

R3G310-AI01-81

EC centrifugal fan

backward curved, single inlet



R3G310-AI01-81 ebmpapst Datasheet FansCo
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Nominal data

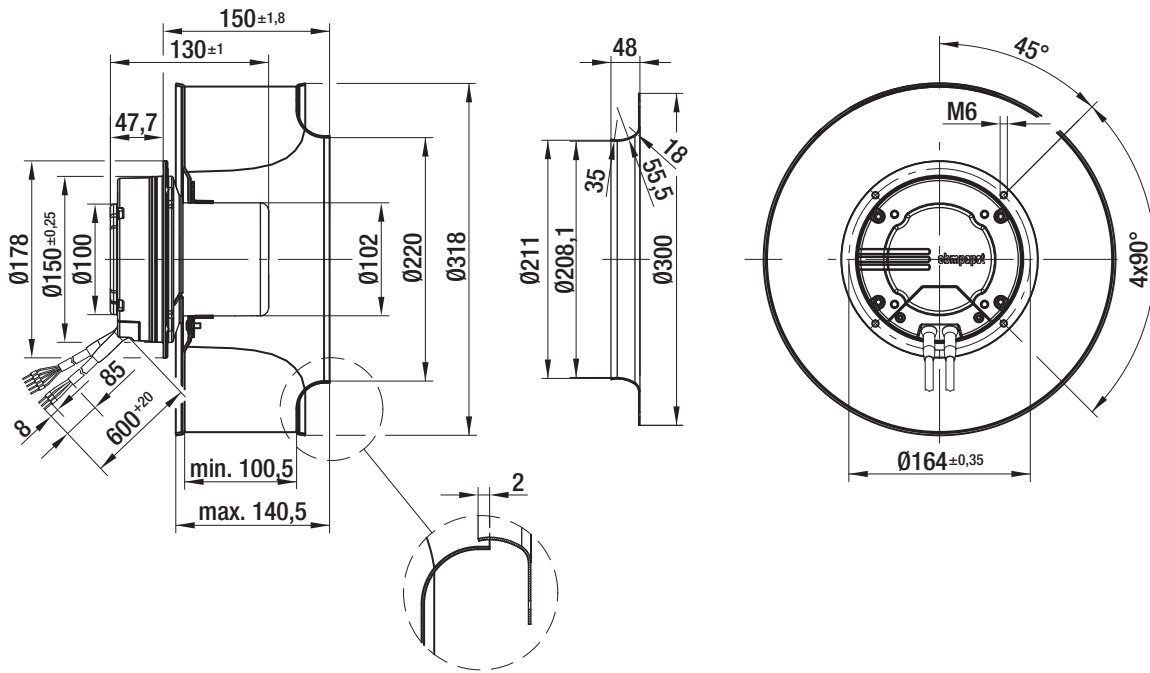
Type	R3G310-AI01-81	
Motor	M3G084-DF	
Phase		1~
Nominal voltage	V	115
Nominal voltage range	V	100 .. 130
Frequency	Hz	50/60
Valid for approval / standard		UL508
Speed	min ⁻¹	1965
Power input	W	350
Current draw	A	4.0
Max. ambient temperature	°C	60

