

G1G126-AA49-59

# EC centrifugal fan

forward-curved, single-intake  
with housing (flange), Gas blower for condensing boilers



G1G126-AA49-59 ebmpapst Datasheet  
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## Nominal data

|                           |                   |       |
|---------------------------|-------------------|-------|
| Type                      | G1G126-AA49-59    |       |
| Motor                     | M1G055-BD         |       |
| Phase                     |                   | 1~    |
| Nominal voltage           | VAC               | 230   |
| Frequency                 | Hz                | 50/60 |
| Method of obtaining data  |                   | fa    |
| Speed (rpm)               | min <sup>-1</sup> | 5000  |
| Power consumption         | W                 | 75    |
| Current draw              | A                 | -     |
| Min. ambient temperature  | °C                | -25   |
| Max. ambient temperature  | °C                | 70    |
| Min. temp. of flow medium | °C                | -25   |
| Max. temp. of flow medium | °C                | 80    |

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                                                                     | 1.4 kg                                               |
| Fan size                                                                   | 126 mm                                               |
| Rotor surface                                                              | Thick-film passivated                                |
| Cover material                                                             | PP plastic                                           |
| Impeller material                                                          | PA plastic                                           |
| Housing material                                                           | Die-cast aluminum                                    |
| Direction of rotation                                                      | Clockwise, 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                                                  |
| Mode                                                                       | S1                                                   |
| Premixing                                                                  | Not suitable for premixing.                          |
| Motor bearing                                                              | Ball bearing                                         |
| Technical features                                                         | - Motor current limitation<br>- PWM control input    |
| Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system) | <= 3.5 mA                                            |
| Motor protection                                                           | Reverse polarity and locked-rotor protection         |
| Conformity with standards                                                  | CE                                                   |
| Approval                                                                   | EAC                                                  |
| Comment                                                                    | Complete unit must be tested for required approvals. |

