

EC axial compact fan

sickle-shaped blades (S series)

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Nominal data

| | | |
|--------------------------|-------------------|----------|
| Type | W2G130-AA33-01 | |
| Motor | M2G055-BD | |
| Nominal voltage | VDC | 24 |
| Nominal voltage range | VDC | 16 .. 28 |
| Frequency | Hz | - |
| Method of obtaining data | | fa |
| Speed (rpm) | min ⁻¹ | 3150 |
| Power consumption | W | 16 |
| Current draw | A | 0.74 |
| Min. ambient temperature | °C | -25 |
| Max. ambient temperature | °C | 60 |

ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment
Subject to change



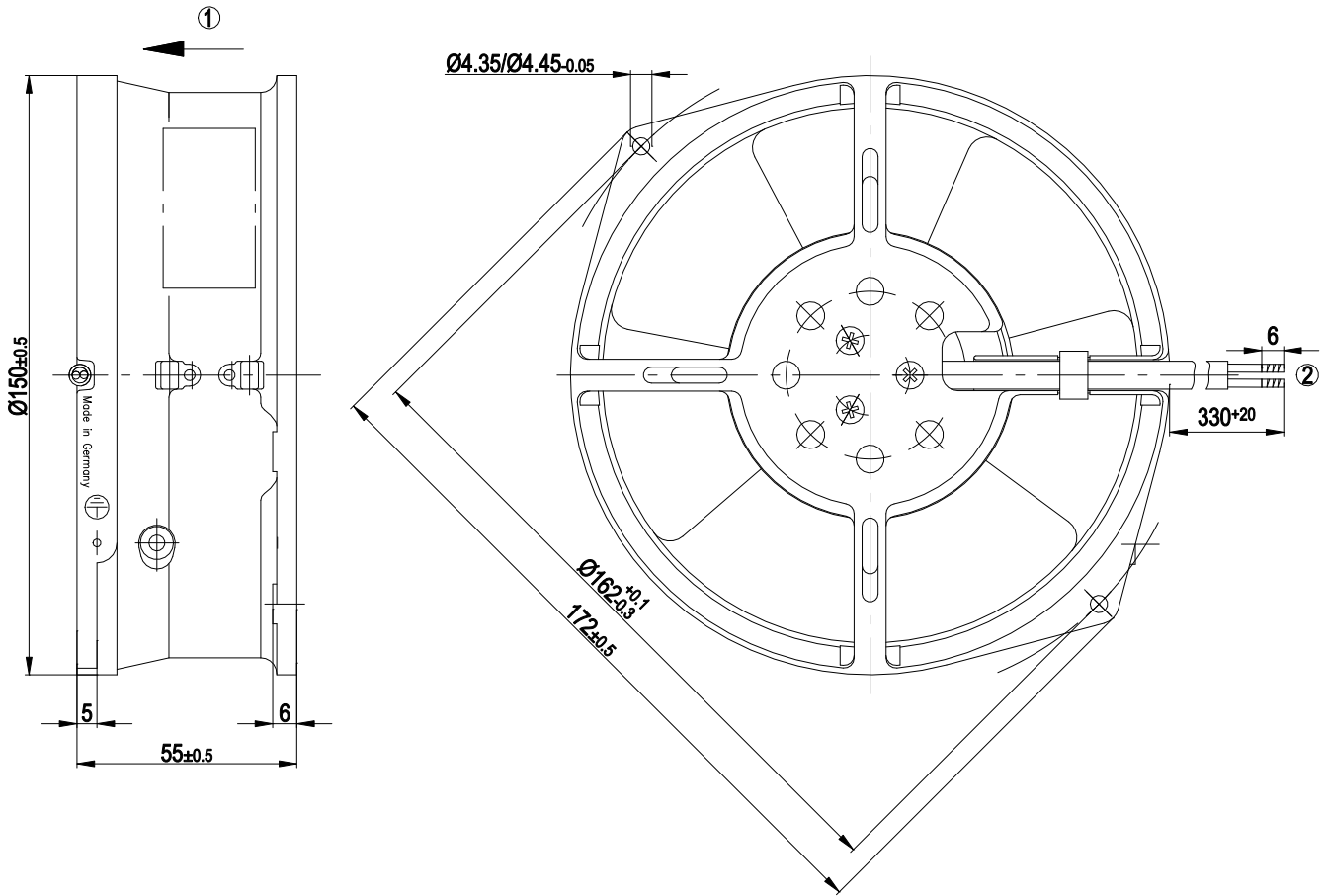
Technical description

| | |
|---|--|
| Weight | 0.9 kg |
| Size | 130 mm |
| Motor size | 55 |
| Rotor surface | Painted black |
| Blade material | Sheet steel, painted black |
| Fan housing material | Die-cast aluminum, painted black |
| Number of blades | 7 |
| Airflow direction | V |
| Direction of rotation | Counterclockwise, viewed toward rotor |
| Degree of protection | IP20 |
| Insulation class | "B" |
| Moisture (F) / Environmental (H) protection class | H0 - dry environment |
| Max. permitted ambient temp. for motor (transport/storage) | + 80 °C |
| Min. permitted ambient temp. for motor (transport/storage) | - 40 °C |
| Installation position | Any |
| Condensation drainage holes | None |
| Mode | S1 |
| Motor bearing | Ball bearing |
| Technical features | - Motor current limitation |
| Motor protection | Reverse polarity and locked-rotor protection |
| Conformity with standards | EN 60335-1 |
| Approval | EAC; UL 507 |

