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Amtsgericht (court of registration) Stuttgart · HRB 590142

Nominal data

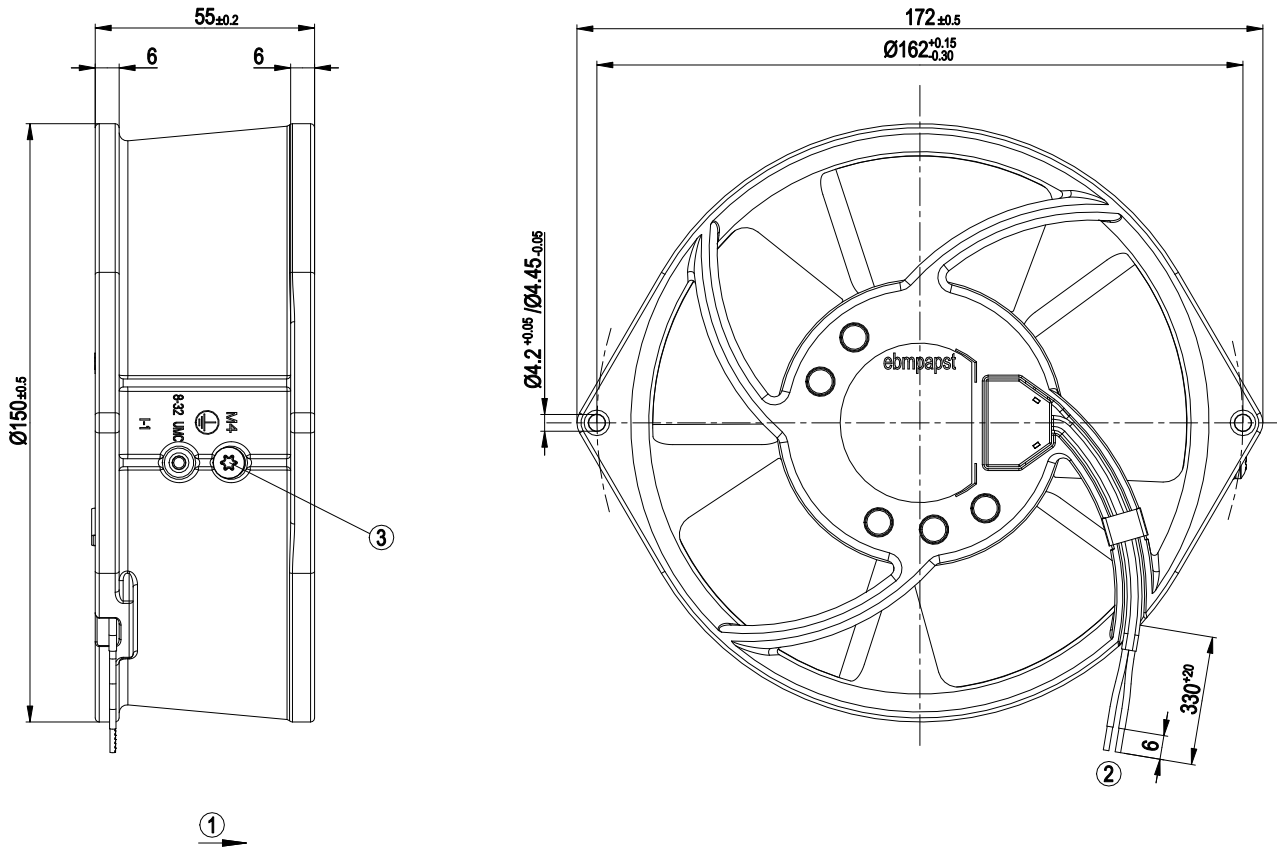
| | | | |
|-----------------------------|-----------------------|------|------|
| Type | W2S130-BM15-01 | | |
| Motor | M2S052-CA | | |
| Phase | | 1~ | 1~ |
| Nominal voltage | VAC | 115 | 115 |
| Frequency | Hz | 50 | 60 |
| Method of obtaining data | | fa | fa |
| Valid for approval/standard | | CE | CE |
| Speed (rpm) | min ⁻¹ | 2700 | 3050 |
| Power consumption | W | 47 | 46 |
| Current draw | A | 0.63 | 0.55 |
| Min. ambient temperature | °C | -25 | -25 |
| Max. ambient temperature | °C | 50 | 70 |
| Starting current | A | 0.98 | 0.83 |

