**A8E560-AK01-01**

# AC axial fan

sickled blades (S series)

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## Nominal data

| | |
|---|---|
| **Type** | **A8E560-AK01-01** |
| **Motor** | **M8E110-EF** |

| | | | |
|---|---|---|---|
| Phase | | 1~ | 1~ |
| Nominal voltage | VAC | 230 | 230 |
| Frequency | Hz | 50 | 60 |
| Type of data definition | | ml | ml |
| Valid for approval / standard | | CE | CE |
| Speed | $min^{-1}$ | 670 | 750 |
| Power input | W | 230 | 300 |
| Current draw | A | 1.15 | 1.37 |
| Motor capacitor | µF | 5 | 5 |
| Capacitor voltage | VDB | 400 | 400 |
| Max. back pressure | Pa | 45 | 55 |
| Min. ambient temperature | °C | -40 | -40 |
| Max. ambient temperature | °C | 65 | 60 |

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** | 8.7 kg |
| **Size** | 560 mm |
| **Surface of rotor** | Cast in aluminium |
| **Material of terminal box** | ABS plastic |
| **Material of blades** | Aluminium sheet insert, sprayed with PP plastic |
| **Number of blades** | 5 |
| **Blade angle** | -5° |
| **Direction of air flow** | "V" |
| **Direction of rotation** | Counter-clockwise, seen on rotor |
| **Type of protection** | IP 54 |
| **Insulation class** | "F" |
| **Humidity class** | F3-1 |
| **Max. permissible ambient motor temp. (transp./ storage)** | +80 °C |
| **Min. permissible ambient motor temp. (transp./storage)** | -40 °C |
| **Mounting position** | Shaft horizontal or rotor on bottom; rotor on top on request |
| **Condensate discharge holes** | Rotor-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 |
| **Cable exit** | Axial |
| **Protection class** | I (if protective earth is connected by customer) |
| **Product conforming to standard** | EN 61800-5-1 |
| **Approval** | EAC; VDE |