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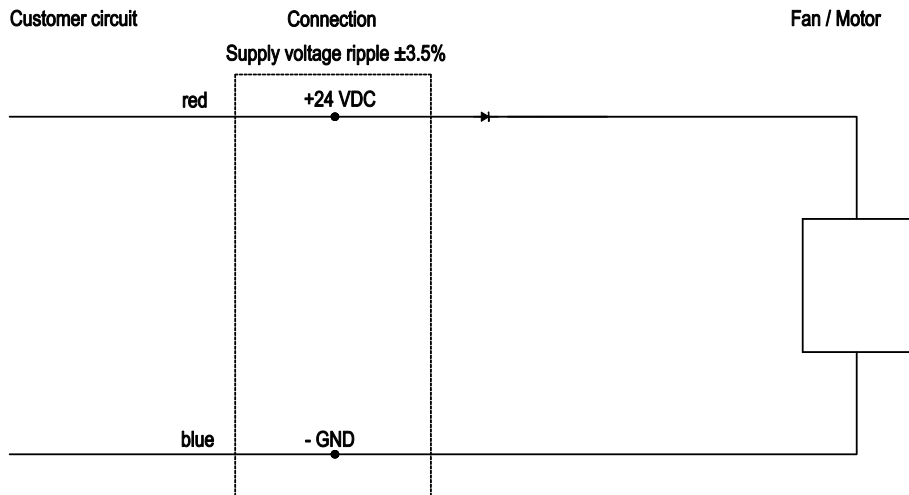
Product drawing



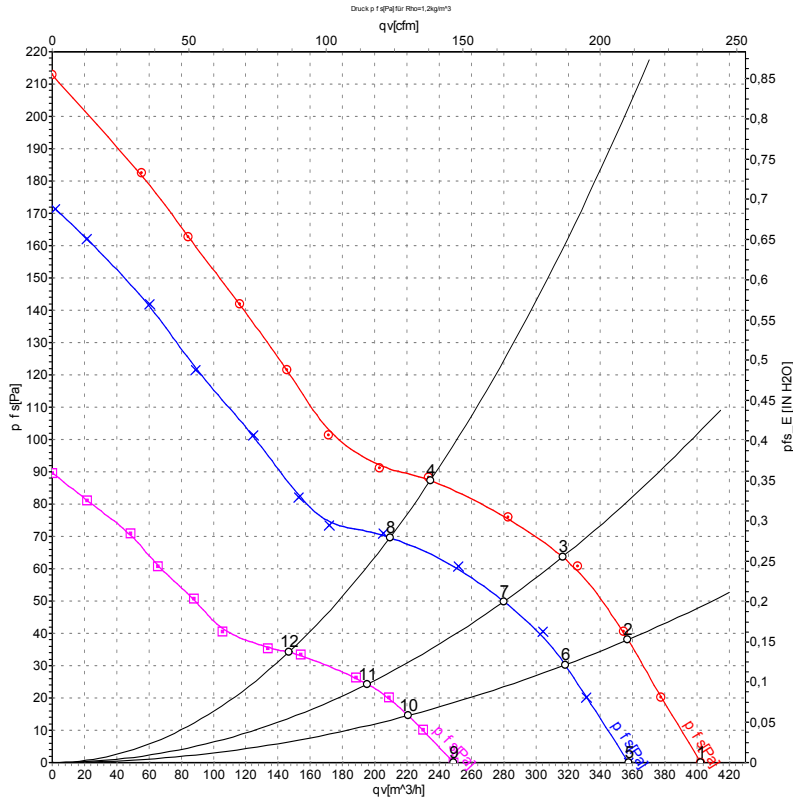
- | | |
|---|---------------------------------|
| 1 | Direction of air flow "V" |
| 2 | Cable AWG20, 2x crimped splices |



Connection diagram



Curves: Air performance



Measurement: LU-47058-1
 Measurement: LU-47057-1
 Measurement: LU-47059-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters have to be checked on the installed unit.

Measured values

| | U | n | P _{ed} | I | q _v | p _{fs} | q _v | p _{fs} |
|----|----|-------------------|-----------------|------|-------------------|-----------------|----------------|-----------------|
| | V | min ⁻¹ | W | A | m ³ /h | Pa | cfm | in. wg |
| 1 | 28 | 3555 | 21 | 0.80 | 400 | 0 | 235 | 0.00 |
| 2 | 28 | 3490 | 22 | 0.82 | 355 | 38 | 210 | 0.15 |
| 3 | 28 | 3430 | 23 | 0.84 | 315 | 64 | 185 | 0.26 |
| 4 | 28 | 3400 | 23 | 0.86 | 235 | 88 | 140 | 0.35 |
| 5 | 24 | 3150 | 16 | 0.74 | 360 | 0 | 210 | 0.00 |
| 6 | 24 | 3105 | 17 | 0.75 | 320 | 30 | 185 | 0.12 |
| 7 | 24 | 3060 | 17 | 0.76 | 280 | 50 | 165 | 0.20 |
| 8 | 24 | 3040 | 17 | 0.77 | 210 | 70 | 125 | 0.28 |
| 9 | 16 | 2210 | 6.7 | 0.58 | 250 | 0 | 145 | 0.00 |
| 10 | 16 | 2180 | 7.0 | 0.59 | 220 | 15 | 130 | 0.06 |
| 11 | 16 | 2160 | 7.3 | 0.60 | 195 | 24 | 115 | 0.10 |
| 12 | 16 | 2155 | 7.3 | 0.60 | 145 | 34 | 85 | 0.14 |

U = Voltage · n = Speed (rpm) · P_{ed} = Power consumption · I = Current draw · q_v = Air flow · p_{fs} = Pressure increase

