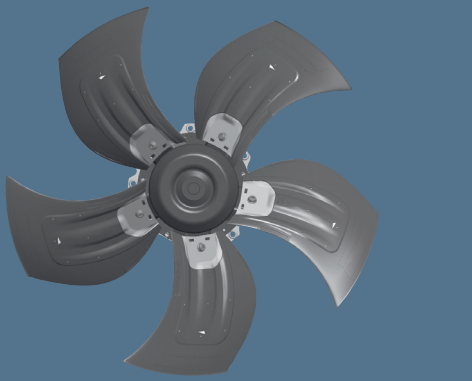


# EC axial fans - HyBlade®

Ø 800



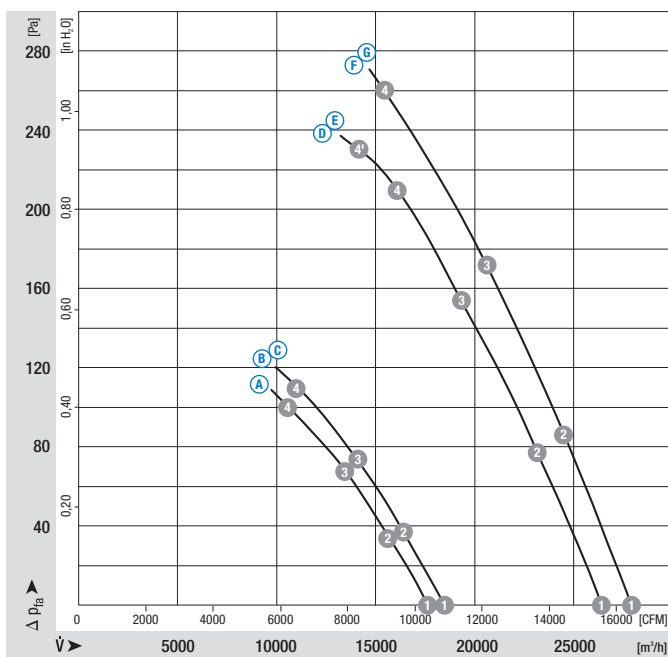
- **Material:** Guard grille: Steel, phosphated and coated in black plastic  
Wall ring: Sheet steel, pre-galvanised and coated in black plastic  
Blades (5): (A) (B) (C) Pressed-on round sheet steel plate; (D) (E) (F) (G) Insertion part made of sheet aluminium; Both versions extrusion-coated in PP plastics  
Rotor: Coated in black  
Electronics enclosure: Die-cast aluminium, coated in black
- **Direction of rotation:** clockwise, seen on rotor
- **Type of protection:** IP 54 (acc. to EN 60529)
- **Insulation class:** (A) (B) (C) "B" ("F" applying to the main components as per EN), (D) (E) (F) (G) "F"
- **Mounting position:** Shaft horizontal or rotor on bottom; rotor on top on request
- **Condensate discharges:** Rotor-side
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

