

K3G200-AC56-13 ebmpapst Datasheet

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## Nominal data

|                          |                   |            |
|--------------------------|-------------------|------------|
| Type                     | K3G200-AC56-13    |            |
| Motor                    | M3G084-CA         |            |
| Phase                    |                   | 1~         |
| Nominal voltage          | VAC               | 230        |
| Nominal voltage range    | VAC               | 200 .. 240 |
| Frequency                | Hz                | 50/60      |
| Method of obtaining data |                   | ml         |
| Speed (rpm)              | min <sup>-1</sup> | 6500       |
| Power consumption        | W                 | 850        |
| Current draw             | A                 | 4.3 (200V) |
| Min. ambient temperature | °C                | 10         |
| Max. ambient temperature | °C                | 56         |

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

## Data according to ErP Directive

|                                   |   | Actual | Req. 2015 |
|-----------------------------------|---|--------|-----------|
| 01 Overall efficiency $\eta_{es}$ | % | 38.2   | 38.2      |
| 02 Measurement category           |   | A      |           |
| 03 Efficiency category            |   | Static |           |
| 04 Efficiency grade N             |   | 50     | 50        |
| 05 Variable speed drive           |   | Yes    |           |

Data obtained at optimum efficiency level.

The ErP data is determined using a motor-impeller combination in a standardized measurement setup.

|                               |                   |      |
|-------------------------------|-------------------|------|
| 09 Power consumption $P_{ed}$ | kW                | 0.76 |
| 09 Air flow $q_v$             | m <sup>3</sup> /h | 805  |
| 09 Pressure increase $p_{fs}$ | Pa                | 1170 |
| 10 Speed (rpm) n              | min <sup>-1</sup> | 6515 |
| 11 Specific ratio*            |                   | 1.01 |

