

W3G330-CA76-01

EC axial fan with full round nozzle

sickled blades (S series)



ebm-papst Mulfingen GmbH & Co. KG

Bachmühle 2

74673 Mulfingen

Phone: +49 7938 81-0

Fax: +49 7938 81-110

www.ebmpapst.com

info1@de.ebmpapst.com

Nominal data

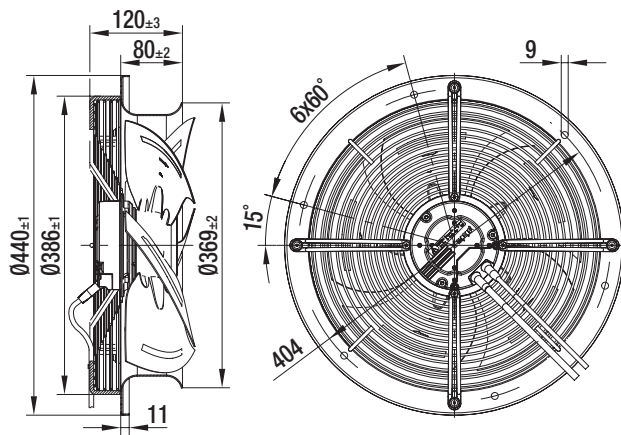
| | | |
|--------------------------|----------------------|------------|
| Type | W3G330-CA76-01 | |
| Motor | M3G074-CF | |
| Phase | | 1~ |
| Nominal voltage | [VAC] | 115 |
| Nominal voltage range | [VAC] | 100 .. 130 |
| Frequency | [Hz] | 50/60 |
| Type of data definition | | ml |
| State | | prelim. |
| Speed | [min ⁻¹] | 1530 |
| Power input | [W] | 170 |
| Current draw | [A] | 2,1 |
| Max. back pressure | [Pa] | 120 |
| Max. ambient temperature | [°C] | 60 |
| Air flow | [m ³ /h] | 1700 |
| Back pressure | [Pa] | 120 |

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

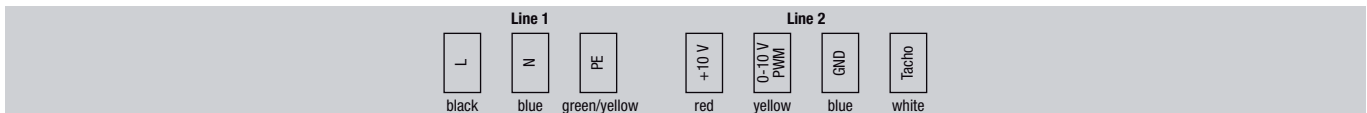
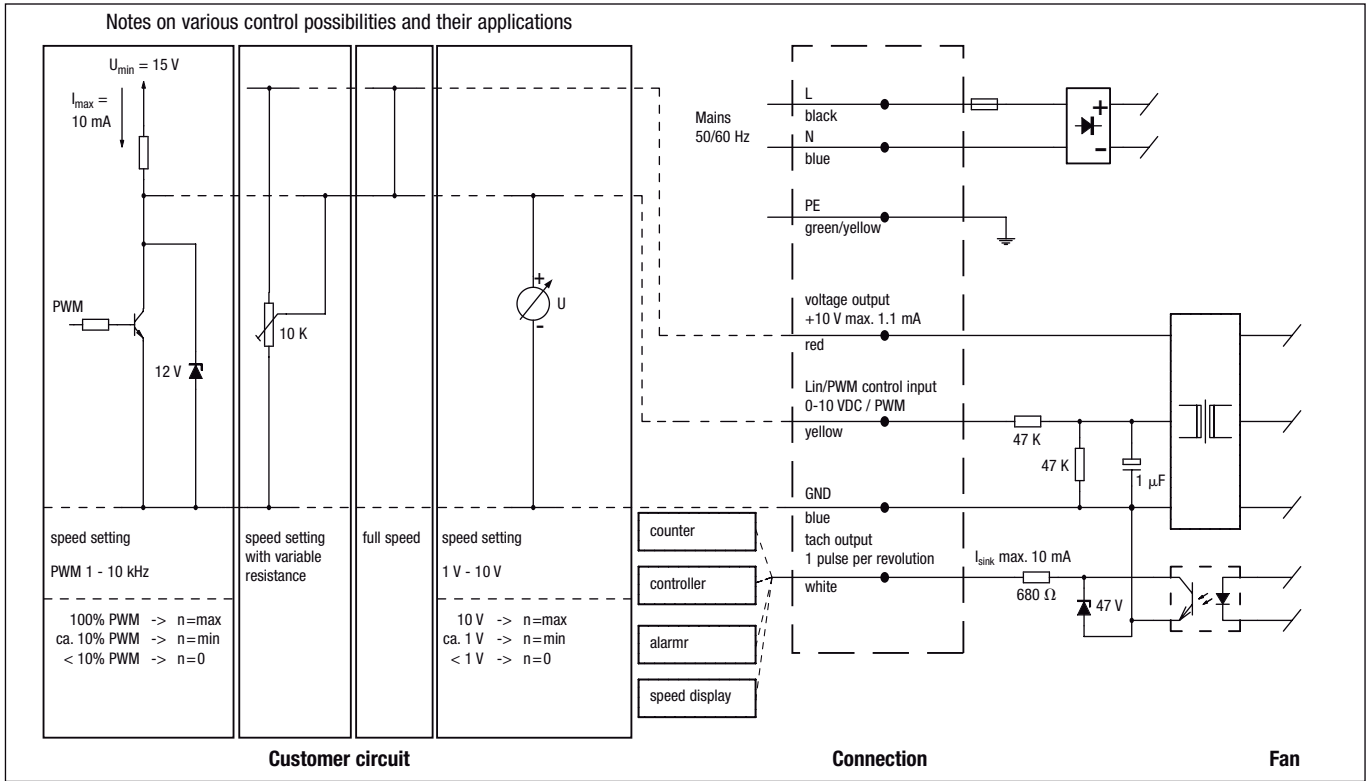
Technical features