| Nominal data |            | Blade angle | Curve | Nominal voltage range | Frequency | Speed/rpm <sup>(1)</sup> | Max. power input <sup>(1)</sup> | Max. current draw <sup>(1)</sup> | Max. operative range | Perm. amb. temp. | Mass without attachments | Technical features and electr. connections |
|--------------|------------|-------------|-------|-----------------------|-----------|--------------------------|---------------------------------|----------------------------------|----------------------|------------------|--------------------------|--|
| Type         | Motor      |             |       | VAC                   | Hz        | rpm                      | kW                              | A                                | Pa                   | °C               | kg                       |  |
| *3G 800      | M3G 112-IA | 0°          | (A)   | 1~ 200-277            | 50/60     | 710                      | 0,73                            | 3,20                             | 100                  | -25..+60         | 12,1                     | p. 37 / L3)                                |
| *3G 800      | M3G 112-IA | 0°          | (B)   | 3~ 200-240            | 50/60     | 735                      | 0,84                            | 2,80                             | 110                  | -25..+60         | 12,1                     | p. 35 / L2)                                |
| *3G 800      | M3G 112-IA | 0°          | (C)   | 3~ 380-480            | 50/60     | 735                      | 0,84                            | 1,40                             | 110                  | -25..+60         | 12,1                     | p. 39 / K3)                                |
| *3G 800      | M3G 150-IF | 0°          | (D)   | 3~ 200-240            | 50/60     | 1020                     | 2,40                            | 7,50                             | 210                  | -25..+60         | 25,9                     | p. 38 / L5)                                |
| *3G 800      | M3G 150-IF | 0°          | (E)   | 3~ 380-480            | 50/60     | 1020                     | 2,56                            | 3,90                             | 230                  | -25..+60         | 25,9                     | p. 38 / L5)                                |
| *3G 800      | M3G 150-NA | 0°          | (F)   | 3~ 200-240            | 50/60     | 1090                     | 2,98                            | 9,00                             | 260                  | -25..+65         | 30,4                     | p. 38 / L5)                                |
| *3G 800      | M3G 150-NA | 0°          | (G)   | 3~ 380-480            | 50/60     | 1090                     | 2,98                            | 4,50                             | 260                  | -25..+65         | 30,4                     | p. 38 / L5)                                |

subject to alterations

(1) Nominal data in operating point with maximum load and 230 VAC or 400 VAC

## Curves



Air performance measured as per: ISO 5801, Installation category A, in ebm-papst full nozzle and without protection against accidental contact

Suction-side noise levels:  $L_{wA}$  as per ISO 13347,  $L_{pA}$  measured at 1 m distance to fan axis

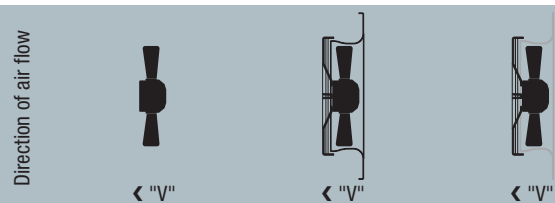
The acoustic values given are only valid under the measurement conditions listed and may vary depending on the installation situation.

With any deviation to the standard setup, the specific values have to be checked and reviewed once installed or fitted!

For detailed information see page 40 ff.

|       | n [rpm] | P <sub>1</sub> [kW] | I [A] | L <sub>wA</sub> [dB(A)] |
|-------|---------|---------------------|-------|-------------------------|
| (A) 1 | 710     | 0,46                | 2,15  | 70                      |
| (A) 2 | 710     | 0,55                | 2,49  | 66                      |
| (A) 3 | 710     | 0,63                | 2,84  | 64                      |
| (A) 4 | 710     | 0,73                | 3,20  | 69                      |
| (B) 1 | 735     | 0,52                | 1,76  | 70                      |
| (B) 2 | 735     | 0,62                | 2,04  | 66                      |
| (B) 3 | 735     | 0,72                | 2,36  | 64                      |
| (B) 4 | 735     | 0,84                | 2,80  | 70                      |
| (C) 1 | 735     | 0,52                | 0,88  | 70                      |
| (C) 2 | 735     | 0,62                | 1,02  | 66                      |
| (C) 3 | 735     | 0,72                | 1,18  | 64                      |
| (C) 4 | 735     | 0,84                | 1,40  | 70                      |
| (D) 1 | 1020    | 1,62                | 4,94  | 75                      |
| (D) 2 | 1020    | 1,88                | 5,76  | 75                      |
| (D) 3 | 1020    | 2,15                | 6,58  | 77                      |
| (D) 4 | 1020    | 2,40                | 7,50  | 85                      |

