

A1G200-AI77-52

EC axial fan

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

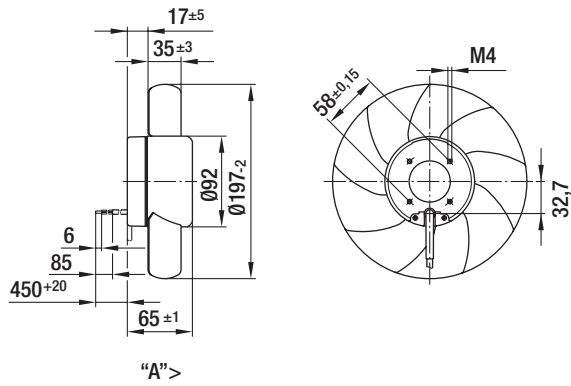
Type	A1G200-AI77-52	
Motor	M1G074-BF	
Nominal voltage	[VDC]	24
Type of data definition		ml
Speed	[min ⁻¹]	2950
Power input	[W]	50
Current draw	[A]	2.35
Max. ambient temperature	[°C]	60

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

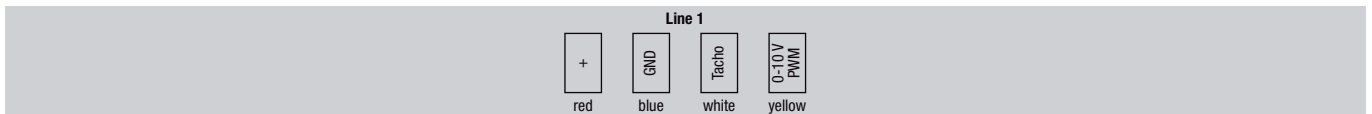
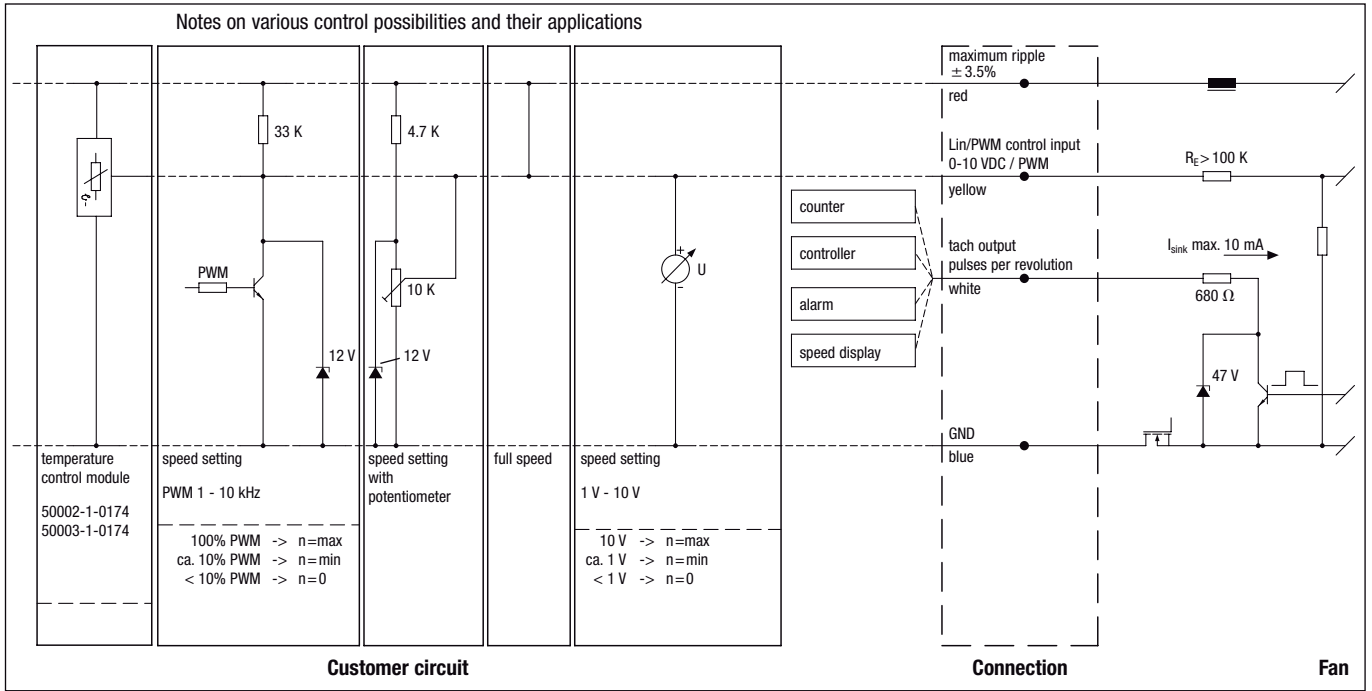
Technical features

Size	200 mm
Operation mode	Continuous operation (S1)
Direction of rotation	"A"
Mounting position	Any
Insulation class	"B"
Cable exit	Variable
Bearing motor	Ball bearing
Mass	1.5 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	9
Type of protection	IP 42
Protection class	I
Technical features	Control input 0-10 VDC / PWM, tach output, polarity and locked rotor protection
Approval	CSA C22.2 Nr.77; UL 1004

Product drawing

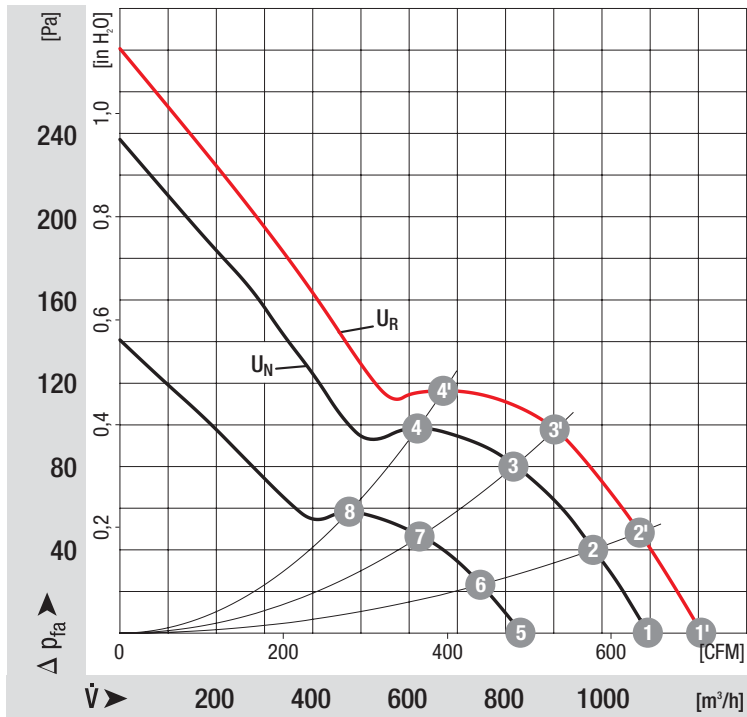


Connection screen



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'	2300	73	
2'	2970	77	67
3'	3100	80	64
4'	2970	80	54
1	2950	55	
2	2890	58	67
3	2800	61	64
4	2780	63	54
5	2270	27	
6	2230	28	67
7	2170	29	64
8	2130	30	54