\* Specific ratio =  $1 + p_{fs} / 100\,000\text{ Pa}$ 

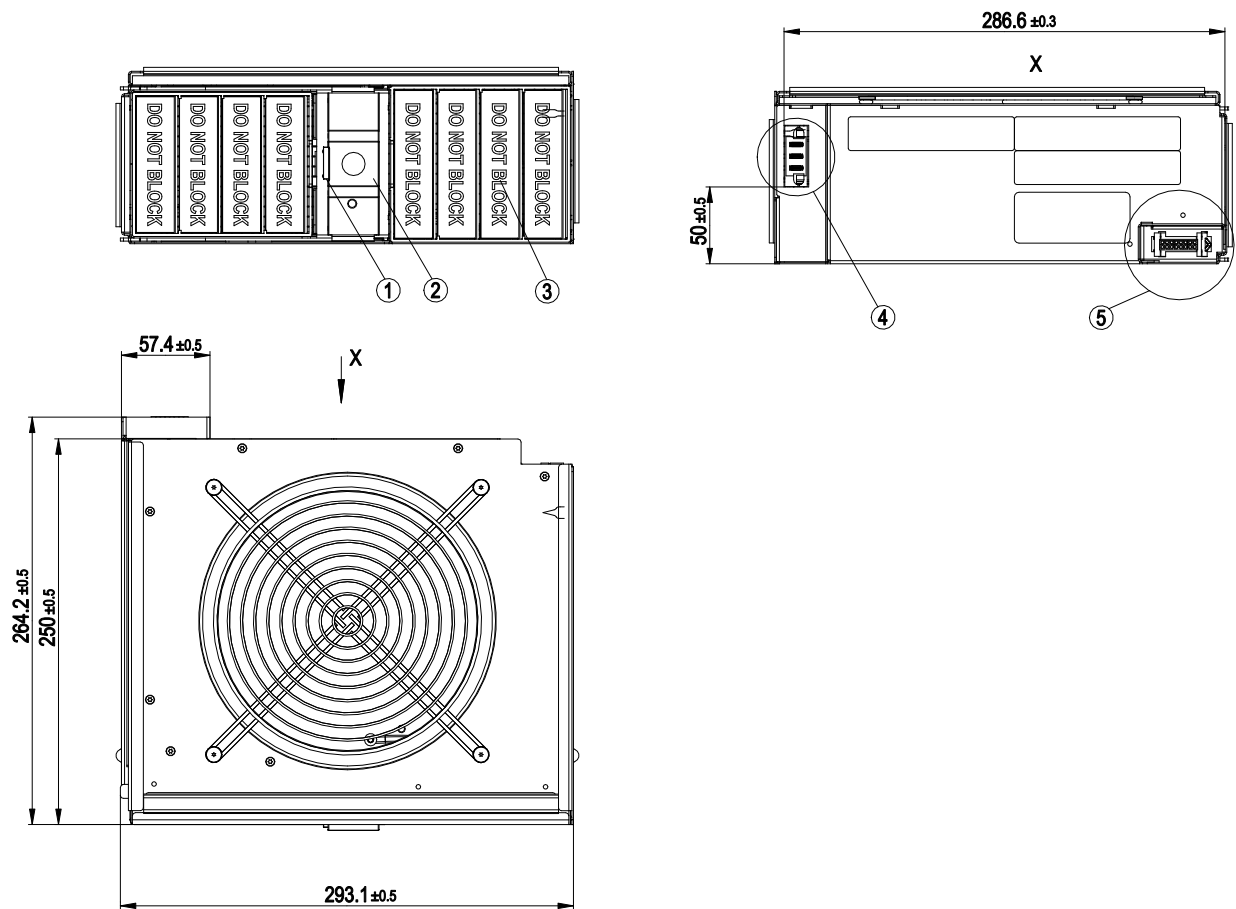
LU-131549



## Technical description

|                                                                            |                                                      |
|----------------------------------------------------------------------------|------------------------------------------------------|
| Weight                                                                     | 5.7 kg                                               |
| Fan size                                                                   | 200 mm                                               |
| Rotor surface                                                              | Painted black                                        |
| Impeller material                                                          | PA plastic                                           |
| Housing material                                                           | Sheet steel, galvanized                              |
| Guard grille material                                                      | Steel, coated with white-aluminum plastic (RAL 9006) |
| Number of blades                                                           | 7                                                    |
| Direction of rotation                                                      | Clockwise, viewed toward rotor                       |
| Degree of protection                                                       | IP20                                                 |
| Insulation class                                                           | "B"                                                  |
| Moisture (F) / Environmental (H) protection class                          | F0                                                   |
| Max. permitted ambient temp. for motor (transport/storage)                 | +60 °C                                               |
| Min. permitted ambient temp. for motor (transport/storage)                 | -40 °C                                               |
| Installation position                                                      | Rotor on top; rotor on bottom                        |
| Condensation drainage holes                                                | None                                                 |
| Mode                                                                       | S1                                                   |
| Motor bearing                                                              | Ball bearing                                         |
| Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system) | < 0.75 mA                                            |
| Protection class                                                           | I (with customer connection of protective earth)     |
| Conformity with standards                                                  | CE                                                   |
| Approval                                                                   | CCC; UL 507; CSA C22.2 No. 113                       |

