

W1G300-CE33-54

EC axial fan

sickled blades (S series)

with full round nozzle



W1G300-CE33-54 ebmpapst Datasheet

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Nominal data

Type	W1G300-CE33-54	
Motor	M1G074-CF	
Nominal voltage	[VDC]	48
Nominal voltage range	[VDC]	36 .. 57
Type of data definition		rfa
Speed	[min ⁻¹]	1800
Power input	[W]	90
Current draw	[A]	2.0
Max. back pressure	[Pa]	105
Min. ambient temperature	[°C]	-25
Max. ambient temperature	[°C]	60

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

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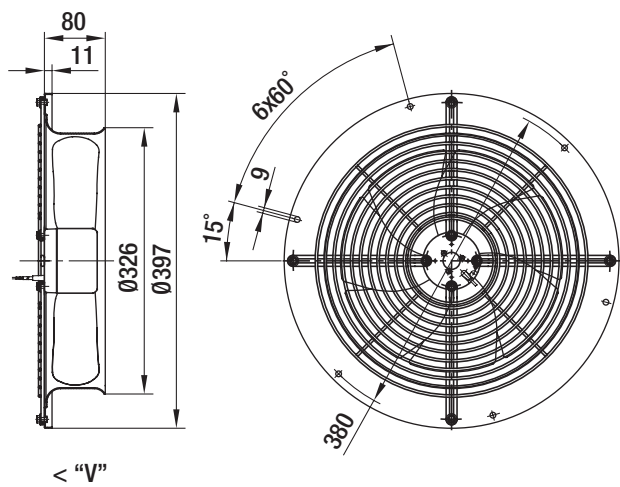
Technical features

Size	300 mm
Operation mode	Continuous operation (S1)
Direction of rotation	Counter-clockwise, seen on rotor
Mounting position	Any
Humidity class	F0
Direction of air flow	"V"
Insulation class	"B"
Cable exit	Lateral
Bearing motor	Ball bearing
Mass	2.2 kg
Material of electronics housing	Rotor: Coated in black
Material of impeller	Sheet steel, coated in black
Motor protection	Reverse polarity and locked-rotor protection
Number of blades	7
Type of protection	IP 42
Protection class	I
Technical features	Control input 0-10 VDC / PWM, tach output, polarity and locked rotor protection
Approval	CCC; CSA C22.2 Nr.77; UL 1004-1

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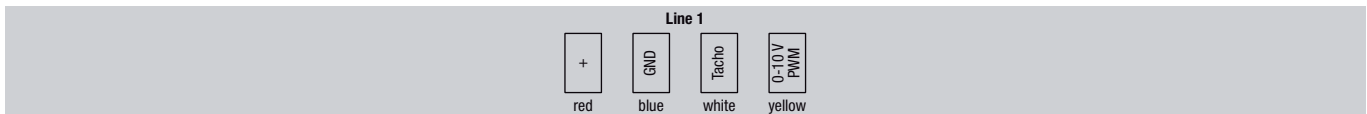
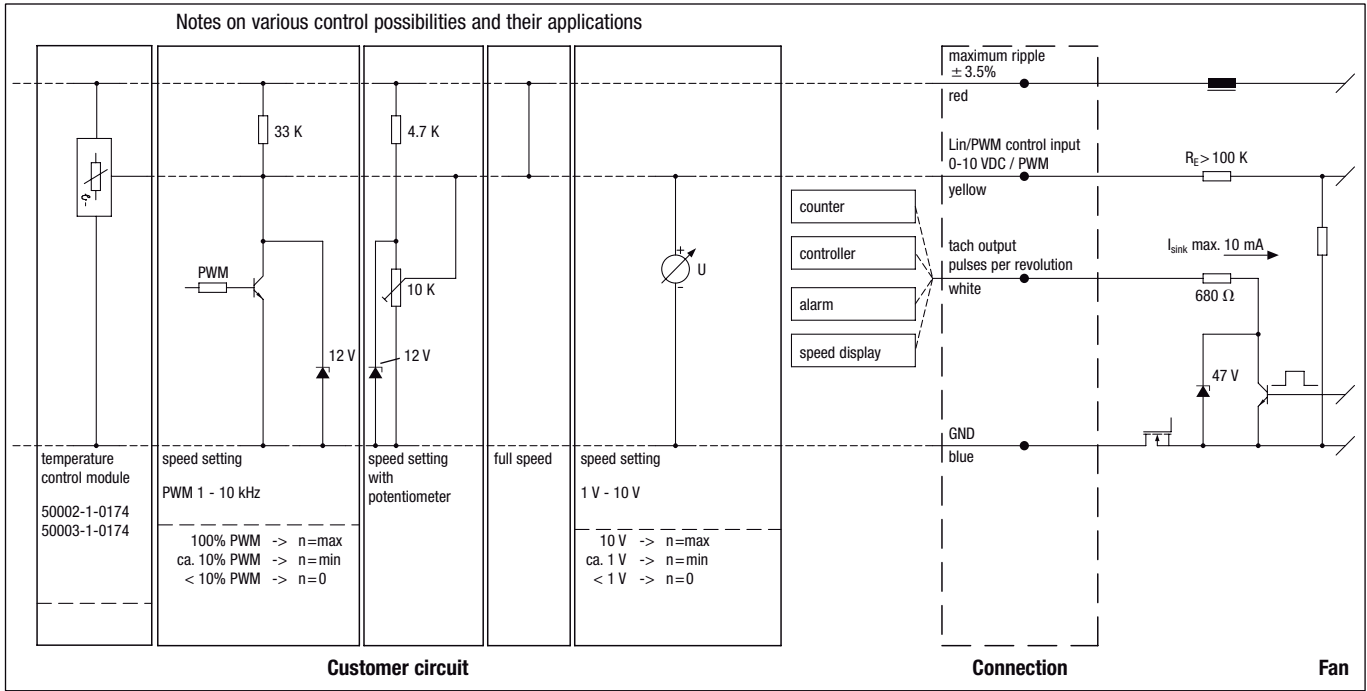
Product drawing



