**S1G300-FN01-01**

# EC axial fan

sickled blades (S series)

ESM guard grille

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## Nominal data

| | |
|---|---|
| **Type** | **S1G300-FN01-01** |
| **Motor** | **M1G055-DF** |

| | | | |
|---|---|---|---|
| Phase | | 1~ | 1~ |
| Nominal voltage | VAC | 230 | 230 |
| Nominal voltage range | VAC | 200 .. 240 | 200 .. 240 |
| Frequency | Hz | 50/60 | 50/60 |
| Type of data definition | | ml | |
| Speed (rpm) | $min^{-1}$ | 1400 | 1100 |
| Power input | W | 55 | |
| Current draw | A | 0.48 | |
| Max. back pressure | Pa | 40 | |
| Min. ambient temperature | °C | -40 | -40 |
| Max. ambient temperature | °C | 40 | 40 |

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** | 1.6 kg |
| **Size** | 300 mm |
| **Motor size** | 55 |
| **Surface of rotor** | Thick layer passivated |
| **Material of blades** | Press-fitted sheet steel blank, sprayed with PP plastic |
| **Material of guard grille** | PP plastic |
| **Number of blades** | 5 |
| **Direction of air flow** | A |
| **Direction of rotation** | Clockwise, seen on rotor |
| **Type of protection** | IP54 |
| **Insulation class** | "B" |
| **Humidity (F) / environmental protection class (H)** | H1+ |
| **Max. permissible ambient motor temp. (transp./ storage)** | + 70 °C |
| **Min. permissible ambient motor temp. (transp./storage)** | - 40 °C |
| **Mounting position** | Any |
| **Condensation drainage holes** | None, open rotor |
| **Operation mode** | S1 |
| **Motor bearing** | Ball bearing with anti-freezing grease |
| **Technical features** | - Speed selection max/min<br>- Output limit<br>- Motor current limit<br>- Soft start<br>- Over-temperature protected motor |
| **Speed steps** | 2 |
| **Motor protection** | Thermal overload protector (TOP) wired internally |
| **Cable exit** | Lateral |
| **Protection class** | II |
| **Product conforming to standard** | CE |
| **Approval** | EAC |



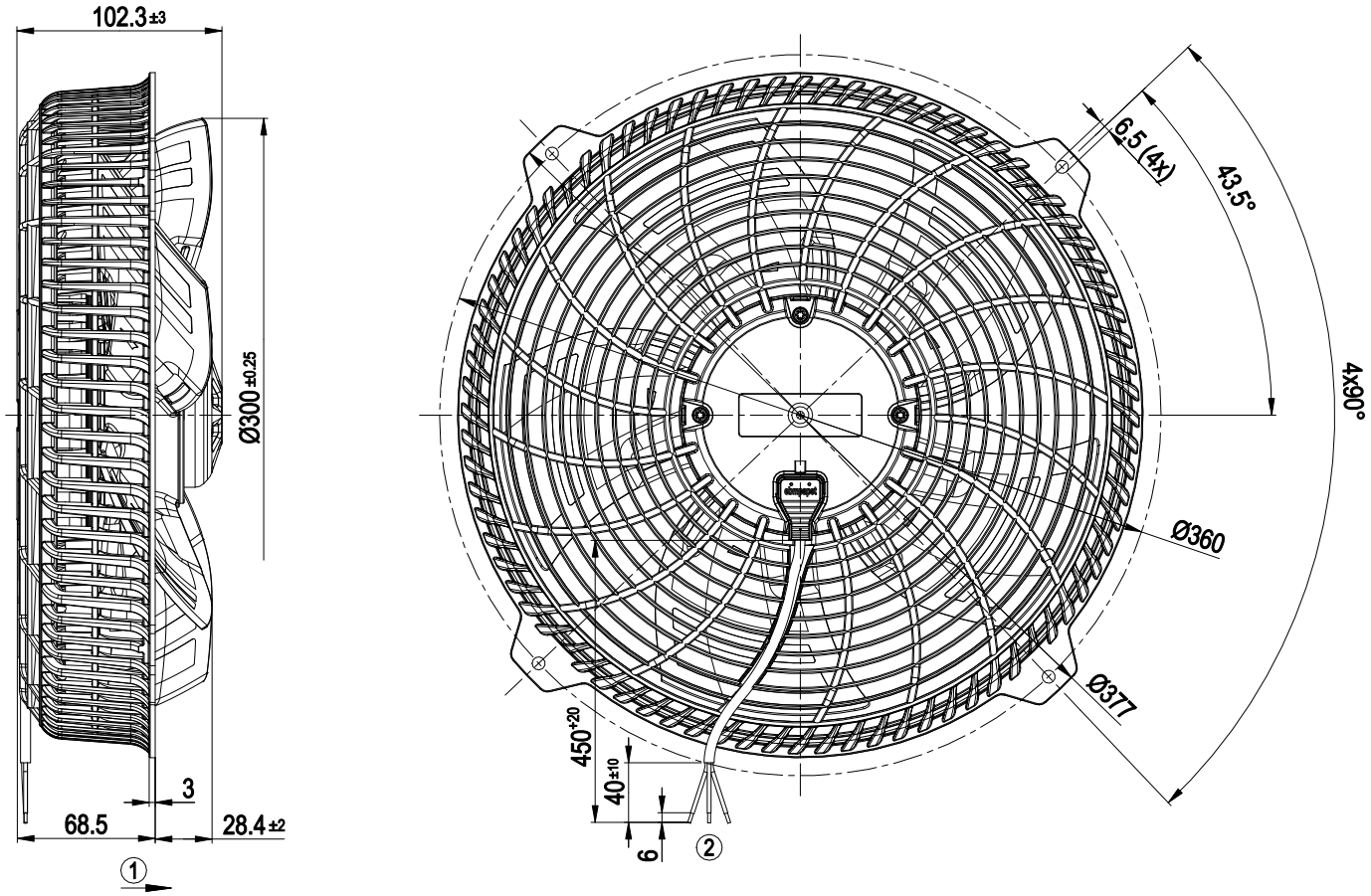
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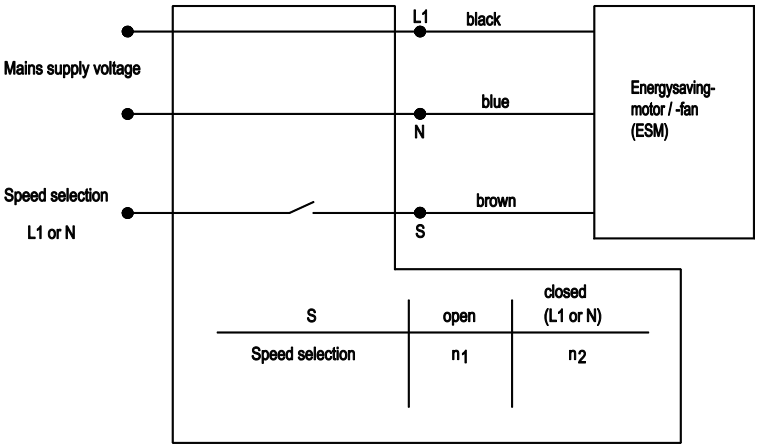
ESM guard grille