- **Technical features:** See electrical connections p. 37 ff.
- **EMC:** **B C D E F G** Interference emission acc. to EN 61000-6-3  
**A** Interference emission acc. to EN 61000-6-4  
 Interference immunity acc. to EN 61000-6-2  
 Harmonics acc. to EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 61800-5-1
- **Cable exit:** **A C** Variable
- **Terminal box:** **B D E F G** Electrical connection via terminal strip
- **Protection class:** I (acc. to EN 61800-5-1)
- **Product conforming to standards:** CE
- **Approvals:** **A B C** GOST; UL/CSA are applied for; CCC on request  
**D E F G** GOST, UL/CSA; CCC on request



|     | Without attachments | With full square nozzle | With guard grille for full nozzle |
|-----|---------------------|-------------------------|-----------------------------------|
| "V" | A3G 800-A081 -21    | W3G 800-G081 -21        | S3G 800-B081 -21                  |
| "V" | on request          | W3G 800-G091 -13        | on request                        |
| "V" | A3G 800-A084 -01    | W3G 800-G084 -01        | S3G 800-B084 -01                  |
| "V" | on request          | W3G 800-GU24 -11        | on request                        |
| "V" | A3G 800-AU25 -01    | W3G 800-GU25 -01        | S3G 800-BU25 -01                  |
| "V" | on request          | W3G 800-GV10 -11        | on request                        |
| "V" | A3G 800-AV01 -01    | W3G 800-GV01 -01        | S3G 800-BV01 -01                  |

Direction of air flow "A" on request

|            | n [rpm] | P <sub>1</sub> [kW] | I [A] | L <sub>wA</sub> [dB(A)] |
|------------|---------|---------------------|-------|-------------------------|
| <b>E</b> ① | 1020    | 1,62                | 2,47  | 75                      |
| <b>E</b> ② | 1020    | 1,88                | 2,88  | 75                      |
| <b>E</b> ③ | 1020    | 2,15                | 3,29  | 77                      |
| <b>E</b> ④ | 1020    | 2,56                | 3,90  | 85                      |
| <b>F</b> ① | 1090    | 1,87                | 5,68  | 76                      |
| <b>F</b> ② | 1090    | 2,18                | 6,64  | 76                      |
| <b>F</b> ③ | 1090    | 2,50                | 7,62  | 78                      |
| <b>F</b> ④ | 1090    | 2,98                | 9,00  | 84                      |
| <b>G</b> ① | 1090    | 1,87                | 2,84  | 76                      |
| <b>G</b> ② | 1090    | 2,18                | 3,32  | 76                      |
| <b>G</b> ③ | 1090    | 2,50                | 3,81  | 78                      |
| <b>G</b> ④ | 1090    | 2,98                | 4,50  | 84                      |

# EC axial fans - HyBlade®

Ø 800 with motor M3G112, drawings for direction of air flow "V"

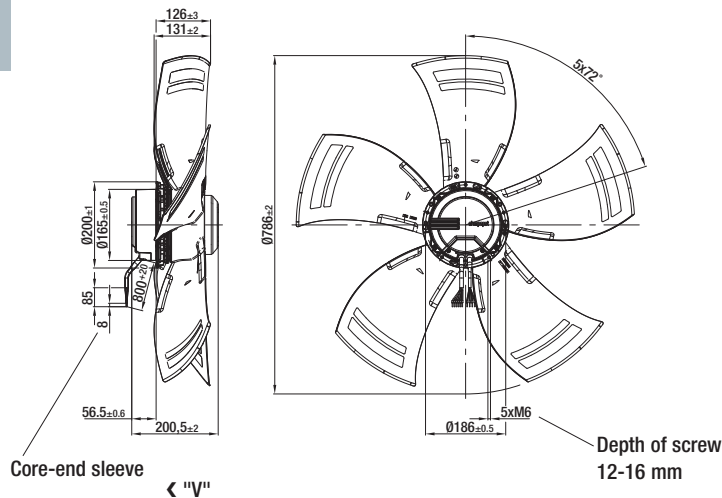


## Without attachments

Type

Mass [kg]

|   |                  |      |
|---|------------------|------|
| Ⓐ | A3G 800-A081 -21 | 12,1 |
| Ⓑ | on request       | 12,1 |
| Ⓒ | A3G 800-A084 -01 | 12,1 |



