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## Nominal data

|                          |                   |          |
|--------------------------|-------------------|----------|
| Type                     | W2G130-AA33-20    |          |
| Motor                    | M2G055-BD         |          |
| Phase                    |                   | DC       |
| Nominal voltage          | VDC               | 24       |
| Nominal voltage range    | VDC               | 16 .. 28 |
| Frequency                | Hz                | -        |
| Method of obtaining data |                   | fa       |
| Speed (rpm)              | min <sup>-1</sup> | 3150     |
| Power consumption        | W                 | 16       |
| Current draw             | A                 | 0.74     |
| Min. ambient temperature | °C                | -25      |
| Max. ambient temperature | °C                | 60       |

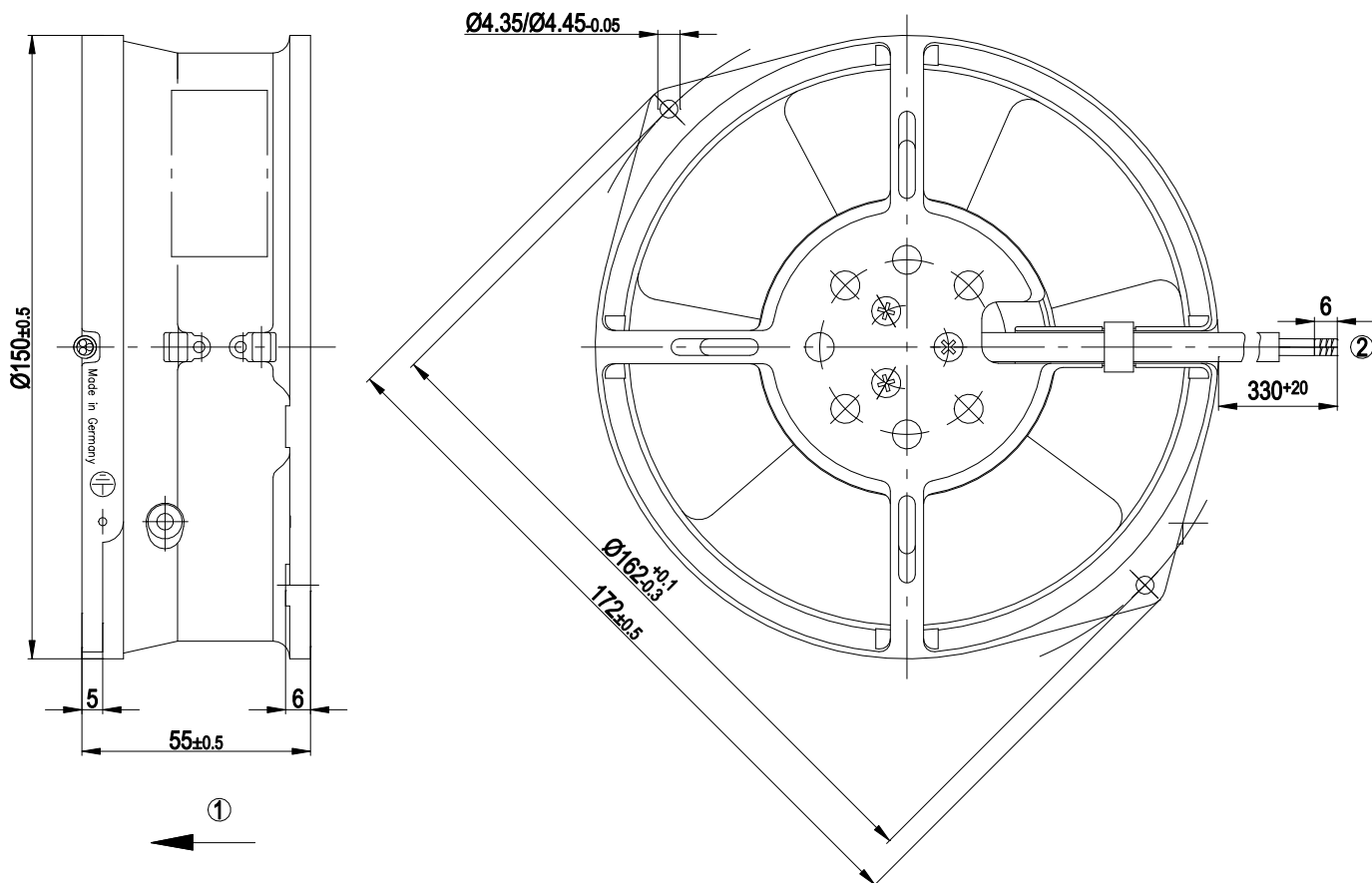
ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment  
Subject to change