## Product drawing




| | |
|---|---|
| 1 | Direction of air flow "A" |
| 2 | Connection line PVC AWG20, 3x lead tips crimped |

## Connection screen





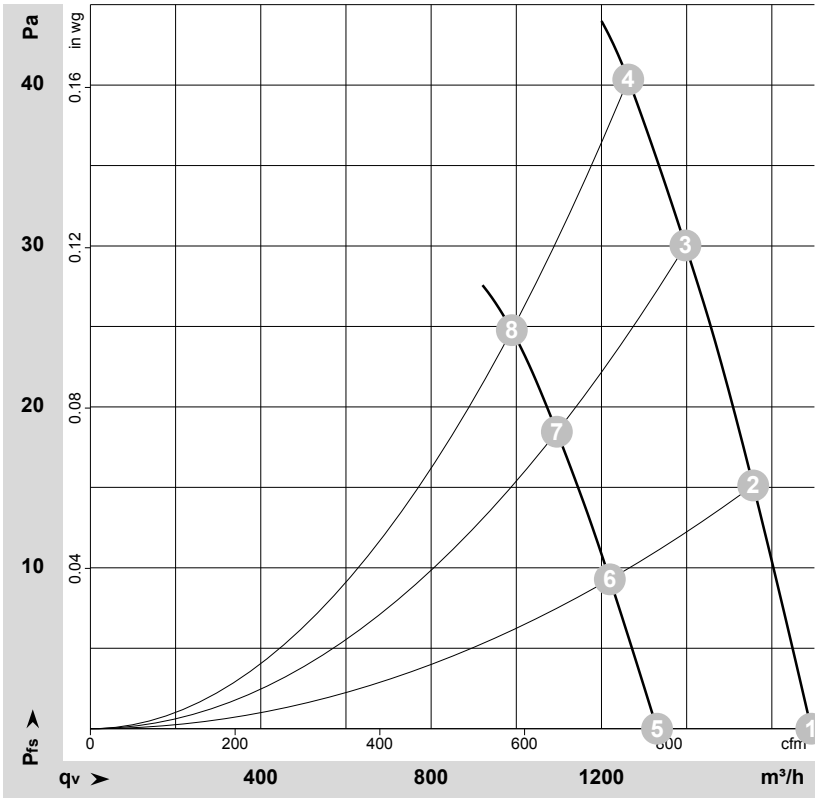

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## Charts: Air flow 50 Hz




ρ = 1.176 kg/m³ ± 2 %

Measurement: LU-184168-1
Measurement: LU-183972-1

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

| | Stage | U | f | n | $P_{ed}$ | 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 | in. wg |
| 1 | 1 | 230 | 50 | 1400 | 45 | 0.41 | 61 | 69 | 1695 | 0 | 995 | 0.00 |
| 2 | 1 | 230 | 50 | 1400 | 50 | 0.44 | 60 | 68 | 1555 | 15 | 915 | 0.06 |
| 3 | 1 | 230 | 50 | 1400 | 54 | 0.47 | 60 | 68 | 1395 | 30 | 820 | 0.12 |
| 4 | 1 | 230 | 50 | 1400 | 55 | 0.48 | 59 | 67 | 1265 | 40 | 745 | 0.16 |
| 5 | 2 | 230 | 50 | 1100 | 23 | 0.22 | 53 | 62 | 1330 | 0 | 785 | 0.00 |
| 6 | 2 | 230 | 50 | 1100 | 25 | 0.24 | 53 | 62 | 1220 | 10 | 720 | 0.04 |
| 7 | 2 | 230 | 50 | 1100 | 27 | 0.26 | 53 | 62 | 1095 | 19 | 645 | 0.08 |
| 8 | 2 | 230 | 50 | 1100 | 28 | 0.27 | 53 | 61 | 990 | 25 | 580 | 0.10 |

U = Supply voltage · f = Frequency · n = Speed (rpm) · $P_{ed}$ = 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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