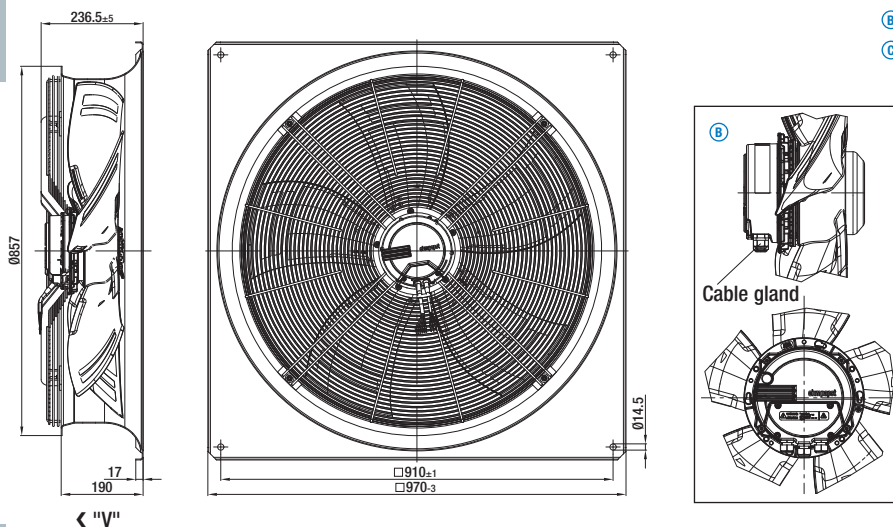
Internal diameter of the wall ring at least 795 mm

## With full square nozzle

Type

Mass [kg]

|   |                  |      |
|---|------------------|------|
| Ⓐ | W3G 800-G081 -21 | 33,3 |
| Ⓑ | W3G 800-G091 -13 | 33,3 |
| Ⓒ | W3G 800-G084 -01 | 33,3 |

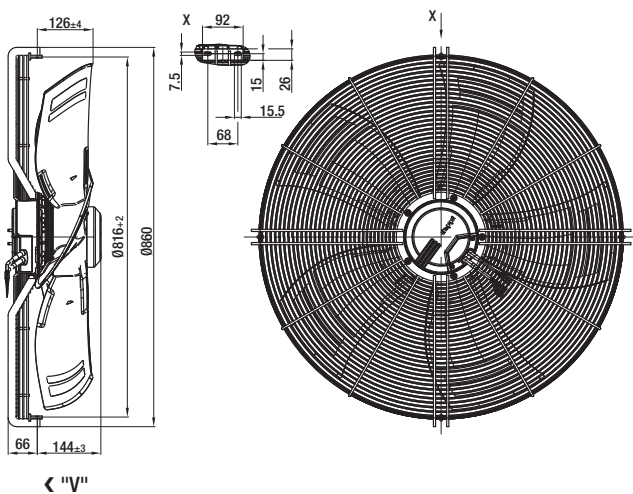


## With guard grille for full nozzle

Type

Mass [kg]

|   |                  |      |
|---|------------------|------|
| Ⓐ | S3G 800-B081 -21 | 18,3 |
| Ⓑ | on request       | 18,3 |
| Ⓒ | S3G 800-B084 -01 | 18,3 |



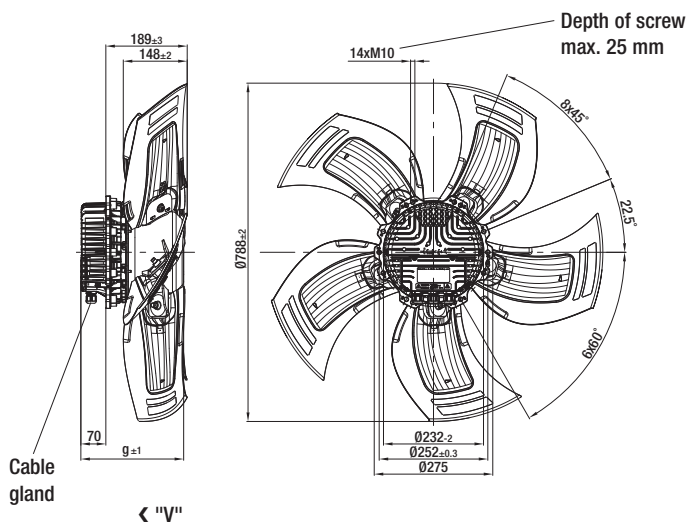
Internal diameter of the wall ring at least 795 mm

