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Limited partnership · Headquarters Mulfingen
County court Stuttgart · HRA 590344General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen
County court Stuttgart · HRB 590142**Nominal data**

| | | |
|-------------------------------|-----------------------|------|
| Type | W4E560-GQ01-01 | |
| 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 |
| Min. ambient temperature | °C | -40 |
| Max. ambient temperature | °C | 55 |

ml = max. load · me = max. efficiency · fa = running at free air · cs = customer specs · cu = customer unit
Subject to alterations**Data according to ErP directive**

| | |
|-----------------------|--------|
| Installation category | A |
| Efficiency category | Static |
| Variable speed drive | No |
| Specific ratio* | 1.00 |

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

| | Actual | Request 2013 | Request 2015 |
|--------------------------------|-------------------|--------------|--------------|
| Overall efficiency η_{es} | 29.9 | 29.9 | 33.9 |
| Efficiency grade N | 36 | 36 | 40 |
| Power input P_e | kW | 1.09 | |
| Air flow q_v | m ³ /h | 6485 | |
| Pressure increase p_{fs} | Pa | 174 | |
| Speed n | min ⁻¹ | 1270 | |

Data established at point of optimum efficiency



AC axial fan - HyBlade®

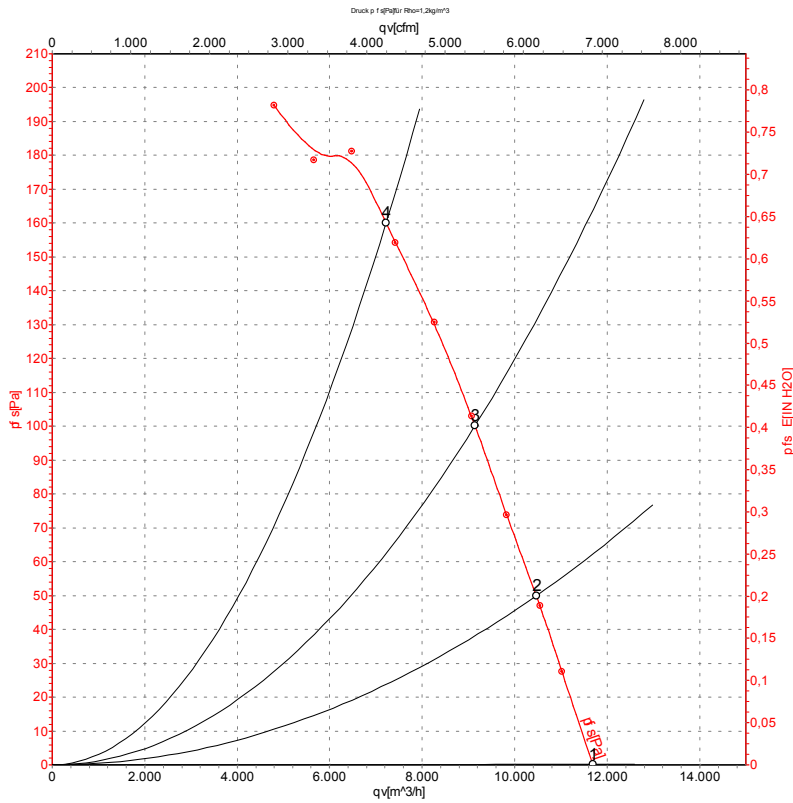
sickled blades (S series), single inlet
with full square nozzle

Technical features

| | |
|---|---|
| Mass | 26 kg |
| Size | 560 mm |
| Surface of rotor | Cast in aluminium |
| Material of terminal box | ABS plastic, black |
| Material of blades | Aluminium sheet insert, sprayed with PP plastic |
| Material of wall ring | Sheet steel, pre-galvanised and coated in black plastic |
| Material of guard grille | Steel, phosphated and coated in black 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; CE |
| Approval | GOST; VDE |



Charts: Air flow 50 Hz



Measurement: LU-11142

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: L_{wA} measured as per ISO 13347 / L_{pA} 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 | L _{pA_{in}} | L _{wA_{in}} | L _{wA_{out}} | qv | p _{fs} |
|---|-----|----|-------------------|----------------|------|------------------------------|------------------------------|-------------------------------|-------------------|-----------------|
| | 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 |

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

