

R1G120-AD13-02

EC centrifugal fan

backward curved, single inlet



ebm-papst Mulfingen GmbH & Co. KG

Bachmühle 2

D-74673 Mulfingen

Phone +49 7938 81-0

Fax +49 7938 81-110

info1@de.ebmpapst.com

www.ebmpapst.com

Nominal data

Type	R1G120-AD13-02	
Motor	M1G045-BE	
Nominal voltage	VDC	24
Nominal voltage range	VDC	16 .. 28
Type of data definition		rfa
Speed	min ⁻¹	4060
Power input	W	26
Current draw	A	1.2
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	+50

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

R1G120-AD13-02

EC centrifugal fan

backward curved, single inlet

Technical features

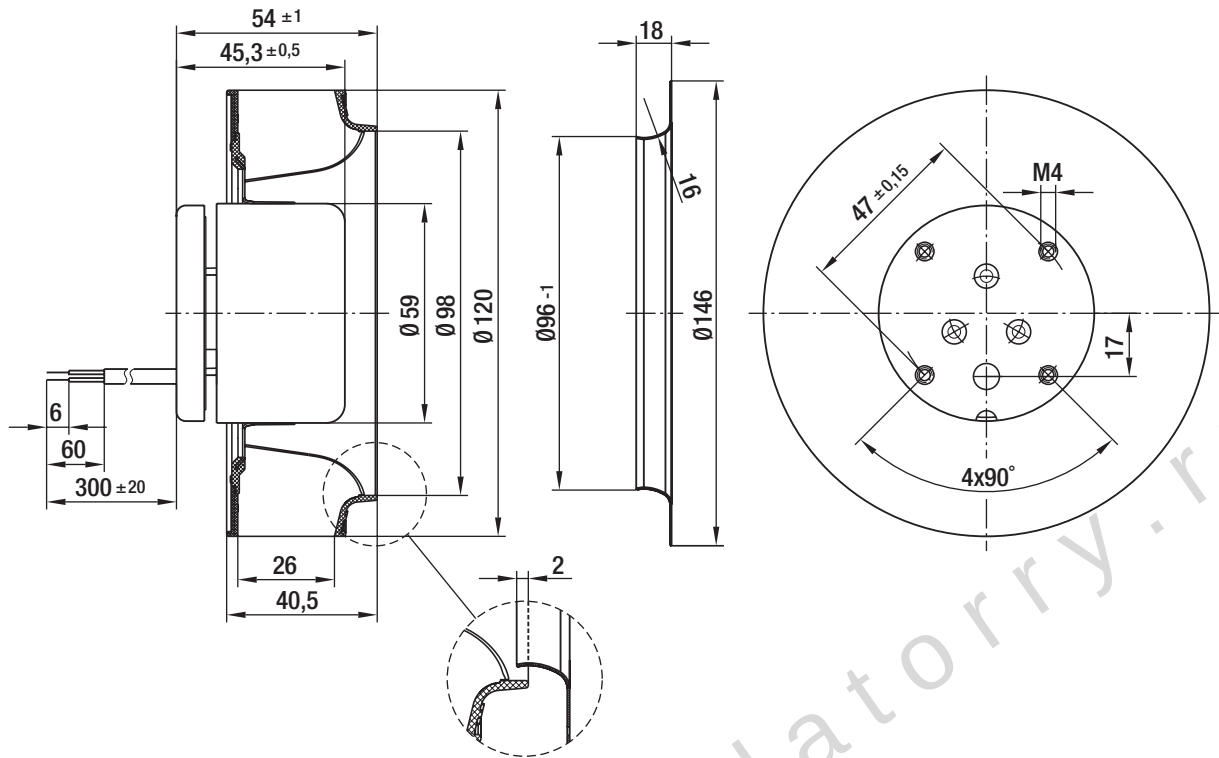
Size	120 mm
Operation mode	Continuous operation (S1)
Direction of rotation	Clockwise, seen on rotor
Mounting position	Any
Insulation class	"B"
Cable exit	Axial
Motor bearing	Ball bearing
Mass	0.5 kg
Material of electronics housing	Rotor: Galvanized
Material of impeller	PA plastic 6.6, fiberglass-reinforced
Motor protection	Reverse polarity and locked-rotor protection
Number of blades	9
Type of protection	IP 20
Protection class	I
Technical features	Control input 0-10 VDC / PWM, tach output, polarity and locked rotor protection