## Technical description

|                                                            |                                              |
|------------------------------------------------------------|----------------------------------------------|
| Weight                                                     | 0.9 kg                                       |
| Fan size                                                   | 130 mm                                       |
| 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"                                          |
| 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                                         | - Tach output<br>- Motor current limitation  |
| Motor protection                                           | Reverse polarity and locked-rotor protection |
| Conformity with standards                                  | EN 60335-1                                   |
| Approval                                                   | CSA C22.2 No. 113; UL 507; EAC               |

## Product drawing

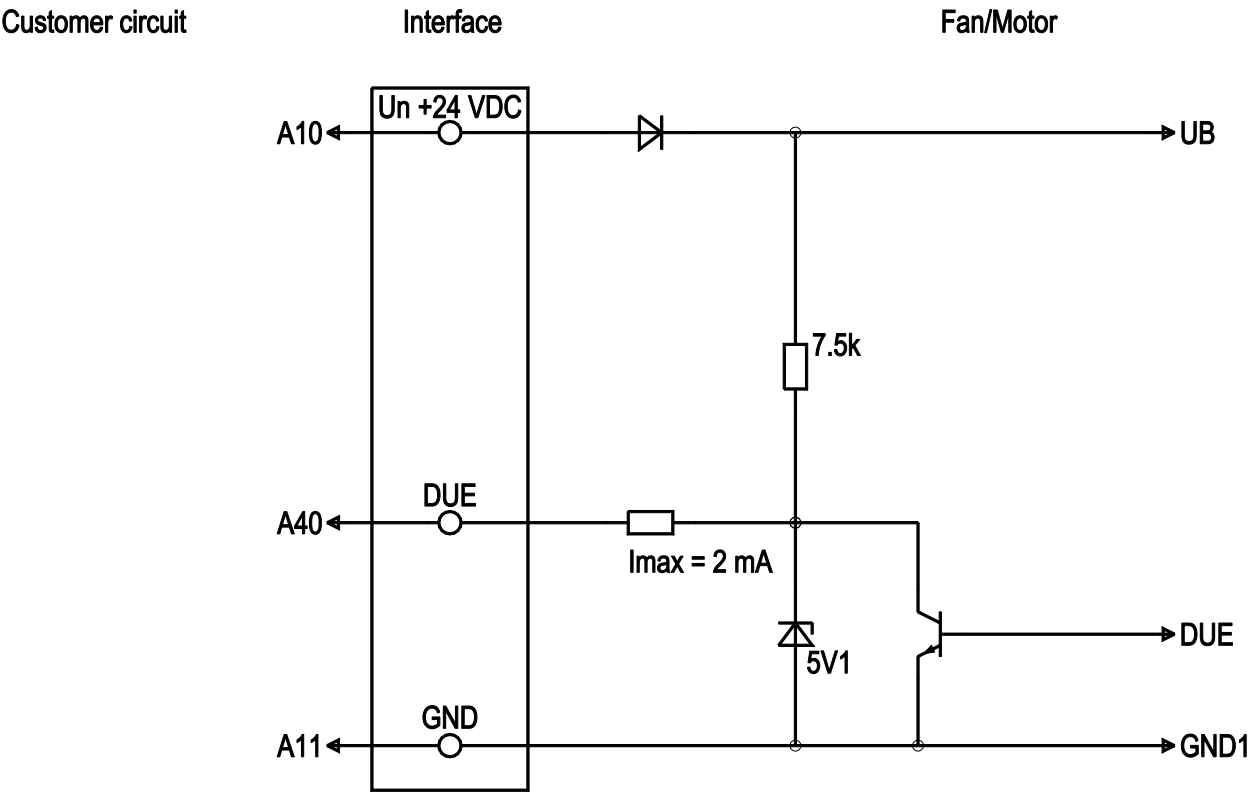


- |   |                                 |
|---|---------------------------------|
| 1 | Airflow direction "V"           |
| 2 | Cable AWG20, 3x crimped splices |

# EC axial compact fan

sickle-shaped blades (S series)

