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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**

|                               |                       |      |      |
|-------------------------------|-----------------------|------|------|
| <b>Type</b>                   | <b>S6E500-AJ03-01</b> |      |      |
| <b>Motor</b>                  | <b>M6E110-EF</b>      |      |      |
| 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 <sup>-1</sup>     | 915  | 1015 |
| Power input                   | W                     | 270  | 390  |
| Current draw                  | A                     | 1.18 | 1.72 |
| Motor capacitor               | µF                    | 8    | 8    |
| Capacitor voltage             | VDB                   | 400  | 400  |
| Max. back pressure            | Pa                    | 70   | 90   |
| Min. ambient temperature      | °C                    | -40  | -40  |
| Max. ambient temperature      | °C                    | 65   | 65   |
| Starting current              | A                     | 2.3  |      |

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 =  $1 + p_g / 100\,000\text{ Pa}$

|                                | Actual            | Request 2013 | Request 2015 |
|--------------------------------|-------------------|--------------|--------------|
| Overall efficiency $\eta_{es}$ | 26.6              | 26           | 30           |
| Efficiency grade N             | 36.6              | 36           | 40           |
| Power input $P_e$              | kW                | 0.26         |              |
| Air flow $q_v$                 | m <sup>3</sup> /h | 3805         |              |
| Pressure increase $p_{fs}$     | Pa                | 67           |              |
| Speed n                        | min <sup>-1</sup> | 915          |              |

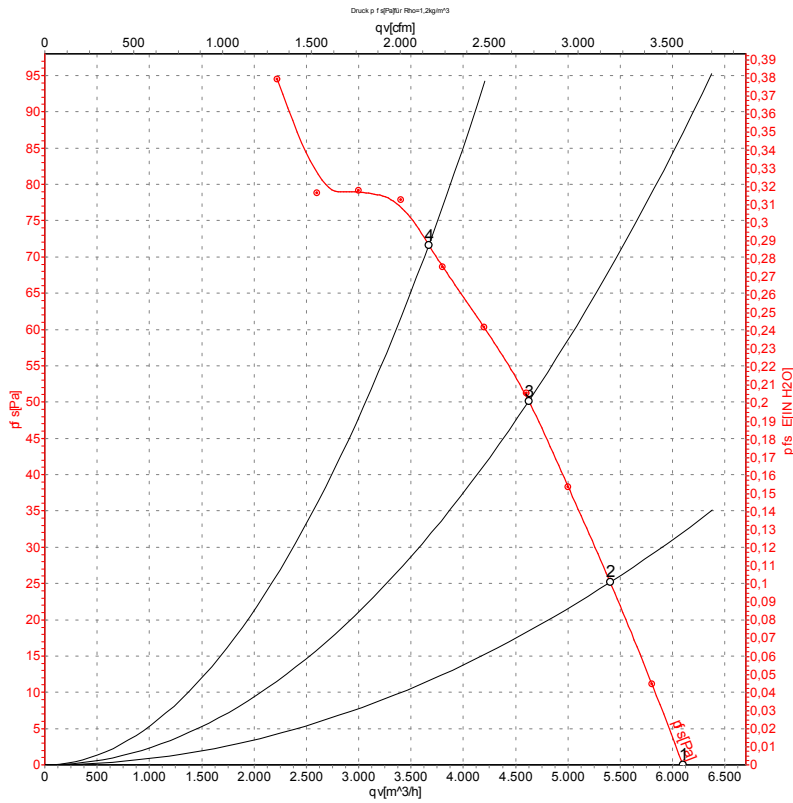
Data established at point of optimum efficiency



## Technical features

|  |   |
|--|---|
| Mass   | 10.5 kg   |
| Size   | 500 mm  |
| Surface of rotor   | Coated in black   |
| Material of terminal box   | PC/ABS plastic, black   |
| Material of blades   | Press-fitted sheet steel blank, sprayed with PP plastic           |
| Material of guard grille   | Steel, phosphated and coated in black plastic                     |
| Number of blades   | 5   |
| Direction of air flow  | "V"   |
| Direction of rotation  | Counter-clockwise, seen on rotor                                  |
| Type of protection   | IP 54   |
| Insulation class   | "F"   |
| Humidity class   | F4-1  |
| 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   | CSA C22.2 Nr.100; UL 1004-1; VDE; GOST; CCC                       |

## Charts: Air flow 50 Hz



Measurement: LU-105735

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                 | Pe  | I    | LpA <sub>in</sub> | LwA <sub>in</sub> | LwA <sub>out</sub> | qv                | p <sub>fs</sub> |
|---|-----|----|-------------------|-----|------|-------------------|-------------------|--------------------|-------------------|-----------------|
|   | V   | Hz | min <sup>-1</sup> | W   | A    | dB(A)             | dB(A)             | dB(A)              | m <sup>3</sup> /h | Pa              |
| 1 | 230 | 50 | 945               | 220 | 0.97 | 61                | 67                | 67                 | 6100              | 0               |
| 2 | 230 | 50 | 935               | 235 | 1.03 | 58                | 64                | 65                 | 5405              | 25              |
| 3 | 230 | 50 | 925               | 251 | 1.10 | 56                | 62                | 63                 | 4625              | 50              |
| 4 | 230 | 50 | 915               | 270 | 1.18 | 56                | 63                | 63                 | 3670              | 70              |

U = Supply voltage · f = Frequency · n = Speed · Pe = Power input · I = Current draw · LpA<sub>in</sub> = Sound pressure level inlet side · LwA<sub>in</sub> = Sound power level inlet side · LwA<sub>out</sub> = Sound power level outlet side  
 qv = Air flow · p<sub>fs</sub> = Pressure increase

