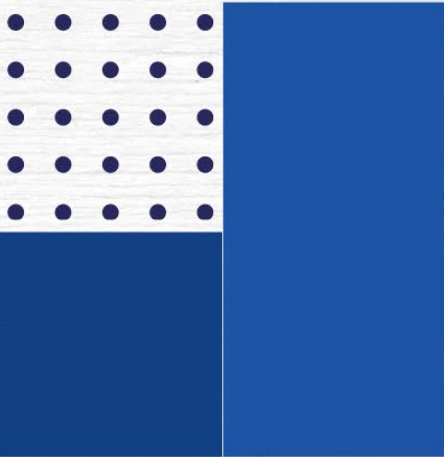
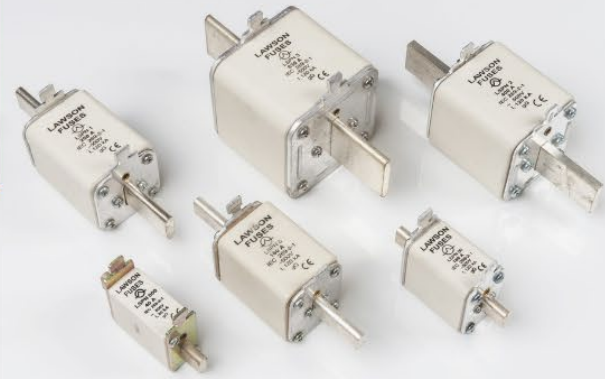




PART OF



# PRODUCT CATALOGUE



ASTA20 CERT

ISO 9001

ISO/IEC 17025

[WWW.LAWSON-FUSES.COM](http://WWW.LAWSON-FUSES.COM)

# TIMELINE



<b>1938</b>	<b>Company founded as Lawson Beck Ltd</b> Collaborative to find solutions to some true company problems
<b>1939</b>	<b>Second World War</b> Production of aircraft fuses under direction of industry program
<b>1944</b>	<b>Pullcap Fuses</b> Fuse-holder range patented in the UK and several other countries
<b>1947</b>	<b>Post War Electrification</b> Participation in the UK postwar electrification program
<b>1950</b>	<b>Company Name Changes</b> Company name changed to Lawson Fuses
<b>1960</b>	<b>Greenfield Site</b> Business moved to a Greenfield site in Ponteland, Newcastle

# TIMELINE

<b>1979</b>	<b>Direct Exports</b> Direct exports commence
<b>1980's</b>	<b>Company founded as Lawson Beck Ltd</b> Products accredited to the ASTA 20 in 1982 and Authorisation Scheme Company independently accredited to quality standard BS5750 (now ISO9001) in 1989
<b>1996</b>	<b>Standard Electricals Ltd of Delhi</b> The Company joins with Standard Electricals Ltd of Delhi, India, to form a 50/50 Joint Venture Company, Standard Lawson FusegearLtd, located in Delhi
<b>2003</b>	<b>Lawson Fuses India Ltd.</b> Joint Venture Company dissolved with Lawson Fuses Ltd taking control and renaming the Company Lawson Fuses India Ltd.
<b>2018</b>	<b>Lucy Group</b> Lawson Fuses acquired by Lucy Group
<b>2020</b>	<b>Relocation to Vadodara</b> Lawson Fuses India manufacturing facility relocates to Vadodara, India, close to Lucy Electric facility and changes its name to Lawson Lucy India Private Limited





Lawson Lucy India Private Ltd. was operationally established in 2003 in New Delhi. In 2018, it was acquired by Lucy group and subsequently, in 2020, we moved its operations to a brand new, modern manufacturing facility near Vadodara, close to Lucy Group's other manufacturing facilities.

Our India operation offers a wide range of fuse-links and fuse-holders for a large variety of applications. These products meet the requirements of International, Indian, British, and other applicable standards and serve a wide spectrum of the industrial applications, providing reliability and safety to the electrical systems across the globe.

The company's products comply with (IEC) International Standards and (BS) British Standards together with many other specialized requirements and are specified and accepted throughout the world.

Lawson Lucy India Private Ltd. is a wholly owned subsidiary of Lawson Fuses Ltd. which was founded in 1938 in the UK and specializes in the design, development, and manufacturing of low voltage HRC fuse-links and fuse-holders.

Its products are ASTA Certified and comply with the ASTA 20 Authorisation Scheme for low voltage fuse-links under which they are Authorised to be marked "ASTA 20 CERT".

The company's operations are independently accredited to ISO 9001 and its test facilities are also independently accredited to ISO/IEC 17025.

***Lawson Fuses enjoy and enviable reputation for product quality and excellence of service.***

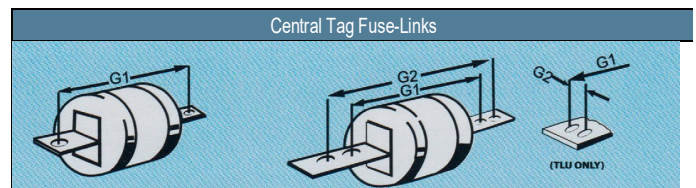


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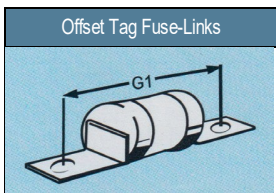
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DFB	NH Industrial Fuse-bases	9
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400/415 Volt Industrial Fuse-Links to IEC 60269-2/BS 88-2

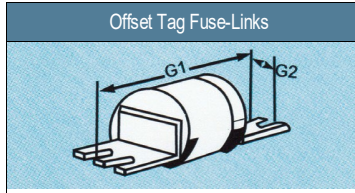
Rated Voltages 415V a.c. 250V d.c. • Breaking Capacities 80kA a.c. 40kA d.c. • Breaking Ranges and Utilisation Category gG/gM



BS 88 Ref.	Current Rating (A)	List Ref.	Fixing Centres G1		BS 88 Ref.	Current Rating (A)	List Ref.	Fixing Centres G1		Fixing Centres G2	
			mm	ins				mm	ins	mm	ins
-	2	TB 2	97	3 <sup>31</sup> / <sub>16</sub>	C1	355 400	TM 355 TM 400	133	5 <sup>1</sup> / <sub>2</sub>	184	7 <sup>1</sup> / <sub>2</sub>
	4	TB 4									
	6	TB 6									
	10	TB 10									
	16	TB 16									
	20	TB 20									
	25	TB 25									
	32	TB 32									
	35	TB 35									
	40	TB 40									
	50	TB 50									
	63	TB 63									
	(as B1)	2									
4		TBC 4									
6		TBC 6									
10		TBC 10									
16		TBC 16									
20		TBC 20									
25		TBC 25									
32		TBC 32									
35		TBC 35									
40		TBC 40									
50		TBC 50									
63		TBC 63									
B1		80 100	TC 80 TC 100	111	4 <sup>1</sup> / <sub>2</sub>	-	450 500 560 630	TTM 450 TTM 500 TTM 560 TTM 630	133	5 <sup>1</sup> / <sub>2</sub>	184
B2	125 160 200	CTF 125 CTF 160 CTF 200	111	4 <sup>1</sup> / <sub>2</sub>	-	450 500 560 630	TT 450 TT 500 TT 560 TT 630	165	6 <sup>1</sup> / <sub>2</sub>	229	9
B2	125 160 200	TF 125 TF 160 TF 200	111	4 <sup>1</sup> / <sub>2</sub>	C3	670 710 750 800	TLM 670 TLM 710 TLM 750 TLM 800	133	5 <sup>1</sup> / <sub>2</sub>	184	7 <sup>1</sup> / <sub>2</sub>
-	80 100 125 160 200	84TF 80 84TF 100 84TF 125 84TF 160 84TF 200	99	3 <sup>31</sup> / <sub>16</sub>	-	670 710 750 800	TLT 670 TLT 710 TLT 750 TLT 800	165	6 <sup>1</sup> / <sub>2</sub>	229	9
B3	250 315	TKF 250 TKF 315	111	4 <sup>1</sup> / <sub>2</sub>	D1	670 710 750 800	TLU 670 TLU 710 TLU 750 TLU 800	149	5 <sup>1</sup> / <sub>2</sub>	32	1 <sup>1</sup> / <sub>2</sub>
-	250 315	84TK 250 84TK 315	99	3 <sup>31</sup> / <sub>16</sub>							
-	125 160 200 250 315	TKM 125 TKM 160 TKM 200 TKM 250 TKM 315	133	5 <sup>1</sup> / <sub>2</sub>							
B4	355 400	TMF 355 TMF 400	111	3 <sup>31</sup> / <sub>16</sub>							