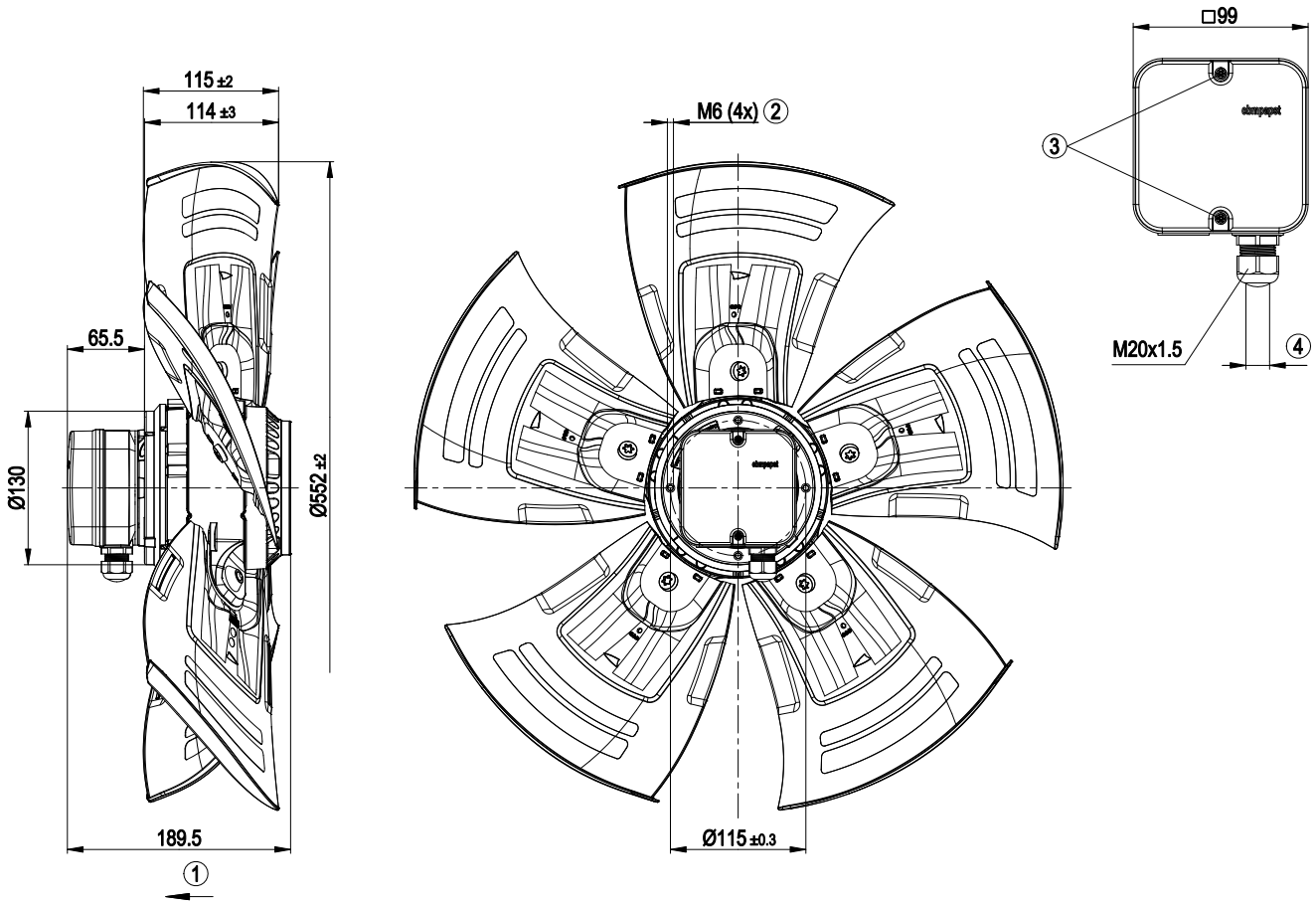


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## Product drawing




| | |
|---|---|
| 1 | Direction of air flow "V" |
| 2 | Depth of screw max. 12 mm |
| 3 | Tightening torque 1.5±0.2 Nm |
| 4 | Cable diameter: min. 6 mm, max. 12 mm, tightening torque: 2±0.3 Nm |

