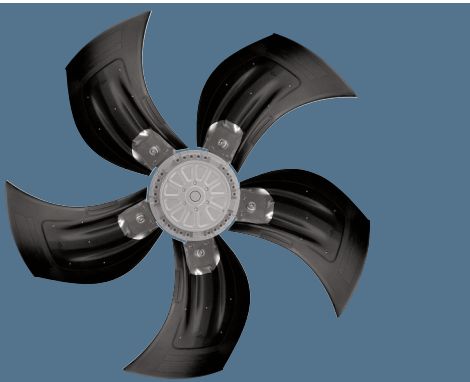


# AC axial fans - HyBlade®

Ø 630

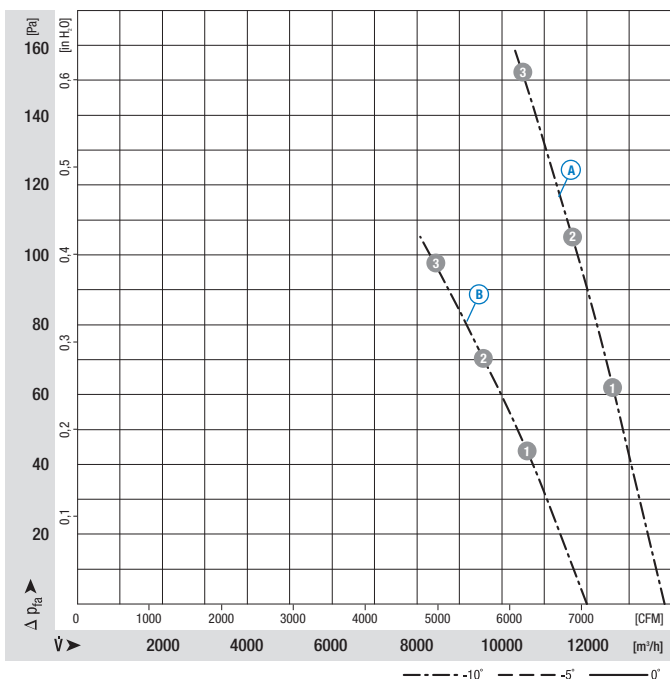


- **Material:** Guard grille: Steel, phosphated and coated in black plastic  
Wall ring: Sheet steel, pre-galvanised and coated in black plastic  
Blades: Insertion part made of sheet aluminium, extrusion-coated in PP plastics  
Rotor: Encased in aluminium
- **Number of blades:** 5
- **Direction of rotation:** **A** **B** counter-clockwise, **C** **D** **E** **F** clockwise, seen on rotor
- **Type of protection:** IP 54 (acc. to EN 60529)
- **Insulation class:** "F"
- **Mounting position:** Shaft horizontal or rotor on bottom; rotor on top on request
- **Condensate discharge holes:** Rotor-side
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings
- **Motor protection:** Design with thermal overload protector

| Nominal data |            | Blade angle | Curve    | Nominal voltage | Frequency | Speed/rpm <sup>(1)</sup> | Max. power input <sup>(1)</sup> | Max. current draw <sup>(1)</sup> | Capacitor | Max. operative range | Perm. amb. temp. | Electr. connection |
|--------------|------------|-------------|----------|-----------------|-----------|--------------------------|---------------------------------|----------------------------------|-----------|----------------------|------------------|--------------------|
| Type         | Motor      |             |          | VAC             | Hz        | rpm                      | kW                              | A                                | µF/VDB    | Pa                   | °C               | p. 34              |
| *4D 630      | M4D 110-IA | -10°        | <b>A</b> | 3~400 Δ         | 50        | 1330                     | 1,25                            | 2,48                             | —         | 150                  | -40..+55         | F1b)/F2b)          |
|              |            |             | <b>B</b> | 3~400 Y         | 50        | 1070                     | 0,84                            | 1,42                             | —         | 100                  | -40..+55         |                    |
| *4D 630      | M4D 138-LA | 0°          | <b>C</b> | 3~400 Δ         | 50        | 1320                     | 2,63                            | 4,78                             | —         | 220                  | -40..+60         | F1b)/F2b)          |
|              |            |             | <b>D</b> | 3~400 Y         | 50        | 1050                     | 1,75                            | 2,95                             | —         | 140                  | -40..+60         |                    |
| *4D 630      | M4D 138-HF | -5°         | <b>E</b> | 3~400 Δ         | 50        | 1310                     | 1,97                            | 3,40                             | —         | 200                  | -40..+60         | F1b)/F2b)          |
|              |            |             | <b>F</b> | 3~400 Y         | 50        | 1000                     | 1,29                            | 2,10                             | —         | 115                  | -40..+60         |                    |

subject to alterations (1) Nominal data in operating point **3** with maximum load

## 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

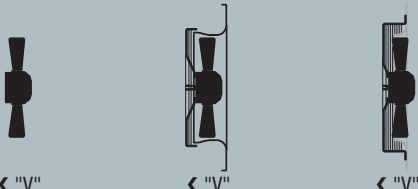
The acoustic values given are only valid under the measurement conditions listed and may vary depending on the installation situation.