BS 88 Ref.	Current Rating (A)	List Ref.	Fixing Centres G1	
			mm	ins
-	2	NIT 2		
-	4	NIT 4		
-	6	NIT 6		
A1	10	NIT 10	44.5	1 <sup>1</sup> / <sub>2</sub>
-	16	NIT 16		
-	20	NIT 20		
-	25	NIT 25		
-	32	NIT 32		
-	2	TIA 2		
-	4	TIA 4		
-	6	TIA 6		
A2	10	TIA 10	73	2 <sup>1</sup> / <sub>2</sub>
-	16	TIA 16		
-	20	TIA 20		
-	25	TIA 25		
-	32	TIA 32		
-	35	TIS35		
-	40	TIS 40		
-	50	TIS 50		
A3	63	TIS 63	73	2 <sup>1</sup> / <sub>2</sub>
-	80	TIS 80		
-	100	TIS 100		
-	125	TIS 125		
-	6	TCP 6		
-	10	TCP 10		
-	16	TCP 16		
-	20	TCP 20		
-	25	TCP 25		
A4	32	TCP 32	94	3 <sup>31</sup> / <sub>16</sub>
-	40	TCP 40		
-	50	TCP 50		
-	63	TCP 63		
-	80	TCP 80		
-	100	TCP 100		
-	125	CTFP 125		
(as A4)	160	CTFP 160	94	3 <sup>31</sup> / <sub>16</sub>
-	200	CTFP 200		
-	125	TFP 125		



BS 88 Ref.	Current Rating (A)	List Ref.	Fixing Centres G1		Fixing Centres G2	
			mm	ins	mm	ins
-	355 400	85TM 355 85TM 400	102	4	22	7 <sup>1</sup> / <sub>8</sub>
-	450 500 560 630	86TT 450 86TT 500 86TT 560 86TT 630	102	4	22	7 <sup>1</sup> / <sub>8</sub>
-	670 710 750 800	86TT 670 86TT 710 86TT 750 86TT 800	102	4	22	7 <sup>1</sup> / <sub>8</sub>

Dimensions and current ratings of the Lawson type N&T Industrial Fuse-Links comply with the standardized requirements of IEC 60269-2 and BS 88-2.

Additional types and current ratings are included in the range. Lawson type N&T Industrial Fuse-Links can be fitted in Boltin Fuse-Holders (see page 15) or suitable fusegear.

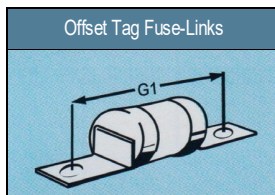
A schedule of Motor Starting Capability for Lawson type N&T Industrial Fuse-Links is

Motor circuit protection Fuse-Links - Current and dimensional equivalents									
Continuous Current Rating (A)	Motor Starting Rating (A)	List Ref.	Equivalent		Continuous Current Rating (A)	Motor Starting Rating (A)	List Ref.	Equivalent	
			Standard Type	BS 88 Reference				Standard Type	BS 88 Reference
20	25	NIT20M25	NIT	A1	100	125	TCP100M125	TCP	A4
20	32	NIT20M32							
32	40	NIT32M40							
32	50	NIT32M50							
32	63	NIT32M63							
32	40	TIA32M40	TIA	A2	100	125	TC100M125	TC	B1
32	50	TIA32M50							
32	63	TIA32M63							
63	80	TIS63M80	TIS	A3	200	250	TFP200M250	TFP	(as A4)
63	100	TIS63M100							
100	125	TIS100M125							
63	80	TB63M80	TB	-	200	250	TF200M250	TF	B2
63	100	TB63M100							
63	80	TBC63M80	TBC	(AS B1)	315	400	TKF315M400	TKF	B3
63	100	TBC63M100							
400	500	TMF400M500							
400	500	TM400M500			400	500	TM400M500	TM	C1

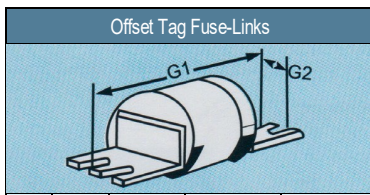


690 Volt Industrial Fuse-Links to IEC 60269-2/BS 88-2

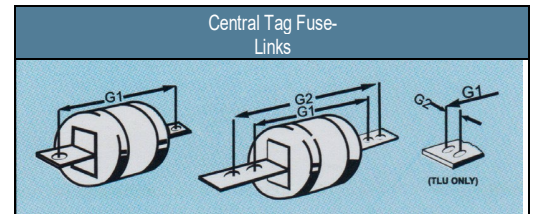
Rated Voltages 690V a.c. 250V d.c.(min) • Breaking Capacities 80kA a.c. 40kA d.c. • Breaking Ranges and Utilisation Category gG/gM



BS 88 Ref.	Current Rating (A)	List Ref.	Fixing Centres G1	
			mm	ins
A1	2	SSA1 2		
	4	SSA1 4		
	6	SSA1 6	44.5	1 $\frac{3}{8}$
	10	SSA1 10		
	16	SSA1 16		
A2	20	SSA1 20		
	2	SSA2 2		
	4	SSA2 4		
	6	SSA2 6		
A3	10	SSA2 10	73	2 $\frac{7}{8}$
	16	SSA2 16		
	20	SSA2 20		
	25	SSA2 25		
A4	32	SSA2 32		
	40	SSA3 40		
	50	SSA3 50	73	2 $\frac{7}{8}$
	63	SSA3 63		
A4	32	SSA4 32		
	40	SSA4 40		
	50	SSA4 50	94	3 $\frac{7}{8}$
	63	SSA4 63		
	80	SSA4 80		



BS 88 Ref.	Current Rating (A)	List Ref.	Fixing Centres G1		Fixing Centres G2	
			mm	ins	mm	ins
-	355	85SSM 355	102	4	22	7 $\frac{1}{8}$
	400	85SSM 400				
-	450	86SST 450	102	4	22	7 $\frac{1}{8}$
	500	86SST 500				
	560	86SST 560				
	630	86SST 630				
-	670	86SST 670	102	4	22	7 $\frac{1}{8}$
	710	86SST 710				
	750	86SST 750				
	800	86SST 800				