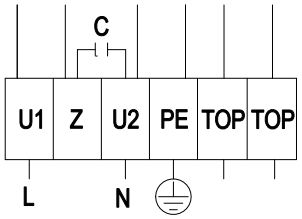


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## Connection screen




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

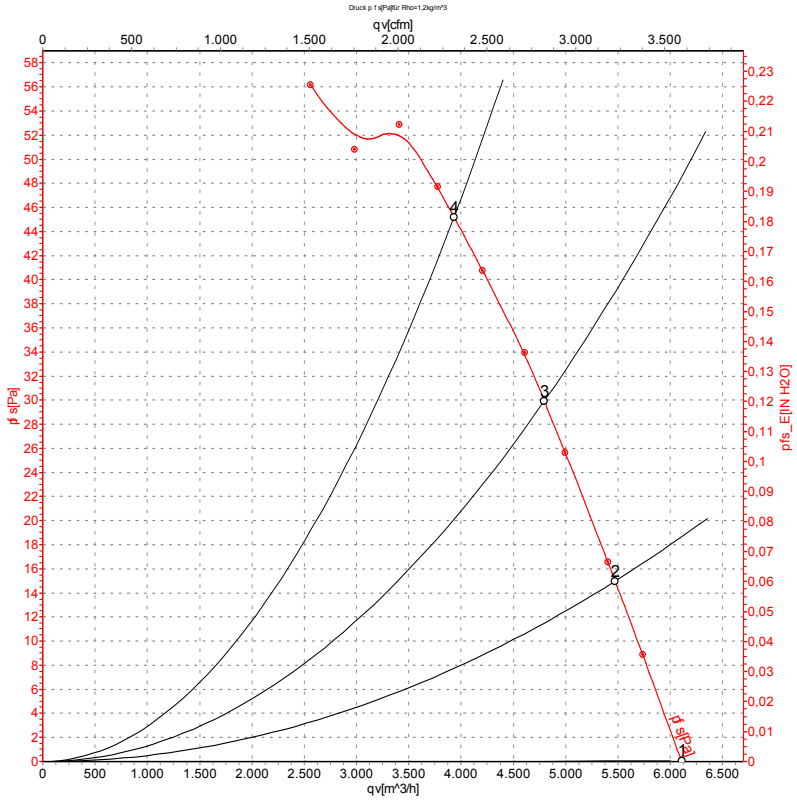


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# AC axial fan

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## Charts: Air flow 50 Hz




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 | $LpA_{in}$ | $LwA_{in}$ | $LwA_{out}$ | qv | $p_{fs}$ |
|---|---|---|---|---|---|---|---|---|---|---|
| | V | Hz | $min^{-1}$ | W | A | dB(A) | dB(A) | dB(A) | $m^3/h$ | Pa |
| 1 | 230 | 50 | 700 | 193 | 1.06 | 53 | 59 | 60 | 6110 | 0 |
| 2 | 230 | 50 | 690 | 207 | 1.09 | 52 | 58 | 58 | 5470 | 15 |
| 3 | 230 | 50 | 685 | 217 | 1.12 | 52 | 58 | 58 | 4795 | 30 |
| 4 | 230 | 50 | 670 | 230 | 1.15 | 55 | 61 | 61 | 3930 | 45 |

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

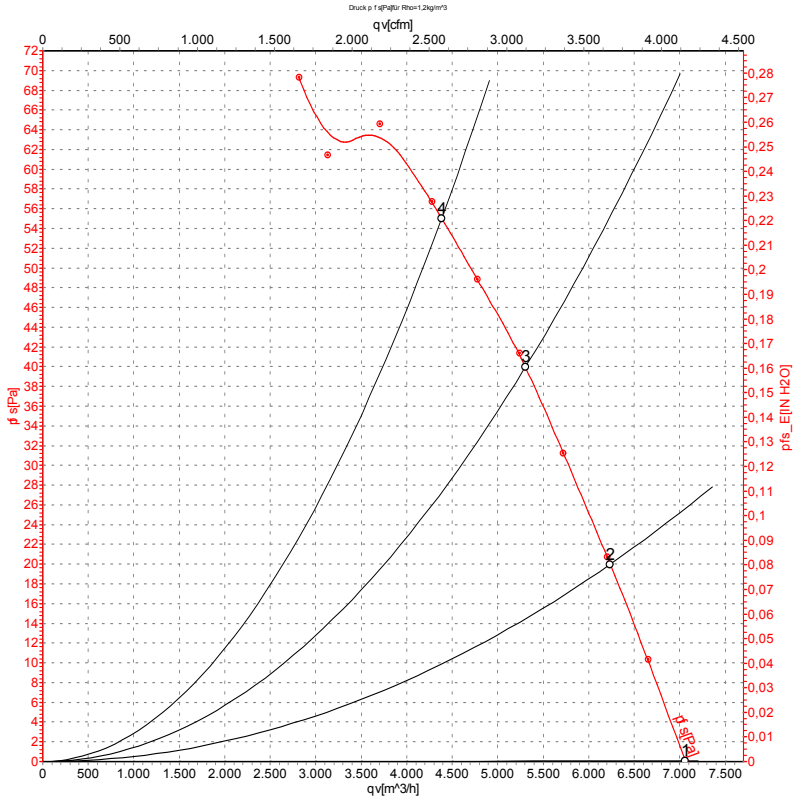


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## Charts: Air flow 60 Hz




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 | $LpA_{in}$ | $LwA_{in}$ | $LwA_{out}$ | qv | $p_{fs}$ |
|---|---|---|---|---|---|---|---|---|---|---|
| | V | Hz | $min^{-1}$ | W | A | dB(A) | dB(A) | dB(A) | $m^3/h$ | Pa |
| 1 | 230 | 60 | 810 | 260 | 1.17 | 56 | 62 | 62 | 7060 | 0 |
| 2 | 230 | 60 | 790 | 275 | 1.24 | 55 | 60 | 60 | 6235 | 20 |
| 3 | 230 | 60 | 770 | 291 | 1.32 | 54 | 59 | 59 | 5305 | 40 |
| 4 | 230 | 60 | 750 | 300 | 1.37 | 57 | 63 | 63 | 4385 | 55 |

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



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