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 36 ff.

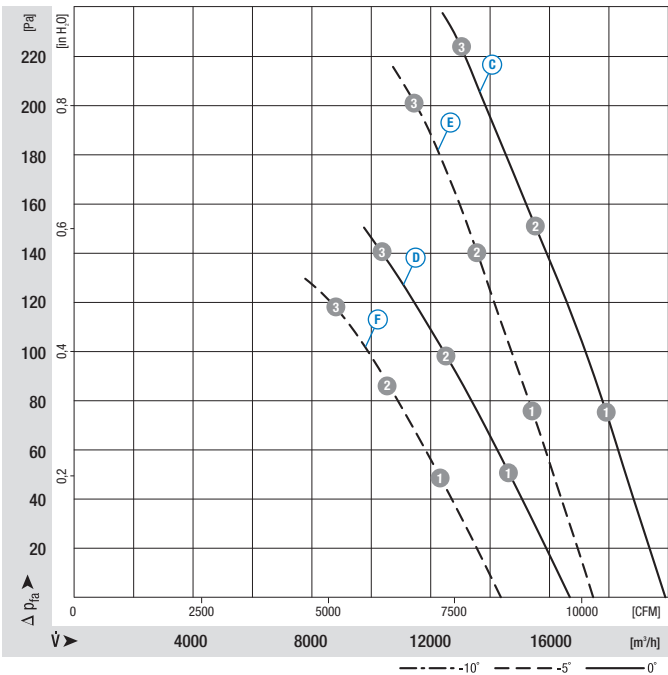
|                   | n [rpm] | P <sub>1</sub> [kW] | I [A] | L <sub>wA</sub> [dB(A)] |
|-------------------|---------|---------------------|-------|-------------------------|
| <b>A</b> <b>1</b> | 1370    | 1,03                | 2,21  | 77                      |
| <b>A</b> <b>2</b> | 1355    | 1,14                | 2,32  | 75                      |
| <b>A</b> <b>3</b> | 1330    | 1,25                | 2,48  | 75                      |
| <b>B</b> <b>1</b> | 1140    | 0,74                | 1,23  | 72                      |
| <b>B</b> <b>2</b> | 1105    | 0,78                | 1,31  | 71                      |
| <b>B</b> <b>3</b> | 1070    | 0,84                | 1,42  | 70                      |

- **Cable exit:** Via terminal box
- **Protection class:** I (acc. to EN 61800-5-1)
- **Product conforming to standard:** CE
- **Approvals:** VDE (acc. to EN 60034)

| Direction of air flow |  |                         |                                    |
|-----------------------|-----------------------------------------------------------------------------------|-------------------------|------------------------------------|
|                       | Without attachments                                                               | With full square nozzle | With guard grille for short nozzle |
| "V"                   | A4D 630-AR01 -01                                                                  | W4D 630-GR01 -01        | S4D 630-AR01 -01                   |
| "V"                   | A4D 630-AD01 -01                                                                  | W4D 630-GD01 -01        | S4D 630-AD01 -01                   |
| "V"                   | A4D 630-AH01 -01                                                                  | W4D 630-GH01 -01        | S4D 630-AH01 -01                   |

Direction of air flow "A" on request

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<sub>wA</sub> as per ISO 13347, L<sub>pA</sub> 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 36 ff.