BS 88 Ref.	Current Rating (A)	List Ref.	Fixing Centres G1		Fixing Centres G2	
			mm	ins	mm	ins
-	2	SSB 2	97	3 $\frac{3}{8}$		
	4	SSB 4				
	6	SSB 6				
	10	SSB 10				
	16	SSB 16				
	20	SSB 20				
	25	SSB 25				
	32	SSB 32				
	40	SSB 40				
	50	SSB 50				
	63	SSB 63				
	(asB1)	2			SSBC 2	111
4		SSBC 4				
6		SSBC 6				
10		SSBC 10				
16		SSBC 16				
20		SSBC 20				
B1	25	SSBC 25				
	32	SSBC 32				
	40	SSBC 40				
B2	50	SSBC 50				
	63	SSBC 63				
	80	SSB1 80	111	4 $\frac{1}{8}$	-	
B2	100	SSB1 100				
	125	SSB2 125	111	4 $\frac{1}{8}$	-	
	160	SSB2 160				
-	200	SSB2 200				
	125	84SSF 125	99	4 $\frac{3}{8}$		
	160	84SSF 160				
200	84SSF 200					
B3	250	SSB3 250	111	4 $\frac{1}{8}$	-	
	315	SSB3 315				
-	250	84SSK 250	133	3 $\frac{3}{8}$		
	315	84SSK 315				
-	250	SSKM 250	133	5 $\frac{1}{8}$		
	315	SSKM 315				
B4	355	SSB4 355	111	4 $\frac{1}{8}$	-	
	400	SSB4 400				
C1	355	SSC1 355	133	5 $\frac{1}{8}$	184	7 $\frac{1}{8}$
	400	SSC1 400				
-	355	SSMT 355	165	6 $\frac{1}{2}$	229	9
	400	SSMT 400				
C2	450	SSC2 450	133	5 $\frac{1}{8}$	184	7 $\frac{1}{8}$
	500	SSC2 500				
	560	SSC2 560				
	630	SSC2 630				
-	450	SST 450	165	6 $\frac{1}{2}$	229	9
	500	SST 500				
	560	SST 560				
	630	SST 630				
C3	670	SSC3 670	133	5 $\frac{1}{8}$	184	7 $\frac{1}{8}$
	710	SSC3 710				
	750	SSC3 750				
	800	SSC3 800				
-	670	SSLT 670	165	6 $\frac{1}{2}$	229	9
	710	SSLT 710				
	750	SSLT 750				
	800	SSLT 800				
D1	450	SSLU 450	149	5 $\frac{1}{8}$	32	1 $\frac{1}{8}$
	500	SSLU 500				
	560	SSLU 560				
	630	SSLU 630				
	670	SSLU 670				
	710	SSLU 710				
	750	SSLU 750				
	800	SSLU 800				

Dimensions and current ratings of the Lawson type SS Industrial Fuse-Links comply with the standardized requirements of IEC 60269-2 and BS 88-2.

Additional types and current ratings are included in the range.

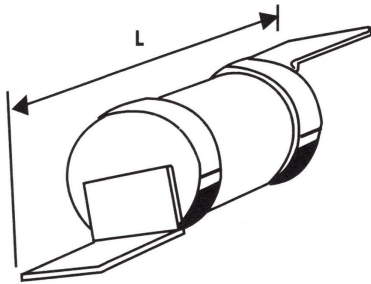
Lawson type SS Industrial Fuse-Links can be fitted in Boltin Fuse-Holders (see page 15) or suitable fusegear.

230/240 & 400/415 Volt Compact Dimension Fuse-Links to IEC 60269-2/BS 88-2

Rated Voltages 240 & 415V a.c. • Breaking Capacities 20kA at 240V, 80kA at 415V • Breaking Range and Utilisation Category gG



Lawson type CDS Compact Dimension Fuse-Links are for use in single or three phase commercial or industrial installations and can be fitted into Clipfit Fuse-Holders (see page 15) or suitable distribution fusegear.



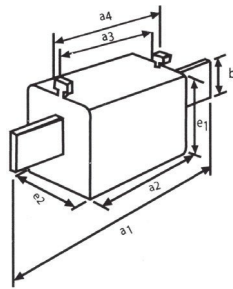
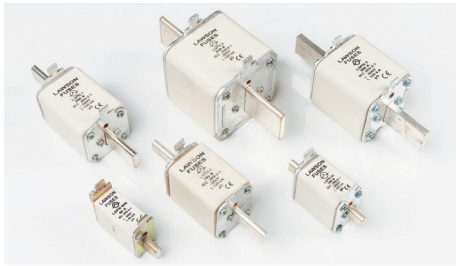
Voltage, current ratings and principal dimensions						
BS 88 Ref.	VoltageRating(V a.c.)	BreakingCapacity(kA)	Current Rating (A)	List Ref.	Overall Length (L)	
					mm	ins
E1	240	20	2 4 6 10 16 20 25 32	SS 2 SS 4 SS 6 SS 10 SS 16 SS 20 SS 25 SS 32	51	2
F1	415	80	2 4 6 10 16 20 25 32 20,25 20,32 32,40 32,50 32,63	NS 2 NS 4 NS 6 NS 10 NS 16 NS 20 NS 25 NS 32 (NS20M25) (NS20M32) (NS32M40) (NS32M50) (NS32M63)	62	2 <sup>1/16</sup>
F2	415	80	10 16 20 25 32 40 50 63	MES10 MES16 MES20 MES25 MES32 MES40 MES50 MES63	69	2 <sup>11/16</sup>





500 Volt Industrial Fuse-Links to IEC 60269-2/BS 88-2

Rated Voltage 500V a.c. • Breaking Capacity 120kA • Breaking Range and Utilisation Category gG



Current ratings and principal dimensions									
Size	List Ref.	Current Rating (A)	Dimensions (mm)						
			a1	a2	a3	a4	b	e1	e2
000	LPSN 000	6 10 16 20 25 32 40 50 63	78.5	54	45	49	15	35	21
00	LSPN 00	10 16 20 25 32 40 50 63 80 100 125 160	78.5	54	45	49	15	43	30
0	LSPN 0	32 40 50 63 80 100 125 160	125	68	62	68	15	48	40
1	LSPN 1	32 40 50 63 80 100 125 160 200 250	135	75	62	68	25	46	46
2	LSPN 2	40 50 63 80 100 125 160 200 250 315 350 400	150	75	62	68	30	57	57
3	LSPN 3	315 400 500 630	150	75	62	68	35	72	72

Also available:

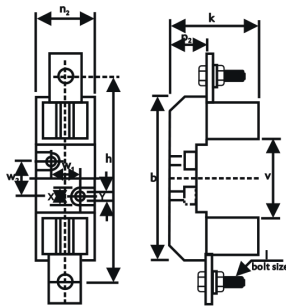
Ranges of Fuse-Links for motor circuit and semi-conductor protection

NH FUSE-BASES

TYPE DFB

500 Volt Fuse-Bases to IEC 60269-2

Rated Voltage 500V a.c. • Breaking Capacity 120kA



Specifications													
Size	List Ref.	Current Rating (A)	Dimensions (mm)										
			v	b	h	j	k	n2	p2	w1	w2	x	y
00	DFB00	160	56.5	93	100	M8	56	33.5	21	00	25	14	7.5
1	DFB01	250	80	150	175	M10	85	59	36	30	25	20	10.5
2	DFB02	400	80	150	200	M10	94	59	36	30	25	20	10.5
3	DFB03	630	80	150	210	M12	106	59	36	30	25	20	10.5

NH FUSE-HANDLE

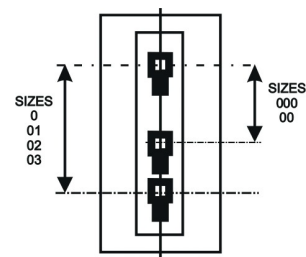
TYPE LUCH

500 Volt Fuse-Handle to IEC 60269-2

Rated Voltage 500v a.c. • Breaking Capacity 120kA



Specification	
List Ref.	Current Rating (A)
LUCH	630



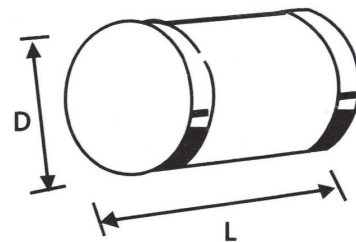
400/500/690 Volt Cylindrical Fuse-Links to IEC 60269-2, IEC 60269-3

Rated Voltages 400V a.c., 500V a.c., 690V a.c. • Breaking Capacities 20kA, 80kA, 120kA • Breaking Range and Utilisation Category gG/aM



Voltage and current rating and principal dimensions								
Voltage Rating (V a.c.)	Breaking Capacity (kA)	Current Rating (A)	List Ref.			Principal Dimensions		
			Standard	Indicator	Striker	L mm	D mm	
400	20	2 4 6 8 10 12 16 20 25	LFN8G	LFN8GI		31	8	
500	120	1 2 4 6 8 10 12 16 20 25 32	LFN10G	LFN10GI		38	10	
600	80	2 4 6 8 10 12 16 20 25	LFN14G	LFN14GI	LFN14GS	51	14	
500	120	32 40						
400	120	50						
660	80	4 6 8 10 12 16 20 25 32 40 50 63 80	LFN22G	LFN22GI	LFN22GS	58	22	
500	120	100						
400	120	125						

For motor circuit protection Fuse-Links, replace 'G' by 'M' in the list reference.  
A range of semiconductor protection Fuse-Links is also available.