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

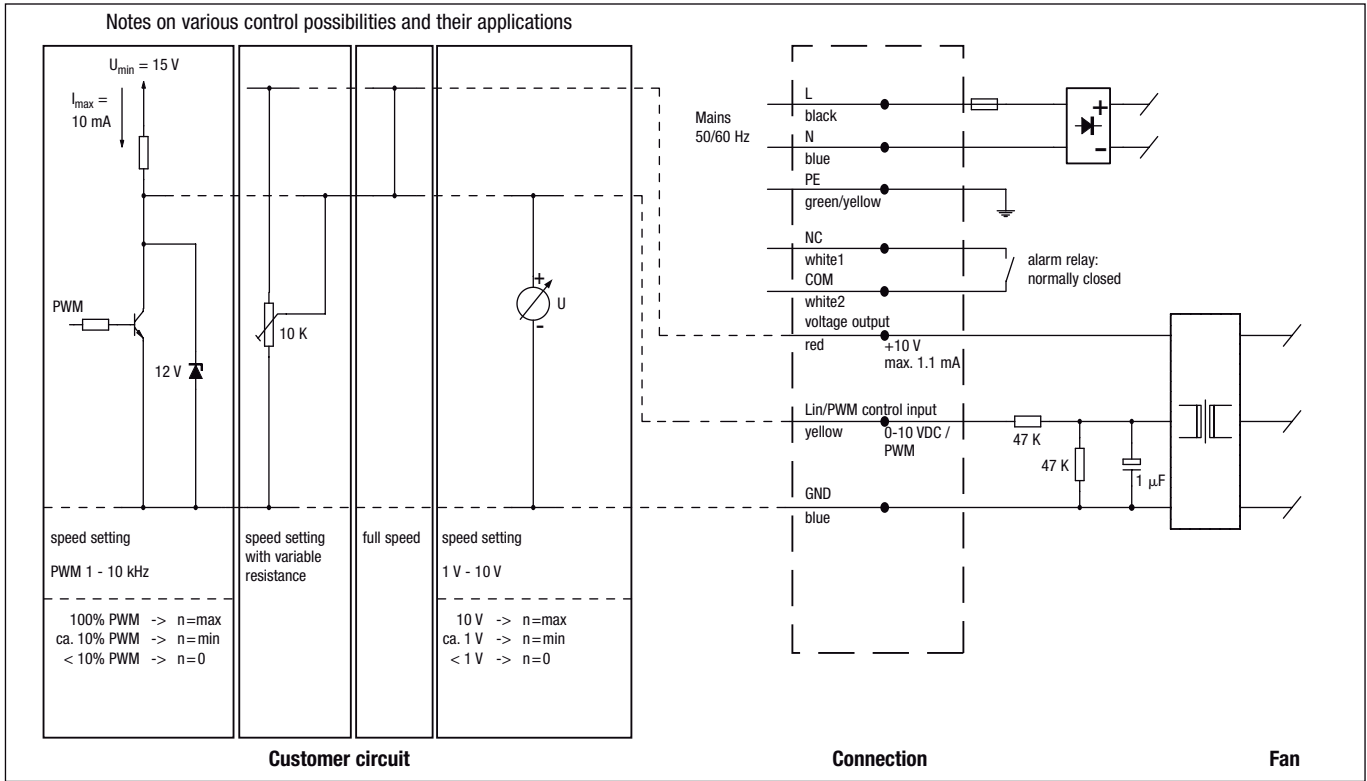
Technical features

General description	Integrated electronics
Size	310 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	4.5 kg
Material of electronics housing	Electronics enclosure: die-cast aluminum, rotor: coated in black
Material of impeller	Aluminum sheet, laser-welded
Motor protection	Thermal overload protector (TOP) wired internally
Number of blades	6
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, fault signal relay, over-temperature protected electronics / motor
Approval	CSA C22.2 Nr.77; UL 2111

Product drawing



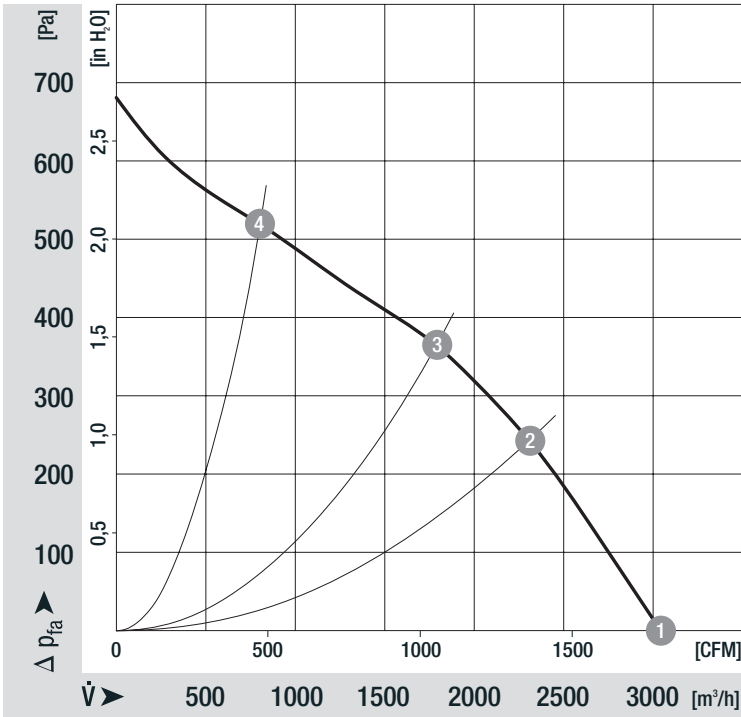
Connection screen



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

Charts: Air flow



Measured values

	n	P _e	I
	min ⁻¹	W	A
1	2080	274	3.40
2	1980	338	4.10
3	1950	350	4.20
4	2035	301	3.70