

G3G120-BB03-02

# EC centrifugal fan with housing (small flange)

forward curved, single inlet



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## Nominal data

|                          |                      |       |
|--------------------------|----------------------|-------|
| Type                     | G3G120-BB03-02       |       |
| Motor                    | M3G055-BD            |       |
| Nominal voltage          | [VAC]                | 230   |
| Frequency                | [Hz]                 | 50/60 |
| Type of data definition  |                      | rfa   |
| Speed                    | [min <sup>-1</sup> ] | 2200  |
| Power input              | [W]                  | 41    |
| Current draw             | [A]                  | 0.3   |
| Max. ambient temperature | [°C]                 | 60    |
| Air flow                 | [m <sup>3</sup> /h]  | 240   |
| Back pressure            | [Pa]                 | 0     |
| Sound pressure level     | [dB(A)]              | 60.2  |

ml = max. load · me = max. efficiency · rfa = running at free air · cs = customer specs · cu = customer unit  
Subject to alterations

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## Technical features

|                                 |                                                                                               |
|---------------------------------|-----------------------------------------------------------------------------------------------|
| Leakage current                 | <= 3,5 mA                                                                                     |
| General description             | Integrated electronics                                                                        |
| Size                            | 120 mm                                                                                        |
| Operation mode                  | Continuous operation (S1)                                                                     |
| Mounting position               | Mounting position: Any; condensate discharge holes: none                                      |
| Direction of rotation           | Clockwise, seen on rotor                                                                      |
| Insulation class                | "B"                                                                                           |
| Cable exit                      | Variable                                                                                      |
| Bearing-motor                   | Ball bearing                                                                                  |
| Mass                            | 1.8 kg                                                                                        |
| Material of electronics housing | Rotor: Galvanized                                                                             |
| Material of impeller            | Hot-dip galvanized sheet steel                                                                |
| Motor protection                | Locked-rotor protection                                                                       |
| Type of protection              | IP 44                                                                                         |
| Protection class                | I                                                                                             |
| Technical features              | Control input 0-10 VDC / PWM, output 10 VDC max. 1.1 mA, tach output, locked rotor protection |
| Approval                        | GOST                                                                                          |

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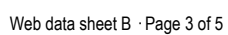
Technical drawing of a mechanical part, likely a bearing housing, showing front and side views with dimensions.

**Front View Dimensions:**

- Overall width: 115
- Inner width: 100
- Overall height: 83
- Height to top of bearing seat: 68
- Bearing seat width: 76
- Height of bearing seat: 50
- Top flange thickness: 7

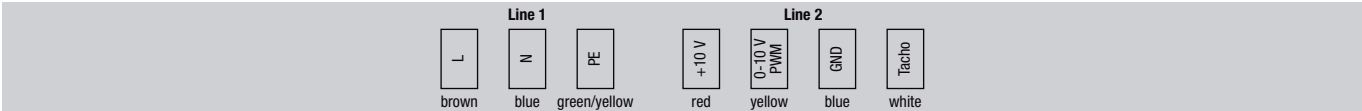
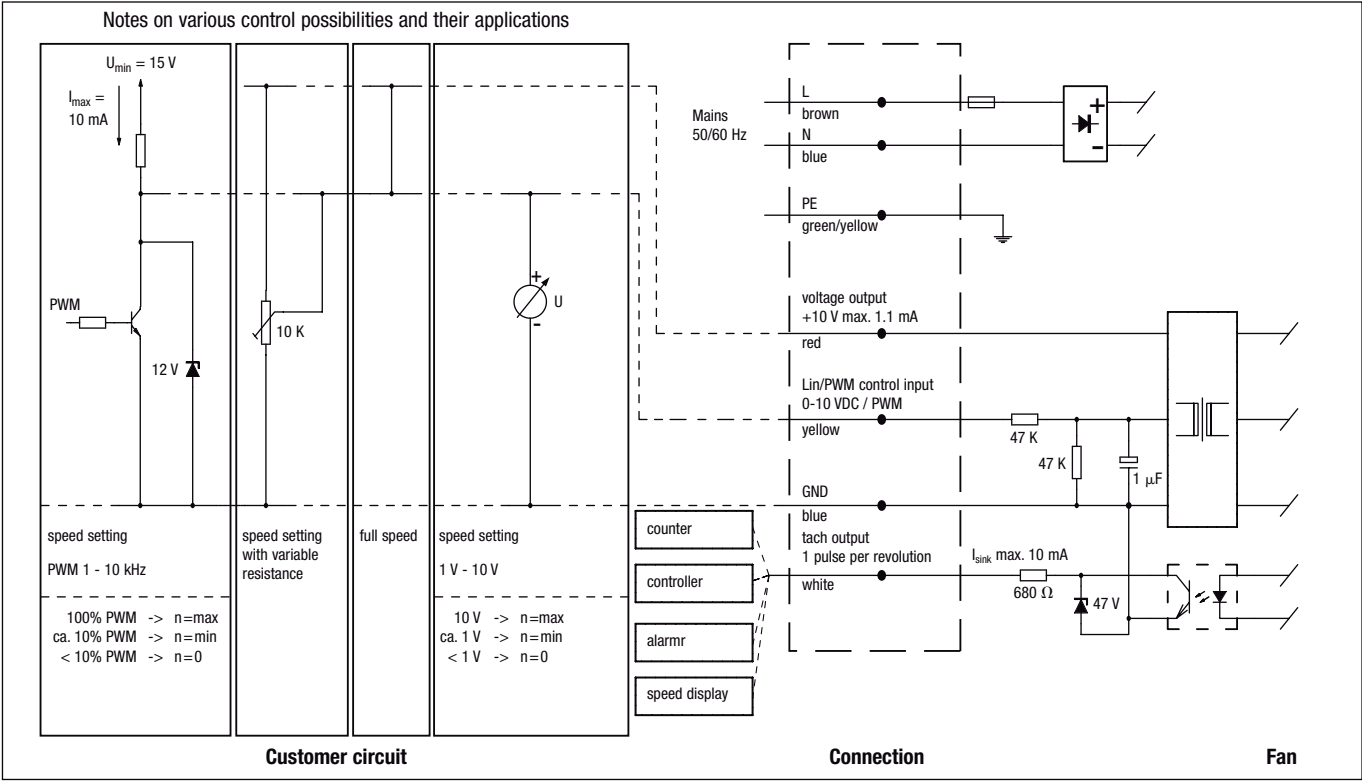
**Side View Dimensions:**