| | |
|--|---|
| General description | Integrated electronics |
| Size | 330 mm |
| Operation mode | Continuous operation (S1) |
| Direction of rotation | "V" |
| Mounting position | Shaft horizontal or rotor on bottom; rotor on top on request |
| Insulation class | "B" |
| Cable exit | Variable |
| Bearing motor | Ball bearing |
| Mass | 2.9 kg |
| Material of electronics housing | Coated in black |
| Housing material | Die-cast aluminum |
| Material of impeller | Sheet steel, coated in black |
| Motor protection | Thermal overload protector (TOP) wired internally |
| Number of blades | 5 |
| Type of protection | IP 44 - depending on position |
| Protection class | I |
| Technical features | PFC (passive), control input 0-10 VDC / PWM, output 10 VDC max. 1.1 mA, tach output, over-temperature protected electronics / motor |

Product drawing

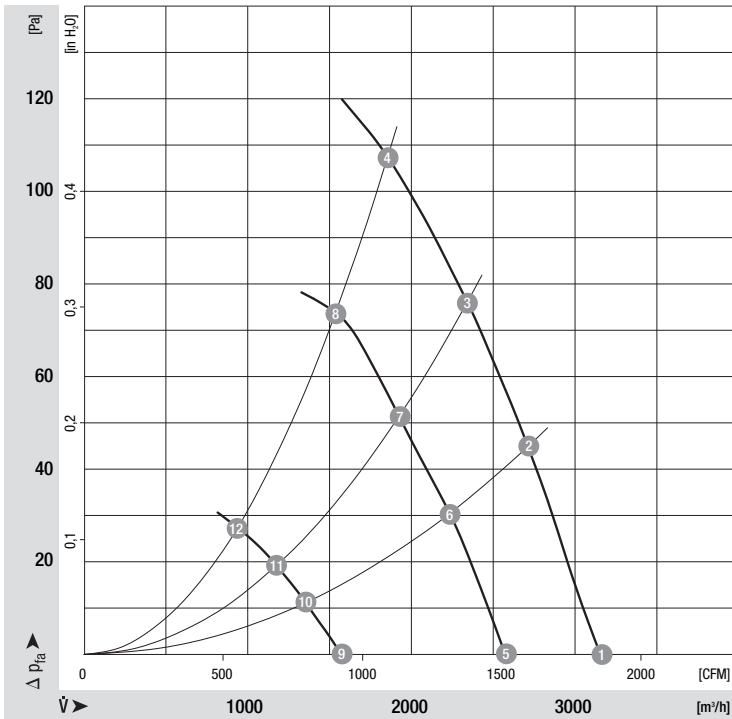


Connection screen



| Line | Signal | Colour | Assignment / function | Line | Signal | Colour | Assignment / function |
|------|--------|--------------|-------------------------|------|--------------|--------|------------------------------------|
| 1 | L | black | 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



Measured values

| | n | P ₁ | I | LpA _{ss} | η _{TL} |
|----|----------------------|----------------|------|-------------------|-----------------|
| | [min ⁻¹] | [W] | [A] | [dB(A)] | [%] |
| 1 | 1660 | 131 | 1.70 | 68 | |
| 2 | 1630 | 144 | 1.80 | 66 | 81 |
| 3 | 1610 | 147 | 1.90 | 64 | 78 |
| 4 | 1570 | 163 | 2.10 | 63 | 61 |
| 5 | 1350 | 72 | 1.00 | 64 | |
| 6 | 1340 | 83 | 1.10 | 62 | 80 |
| 7 | 1330 | 87 | 1.20 | 60 | 74 |
| 8 | 1290 | 92 | 1.20 | 58 | 62 |
| 9 | 830 | 20 | 0.30 | 51 | |
| 10 | 820 | 20 | 0.30 | 51 | |
| 11 | 810 | 25 | 0.40 | 45 | 59 |
| 12 | 800 | 27 | 0.40 | 44 | 48 |