**W8E630-CE01-80**

# AC axial fan

sickled blades (S series)

with full round nozzle, Transformator fan

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## Nominal data

| | |
|---|---|
| **Type** | **W8E630-CE01-80** |
| **Motor** | **M8E110-GF** |

| | | | |
|---|---|---|---|
| Phase | | 1~ | 3~ |
| Nominal voltage | VAC | 230 | 230 |
| Frequency | Hz | 50 | 60 |
| Type of data definition | | fa | fa |
| Valid for approval / standard | | CE | CE |
| Speed (rpm) | $min^{-1}$ | 690 | 800 |
| Power input | W | 280 | 380 |
| Current draw | A | 1.56 | 1.7 |
| Motor capacitor | µF | 7 | 7 |
| Capacitor voltage | VDB | 450 | 450 |
| Capacitor standard | | S0 (CE) | S0 (CE) |
| Max. back pressure | Pa | 60 | 70 |
| Min. ambient temperature | °C | -40 | -40 |
| Max. ambient temperature | °C | 60 | 55 |

ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit
Subject to alterations

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## Technical features

| | |
|---|---|
| **Mass** | 25.0 kg |
| **Size** | 630 mm |
| **Surface of rotor** | Coated in black |
| **Material of terminal box** | Die-cast aluminium, coated in black |
| **Material of blades** | Aluminium sheet, coated in black |
| **Material of wall ring** | Sheet steel, pre-galvanised and plastic-coated in white aluminium (RAL 9006) |
| **Material of guard grille** | Steel, coated in white aluminium plastic (RAL 9006) |
| **Number of blades** | 5 |
| **Blade angle** | -5° |
| **Direction of air flow** | "A" |
| **Direction of rotation** | Clockwise, seen on rotor |
| **Type of protection** | IP 54 |
| **Insulation class** | "F" |
| **Humidity (F)/environmental protection class (H)** | H2+ |
| **Max. permissible ambient motor temp. (transp./ storage)** | +80 °C |
| **Min. permissible ambient motor temp. (transp./storage)** | -40 °C |
| **Mounting position** | Rotor on top |
| **Condensate discharge holes** | On the stator side |
| **Operation mode** | S1 |
| **Motor bearing** | Ball bearing |
| **Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)** | <= 3.5 mA |
| **Electrical leads** | Via terminal box, integrated capacitor connected via terminal box |
| **Motor protection** | Thermal overload protector (TOP) brought out, basic insulation |
| **Protection class** | I (if protective earth is connected by customer) |
| **Motor capacitor according to EN 60252-1 in safety protection class** | S0 |
| **Product conforming to standard** | EN 61800-5-1 |
| **Approval** | CSA C22.2 No.100; UL 1004-1; VDE; EAC |



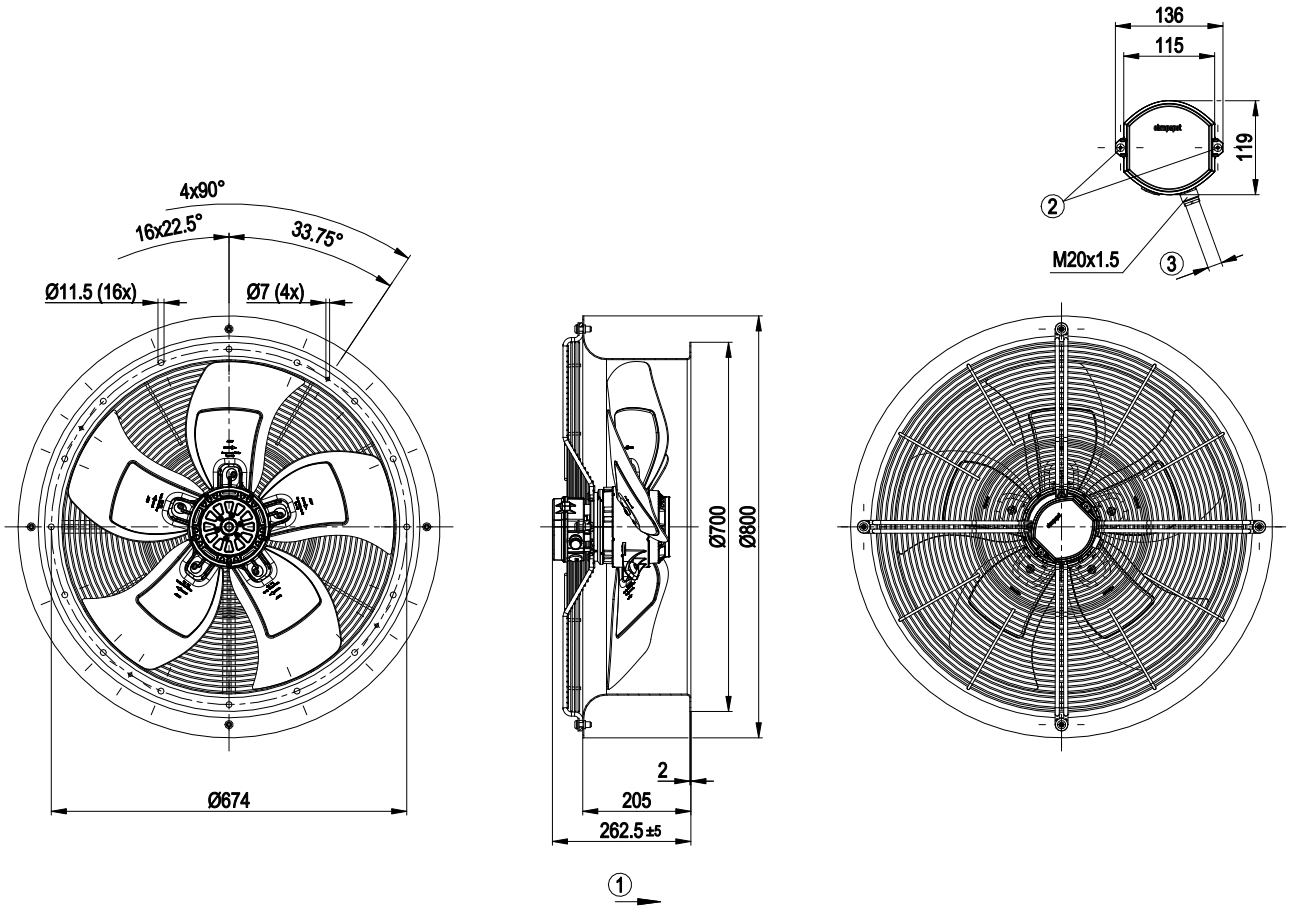
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## Product drawing