R1G120-AD13-02

EC centrifugal fan

backward curved, single inlet

Product drawing

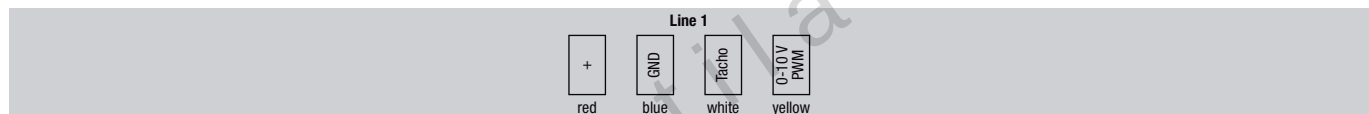
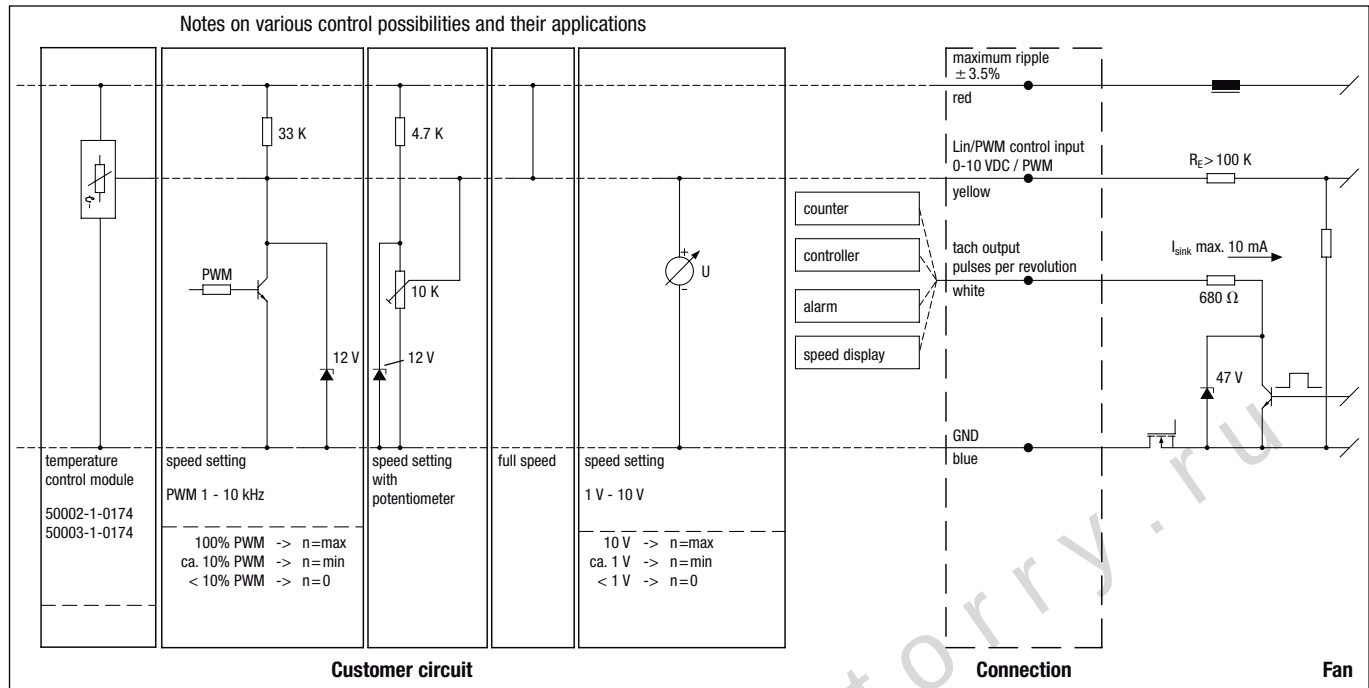


R1G120-AD13-02

EC centrifugal fan

backward curved, single inlet

Connection screen



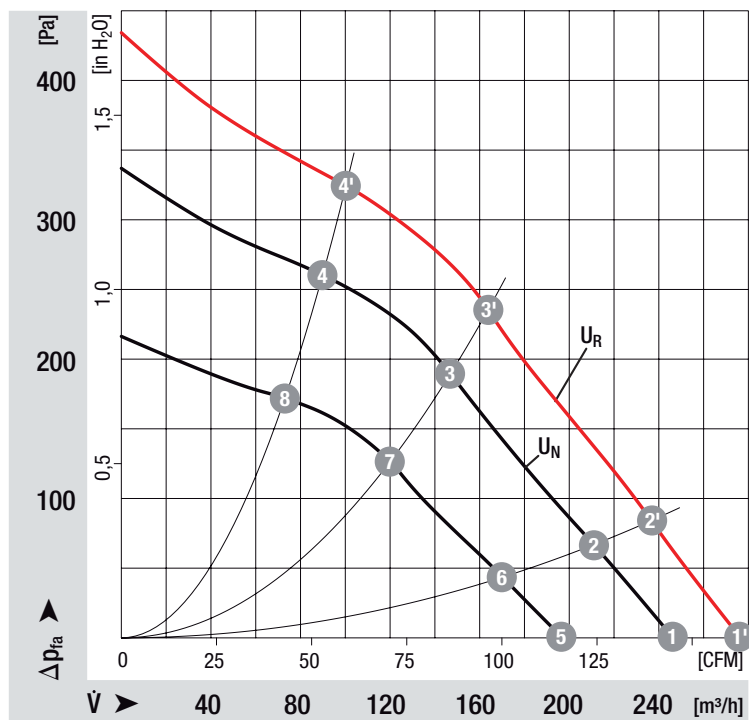
Line	Signal	Colour	Assignment / function	Line	Signal	Colour	Assignment / function
1	+	red	maximum ripple $\pm 3.5\%$	1	Tacho	white	Tach output: pulses per revolution
	GND	blue	GND		0-10 V / PWM	yellow	Control input

R1G120-AD13-02

EC centrifugal fan

backward curved, single inlet

Charts: Air flow



Measured values

	n	P _e
	min ⁻¹	W
1'	4520	36
2'	4500	36
3'	4540	36
4'	4750	32
1	4060	26
2	4000	26
3	4050	26
4	4200	23
5	3270	14
6	3250	14
7	3280	14
8	3400	13