**W1G200-EC91-54**

# EC axial fan - ESM

sickle-shaped blades (S series), single-intake

ESM fan housing

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## Nominal data

| | |
|---|---|
| **Type** | **W1G200-EC91-54** |
| **Motor** | **M1G055-BD** |

| | | |
|---|---|---|
| Phase | | 1~ |
| Nominal voltage | VAC | 230 |
| Frequency | Hz | 50/60 |
| Method of obtaining data | | ml |
| Speed | $min^{-1}$ | 1500 |
| Power consumption | W | 15 |
| Current draw | A | 0.12 |
| Max. back pressure | Pa | 29 |
| Min. ambient temperature | °C | -30 |
| Max. ambient temperature | °C | 50 |

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

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## Technical description

| | |
|---|---|
| **Weight** | 0.9 kg |
| **Fan size** | 200 mm |
| **Blade material** | PA plastic |
| **Fan housing material** | PP plastic |
| **Number of blades** | 5 |
| **Airflow direction** | "V" |
| **Direction of rotation** | Counterclockwise, viewed toward rotor |
| **Degree of protection** | IP54 |
| **Insulation class** | "B" |
| **Moisture (F) / Environmental (H) protection class** | H1 |
| **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 storage** | Ball bearing |
| **Technical features** | - ESM+ expandable with plug-in module<br>- Soft start<br>- Thermal overload protection for motor |
| **Motor protection** | Thermal overload protector (TOP) internally connected |
| **With cable** | Lateral |
| **Protection class** | II |
| **Conformity with standards** | EN 60335-1; CE |
| **Approval** | CSA C22.2 No. 77; EAC; UL 1004-3; VDE |



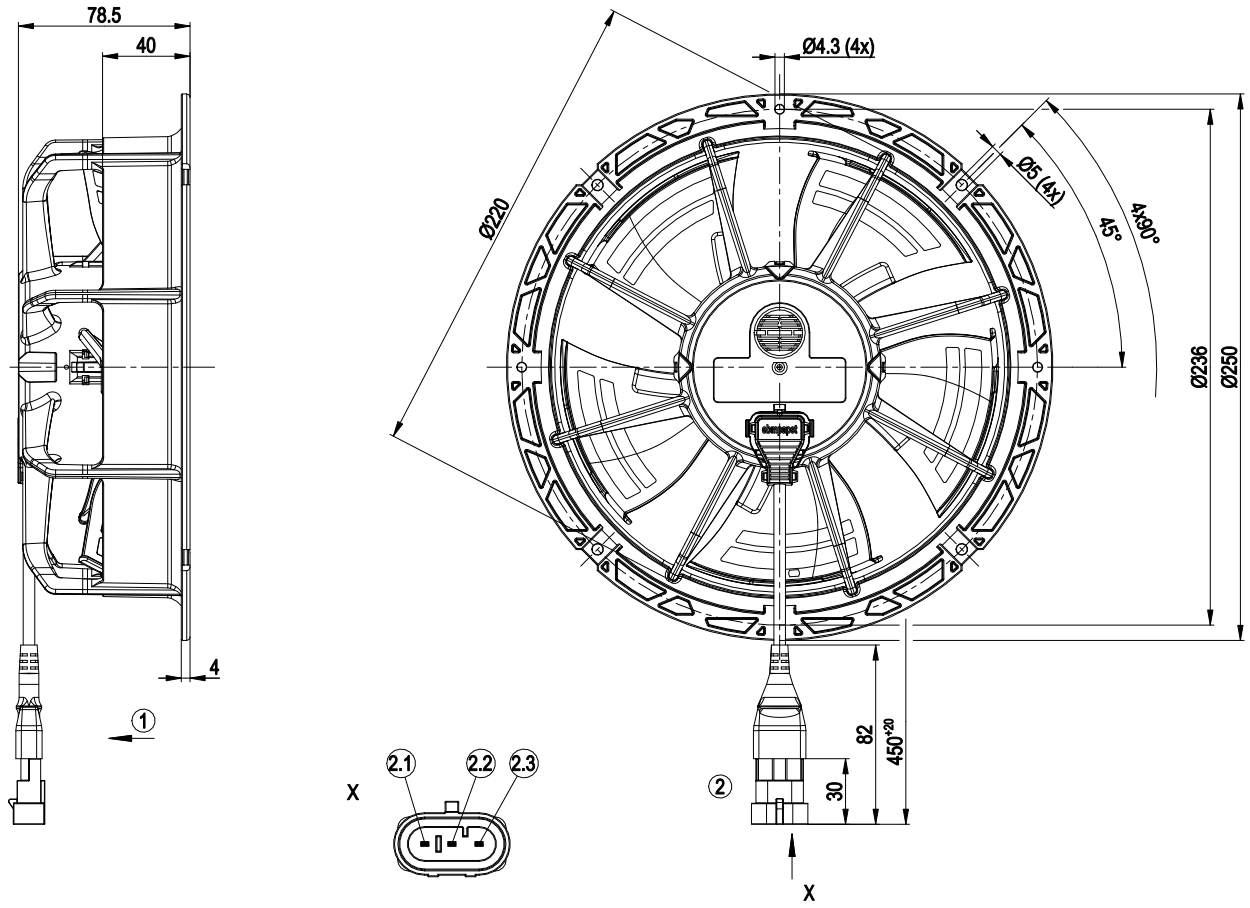
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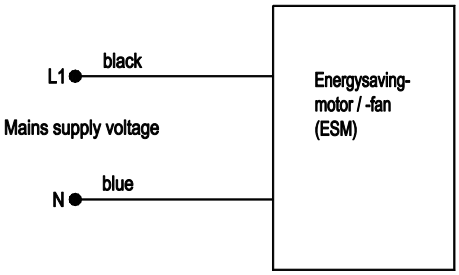
ESM fan housing

