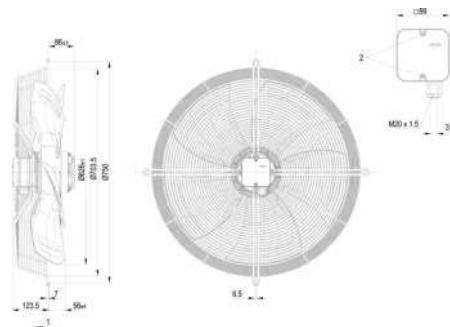


## KARTA KATALOGOWA

**S6E630-AN01-01**

Wentylator osiowy AC HyBlade, łopatki sierpowe (seria S), z kratką ochronną, do krótkiej dyszy

Producent: ebm-papst



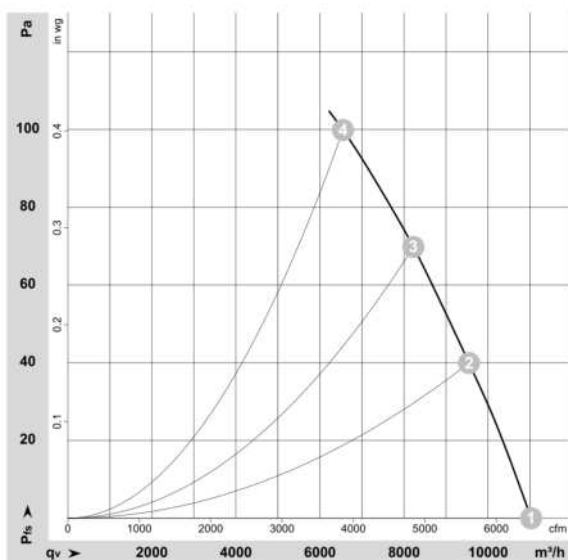
| Dane znamionowe        |               |
|------------------------|---------------|
| Napięcie znamionowe    | 1~ 230 V      |
| Częstotliwość          | 50 Hz         |
| Prędkość obrotowa      | 860 obr/min   |
| Pobór mocy             | 600 W         |
| Pobór prądu            | 2,62 A        |
| Prąd rozruchowy        | 4,8 A         |
| Maks. przeciwcisnienie | 100 Pa        |
| Kondensator            | 14 µF / 400 V |
| Temperatura otoczenia  | -40...+55 °C  |

| Dane ErP (UE 327/2011)     |           |
|----------------------------|-----------|
| Sprawność całkowita        | 32,7 %    |
| Przepływ w pkt. optymalnym | 7130 m³/h |
| Przyrost ciśnienia         | 92 Pa     |
| Regulacja prędkości (ErP)  | nie       |

| Budowa                 |                                             |
|------------------------|---------------------------------------------|
| Wielkość               | 630 mm                                      |
| Silnik                 | M6E110-GF                                   |
| Materiał wirnika       | blacha stalowa natryskiwana tworzywem PP    |
| Kratka ochronna        | stal powlekana czarnym tworzywem (RAL 9005) |
| Liczba łopatek         | 5                                           |
| Kierunek obrotów       | w lewo, patrząc na wirnik                   |
| Stopień ochrony        | IP54                                        |
| Klasa izolacji         | F                                           |
| Zabezpieczenie silnika | termik (TOP), izolacja podstawowa           |
| Łożyskowanie           | kulkowe                                     |
| Podłączenie            | skrzynka zaciskowa, kondensator wbudowany   |
| Masa                   | 13,9 kg                                     |

### Charakterystyka przepływowa (50 Hz)

Curves: Air performance 50 Hz



$\rho = 1.177 \text{ kg/m}^3 \pm 2 \%$

Measurement: LU-105789-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact [ebm-papst](mailto:ebm-papst). Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters have to be checked on the installed unit.

Dane na okładce wg karty katalogowej producenta ebm-papst (oryginał na kolejnych stronach).  
Wartości przy maksymalnym obciążeniu; producent zastrzega możliwość zmian.

