**S4E560-AQ01-02**

# AC axial fan - HyBlade®

sickled blades (S series)

with guard grille for short nozzle

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## Nominal data

| | | |
|---|---|---|
| **Type** | **S4E560-AQ01-02** | |
| **Motor** | **M4E110-IA** | |
| Phase | | 1~ |
| Nominal voltage | VAC | 230 |
| Frequency | Hz | 50 |
| Type of data definition | | ml |
| Valid for approval / standard | | CE |
| Speed | $min^{-1}$ | 1275 |
| Power input | W | 1090 |
| Current draw | A | 4.76 |
| Motor capacitor | µF | 20 |
| Capacitor voltage | VDB | 450 |
| Max. back pressure | Pa | 160 |
| Max. ambient temperature | °C | 55 |

ml = max. load · me = max. efficiency · rfa = running at free air · cs = customer specs · cu = customer unit
Subject to alterations

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## Technical features

| | |
|---|---|
| **Leakage current** | <= 3.5 mA |
| **Size** | 560 mm |
| **Operation mode** | S1 |
| **Direction of rotation** | Clockwise, seen on rotor |
| **Mounting position** | Shaft horizontal or rotor on bottom; rotor on top on request |
| **Electrical leads** | Via terminal box, integrated capacitor connected via terminal box |
| **Humidity class** | F3-1 |
| **Blade angle** | -5° |
| **Direction of air flow** | "A" |
| **Insulation class** | "F" |
| **Cable exit** | Axial |
| **Condensate discharge holes** | Rotor-side |
| **Motor bearing** | Ball bearing |
| **Mass** | 17.1 kg |
| **Material of terminal box** | PP plastic, black |
| **Material of blades** | Aluminium sheet insert, sprayed with PP plastic |
| **Material of guard grille** | Steel, phosphated and coated in black plastic |
| **Motor protection** | Thermal overload protector (TOP) brought out |
| **Product conforming to standard** | CE; EN 61800-5-1 |
| **Surface of rotor** | Cast in aluminium |
| **Number of blades** | 5 |
| **Type of protection** | IP 54 |
| **Protection class** | I |
| **Max. permissible ambient motor temp. (transp./ storage)** | + 80 °C |
| **Min. permissible ambient motor temp. (transp./storage)** | - 40 °C |
| **Approval** | GOST; VDE |



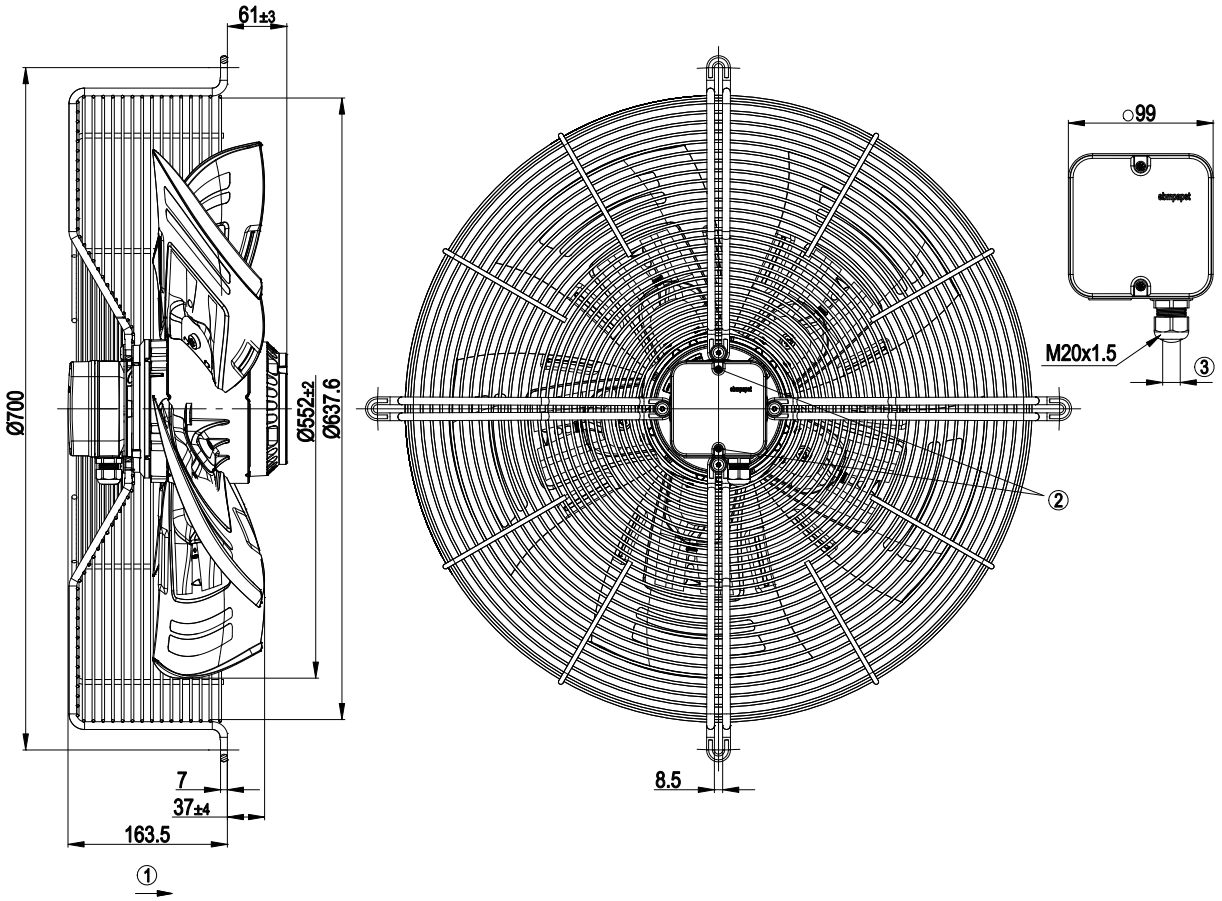
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## Product drawing