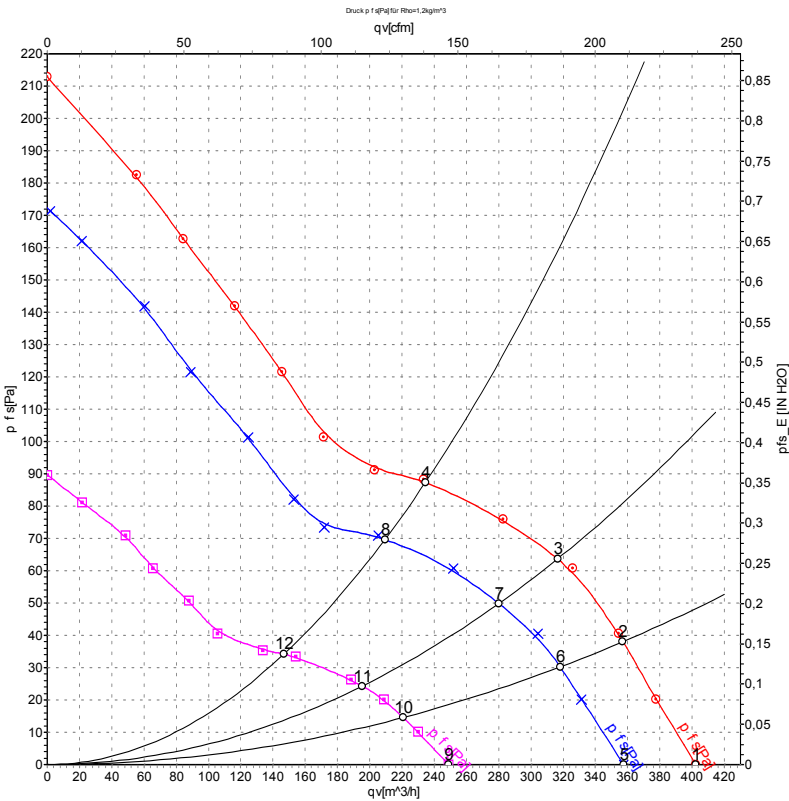
Connection diagram



| No. | Conn. | Designation | Color | Function/assignment                                                       |
|-----|-------|-------------|-------|---------------------------------------------------------------------------|
|     | A10   | +24 VDC     | red   | Power supply 24 VDC, see nameplate for voltage range, maximum ripple 3.5% |
|     | A40   | Tach        | white | Speed monitoring, 2 pulses per revolution, Isource max. 2 mA/optional     |
|     | A11   | GND         | blue  | Reference ground                                                          |



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 <sub>ed</sub> | I    | q <sub>v</sub> | p <sub>fs</sub> | q <sub>v</sub> | p <sub>fs</sub> |
|----|----|-------------------|-----------------|------|----------------|-----------------|----------------|-----------------|
|    | V  | min <sup>-1</sup> | W               | A    | m³/h           | Pa              | cfm            | inH2O           |
| 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 = Power supply · n = Speed (rpm) · P<sub>ed</sub> = Power consumption · I = Current draw · q<sub>v</sub> = Air flow · p<sub>fs</sub> = Pressure increase



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