**Dobór, wycena i dostawa – zapytaj LUFTBERG**

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S6E630-AN01-01

# AC axial fan - HyBlade

sickle-shaped blades (S series)  
with guard grille for short nozzle

**ebm-papst Mulfingen GmbH & Co. KG**

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www.ebmpapst.com

## Nominal data

|                             |                   |         |
|-----------------------------|-------------------|---------|
| Type                        | S6E630-AN01-01    |         |
| Motor                       | M6E110-GF         |         |
| Phase                       |                   | 1~      |
| Nominal voltage             | VAC               | 230     |
| Frequency                   | Hz                | 50      |
| Method of obtaining data    |                   | ml      |
| Valid for approval/standard |                   | CE      |
| Speed (rpm)                 | min <sup>-1</sup> | 860     |
| Power consumption           | W                 | 600     |
| Current draw                | A                 | 2.62    |
| Capacitor                   | μF                | 14      |
| Capacitor voltage           | VDB               | 400     |
| Capacitor standard          |                   | S0 (CE) |
| Max. back pressure          | Pa                | 100     |
| Max. back pressure          | in. wg            | 0.4     |
| Min. ambient temperature    | °C                | -40     |
| Max. ambient temperature    | °C                | 55      |
| Starting current            | A                 | 4.8     |

ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment  
Subject to change

## Data according to Commission Regulation (EU) 327/2011 (EN 17166)

|                                   |   | Actual | Req. 2015 |                               |                   |      |
|-----------------------------------|---|--------|-----------|-------------------------------|-------------------|------|
| 01 Overall efficiency $\eta_{es}$ | % | 32.7   | 32.1      | 09 Power consumption $P_e$    | kW                | 0.55 |
| 02 Measurement category           |   | A      |           | 09 Air flow $q_v$             | m³/h              | 7130 |
| 03 Efficiency category            |   | Static |           | 09 Pressure increase $p_{fs}$ | Pa                | 92   |
| 04 Efficiency grade N             |   | 40.6   | 40        | 10 Speed (rpm) n              | min <sup>-1</sup> | 870  |
| 05 Variable speed drive           |   | No     |           | 11 Specific ratio*            |                   | 1.00 |

Data obtained at optimum efficiency level.

\* Specific ratio =  $1 + p_{fs} / 100\,000\text{ Pa}$

LU-199801

The efficiency values displayed for achieving conformity with the Ecodesign Regulation EU 327/2011 has been reached with defined air duct components (e.g. inlet rings).  
The dimensions must be requested from ebm-papst. If other air conduction geometries are used on the installation side, the ebm-papst evaluation loses its validity/the conformity must be confirmed again.

The product does not fall within the scope of Regulation (EU) 2019/1781 due to the exception specified in Article 2 (2a) (motors completely integrated into a product).