| | |
|---|---|
| 1 | Direction of air flow "A" |
| 2 | Tightening torque 2.5±0.4 Nm |
| 3 | Cable diameter max. 12 mm, tightening torque 4±0.4 Nm |



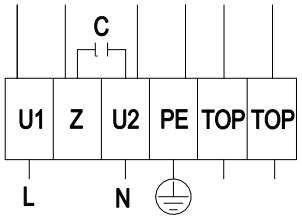
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## Connection screen




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



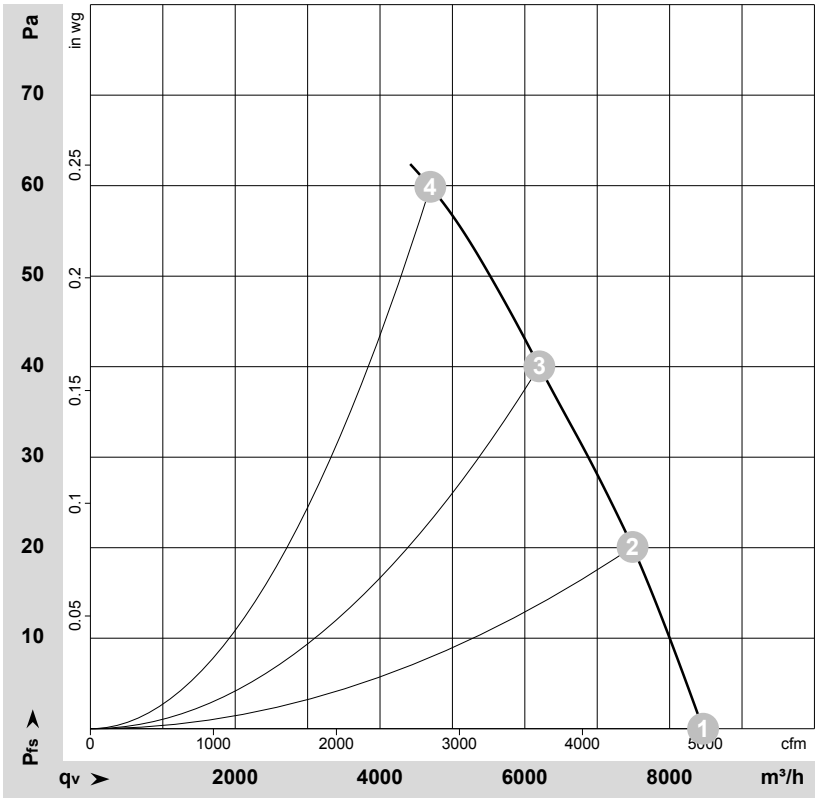
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## Charts: Air flow 50 Hz




ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-101266-1

Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebm-papst. Suction-side noise levels: LwA measured as per ISO 13347 / LpA measured with 1m distance to fan axis. The values given are valid under the measuring conditions mentioned above and may vary according to the actual installation situation. With any deviation from the standard set-up, the specific values have to be checked and reviewed with the unit installed.