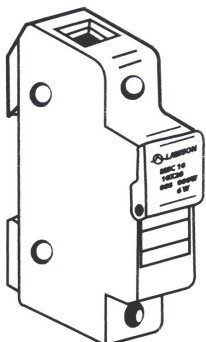
MODULAR FUSE-HOLDERS FOR CYLINDRICAL FUSE-LINKS

400/500/690 Volt Fuse-Holders to IEC 60269-2, IEC 60269-3

Rated Voltages 400V a.c., 500V a.c., 690V a.c. • Breaking Capacities 20kA, 80kA, 120kA



Specifications				
Reference	Current Rating (A)	Colour	Lawson Fuse Type	Solid Link
MSC 81 MSC 81 N	20	Grey	LFN 8G	SLLFN 820
MSC 101 MSC 101 I MSC 101 N	32		LFN 10G LFN 10M	SLLFN 10 32
MS 101 MS 101 N				
MS 141 MS 141 N	50		LFN 14G LFN 14M	SLLFN 14 50
MS221 MS221 N	125		LFN 22G LFN 22M	SLLFN 22 125



Modular Fuse-Link holders for Cartridge Fuse-Links  
Modular fuse-holders accommodate industrial cylindrical fuse-links. They have operating handles for non load-break disconnecting and electrical isolation for fuse-link replacement without tools. All contacts are silver plated. 2, 3 or 4-pole units can be made up with suitable conversion kits.



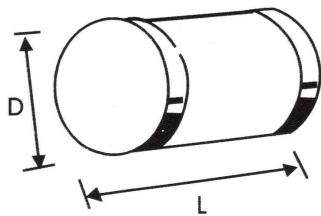
400/415 Volt House Service Fuse-Links to IEC 60269-3/BS 88-3  
 (Also meets requirements of BS 7657)

Rated Voltage 415V a.c. • Breaking Capacity 80kA a.c. • Breaking Range and Utilisation Category gG



Lawson type ME & MF Industrial Fuse-Links are for use in single or three phase house service cut-outs or similar installations. The standardised breaking capacity is 31.5kA at 0.3pf. However, to cater for increased fault levels, all Fuse-Links have been ASTA certified to 80kA at 0.15pf.

Note: ME100A Fuse-Links tested to BS 1361.



Current ratings and principal dimensions						
BS 1361 Type	Current Rating (A)	List Ref.	Principal Dimensions			
			L		D	
			mm	ins	mm	ins
IIA	5	ME 5	57	2 $\frac{1}{8}$	22.23	$\frac{7}{8}$
	10	ME 10				
	16	ME 16				
	20	ME 20				
	25	ME 25				
	32	ME 32				
	40	ME 40				
	45	ME 45				
	50	ME 50				
	63	ME 63				
	80	ME 80				
100	ME 100					
IIB	20	MF 20	57	2 $\frac{1}{8}$	30.16	1 $\frac{3}{8}$
	32	MF 32				
	40	MF 40				
	50	MF 50				
	63	MF 63				
	80	MF 80				
	100	MF 100				

400/415 Volt Electricity Supply Distribution Fuse-Links to IEC 60269-2/BS 88-2  
(Also meets requirements of BS 7656)

Rated Voltage 415V a.c. • Breaking Capacity 80kA a.c. • Breaking Range and Utilisation Category gU



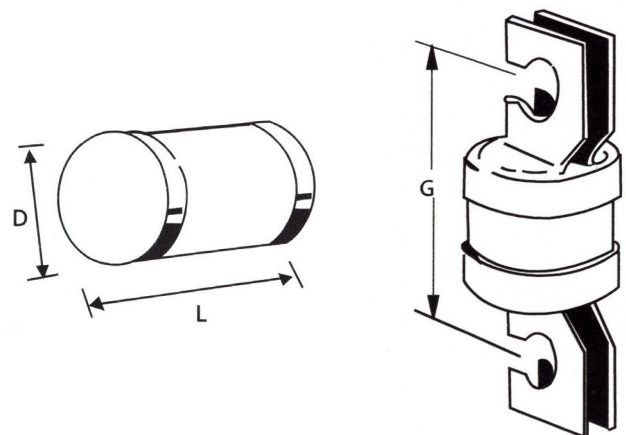
Dimensions and current ratings of the Lawson type J Industrial Fuse-Links comply with the standardized requirements of IEC 60269-2 and BS 88-2 for Fuse-Links of 82mm and 92mm fixing centres. Additional current ratings are available with these fixing centres.

The range also includes non-standardised Fuse-Links with 76mm fixing centres and female contact Fuse-Links.

Notes:

1. JPU450, 500, 560, 630A are restricted to intermittent loading when installed in 400A fixed contacts.
2. JSU800A is restricted to intermittent loading when installed in 630A fixed contacts.
3. IEC 60269 and BS 88-2 specify performance requirements up to 630A fixed contacts, therefore the performance of JSU800A Fuse-Links complies with the Breaking Range and Utilisation Category “gG”.

Current ratings and fixing centres				
Current Rating (A)	Fixing Centres G			Cylindrical L x D 47mm x 40mm
	76mm (3")	82mm (3¼)	92mm (3½)	
	List Ref.	List Ref.	List Ref.	List Ref.
20	JHU 20	JPU 20	JSU 20	JF 20
32	JHU 32	JPU 32	JSU 32	JF 32
40	JHU 40	JPU 40	JSU 40	JF 40
50	JHU 50	JPU 50	JSU 50	JF 50
63	JHU 63	JPU 63	JSU 63	JF 63
80	JHU 80	JPU 80	JSU 80	JF 80
100	JHU 100	JPU 100	JSU 100	JF 100
125	JHU 125	JPU 125	JSU 125	JF 125
160	JHU 160	JPU 160	JSU 160	JF 160
200	JHU 200	JPU 200	JSU 200	JF 200
250	JHU 250	JPU 250	JSU 250	JF 250
315	JHU 315	JPU 315	JSU 315	JF 315
355		JPU 355	JSU 355	
400		JPU 400	JSU 400	
450		JPU 450	JSU 450	
500		JPU 500	JSU 500	
560		JPU 560	JSU 560	
630		JPU 630	JSU 630	
800			JSU 800	



ELECTRICITY SUPPLY FUSE-CARRIERS

TYPE FH

For 400/415 Volt Electricity Supply Distribution Carriers to IEC 60269-2/BS 88-2  
(Also meets requirements of BS 7656)

Rated Voltage 415V a.c. • Breaking Capacity 80kA a.c.



FH 82 Fuse Holders

Suitable for JPU Fuse-Links rated up to 400A.

Breaking Capacity rating of 80kA at 415V a.c. tested in compliance with BS 88-1/IEC 60269-1 and BS 88-2/IEC 60269-2.

FH 92 Fuse Holders

Suitable for JSU Fuse-Links rated up to 630A.

Breaking Capacity rating of 80kA at 415V a.c. tested in compliance with BS 88-1/IEC 60269-1 and BS 88-2/IEC 60269-2.





