

R3G180-AA01-81

EC centrifugal fan

forward 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	R3G180-AA01-81	
Motor	M3G084-DF	
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	1970
Power input	W	335
Current draw	A	3.9
Min. back pressure	Pa	200
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

R3G180-AA01-81

EC centrifugal fan

forward curved, single inlet

Technical features

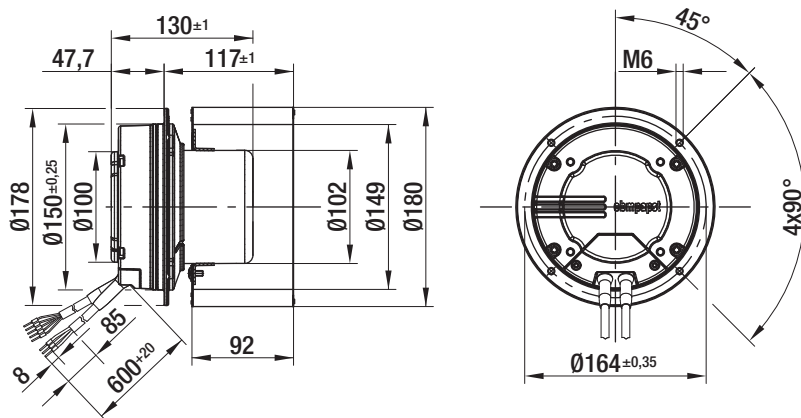
General description	Integrated electronics
Size	180 mm
Operation mode	Continuous operation (S1)
Direction of rotation	Clockwise, seen on rotor
Mounting position	Shaft horizontal or rotor on top; rotor on bottom on request
Insulation class	"B"
Cable exit	Variable
Motor bearing	Ball bearing
Mass	3.9 kg
Material of electronics housing	Rotor: Coated in black
Material of impeller	Sendzimir galvanized sheet steel
Motor protection	Thermal overload protector (TOP) wired internally
Type of protection	IP 44
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