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

Technical description

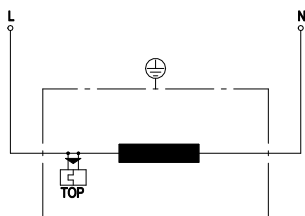
| | |
|--|--|
| Weight | 1.1 kg |
| Fan size | 130 mm |
| Rotor surface | Painted black |
| Blade material | Sheet steel, painted black |
| Housing material | Die-cast aluminum, painted black |
| Number of blades | 5 |
| Airflow direction | "A" |
| Direction of rotation | Counterclockwise, viewed toward rotor |
| Degree of protection | IP20 |
| Insulation class | "B" |
| 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, open rotor |
| Mode | S1 |
| Motor bearing | Ball bearing |
| Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system) | < 0.75 mA |
| Motor protection | Thermal overload protector (TOP) internally connected |
| Protection class | I (if protective earth is connected by customer to the housing's connection point) |
| Conformity with standards | EN 60335-1; CE |
| Approval | UL 507; EAC; VDE; CSA C22.2 No. 113 |

Product drawing



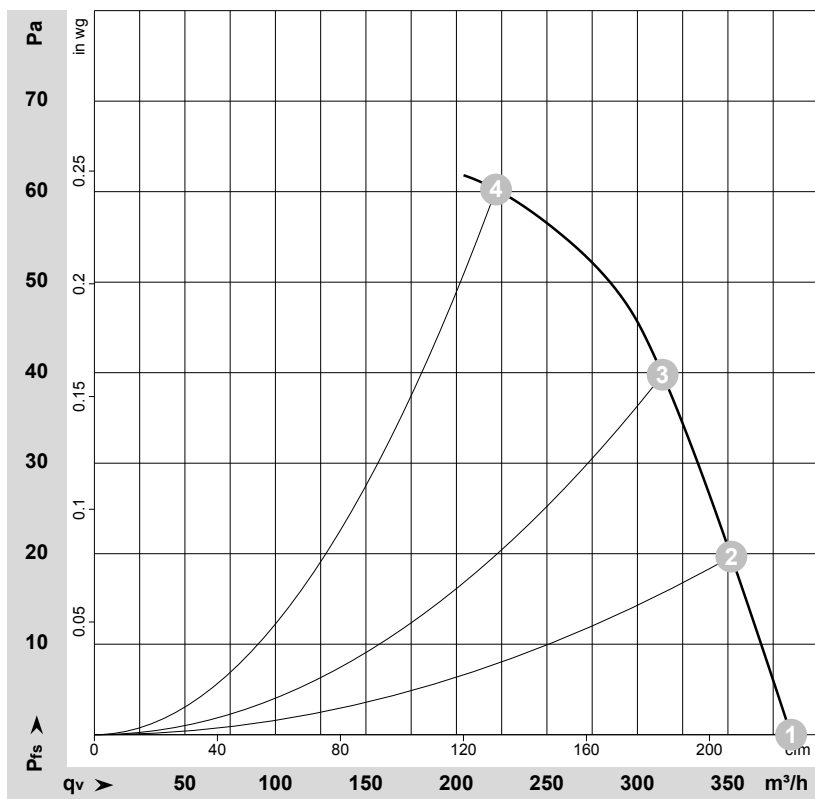
| | |
|---|---|
| 1 | Direction of air flow "A" |
| 2 | Cable AWG20, 2x crimped splices |
| 3 | M4 screw for fastening ground connector |

Connection diagram



| | |
|-----|------------------------------|
| L | = black |
| N | = black |
| TOP | = thermal overload protector |