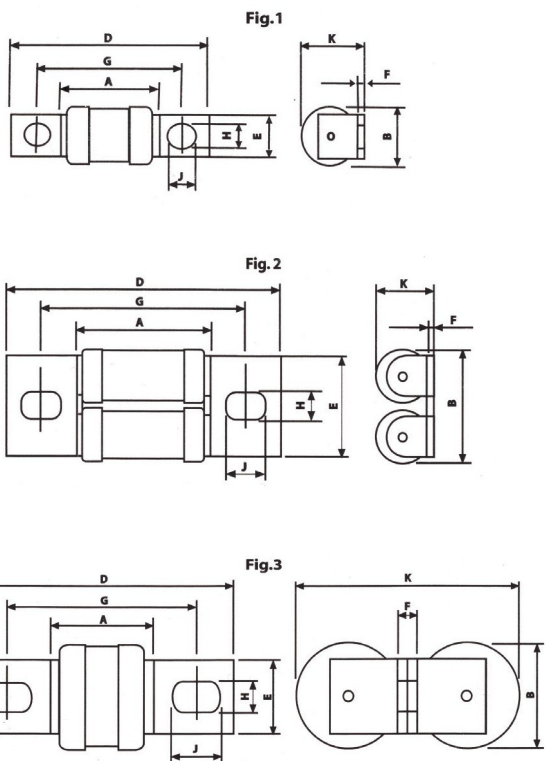
240/690 Volt Semi-conductor Protection Fuse-Links to IEC 60269-4/BS 88-4

Rated Voltages 240V a.c./120V d.c., 690V a.c./350V d.c. • Breaking Capacities 100kA a.c. 100kA d.c. • Breaking Range and Utilisation Category aR



A comprehensive range of Fuse-Links for the protection of semiconductor devices. The 240 and 690 volt series comply with the performance and dimensional requirements of BS 88: Part 4 and IEC 60269-4.

In addition to the current ratings specified in IEC 60269-4 and BS 88-4, other non-standard current ratings are available.



Principal ratings*				Principal ratings*							
Voltage Rating a.c. (V)	Current Rating (A)	List Ref.	Fig.	Voltage Rating a.c. (V)	Current Rating (A)	List Ref.	Fig.				
240	10	LSCA10	1	690	10	LSCB10	1				
	12	LSCA12			12	LSCB12					
	16	LSCA16			16	LSCB16					
	20	LSCA20			20	LSCB20					
	25	LSCA25			25	LSCB25					
	30	LSCA30			30	LSCB30					
	32	LSCA32			32	LSCB32					
	35	LSCA35			35	LSCB35					
	40	LSCA40			40	LSCB40					
	50	LSCA50			45	LSCB45					
	60	LSCA60			50	LSCB50					
	63	LSCA63			55	LSCB55					
	70	LSCA70			63	LSCB63					
	75	LSCA75			70	LSCB70					
	80	LSCA80			71	LSCB71					
	85	LSCA85			75	LSCB75					
	100	LSCA100			80	LSCB80					
	125	LSCA125			90	LSCB90					
160	LSCA160	100	LSCB100								
240	125	LSCA125	1	690	65	LSCBT65	2				
	140	LSCA140			75	LSCBT75					
	150	LSCA150			85	LSCBT85					
	160	LSCA160			90	LSCBT90					
	175	LSCA175			100	LSCBT100					
	180	LSCA180			110	LSCBT110					
	200	LSCA200			120	LSCBT120					
	225	LSCA225			125	LSCBT125					
	250	LSCA250			140	LSCBT140					
	260	LSCA260			150	LSCBT150					
	300	LSCA300			160	LSCBT160					
	315	LSCA315			180	LSCBT180					
	350	LSCA350			200	LSCBT200					
	355	LSCA355			160	LSCB160					
	400	LSCA400			170	LSCB170					
	450	LSCA450			180	LSCB180					
	240	300			LSAD300	3		690	175	LSCBD175	3
		315			LSAD315				180	LSCBD180	
325		LSCAD325	200	LSCBD200							
350		LSCAD350	225	LSCBD225							
355		LSCAD355	235	LSCBD235							
400		LSCAD400	280	LSCBD280							
450		LSCAD450	300	LSCBD300							
500		LSCAD500	315	LSCBD315							
550		LSCAD550	325	LSCBD325							
600		LSCAD600	350	LSCBD350							
630		LSCAD630	355	LSCBD355							
710		LSAD710	400	LSCBD400							
800		LSAD800	450	LSCBD450							
900		LSAD900	500	LSCBD500							
			550	LSCBD550							
			560	LSCBD560							
			630	LSCBD630							
			710	LSBD710							

\*Additional ratings available

Voltage Rating (V)	Current Rating (A)	Fig No.	Dimensions in millimetres								
			A max.	B max.	D max.	E nom.	F max.	G nom.	H nom.	J min.	K max.
240	10-100	1	29.2	17.7	58.4	12.7	2.5	41.8	6.4	7.9	19.3
240	125-315	1	32.6	38.2	85.0	25.4	3.3	59.0	10.3	13.0	41.5
240	350-630	3	32.6	38.2	85.0	25.4	6.4	59.0	10.3	13.0	83.0
690	10-100	1	50.6	17.7	79.8	12.7	2.5	63.5	6.4	7.9	19.3
690	125-200	2	50.6	37.0	95.0	32.0	1.6	70.0	8.7	10.3	19.9
690	200-355	1	60.0	38.2	114.0	25.4	3.3	85.0	10.3	13.0	41.5
690	350-630	3	60.0	38.2	114.0	25.4	6.4	85.0	10.3	13.0	83.0

Indicators

Trip-indicator fuse-links are available for use in parallel with the main fuse-link. Indicator fuse-links can either be attached to the associated fuse-link or mounted separately in panel mounted fuse clips.

A push-on adaptor and micro switch attachment is available for use with the trip indicator to give the facility of remote indication.

230/240 Volt Miniature Fuse-Links generally to IEC 60127

Rated Voltage 250V a.c. • Breaking Capacities – Various



Lawson type MIN Fuse-Links are available to meet a wide variety of applications.

Miniature and other small dimensioned Fuse-Links are grouped into several different application categories and comply with different specifications.

Current ratings and principal dimensions						
Dimensionmm	Operating Characteristics	Body Material	TypeRef.	Rating		Fuse Holder Type
				mA	Amps	
5 x 20	Fast	Glass	PDC	32, 40, 50, 63, 80, 100, 125, 160, 200, 315, 400, 500, 630, 800	1, 1.25, 1.6, 2, 2.5, 3.15, 4, 5, 6.3, 8, 10, 15	KP
		Ceramic	PCC	32, 40, 50, 63, 80, 100, 125, 160, 200, 250, 315, 400, 500, 630, 800	1, 1.25, 1.6, 2, 2.5, 3.15, 4, 5, 6.3, 8, 10	
	Slow	Glass	PDC-S	32, 40, 50, 63, 80, 100, 125, 160, 200, 315, 400, 500, 630, 800	1, 1.25, 1.6, 2, 2.5, 3.15, 4, 5, 6.3, 8, 10	
		Ceramic	PCC-S	125, 160, 200, 250, 315, 400, 500, 630, 800	1, 1.25, 1.6, 2, 2.5, 3.15, 4, 5, 6.3, 8, 10	
	Ultra Fast		PCC-UR		1.6, 2, 3.15, 4, 5, 8, 10	
6.3 x 3.2	Fast	Glass	KDC	10, 32, 40, 63, 100, 125, 150, 175, 187, 200, 250, 300, 375, 500, 600, 750	1, 1.25, 1.5, 1.6, 2, 2.5, 3, 4, 5, 6, 7, 8, 10	K
		Ceramic	KCC	125, 250, 375, 500, 750	1, 2, 3, 4, 5, 6, 7, 8, 10, 12, 15, 20, 25, 30	
	Slow	Glass	KDC-S	10, 32, 40, 63, 100, 125, 150, 175, 187, 200, 250, 300, 375, 400, 500, 600, 700, 750, 800	5, 6, 7, 8, 20, 25, 30	
		Ceramic	KCC-S	10, 32, 63, 100, 125, 150, 175, 187, 200, 250, 300, 375, 400, 500, 600, 700, 750, 800	1, 1.25, 1.5, 1.6, 2, 2.5, 3, 4, 5, 6, 7, 8, 10, 12, 15, 20, 25, 30	
	Ultra-Fast		KCC-UR		1, 1.25, 2, 3, 4, 5, 6, 7, 8, 10, 12, 15, 20, 25, 30	
5 x 25	Fast	Glass	TDC	80, 100, 125, 160, 200, 250, 315, 400, 500, 630, 800	1, 1.25, 1.6, 2, 2.5, 3.15, 4, 5, 6.3, 8, 10	
		Ceramic C/W Indicator	TCC		1.6, 2, 2.5, 3.15, 4, 5, 6.3, 8, 10	
		Glass	TDC-M	80, 100, 125, 160, 200, 250, 315, 400, 500, 630, 800	1, 1.25, 1.6, 2, 2.5, 3.15, 4, 5, 6.3, 8, 10	
		Ceramic C/W Indicator	TCC-M	80, 100, 125, 160, 200, 250, 315, 400, 500, 630, 800	1, 1.25, 1.6, 2, 2.5, 3.15, 4, 5, 6.3, 8, 10	