EC axial fan

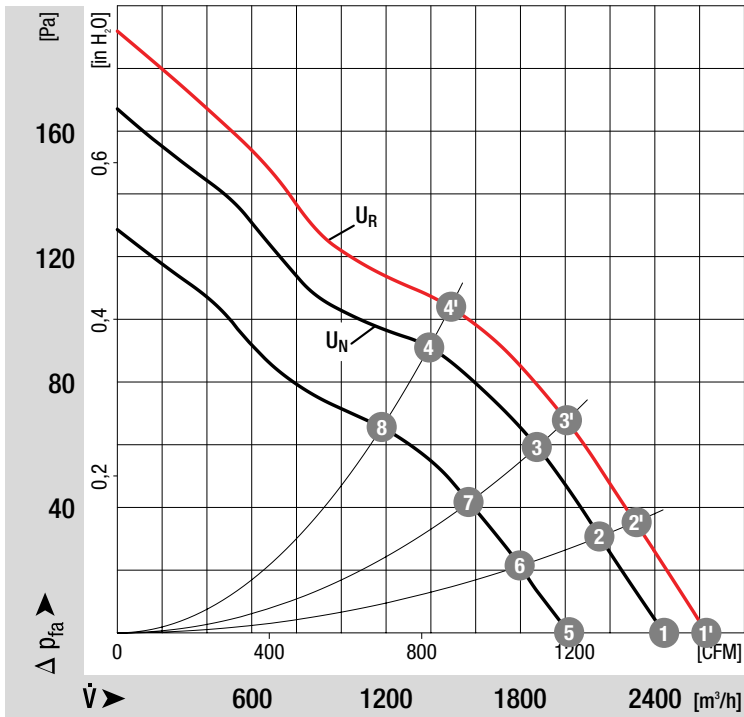
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Connection screen



Line	Signal	Colour	Assignment / function	Line	Signal	Colour	Assignment / function
1	+	red	maximum ripple $\pm 3.5\%$	1	Tacho	white	Tach output: pulses per revolution
	GND	blue	GND		0-10 V / PWM	yellow	Control input

Charts: Air flow



Measured values

	n	P ₁	η _{TL}
	[min ⁻¹]	[W]	[%]
1'	1940	108	
2'	1850	111	71
3'	1790	113	71
4'	1720	116	60
1	1800	90	
2	1720	89	71
3	1670	91	71
4	1600	93	60
5	1480	49	
6	1440	52	71
7	1400	55	71
8	1350	58	60