## Product drawing




| | |
|---|---|
| 1 | Direction of air flow "V" |
| 2 | Cable PVC AWG20, 1x tyco connector 1745082-1 |
| 2.1 | not used |
| 2.2 | N (blue) |
| 2.3 | L (black) |

## Connection diagram





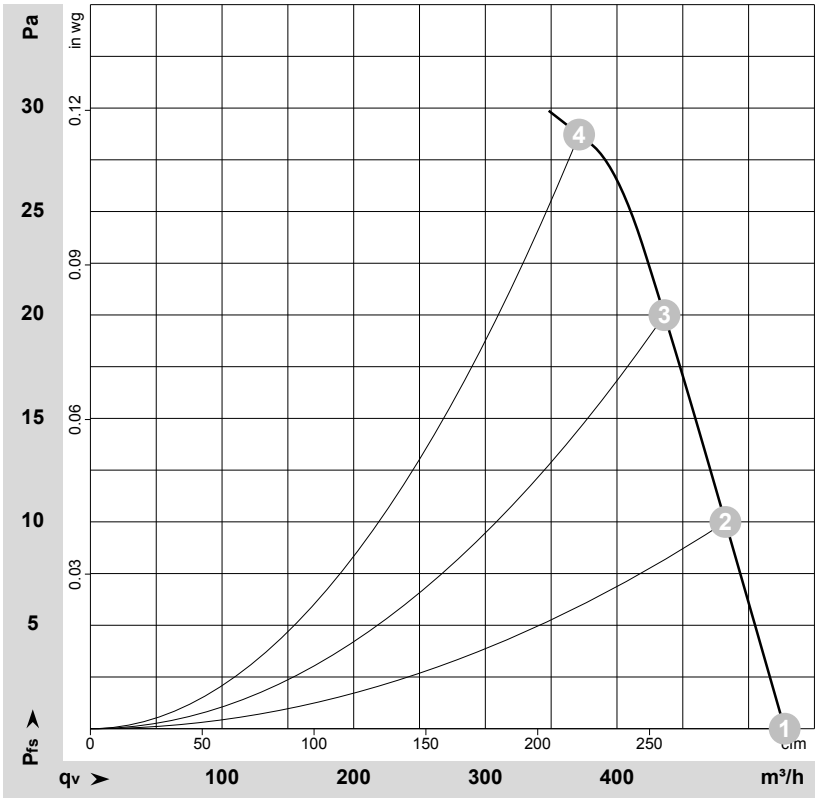

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## Curves: Air performance 50 Hz




ρ = 1,15 kg/m³ ± 2%

Measurement: LU-113352

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 | $P_{ed}$ | I | $LpA_{in}$ | $LwA_{in}$ | qv | $p_{fs}$ |
|---|---|---|---|---|---|---|---|---|---|
| | V | Hz | $min^{-1}$ | W | A | dB(A) | dB(A) | $m^3/h$ | Pa |
| 1 | 230 | 50 | 1500 | 14 | 0.11 | 46 | 54 | 525 | 0 |
| 2 | 230 | 50 | 1500 | 15 | 0.12 | 46 | 54 | 480 | 10 |
| 3 | 230 | 50 | 1500 | 15 | 0.12 | 46 | 53 | 435 | 20 |
| 4 | 230 | 50 | 1500 | 15 | 0.12 | 47 | 56 | 370 | 29 |

U = Power supply · f = Frequency · n = Speed · $P_{ed}$ = Power consumption · I = Current draw · $LpA_{in}$ = Sound pressure level intake side · $LwA_{in}$ = Sound power level intake side
qv = Air flow · $p_{fs}$ = Pressure increase



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