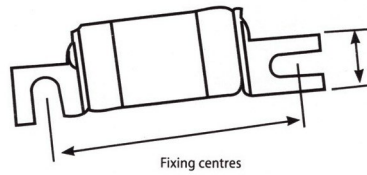


## STREET LIGHTING FUSE-LINKS

TYPE LST

230/240 Volt Street Lighting Fuse-Links to IEC 60269-1/BS 88-1  
(Also meets requirements of BS 7654)

Rated Voltages 240V a.c. • Breaking Capacity 20kA • Breaking Range and Utilisation Category gG



Current ratings and fixing centre			
Current Rating (A)	List Ref.	Fixing Centre	
		mm	ins
2	LST2	38	1½
4	LST4		
6	LST6		
10	LST10		
16	LST16		
20	LST20		
25	LST25		
32	LST32		

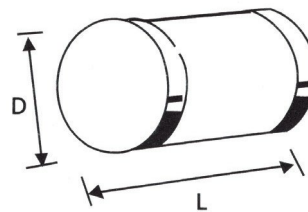
Lawson type LST Fuse-Links are for use in single phase street lighting cut-outs or similar installations. The Fuse-Links comply with UK Electricity Supply Industry Standards and BS 7654.

## GENERAL PURPOSE FUSE-LINKS

TYPE MD

400/415 Volt General Purpose Fuse-Links to IEC 60269-1/BS 88-1

Rated Voltage 415V a.c. • Breaking Capacity 80kA • Breaking Range and Utilisation Category gG



Current ratings and principal dimensions					
Current Rating (A)	List Ref.	Principal Dimensions			
		L		D	
		mm	ins	mm	ins
2	MD2	29	1½	12.7	½
4	MD4				
6	MD6				
8	MD8				
10	MD10				
16	MD16				
20	MD20				
25	MD25				
32	MD32				

Lawson type MD cylindrical Fuse-Links are for general purpose use in three phase sub-circuits. With a breaking capacity of 80kA, these Fuse-Links can be used to protect circuits with high fault levels in industrial installations.

## CONSUMER UNIT FUSE-LINKS

TYPE L

230/240 Consumer Unit Fuse-Links to IEC 60269-3/BS 88-3 and BS 1361

Rated Voltage 240V a.c. • Breaking Capacity 16.5kA a.c. • Breaking Range and Utilisation Category gG



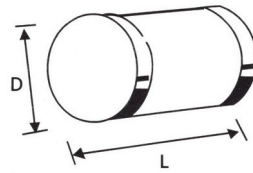
Lawson type L Fuse-Links are for use in household consumer units or other single phase installations with fault levels up to 16.5kA. They can be fitted into Pullcap Fuse-Holders (see page 16) or other suitable Fuse-Holders.

Current ratings and principal dimensions							
Current Rating (A)		List Ref.	BS 1361 Colour Coding	Principal Dimensions			
BS 1361	BS 88			L		D	
				mm	ins	mm	ins
-	2	LA2	-	23	¾	6.35	¼
5	-	LA5	White				
-	2	LC2	-	26	1	10.32	15/32
-	5	LC5	-				
-	8	LC8	-				
-	10	LC10	-				
15	16	LC15/16	Blue				
20	20	LC20	Yellow				
-	6	LD6	-	29	1½	12.7	½
-	10	LD10	-				
-	16	LD16	-				
-	20	LD20	-				
-	25	LD25	-				
30	32	LD30/32	Red				
-	35	LK35	-	35	1½	16.67	5/8
-	40	LK40	-				
-	45	LK45	Green				

Note: In addition to the current ratings specified in BS 1361, additional ratings certified to BS 88 have been included to meet other requirements.

230/240 Plug Top Fuse-Links to IEC 60269-3/BS 88-3 and BS 1362

Rated Voltage 240V a.c. • Breaking Capacity 6kA a.c.



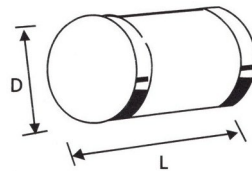
Lawson type PL Fuse-Links are intended primarily for use in UK domestic plugs to BS 1363, but may also be installed in appropriate single phase installations with fault levels up to 6kA.

Current ratings and principal dimensions								
Current Rating (A)		List Ref.	Colour Coding		Principal Dimensions			
Preferred	Other		Preferred	Other	L		D	
				mm	ins	mm	ins	
-	1	PL 1	-	Black	25.4	1	6.3	¼
-	2	PL 2	-	Black				
3	-	PL 3	Red	-				
-	5	PL 5	-	Black				
-	7	PL 7	-	Black				
-	10	PL 10	-	Black				
13	-	PL 13	Brown	-				

SOCKET ADAPTOR FUSE-LINKS

250 Volt Socket Adaptor Fuse-Links to BS 646

Rated Voltage 250V a.c. • Breaking Capacity 1kA a.c.



Lawson BL Fuse-Links are for use in socket outlets for two wire circuits where the voltage does not exceed 250V a.c. or d.c., such as shaver socket adaptors. They may also be suitable for use in domestic dimmer circuits.

Current ratings and principal dimensions					
Current Rating (A)	List Ref.	Principal Dimensions			
		L		D	
		mm	ins	mm	ins
1	BL 1	19	¾	5.3	0.21
2	BL 2				
3	BL 3				
5	BL 5				

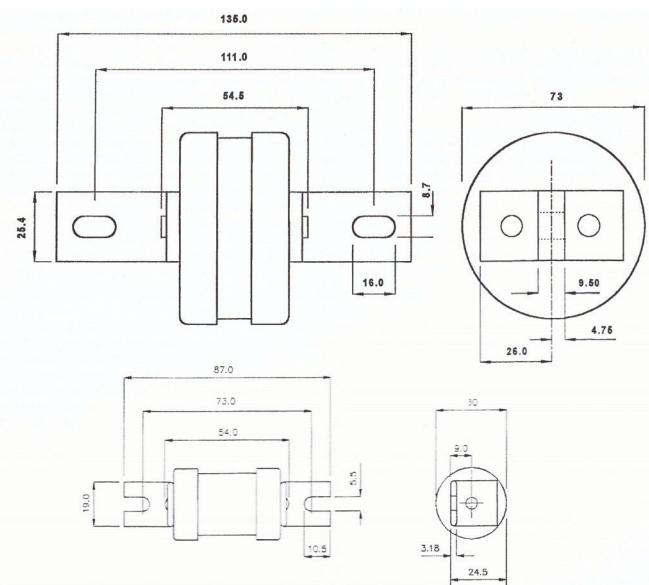
ABB PATTERN INDUSTRIAL FUSE-LINKS

400/415 Volt Industrial Fuse-Links to IEC 60269-2/BS 88-2

Rated Voltages 415V a.c. 250V d.c. • Breaking Capacities 80kA a.c. 40kA d.c. • Breaking Ranges and Utilisation Category gG/gM



Specifications		
List Ref.	Current Rating (A)	EQ DIN/NH
00T	10, 16, 20, 25, 32, 40, 50, 63, 80, 100, 125, 160, 200	00
3T	450, 500, 560, 630	3



Lawson type ABB Fuse-Links are intended for use in ABB Slimline Fuse-Units.

The 00T Fuse-Link has the same envelope as NH Fuse-Link size 00.

The 3T Fuse-Link has the same envelope as NH Fuse-Link size 3.





400/415 Volt Industrial Fuse-Links to IEC 60269-2/BS 88-2

Rated Voltages 415V a.c. 250V d.c. • Breaking Capacities 80kA a.c. 40kA d.c. • Ranges and Utilisation Category gG/gM



Lawson type LGP Fuse-Links are suitable for use in REYROLLE pattern Type 2 and Type 20 Fuse-Holders.