|     | n [rpm] | P <sub>1</sub> [kW] | I [A] | L <sub>wA</sub> [dB(A)] |
|-----|---------|---------------------|-------|-------------------------|
| Ⓒ 1 | 1360    | 2,30                | 4,29  | 78                      |
| Ⓒ 2 | 1345    | 2,47                | 4,56  | 77                      |
| Ⓒ 3 | 1320    | 2,63                | 4,78  | 80                      |
| Ⓓ 1 | 1115    | 1,62                | 2,71  | 72                      |
| Ⓓ 2 | 1080    | 1,68                | 2,83  | 72                      |
| Ⓓ 3 | 1050    | 1,75                | 2,95  | 74                      |
| Ⓔ 1 | 1345    | 1,68                | 2,94  | 75                      |
| Ⓔ 2 | 1325    | 1,83                | 3,18  | 75                      |
| Ⓔ 3 | 1310    | 1,97                | 3,40  | 78                      |
| Ⓕ 1 | 1075    | 1,18                | 1,97  | 70                      |
| Ⓕ 2 | 1035    | 1,24                | 2,08  | 68                      |
| Ⓕ 3 | 1000    | 1,29                | 2,10  | 70                      |

# AC axial fans - HyBlade®

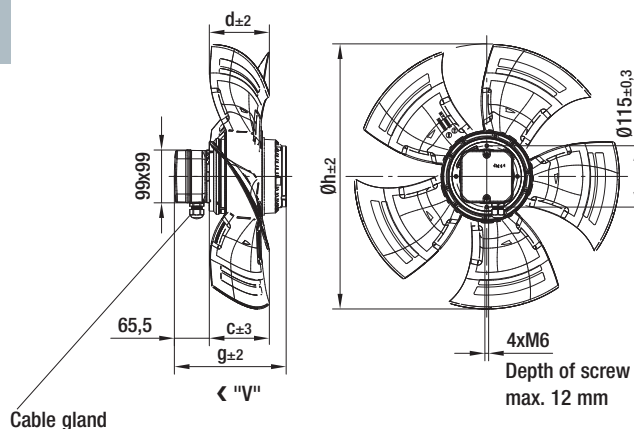
Ø 630 with motor M\*\*110, drawings for direction of air flow "V"



## Without attachments

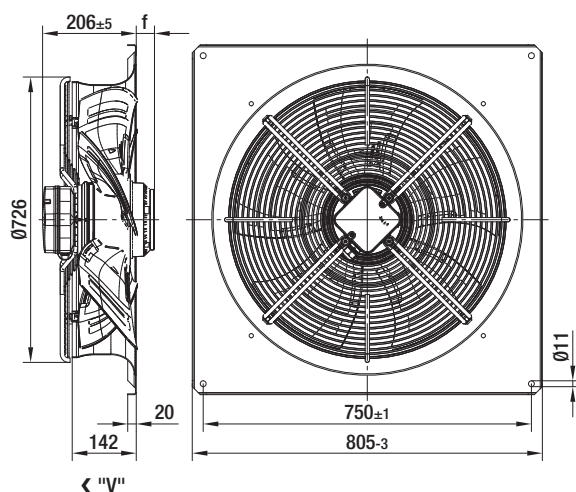
| Type             | Mass [kg] | c     | d     | g     | h     |
|------------------|-----------|-------|-------|-------|-------|
| A4D 630-AR01 -01 | 14,0      | 104,0 | 98,0  | 224,5 | 627,0 |
| A6D 630-AN01 -01 | 12,5      | 118,0 | 123,0 | 209,5 | 626,0 |
| A8D 630-AN01 -01 | 12,5      | 118,0 | 123,0 | 209,5 | 626,0 |
| A6E 630-AN01 -01 | 12,5      | 118,0 | 123,0 | 209,5 | 626,0 |
| A8E 630-AN01 -01 | 12,5      | 118,0 | 123,0 | 209,5 | 626,0 |

Internal diameter of the wall ring at least 634 mm



## With full square nozzle

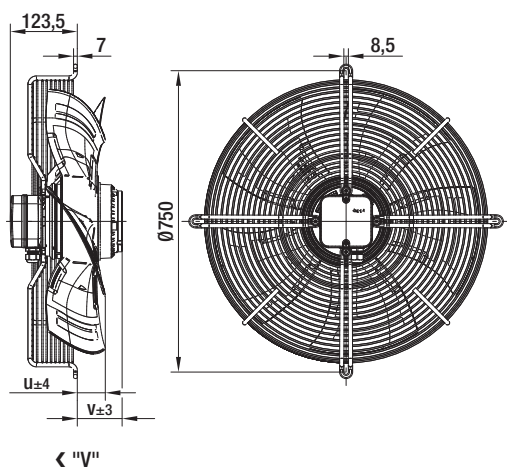
| Type             | Mass [kg] | f    |
|------------------|-----------|------|
| W4D 630-GR01 -01 | 28,9      | 23,5 |
| W6D 630-GN01 -01 | 27,4      | 3,5  |
| W8D 630-GN01 -01 | 27,4      | 3,5  |
| W6E 630-GN01 -01 | 27,4      | 3,5  |
| W8E 630-GN01 -01 | 27,4      | 3,5  |



