

EC axial compact fan

sickled blades (S series), single inlet

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Nominal data

| | | |
|--------------------------|-----------------------|----------|
| Type | W2G115-AE31-15 | |
| Motor | M2G045-BA | |
| Nominal voltage | VDC | 24 |
| Nominal voltage range | VDC | 18 .. 30 |
| Type of data definition | | fa |
| Speed | min ⁻¹ | 3100 |
| Power input | W | 5.7 |
| Max. back pressure | Pa | 35 |
| Min. ambient temperature | °C | - 25 |
| Max. ambient temperature | °C | +72 |

ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit
Subject to alterations

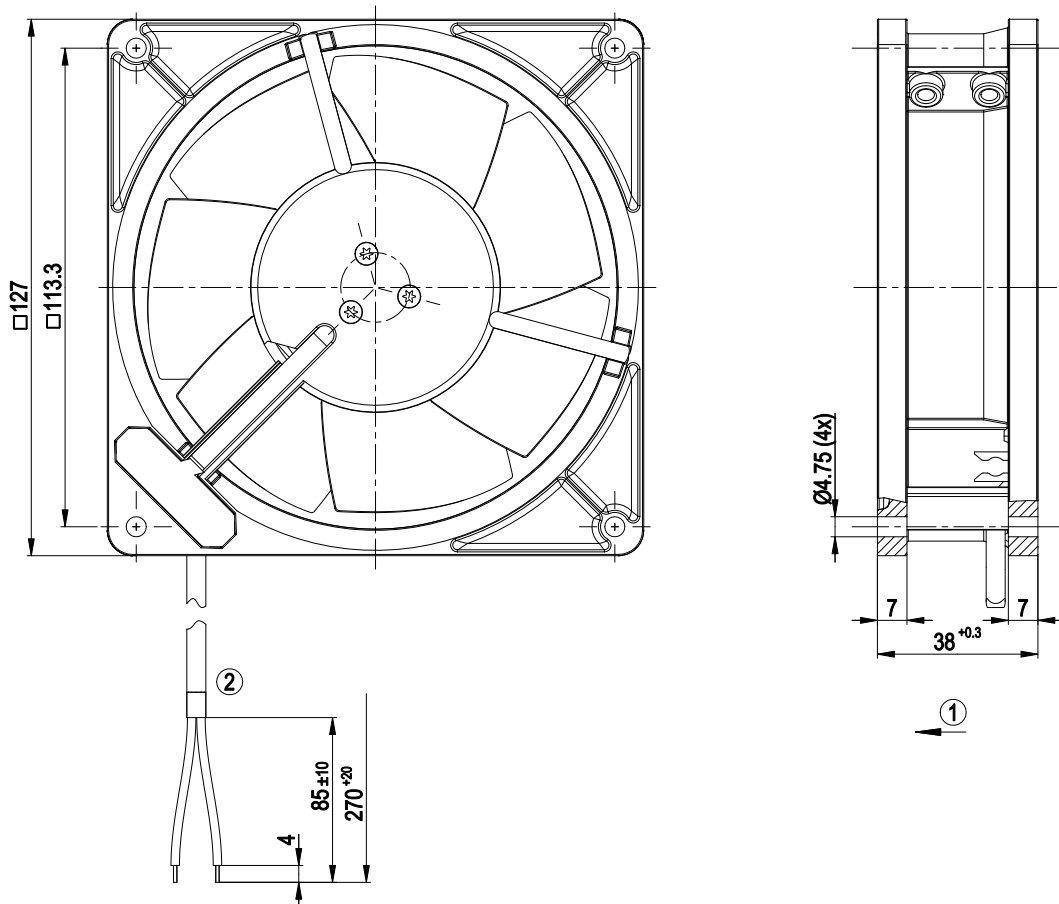


Technical features

| | |
|--|---|
| Mass | 0.54 kg |
| Size | 115 mm |
| Surface of rotor | Coated in black |
| Material of blades | Sheet steel, coated in black |
| Housing material | Die-cast aluminium, coated in black |
| Material of wall ring | Die-cast aluminium, coated in black |