R3G180-AA01-81

EC centrifugal fan

forward curved, single inlet

Product drawing

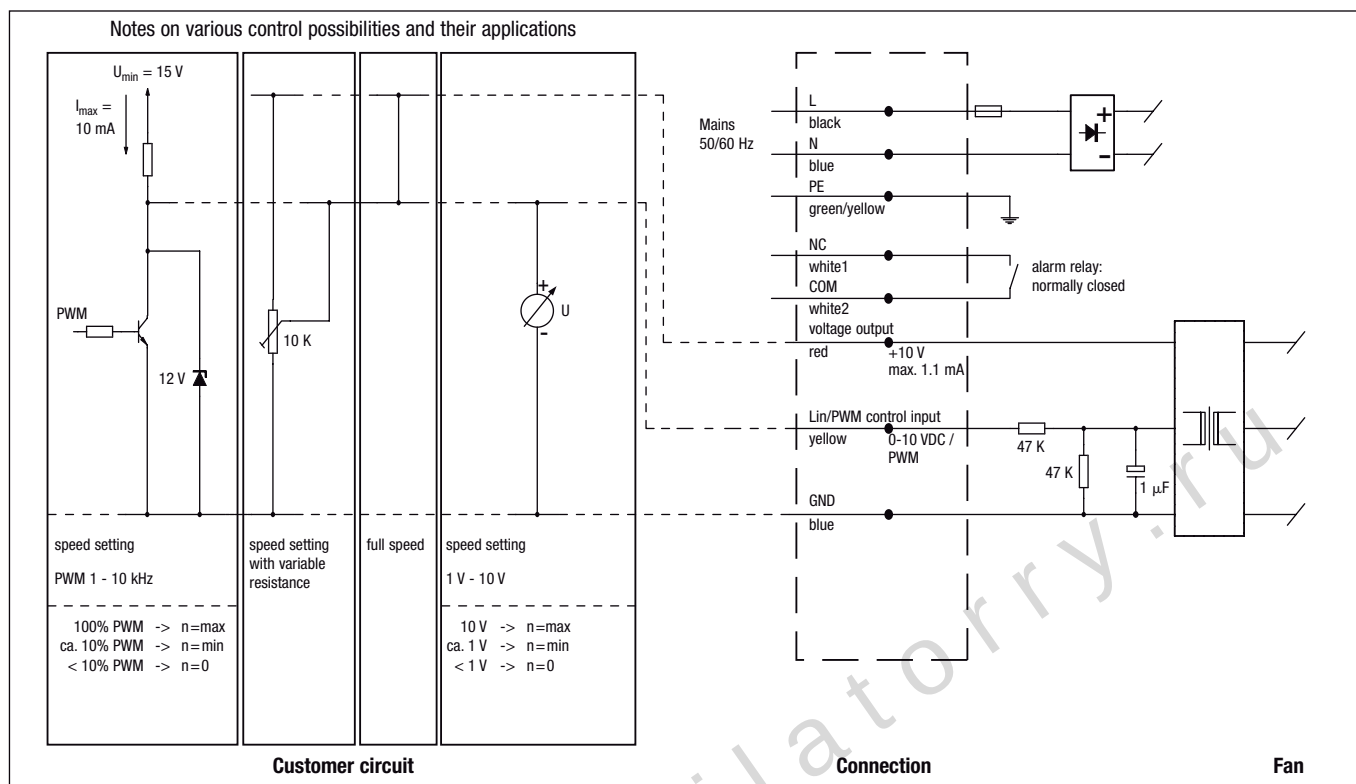


R3G180-AA01-81

EC centrifugal fan

forward curved, single inlet

Connection screen



Line	Signal	Colour	Assignment / function
1	L	black	Mains 50/60 Hz, phase
	N	blue	Mains 50/60 Hz, neutral
	PE	green/yellow	Protective earth
	NC	white1	Alarm relay, normally closed
	COM	white2	Alarm relay, COMMON

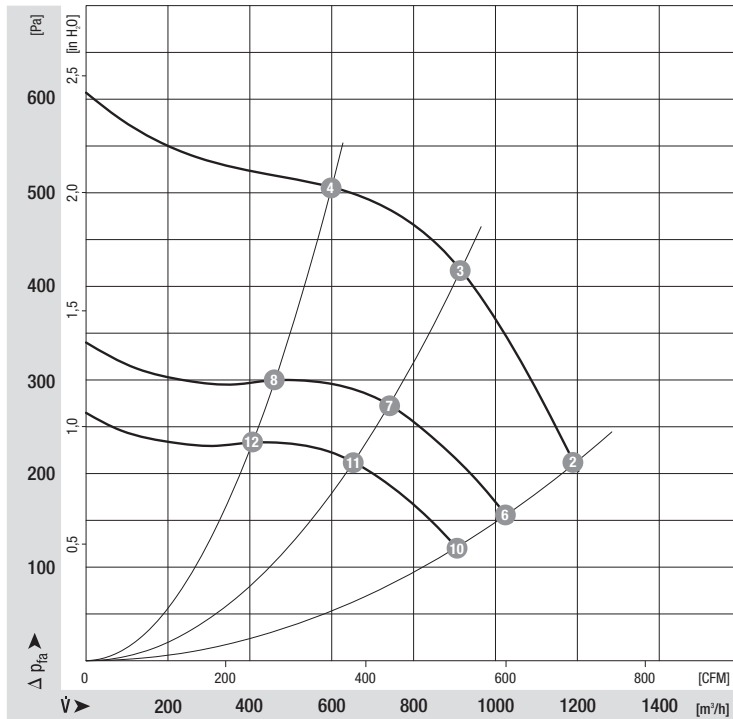
Line	Signal	Colour	Assignment / function
2	+10 V	red	Voltage output +10 V max. 1.1 mA
	0-10 V / PWM	yellow	Control input
	GND	blue	GND

R3G180-AA01-81

EC centrifugal fan

forward curved, single inlet

Charts: Air flow



Measured values

	n	P _e	I
	min ⁻¹	W	A
1			
2	1970	355	3.90
3	2100	265	3.15
4	2205	195	2.35
5			
6	1700	213	2.45
7	1700	140	1.65
8	1700	90	1.10
9			
10	1500	147	1.70
11	1500	96	1.15
12	1500	61	0.75