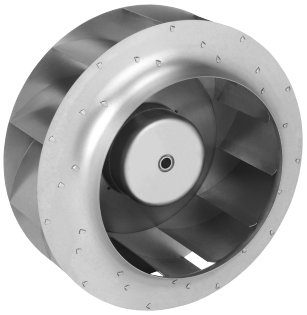
R1G280-AE47-52

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	**R1G280-AE47-52**	
Motor	**M1G074-CF**	
Nominal voltage	VDC	48
Nominal voltage range	VDC	36 .. 57
Type of data definition		rfa
Speed	min^{-1}	1710
Power input	W	95
Current draw	A	2.3
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

Downloaded from Arrow.com.

EC centrifugal fan

backward curved, single inlet

Technical features

Size	280 mm
Operation mode	Continuous operation (S1)
Direction of rotation	Clockwise, seen on rotor
Mounting position	Any
Humidity class	F0
Insulation class	"B"
Cable exit	Variable
Motor bearing	Ball bearing
Mass	2.8 kg
Material of electronics housing	Rotor: Coated in black
Material of impeller	Sheet steel
Motor protection	Reverse polarity and locked-rotor protection
Number of blades	11
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

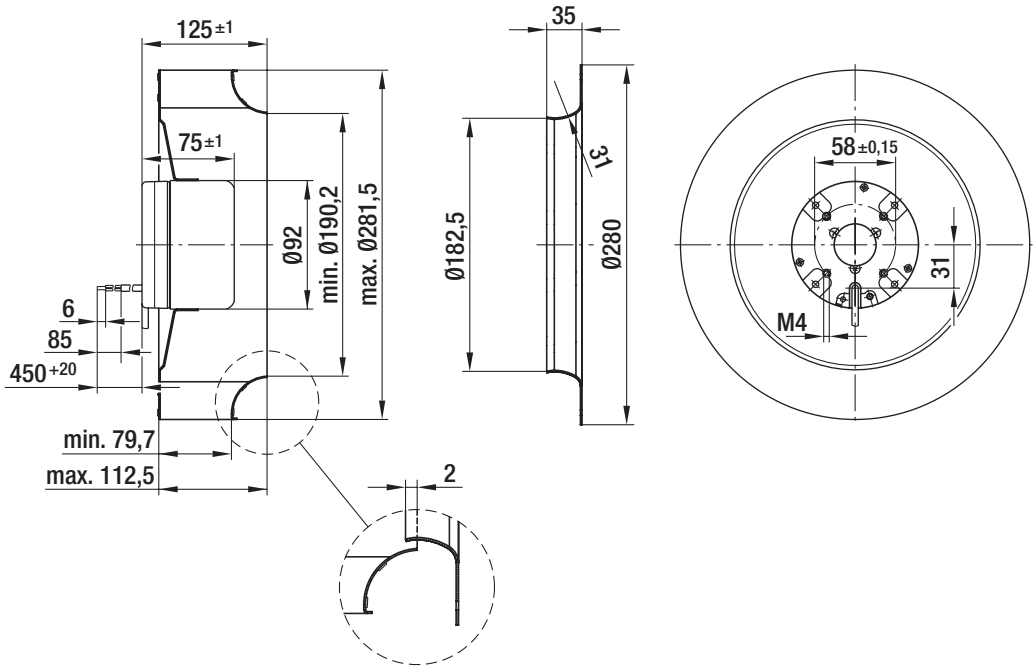
ebm-papst Mulfingen GmbH & Co. KG · Bachmühle 2 · D-74673 Mulfingen · Phone +49 7938 81-0 · Fax +49 7938 81-110 · info1@de.ebmpapst.com · www.ebmpapst.com

Downloaded from Arrow.com.