| Number of blades | 7 |
| Direction of air flow | "V" |
| Direction of rotation | Counter-clockwise, seen on rotor |
| Type of protection | IP 22 |
| Max. permissible ambient motor temp. (transp./ storage) | + 80 °C |
| Min. permissible ambient motor temp. (transp./storage) | - 40 °C |
| Mounting position | Any |
| Condensate discharge holes | None |
| Operation mode | S1 |
| Motor bearing | Ball bearing |
| Technical features | - Tach output - Over-temperature protected motor |
| Motor protection | Reverse polarity and locked-rotor protection |
| Protection class | I (if protective earth is connected by customer) |
| Product conforming to standard | EN 60335-1 |
| Approval | UL 507; CSA C22.2 Nr.113 |



Product drawing

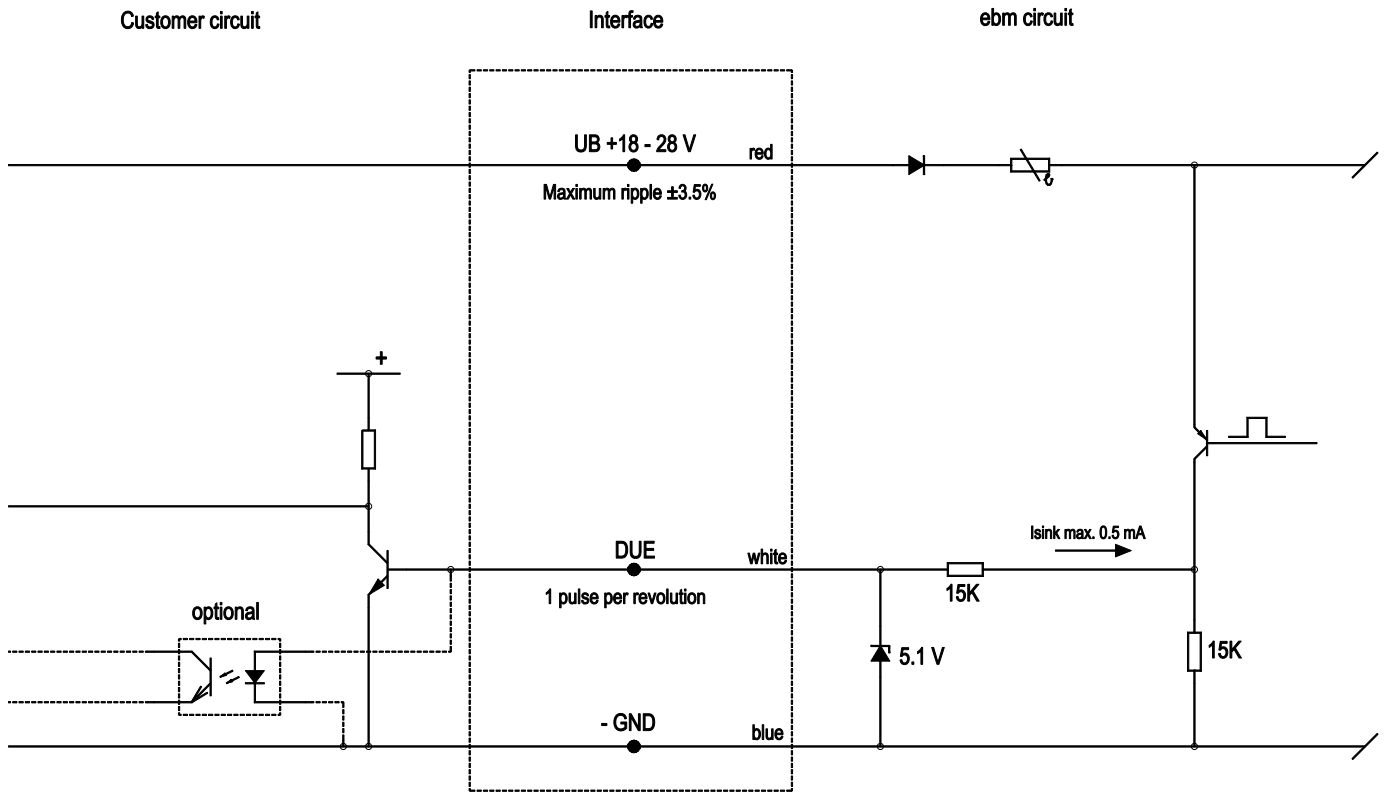


- | | |
|---|--|
| 1 | Direction of air flow "V" |
| 2 | Connection line AWG22 -300V, 3x tin-plated lead tips |