- Bore diameter:  $\varnothing 100_{-1}$
- Distance from front face to bearing seat: 82
- Distance from front face to end of housing: 110
- Distance from front face to end of mounting flange: 85
- Mounting flange thickness: 6
- Total length: 450
- Length tolerance: +20



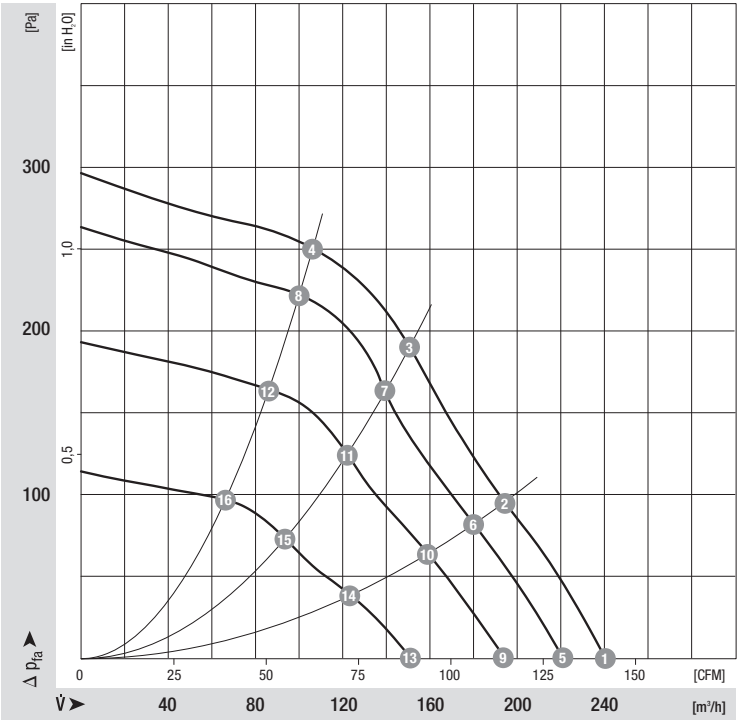
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Connection screen



| Line | Signal | Colour       | Assignment / function   | Line | Signal       | Colour | Assignment / function              |
|------|--------|--------------|-------------------------|------|--------------|--------|------------------------------------|
| 1    | L      | brown        | Mains 50/60 Hz, phase   | 2    | +10 V        | red    | Voltage output +10 V max. 1.1 mA   |
|      | N      | blue         | Mains 50/60 Hz, neutral |      | 0-10 V / PWM | yellow | Control input                      |
|      | PE     | green/yellow | Protective earth        |      | GND          | blue   | GND                                |
|      |        |              |                         |      | Tacho        | white  | Tach output: pulses per revolution |

Charts: Air flow



|    | n                    | P <sub>1</sub> | I    | η <sub>TL</sub> |
|----|----------------------|----------------|------|-----------------|
|    | [min <sup>-1</sup> ] | [W]            | [A]  | [%]             |
| 1  | 2200                 | 41             | 0.30 |                 |
| 2  | 2320                 | 34             | 0.25 | 51              |
| 3  | 2440                 | 28             | 0.20 | 55              |
| 4  | 2600                 | 20             | 0.15 | 49              |
| 5  | 2060                 | 34             | 0.25 |                 |
| 6  | 2190                 | 29             | 0.20 | 50              |
| 7  | 2295                 | 24             | 0.20 | 54              |
| 8  | 2445                 | 18             | 0.15 | 52              |
| 9  | 1830                 | 24             | 0.20 |                 |
| 10 | 1920                 | 20             | 0.15 | 50              |
| 11 | 2010                 | 17             | 0.15 | 54              |
| 12 | 2115                 | 13             | 0.10 | 52              |
| 13 | 1430                 | 13             | 0.10 |                 |
| 14 | 1500                 | 12             | 0.10 | 50              |
| 15 | 1580                 | 10             | 0.10 | 54              |
| 16 | 1640                 | 8              | 0.10 | 52              |