ARTIC PATTERN INDUSTRIAL FUSE-LINKS

400/415 Volt Industrial Fuse-Links to IEC 60269-2/BS 88-2

Rated Voltages 415V a.c. 250V d.c. • Breaking Capacities 80kA a.c. 40kA d.c. • Breaking Ranges and Utilisation Category gG/gM



Lawson type A Fuse-Links were originally developed and branded for ARTIC Fuse Company. They were specifically designed for use in ARTIC Fuse-Holders and fusegear.

The range includes Types LO, MO, OP, A5, A7, A8, A10 and A11.

BRITISH TELECOM PATTERN FUSE-LINKS

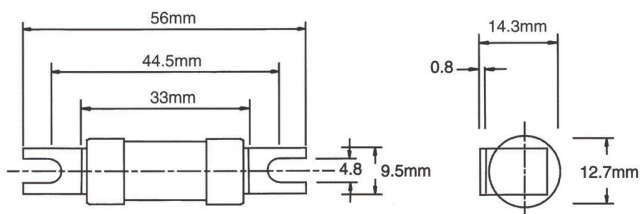
50 Volt d.c. Fuse-Links for System X Installations to BT Specification PT1360

Rated Voltage 50V d.c. • Breaking Capacities 5kA d.c.



List Reference	PO 113/20
Rated Current	20A
Rated Voltage	50V d.c.
Rated Breaking Capacity	5000A @ 50V d.c. (5mstc)
Power Dissipation	1.8w @ 20A
Max Cut Off Current	940A @ 5000A prospective
Max Arc Voltage	160V
Min prearc I <sup>2</sup> t	420 amp <sup>2</sup> sec
Max prearc I <sup>2</sup> t	650 amp <sup>2</sup> sec
Min arcing time	0.6ms
Time/Current Characteristics	20 A Zone to BS 88: Part 2

British Telecom Certificate Number 0460



400 Volt Neozed Fuse-Links to IEC 60269-3

Rated Voltage 400V a.c. • Breaking Capacity 50kA • Breaking Range and Utilisation Category gG



Also available:  
Ranges of Fuse-Links for motor circuit and semiconductor protection

Current ratings and principal dimensions				
List Ref.		Current Rating (A)	Principal Dimensions	
400V a.c.	440V a.c.		Length mm	Diameter mm
LNZ11-400 LNZ15-400	LNZ11-440 LNZ15-440	2 4 6 10 16 20 25 35 50 63	36 36	11 15
LNZ22-400	-	80	43	22

NEOZED FUSE-BASES & ACCESSORIES

400 Volt Neozed Fuse-Holders to IEC 60269-3

Rated Voltage 400V a.c. • Breaking Capacity 50kA



In addition to all sizes of Fuse-Bases, the range of accessories includes replacement screw caps and gauge pieces.

DIAZED FUSE-LINKS

400 & 500 Volt Diazed Fuse-Links to IEC 60269-3

Rated Voltages 400 & 500V a.c. • Breaking Capacity 50kA • Breaking Range and Utilisation Category gG



Also available:  
Ranges of Fuse-Links for motor circuit and semiconductor protection

Current ratings and principal dimensions				
List Ref.		Current Rating (A)	Principal Dimensions	
Slow Acting	Quick Acting		Length mm	Diameter mm
LD12	LD12Q	2 4 6 10 16 20 25	50	12
LD22	LD22Q	2 4 6 10 16 20 25	50	22
LD27	LD27Q	35 40 63	50	27
LD37	LD37Q	80 100	63	37
LD51	-	125 160 200	66	51

DIAZED FUSE-BASES & ACCESSORIES

400 & 500 Volt Diazed Fuse-Holders to IEC 60269-3

Rated Voltages 400 & 500V a.c. • Breaking Capacity 50kA



In addition to all sizes of Fuse-Bases, the range of accessories includes replacement screw caps, gauge pieces and surface mounting plates.



690 Volt Industrial Fuse-Holders to IEC 60269-2/BS 88-2

Rated Voltage 690V a.c. • Breaking Capacity 80kA a.c.



Alternative Colours:

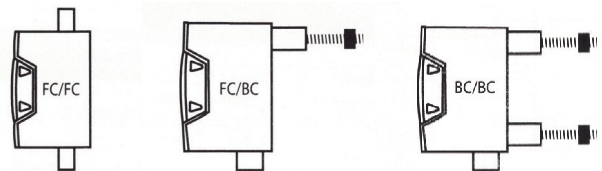
For White, substitute WH for BK

For Green, substitute GN for BK (20A, 32A and 63A only)

Lawson Boltin Fuse-Holders are available with three wiring configurations:-

- Double front connected (FC/FC)
- Front/back connected (FC/BC)
- Double back connected (BC/BC)

Specifications				
Reference	Current Rating (A)	Colour	Lawson Fuse Type (BS Ref.)	Solid Link
LBI 20 FC/FC BK LBI 20 FC/BC BK LBI 20 BC/BC BK	20	Black	NIT (A1)	SLA1
LBI 32 FC/FC BK LBI 32 FC/BC BK LBI 32 BC/BC BK	32		TIA (A2)	SLA2
LBI 63 FC/FC BK LBI 63 FC/BC BK LBI 63 BC/BC BK	63		TIS (A3)	SLA3
LBI 100 FC/FC BK LBI 100 FC/BC BK LBI 100 BC/BC BK	100		TC P (A4)	SLA4
LBI 200 FC/FC BK LBI 200 FC/BC BK LBI 200 BC/BC BK	200		TF (B2)	SLB2
Spare Carriers		Spare Cable Shrouds (Grey)		DIN-Rail Adaptor
LBI 20 CA BK LBI 32 CA BK LBI 63 CA BK LBI 100 CA BK LBI 200 CA BK		LBI 20 SH LBI 32 SH LBI 63 SH LBI 100 SH LBI 200 SH	LBI 20 DA	



CLIPFIT FUSE-HOLDERS FOR COMPACT DIMENSION FUSE-LINKS to IEC 60269-2/BS 88-2 TYPE LCF

230/240 & 400/415 Volt Compact Dimension Fuse-Holders to IEC 60269-2/BS 88-2

Rated Voltages 240 & 415V a.c. • Breaking Capacities 20kA at 240V, 80kA at 415V



Alternative Colours:

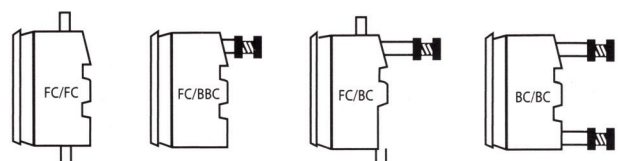
For White, substitute WH for BK

For Green, substitute GN for BK (20A only)

Lawson Clipfit Fuse-Holders are available with four wiring configurations:-

- Double front connected (FC/FC)
- Front/bushbar connected (FC/BBC)
- Front/back connected (FC/BC)
- Double back connected (BC/BC)

Specifications					
Reference	Voltage Rating (V)	Current Rating (A)	Colour	Lawson Fuse Type (BS Ref.)	Solid Link
LCF 20 FC/FC BK LCF 20 FC/BBC BK LCF 20 FC/BC BK LCF 20 BC/BC BK	240	20	Black	SS (E1)	SLE1
LCF 32 FC/FC BK LCF 32 FC/BBC BK LCF 32 FC/BC BK LCF 32 BC/BC BK	415	32		NS (F1)	SLF1
LCF 63 FC/FC BK LCF 63 FC/BBC BK LCF 63 FC/BC BK LCF 63 BC/BC BK	415	63		MES (F2)	SLF2
Spare Carriers		Spare Cable Shrouds (Grey)		DIN-Rail Adaptor	
LCF 20 CA BK LCF 32 CA BK LCF 63 CA BK		LCF 20 SH LCF 32 SH LCF 63 SH	All bases include integral DIN-Rail Adaptor		



240 Volt Fuse-holders for Miniature Fuse-Links and Slydlok Cartridge & Rewireable Fuse-Links

Rated Voltages 240V a.c. • Breaking Capacities - Various



Specifications				
Reference	Current Rating (A)	Colour	Lawson Fuse Type	Wiring Connection
W 5341 FW W 5342 BC W 5344 MM W 5345 BW	5	Black	W534	FW BC MM BW BCT BCB
W 15331 FW W 15332 BC W 15334 MM	15		W1533	
W 15335 BW W 30341 FW W 32342 BC W 30344 MM W 30345 BW	30		W3034	
W 60411 FW W 604112 BC W 60414 MM W 60415 BW	60		W6046	

For Fuse-Holders incorporating fusewire, substitute prefix 'X' for 'W'  
i.e: X 5341 becomes W 5341 FW.