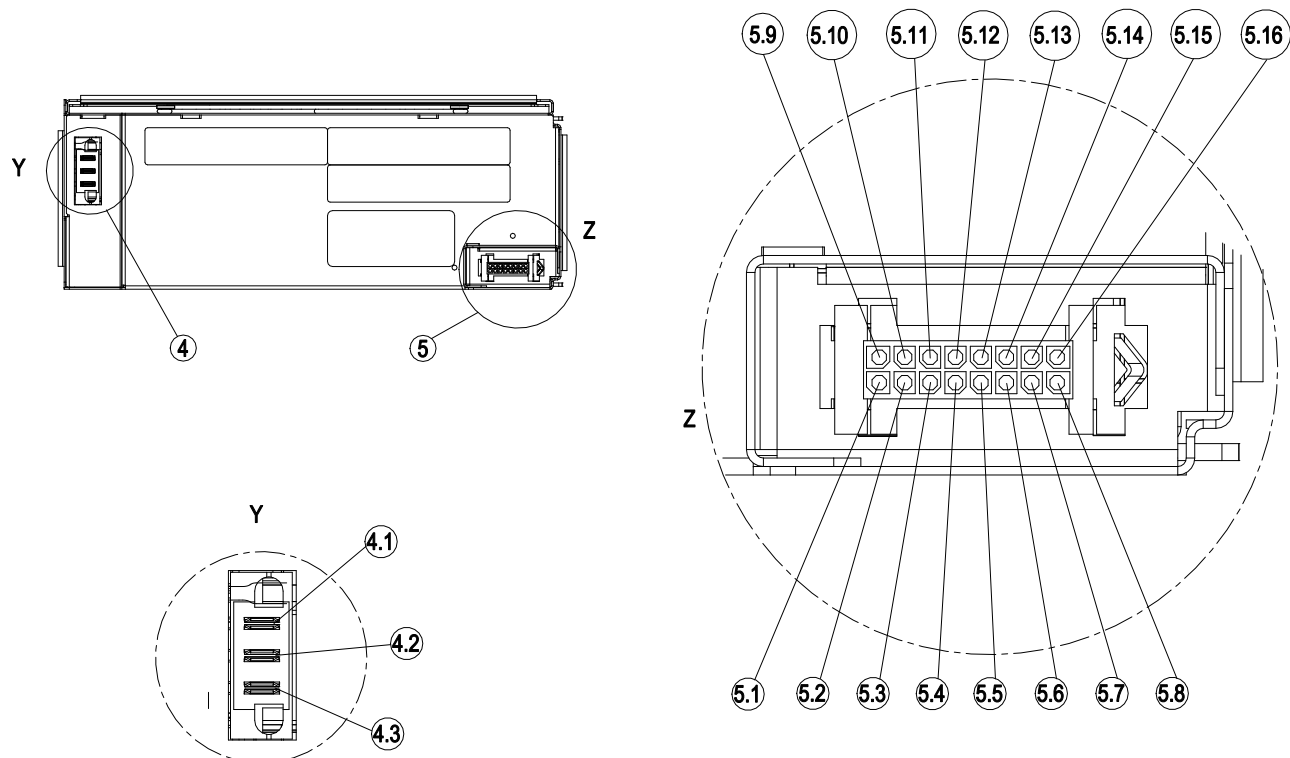
Product drawing



|   |                                                                             |
|---|-----------------------------------------------------------------------------|
| X | View                                                                        |
| Y | Detail view                                                                 |
| Z | Detail view                                                                 |
| 1 | Quick release                                                               |
| 2 | Handle                                                                      |
| 3 | Non-return valve (8x)                                                       |
| 4 | Connector housing FCI 51939-081LF/tyco 6450123-3                            |
| 5 | Connector housing Molex no. 44133-1601 with 16x socket Molex no. 43030-0003 |

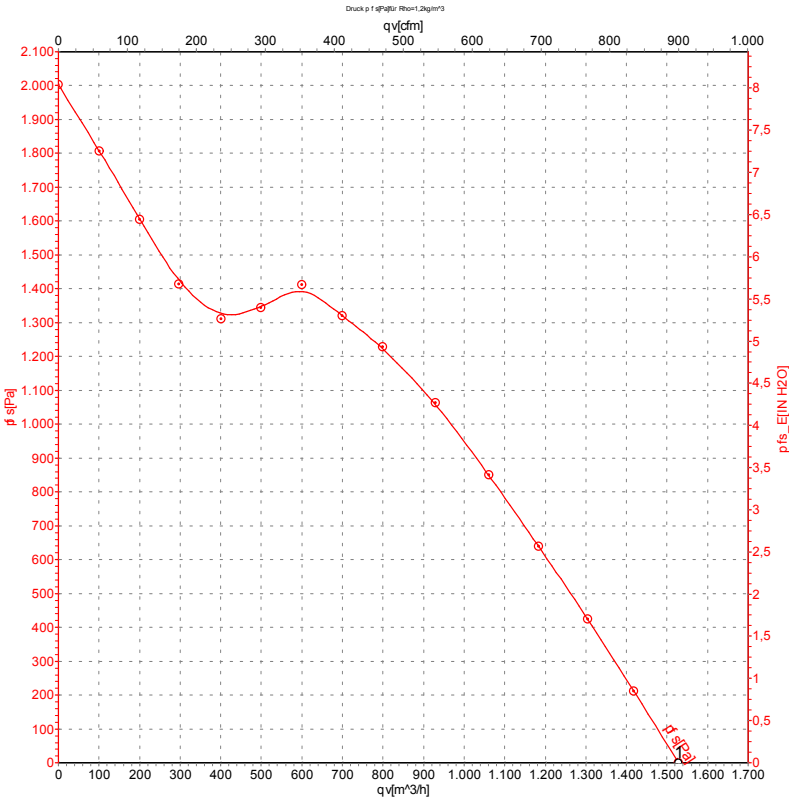


## Connection diagram



|      |                         |
|------|-------------------------|
| 4.1  | L (secured)             |
| 4.2  | GND                     |
| 4.3  | N                       |
| 5.1  | 5 V A                   |
| 5.2  | I²C reset               |
| 5.3  | I²C A program interrupt |
| 5.4  | I²C A SDA               |
| 5.5  | I²C A SCL               |
| 5.6  | MM selection A          |
| 5.7  | Tach output             |
| 5.8  | GND                     |
| 5.9  | GND                     |
| 5.10 | Control input           |
| 5.11 | I²C B program interrupt |
| 5.12 | I²C B SDA               |
| 5.13 | I²C B SCL               |
| 5.14 | MM selection B          |
| 5.15 | Speed input             |
| 5.16 | 5 V B                   |

Curves: Air performance



Measurement: LU-127451-1

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    | LpA <sub>in</sub> | LwA <sub>in</sub> | qv                | qv  | p <sub>fs</sub>    |
|---|-----|-------------------|-----------------|------|-------------------|-------------------|-------------------|-----|--------------------|
|   | V   | min <sup>-1</sup> | W               | A    | dB(A)             | dB(A)             | m <sup>3</sup> /h | CFM | inH <sub>2</sub> O |
| 1 | 230 | 6500              | 850             | 3.75 | 87                | 95                | 1530              | 900 | 0.00               |

U = Power supply · n = Speed (rpm) · P<sub>ed</sub> = Power consumption · I = Current draw · LpA<sub>in</sub> = Sound pressure level intake side · LwA<sub>in</sub> = Sound power level intake side · qv = Air flow