**S6E630-AN01-01**

## AC axial fan - HyBlade

sickle-shaped blades (S series)  
with guard grille for short nozzle

### Technical description

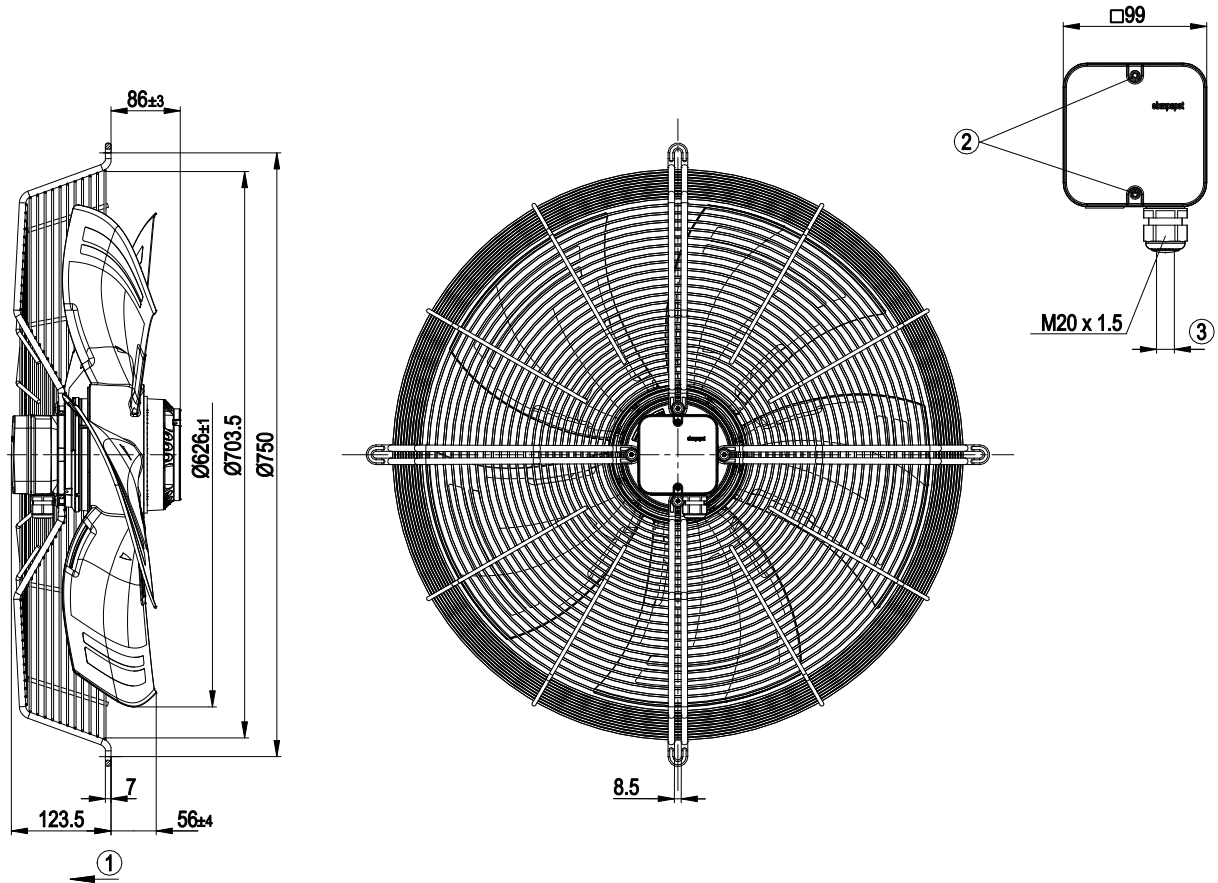
|                                                                            |                                                                    |
|----------------------------------------------------------------------------|--------------------------------------------------------------------|
| Weight                                                                     | 13.9 kg                                                            |
| Size                                                                       | 630 mm                                                             |
| Motor size                                                                 | 110                                                                |
| Rotor surface                                                              | Painted black                                                      |
| Terminal box material                                                      | PP plastic                                                         |
| Blade material                                                             | Press-fitted sheet steel blank, sprayed with PP plastic            |
| Guard grille material                                                      | Steel, coated with black plastic (RAL 9005)                        |
| Number of blades                                                           | 5                                                                  |
| Airflow direction                                                          | V                                                                  |
| Direction of rotation                                                      | Counterclockwise, viewed toward rotor                              |
| Degree of protection                                                       | IP54                                                               |
| Insulation class                                                           | "F"                                                                |
| Moisture (F) / Environmental (H) protection class                          | H2                                                                 |
| Max. permitted ambient temp. for motor (transport/storage)                 | + 80 °C                                                            |
| Min. permitted ambient temp. for motor (transport/storage)                 | - 40 °C                                                            |
| Installation position                                                      | Shaft horizontal or rotor on bottom; rotor on top on request       |
| Condensation drainage holes                                                | On rotor side                                                      |
| Mode                                                                       | S1                                                                 |
| Motor bearing                                                              | Ball bearing                                                       |
| Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system) | <= 3.5 mA                                                          |
| Electrical hookup                                                          | Terminal box; Via terminal box, capacitor integrated and connected |
| Motor protection                                                           | Thermal overload protector (TOP) with basic insulation             |
| With cable                                                                 | Axial                                                              |
| Protection class                                                           | I (with customer connection of protective earth)                   |
| Motor capacitor according to EN 60252-1 in safety protection class         | S0                                                                 |
| Conformity with standards                                                  | EN 61800-5-1; UKCA; CE                                             |
| Approval                                                                   | EAC; CCC; VDE                                                      |

**S6E630-AN01-01**

## AC axial fan - HyBlade

sickle-shaped blades (S series)  
with guard grille for short nozzle

## Product drawing



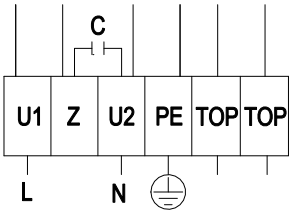
- |   |                                                                        |
|---|------------------------------------------------------------------------|
| 1 | Direction of air flow "V"                                              |
| 2 | Tightening torque $1.5 \pm 0.2$ Nm                                     |
| 3 | Cable diameter min. 6 mm, max. 12 mm; tightening torque $2 \pm 0.3$ Nm |