- Fusewire to use:
- X5 - 36 SWG max
  - X15 - 27 SWG max
  - X30 - 22 SWG max
  - X60 - 18 SWG max

Note:

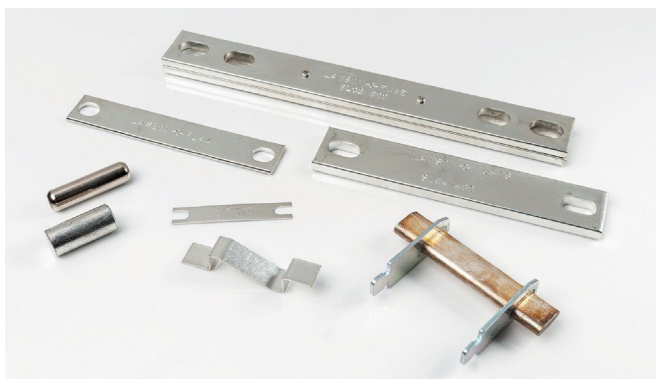
G and H Fuse-Holder ratings, limited availability



SOLID / NEUTRAL LINKS

TYPE SL

Current Ratings and Fixing Centres to match the appropriate ranges of Fuse-Bases and Fuse-Holders



Solid / Neutral links are available for fitting in all fuse-bases and fuse-holders





# APPLICATION AND GUIDANCE NOTES

## Selection of a Suitable Fuse

A fuse may be rated for a.c. usage or d.c. usage or both. If the circuit is a.c. then the fuse must have appropriate a.c. ratings, or if the circuit is d.c. then the fuse must have appropriate d.c. ratings.

## Selection of Voltage Rating

The voltage rating of the fuse must equal or exceed the rated voltage of the circuit.

## Selection of Breaking Capacity

The breaking capacity of the fuse must equal or exceed the fault level at the point of installation.

## For protection $I_f \leq 1.45I_z$

The current rating of the fuse must exceed the circuit load. The current rating of the fuse must be less than the continuous current rating of the cable.

For overload protection the conventional fusing current of the fuse ( $I_f$ ) must protect the cable against its maximum current carrying capacity ( $I_z$ ).

## For protection $I_f \leq 1.45I_z$

For protection against earth faults at 5.0 seconds and 0.4 seconds the earth fault loop impedance of the circuit must be less than the maximum earth fault loop impedance ( $Z_s$ ) specified for the fuse-link rating in Tables 41.2 and 41.4 of BS 7671 (formerly IEE Wiring Regulations).

## Discrimination (or Selectivity)

"gG" fuse-links discriminate in a ratio of 1.6:1. Therefore the upstream major fuse-link must have a current rating of at least 1.6 times the current rating of the downstream minor fuse-link.

## Capacitor Circuits

For protection of capacitor circuits a general rule is that the current rating of the fuse should be at least 1.5 times the rated current of the capacitor.

## Fluorescent Lighting

The current rating of the fuse-link should be at least twice the full load current of the maximum number of lights to be switched simultaneously.

## Thermal Derating

For thermal derating of fuses at temperatures above 40°C a general rule is that the current rating is decreased by 0.5% for each 1°C above 40°C. Where the fuse is mounted in an enclosure use the internal enclosure temperature if known. Where the internal temperature is unknown it should be taken as the external ambient temperature +15°C.

## Altitude Derating

For installations situated at altitudes of over 2000 metres a general rule is that the current rating of the fuse is decreased by 0.5% for every 100m above 2000m.

## Type 2 Co-ordination

Motor starter manufacturers recommend the current ratings of "gG" fuse-links which can be used in conjunction with motor starters. This simple and effective means of co-ordination to withstand inrush currents will normally give adequate short circuit protection to the motor starter.

## Motor Starting

Fuse-Link selection for 3 phase 415V a.c. Induction Motor Circuits						
Motor Rating			Direct-on-line Start (7xFLC for 10 sec)		Assisted Start (3.5xFLC for 20 sec)	
			Fuse-Link Rating (Amperes)		Fuse-Link Rating (Amperes)	
KW	HP	FLC	"gG"	"gM"	"gG"	"gM"
0.75	1	2	6	-	4	-
1.1	1.5	2.5	10	-	6	-
1.5	2	3.5	10	-	6	-
2.2	3	5	16	-	10	-
3	4	6.5	20	-	16	-
4	5	8	25	20M25	16	-
5.5	7.5	11	32	20M32	20	-
7.5	10	14	40	32M40	25	20M25
10	13.5	19	50	32M50	32	20M32
11	15	21	50	32M50	32	-
15	20	28	63	32M63	40	32M40
18.5	25	35	80	63M80	50	-
22	30	41	100	63M100	50	-
26	35	48	100	63M100	63	-
30	40	55	125	100M125	80	63M80
33	45	62	160	100M160	80	63M80
37	50	69	160	100M160	100	-
45	60	83	200	100M200	100	-
53	70	97	200	100M200	125	100M125
55	75	100	200	100M200	125	100M125
60	80	110	250	200M250	160	-
67	90	120	250	200M250	160	-
75	100	135	250	200M250	160	-
90	120	160	315	200M315	200	-
93	125	170	355*	315M400*	200	-
110	150	200	400	315M400*	250	200M250
130	175	230	400	315M400*	315	-
150	200	260	450*	400M500*	315	-
160	215	280	500	400M500*	355*	315M400*
170	225	290	500	400M500*	355*	315M400*
180	250	320	560*	-	400	-
200	270	350	630	-	400	-
220	300	380	670*	-	450	400M500*
250	335	420	710*	-	500	-
260	350	450	750*	-	560*	-
300	400	500	800	-	630	-

Maximum full load current starting capability		
Direct-on-line Start (7xFLC for 10 sec)		
Fuse-Link Rating (Amperes)		Maximum Motor FLC
"gG"	"gM"	
2	-	0.6
4	-	1.3
6	-	2.3
10	-	4.1
16	-	6.0
20	-	7.9
25	20M25	10
32	20M32	13
40	32M40	18
50	32M50	26
63	32M63	30
80	63M80	40
100	63M100	54
125	100M125	61
160	100M160	82
200	-	110
250	200M250	150
315	200M315	170
355*	315M400*	200
400	315M400*	240
450*	400M500*	280
500	400M500*	310
560*	-	350
630	-	380
670*	-	420
710*	-	450
750*	-	480
800	-	510

Maximum full load current starting capability		
Assisted Start (3.5xFLC for 20 sec)		
Fuse-Link Rating (Amperes)		Maximum Motor FLC
"gG"	"gM"	
2	-	1.3
4	-	2.4
6	-	4.3
10	-	6.4
16	-	11
20	-	14
25	20M25	19
32	-	24
40	32M40	31
50	-	46
63	-	51
80	-	69
100	-	94
125	-	110
160	-	150
200	-	180
250	-	220
315	-	250
355*	-	310
400	-	340
450*	400M500*	380
500	-	430
560*	-	460
630	-	500
670*	-	530
710*	-	550
750*	-	570
800	-	600

### \*NON-STANDARDISED CURRENT RATINGS ADDITIONAL TO BS 88-2

This data is based upon normal conditions and average efficiencies and power factors. Conditions such as long run-up times, large numbers of starts in succession, high ambient temperatures or abnormal transients during star/delta switching may necessitate adjustments to fuse-link selection.





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