## With guard grille for short nozzle

| Type             | Mass [kg] | u    | v     |
|------------------|-----------|------|-------|
| S4D 630-AR01 -01 | 19,2      | 46,0 | 101,0 |
| S6D 630-AN01 -01 | 17,7      | 60,0 | 86,0  |
| S8D 630-AN01 -01 | 17,7      | 60,0 | 86,0  |
| S6E 630-AN01 -01 | 17,7      | 60,0 | 86,0  |
| S8E 630-AN01 -01 | 17,7      | 60,0 | 86,0  |

Internal diameter of the wall ring at least 634 mm



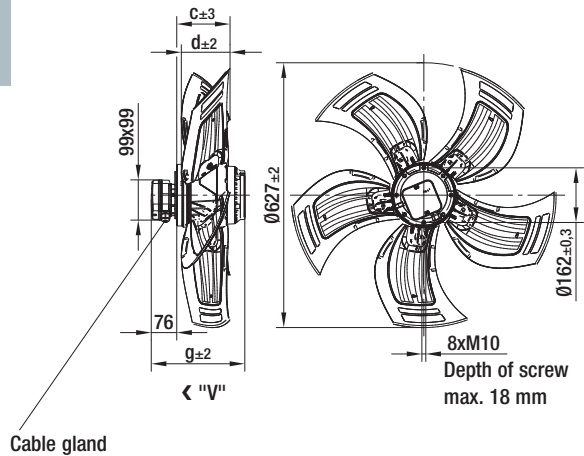
# AC axial fans - HyBlade®

Ø 630 with motor M4D138, drawings for direction of air flow "V"



## Without attachments

| Type             | Mass [kg] | c     | d     | g     |
|------------------|-----------|-------|-------|-------|
| A4D 630-AD01 -01 | 22,3      | 154,0 | 144,0 | 277,0 |
| A4D 630-AH01 -01 | 18,3      | 149,0 | 130,0 | 252,0 |



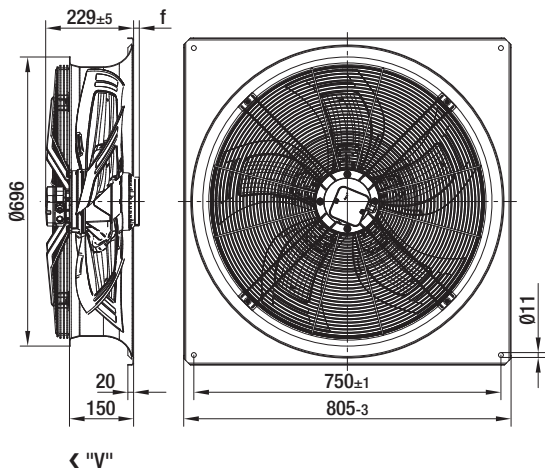
Cable gland

Internal diameter of the wall ring at least 634 mm



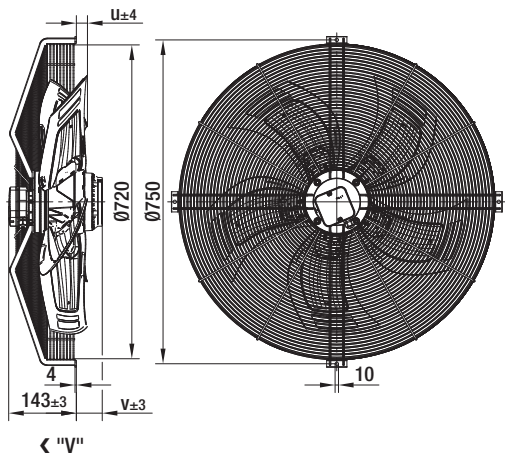
## With full square nozzle

| Type             | Mass [kg] | f    |
|------------------|-----------|------|
| W4D 630-GD01 -01 | 38,2      | 48,0 |
| W4D 630-GH01 -01 | 34,2      | 23,0 |



## With guard grille for short nozzle

| Type             | Mass [kg] | u    | v     |
|------------------|-----------|------|-------|
| S4D 630-AD01 -01 | 28,5      | 87,0 | 134,0 |
| S4D 630-AH01 -01 | 24,5      | 82,0 | 109,0 |



Internal diameter of the wall ring at least 634 mm