## Measured values

| | U | f | n | $P_e$ | I | $LpA_{in}$ | $LwA_{in}$ | $q_V$ | $p_{fs}$ | $q_V$ | $p_{fs}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | V | Hz | $min^{-1}$ | W | A | dB(A) | dB(A) | $m^3/h$ | Pa | cfm | inH2O |
| 1 | 230 | 50 | 690 | 280 | 1.56 | 64 | 70 | 8460 | 0 | 4980 | 0.00 |
| 2 | 230 | 50 | 685 | 299 | 1.62 | 63 | 69 | 7490 | 20 | 4405 | 0.08 |
| 3 | 230 | 50 | 675 | 321 | 1.68 | 63 | 69 | 6200 | 40 | 3650 | 0.16 |
| 4 | 230 | 50 | 655 | 350 | 1.79 | 63 | 69 | 4695 | 60 | 2765 | 0.24 |

U = Supply voltage · f = Frequency · n = Speed (rpm) · $P_e$ = Power input · I = Current draw · $LpA_{in}$ = Sound pressure level inlet side · $LwA_{in}$ = Sound power level inlet side · $q_V$ = Air flow
$p_{fs}$ = Pressure increase



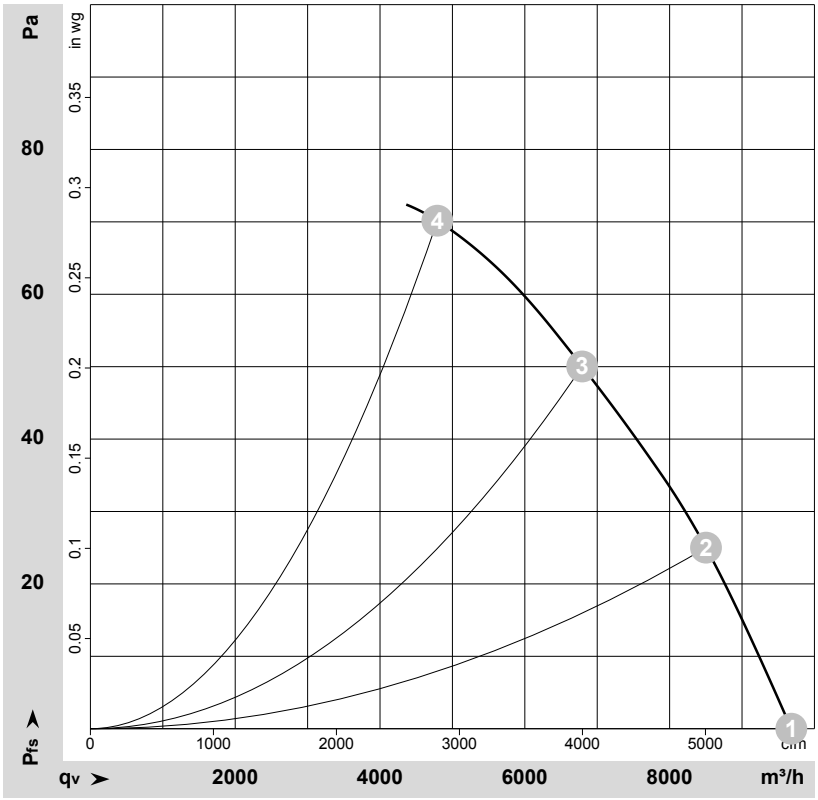
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# AC axial fan

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## Charts: Air flow 60 Hz




ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-101268-1

Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebm-papst. Suction-side noise levels: LwA measured as per ISO 13347 / LpA measured with 1m distance to fan axis. The values given are valid under the measuring conditions mentioned above and may vary according to the actual installation situation. With any deviation from the standard set-up, the specific values have to be checked and reviewed with the unit installed.

## Measured values

| | U | f | n | $P_e$ | I | $LpA_{in}$ | $LwA_{in}$ | $q_V$ | $p_{fs}$ | $q_V$ | $p_{fs}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | V | Hz | $min^{-1}$ | W | A | dB(A) | dB(A) | $m^3/h$ | Pa | cfm | inH2O |
| 1 | 230 | 60 | 800 | 380 | 1.70 | 68 | 73 | 9680 | 0 | 5700 | 0.00 |
| 2 | 230 | 60 | 775 | 403 | 1.83 | 66 | 71 | 8500 | 25 | 5005 | 0.10 |
| 3 | 230 | 60 | 745 | 428 | 1.96 | 66 | 72 | 6790 | 50 | 4000 | 0.20 |
| 4 | 230 | 60 | 700 | 450 | 2.08 | 67 | 73 | 4790 | 70 | 2820 | 0.28 |

U = Supply voltage · f = Frequency · n = Speed (rpm) · $P_e$ = Power input · I = Current draw · $LpA_{in}$ = Sound pressure level inlet side · $LwA_{in}$ = Sound power level inlet side · $q_V$ = Air flow
$p_{fs}$ = Pressure increase



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