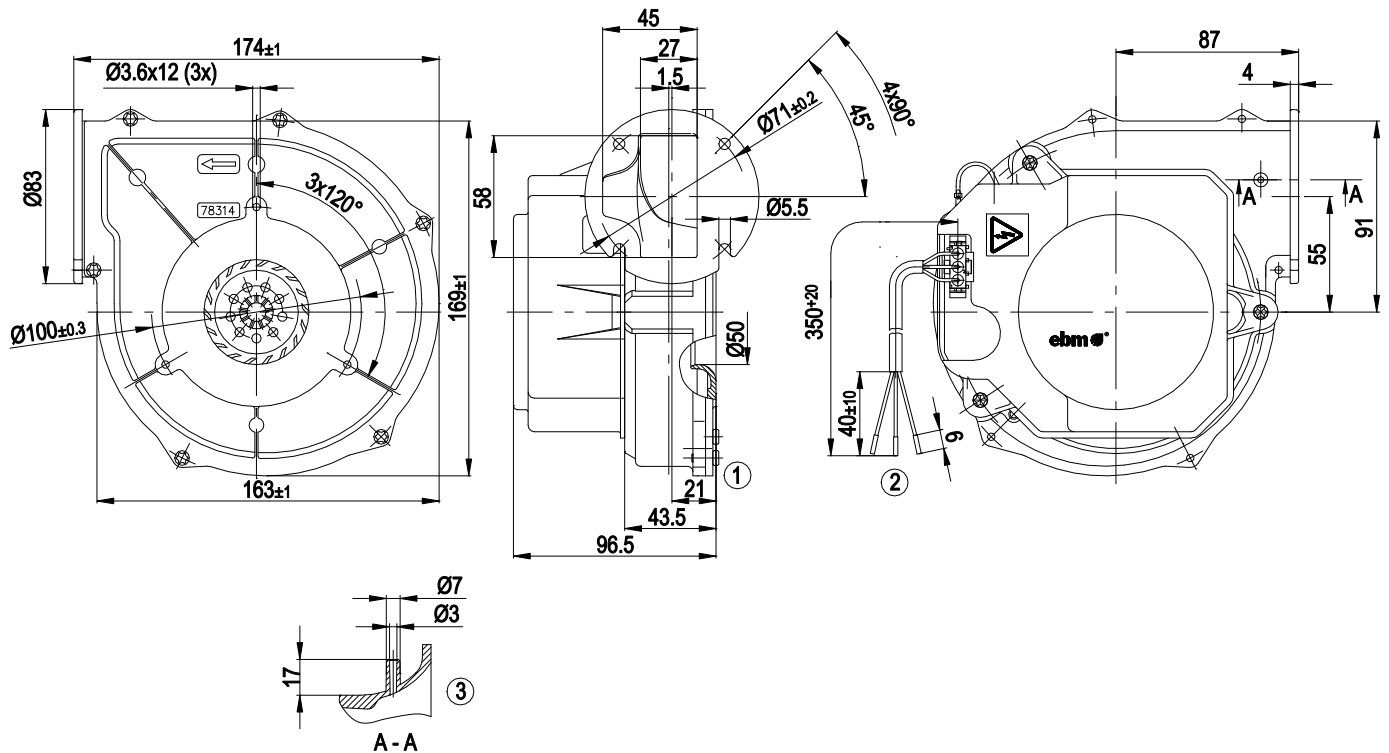


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## Product drawing



|   |                                                                   |
|---|-------------------------------------------------------------------|
| 1 | Housing side parts sealed with NBR round cord (pentane-resistant) |
| 2 | Cable PVC 3G 0.5 mm <sup>2</sup> , 3 x crimped splices            |
|   | L = brown                                                         |
|   | N = blue                                                          |
|   | PE = green/yellow                                                 |
| 3 | Pressure tap possible                                             |

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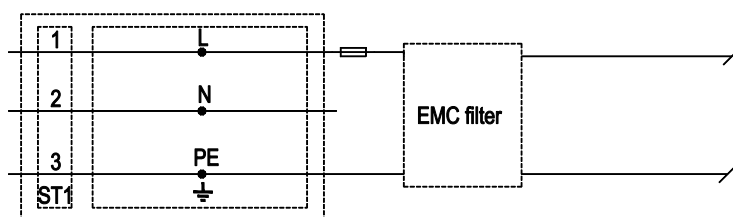
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## Connection diagram

Customer circuit

Interface

Fan/Motor

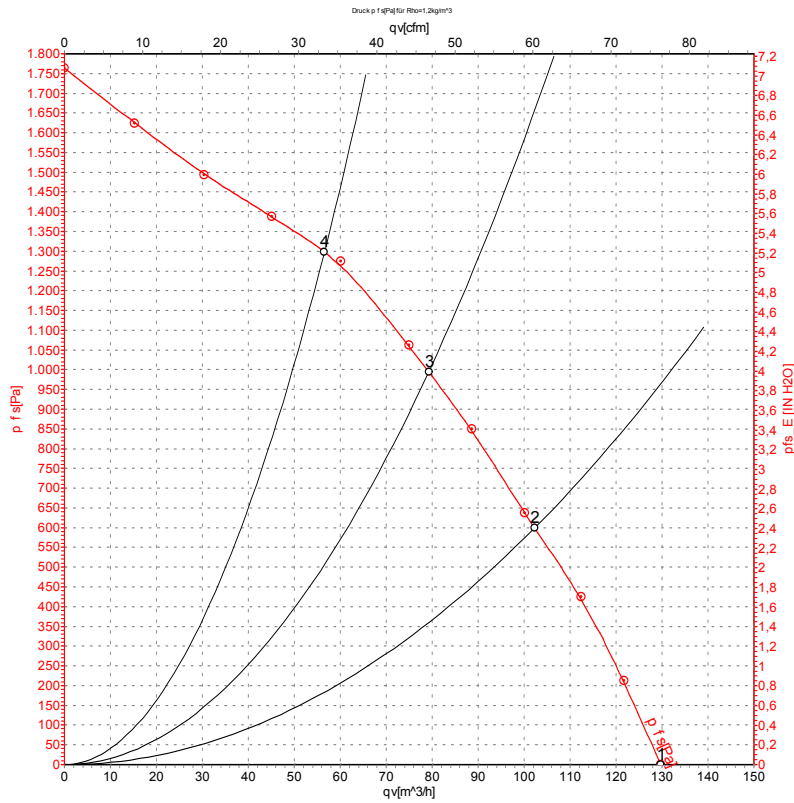
Line voltage  
230 VAC

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## Curves: Air performance 50 Hz



Measurement: LU-109711-1

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 <sub>ed</sub> | I    | q <sub>v</sub> | p <sub>is</sub> | q <sub>v</sub> | p <sub>is</sub> |
|---|-----|----|-------------------|-----------------|------|----------------|-----------------|----------------|-----------------|
|   | V   | Hz | min <sup>-1</sup> | W               | A    | m³/h           | Pa              | cfm            | inH2O           |
| 1 | 230 | 50 | 5000              | 75              | 0.50 | 130            | 0               | 75             | 0.00            |
| 2 | 230 | 50 | 5520              | 67              | 0.47 | 100            | 600             | 60             | 2.41            |
| 3 | 230 | 50 | 5860              | 61              | 0.42 | 80             | 1000            | 45             | 4.01            |
| 4 | 230 | 50 | 6165              | 53              | 0.36 | 55             | 1300            | 35             | 5.22            |

U = Power supply · f = Frequency · n = Speed (rpm) · P<sub>ed</sub> = Power consumption · I = Current draw · q<sub>v</sub> = Air flow · p<sub>is</sub> = Pressure increase