S6E630-AN01-01

# AC axial fan - HyBlade

sickle-shaped blades (S series)  
with guard grille for short nozzle

## Connection diagram



|    |              |     |       |   |              |
|----|--------------|-----|-------|---|--------------|
| L  | = U1 = blue  | Z   | brown | N | = U2 = black |
| PE | green/yellow | TOP | gray  |   |              |



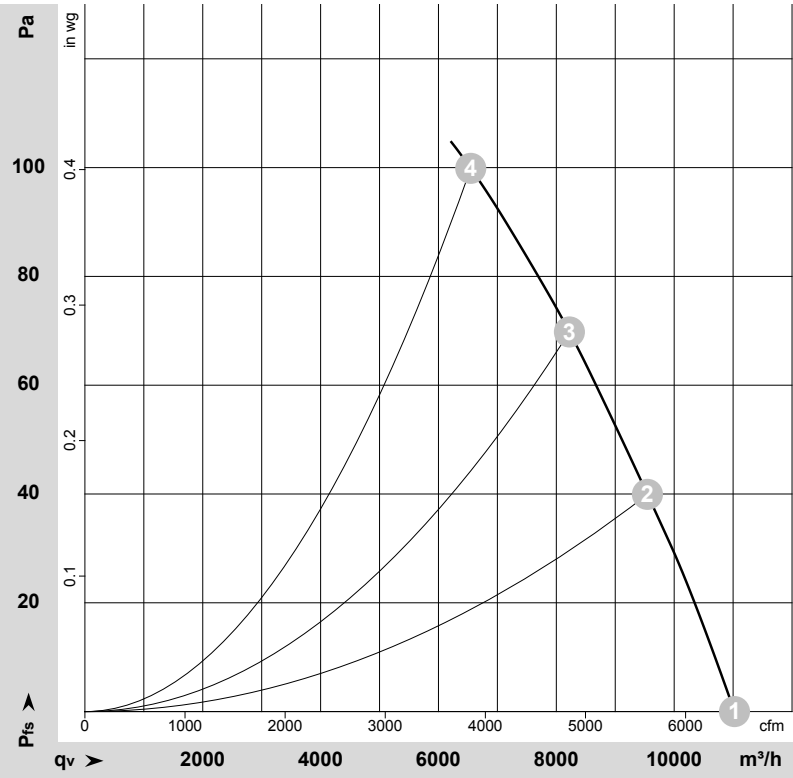
S6E630-AN01-01

AC axial fan - HyBlade

sickle-shaped blades (S series)

with guard grille for short nozzle

Curves: Air performance 50 Hz



$\rho = 1.177 \text{ kg/m}^3 \pm 2 \%$

Measurement: LU-105789-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters have to be checked on the installed unit.

Measured values

|   | U   | f  | n                 | P <sub>e</sub> | I    | LpA <sub>in</sub> | LwA <sub>in</sub> | LwA <sub>out</sub> | q <sub>v</sub> | P <sub>fs</sub> | q <sub>v</sub> | P <sub>fs</sub> |
|---|-----|----|-------------------|----------------|------|-------------------|-------------------|--------------------|----------------|-----------------|----------------|-----------------|
|   | V   | Hz | min <sup>-1</sup> | W              | A    | dB(A)             | dB(A)             | dB(A)              | m³/h           | Pa              | cfm            | in. wg          |
| 1 | 230 | 50 | 925               | 467            | 2.04 | 64                | 70                | 70                 | 11025          | 0               | 6490           | 0.00            |
| 2 | 230 | 50 | 905               | 522            | 2.27 | 61                | 67                | 67                 | 9545           | 40              | 5620           | 0.16            |
| 3 | 230 | 50 | 885               | 559            | 2.44 | 60                | 66                | 65                 | 8220           | 70              | 4840           | 0.28            |
| 4 | 230 | 50 | 860               | 600            | 2.62 | 61                | 68                | 67                 | 6550           | 100             | 3855           | 0.40            |

U = Voltage · f = Frequency · n = Speed (rpm) · P<sub>e</sub> = Power consumption · I = Current draw · LpA<sub>in</sub> = Sound pressure level intake side · LwA<sub>in</sub> = Sound power level intake side  
LwA<sub>out</sub> = Sound power level outlet side · q<sub>v</sub> = Air flow · p<sub>fs</sub> = Pressure increase