Curves: Air performance 50 Hz



$\rho = 1.15 \text{ kg/m}^3 \pm 2 \%$

Measurement: LU-57289-1

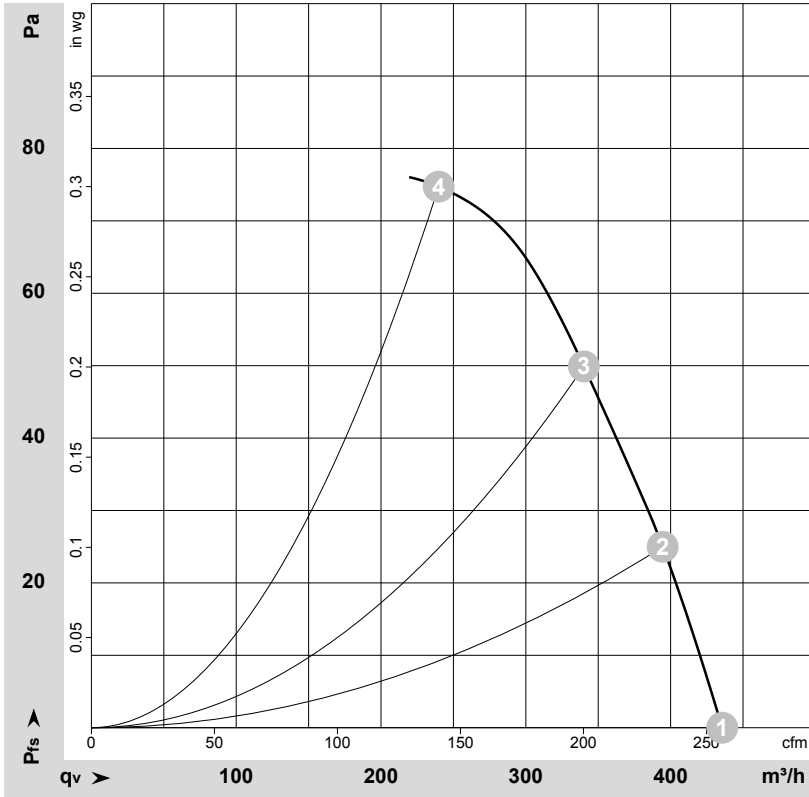
Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the 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 | f | n | P _e | I | qv | p _{fs} | qv | p _{fs} |
|---|-----|----|-------------------|----------------|------|-------------------|-----------------|-----|--------------------|
| | V | Hz | min ⁻¹ | W | A | m ³ /h | Pa | CFM | inH ₂ O |
| 1 | 115 | 50 | 2700 | 47 | 0.63 | 385 | 0 | 225 | 0.00 |
| 2 | 115 | 50 | 2755 | 46 | 0.62 | 350 | 20 | 205 | 0.08 |
| 3 | 115 | 50 | 2735 | 48 | 0.62 | 315 | 40 | 185 | 0.16 |
| 4 | 115 | 50 | 2730 | 47 | 0.61 | 220 | 60 | 130 | 0.24 |

U = Power supply · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · qv = Air flow · p_{fs} = Pressure increase

Curves: Air performance 60 Hz



$\rho = 1.15 \text{ kg/m}^3 \pm 2 \%$

Measurement: LU-57288-1

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 | f | n | P _e | I | qv | p _{fs} | qv | p _{fs} |
|---|-----|----|-------------------|----------------|------|-------------------|-----------------|-----|--------------------|
| | V | Hz | min ⁻¹ | W | A | m ³ /h | Pa | CFM | inH ₂ O |
| 1 | 115 | 60 | 3050 | 46 | 0.55 | 435 | 0 | 255 | 0.00 |
| 2 | 115 | 60 | 3060 | 49 | 0.56 | 395 | 25 | 230 | 0.10 |
| 3 | 115 | 60 | 3000 | 50 | 0.58 | 340 | 50 | 200 | 0.20 |
| 4 | 115 | 60 | 2990 | 51 | 0.58 | 240 | 75 | 140 | 0.30 |

U = Power supply · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · qv = Air flow · p_{fs} = Pressure increase

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