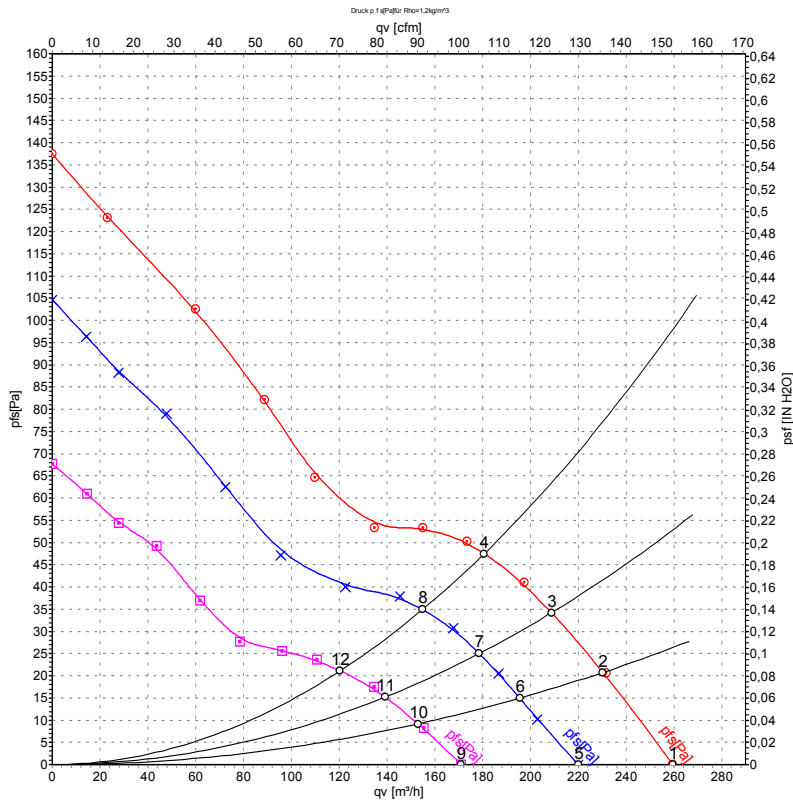
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Connection screen



Charts: Air flow



Measurement: LU-35871
 Measurement: LU-35870
 Measurement: LU-35872

Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebmpapst. 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 | n | P _{ed} | I | qv | p _{fs} |
|----|----|-------------------|-----------------|------|-------------------|-----------------|
| | V | min ⁻¹ | W | A | m ³ /h | Pa |
| 1 | 30 | 3870 | 11 | 0.40 | 260 | 0 |
| 2 | 30 | 3730 | 12 | 0.43 | 230 | 21 |
| 3 | 30 | 3630 | 13 | 0.45 | 210 | 34 |
| 4 | 30 | 3535 | 13 | 0.46 | 180 | 48 |
| 5 | 24 | 3300 | 7.0 | 0.31 | 220 | 0 |
| 6 | 24 | 3170 | 7.6 | 0.33 | 195 | 15 |
| 7 | 24 | 3095 | 7.9 | 0.34 | 180 | 25 |
| 8 | 24 | 3035 | 8.1 | 0.36 | 155 | 35 |
| 9 | 18 | 2590 | 3.5 | 0.20 | 170 | 0 |
| 10 | 18 | 2505 | 3.8 | 0.22 | 155 | 9 |
| 11 | 18 | 2450 | 3.9 | 0.23 | 140 | 15 |
| 12 | 18 | 2410 | 4.1 | 0.23 | 120 | 21 |

U = Supply voltage · n = Speed · P_{ed} = Power input · I = Current draw · qv = Air flow · p_{fs} = Pressure increase