EC centrifugal fan

backward curved, single inlet

Product drawing



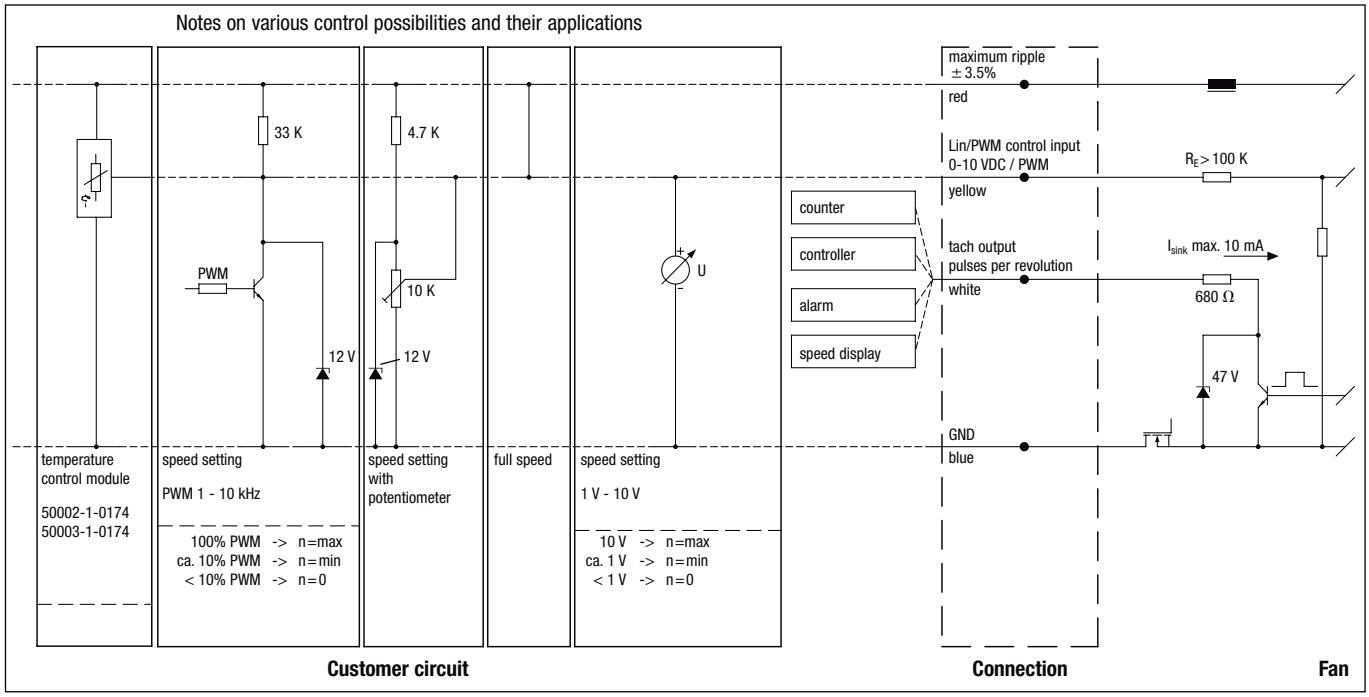
ebm-papst Mulfingen GmbH & Co. KG · Bachmühle 2 · D-74673 Mulfingen · Phone +49 7938 81-0 · Fax +49 7938 81-110 · info1@de.ebmpapst.com · www.ebmpapst.com

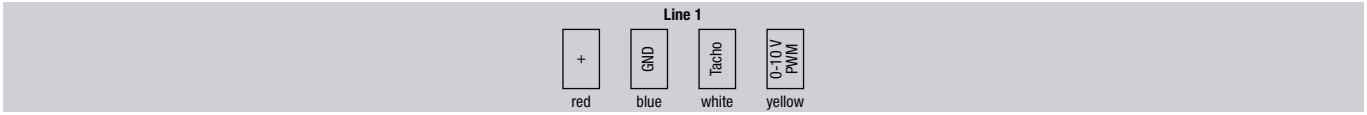
Downloaded from Arrow.com.

EC centrifugal fan

backward curved, single inlet

Connection screen





Line	Signal	Colour	Assignment / function
1	+	red	maximum ripple ± 3.5 %
	GND	blue	GND

Line	Signal	Colour	Assignment / function
1	Tacho	white	Tach output: pulses per revolution
	0-10 V / PWM	yellow	Control input

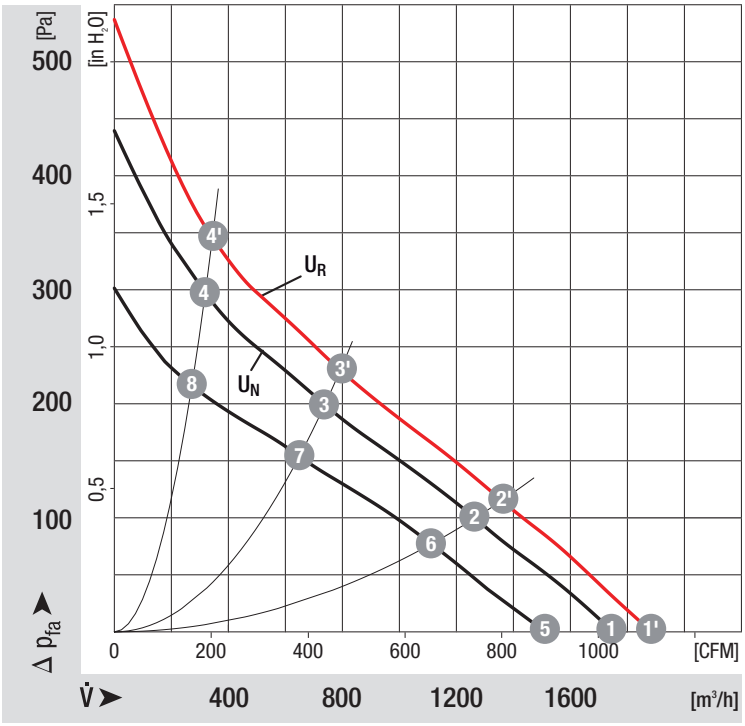
ebm-papst Mulfingen GmbH & Co. KG · Bachmühle 2 · D-74673 Mulfingen · Phone +49 7938 81-0 · Fax +49 7938 81-110 · info1@de.ebmpapst.com · www.ebmpapst.com

Downloaded from Arrow.com.

EC centrifugal fan

backward curved, single inlet

Charts: Air flow



Measured values

	n	P_e
	min^{-1}	W
1'	1840	118
2'	1650	127
3'	1670	126
4'	1950	114
1	1710	95
2	1550	100
3	1560	100
4	1810	91
5	1470	60
6	1360	68
7	1370	67
8	1530	56

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

Downloaded from Arrow.com.