# EC axial fans - HyBlade®

Ø 800 with motor M3G150, drawings for direction of air flow "V"



## Without attachments



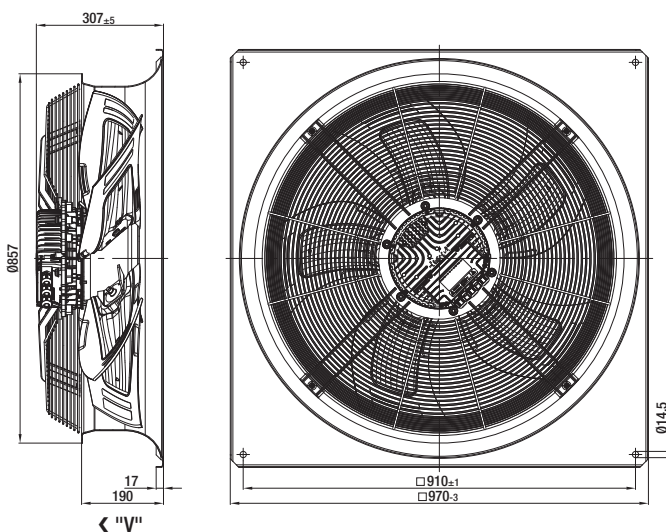
### Type

### Mass

|   |                  | [kg] | g     |
|---|------------------|------|-------|
| ⓓ | on request       | 25,9 | 250,5 |
| ⓔ | A3G 800-AU25 -01 | 25,9 | 250,5 |
| ⓕ | on request       | 30,4 | 289,5 |
| ⓖ | A3G 800-AV01 -01 | 30,4 | 289,5 |

Internal diameter of the wall ring at least 795 mm

## With full square nozzle

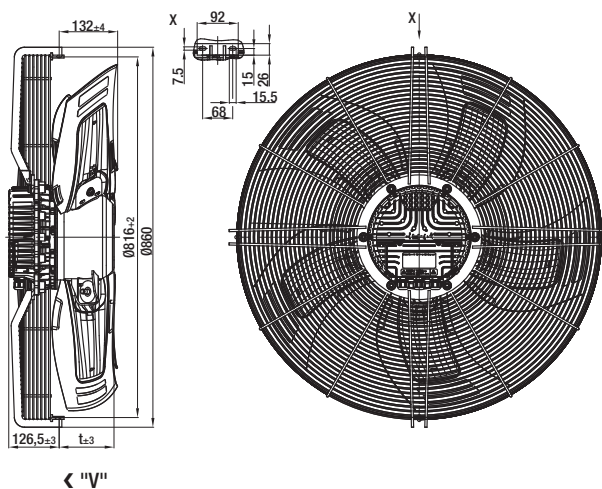


### Type

### Mass

|   |                  | [kg] | t |
|---|------------------|------|---|
| ⓓ | W3G 800-GU24 -11 | 45,7 |   |
| ⓔ | W3G 800-GU25 -01 | 45,7 |   |
| ⓕ | W3G 800-GV10 -11 | 50,2 |   |
| ⓖ | W3G 800-GV01 -01 | 50,2 |   |

## With guard grille for full nozzle



### Type

### Mass

|   |                  | [kg] | t     |
|---|------------------|------|-------|
| ⓓ | on request       | 33,7 | 124,0 |
| ⓔ | S3G 800-BU25 -01 | 33,7 | 124,0 |
| ⓕ | on request       | 38,2 | 163,0 |
| ⓖ | S3G 800-BV01 -01 | 38,2 | 163,0 |

Internal diameter of the wall ring at least 795 mm