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



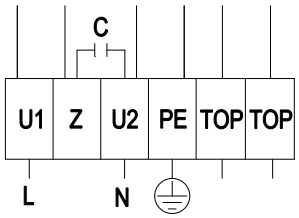
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## Connection screen




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



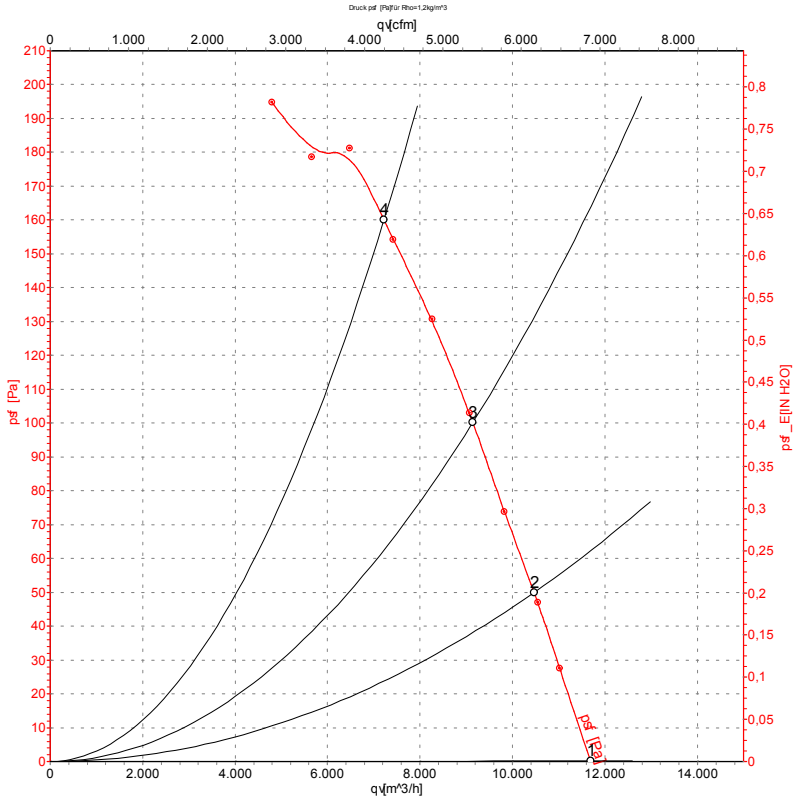
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## Charts: Air flow 50 Hz




Measurement: LU-111142

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 | $p_{sf}$ |
|---|---|---|---|---|---|---|---|---|---|---|
| | V | Hz | $min^{-1}$ | W | A | dB(A) | dB(A) | dB(A) | $m^3/h$ | Pa |
| 1 | 230 | 50 | 1370 | 872 | 3.81 | 69 | 76 | 77 | 11690 | 0 |
| 2 | 230 | 50 | 1340 | 951 | 4.15 | 68 | 75 | 76 | 10470 | 50 |
| 3 | 230 | 50 | 1315 | 1017 | 4.44 | 66 | 73 | 74 | 9140 | 100 |
| 4 | 230 | 50 | 1275 | 1090 | 4.76 | 69 | 76 | 76 | 7220 | 160 |



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