

R3G310-AI01-81

EC centrifugal fan

backward curved, single inlet

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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

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Technical features

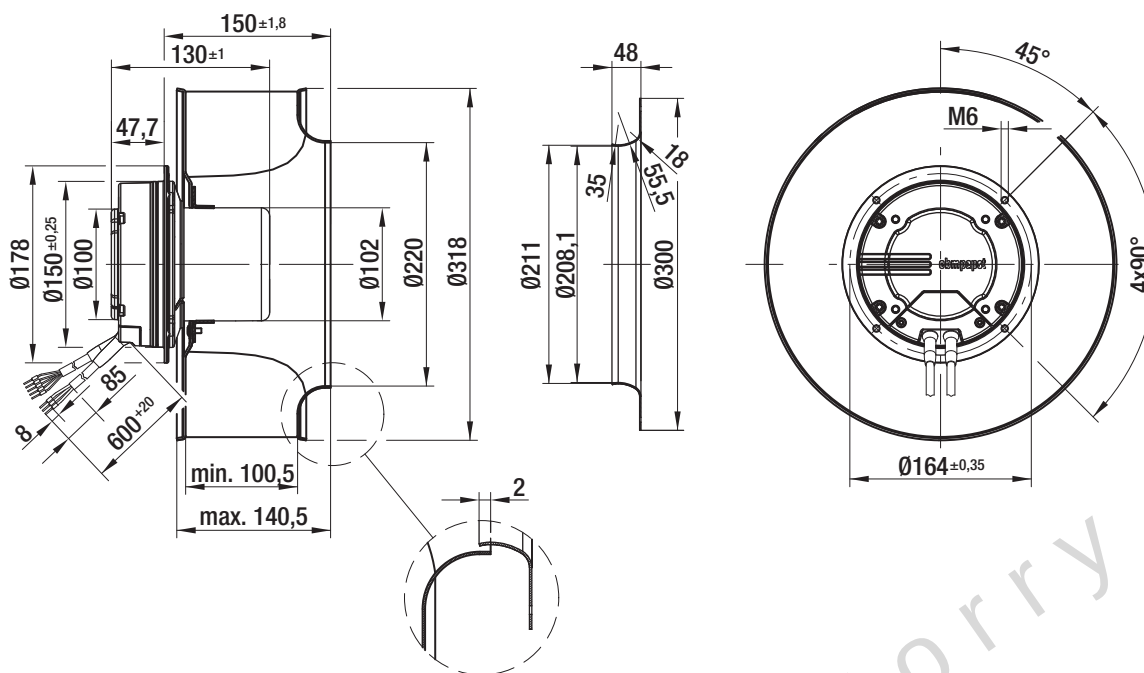
General description	Integrated electronics
Size	310 mm
Operation mode	Continuous operation (S1)
Direction of rotation	Clockwise, seen on rotor
Mounting position	Shaft horizontal or rotor on top; rotor on bottom on request
Insulation class	"B"
Cable exit	Variable
Motor bearing	Ball bearing
Mass	4.5 kg
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

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Product drawing

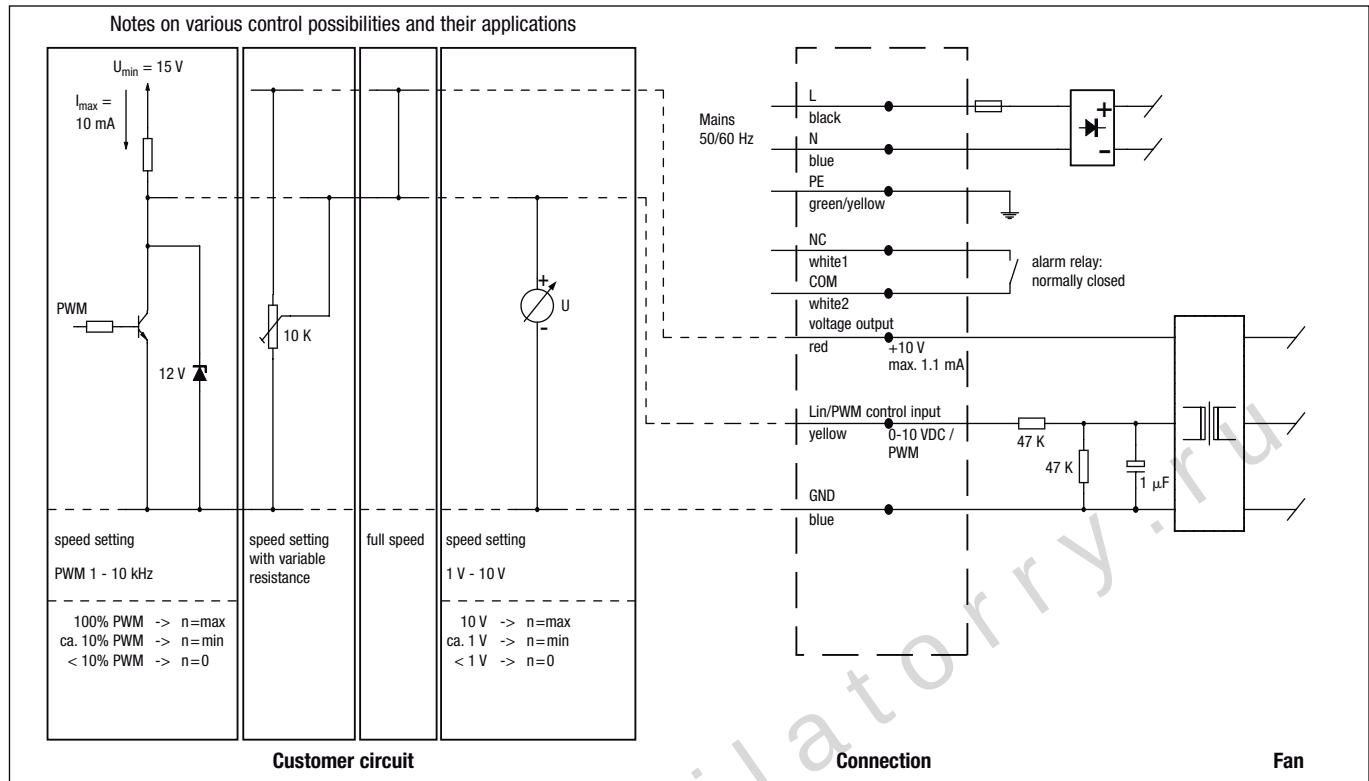


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Connection screen



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

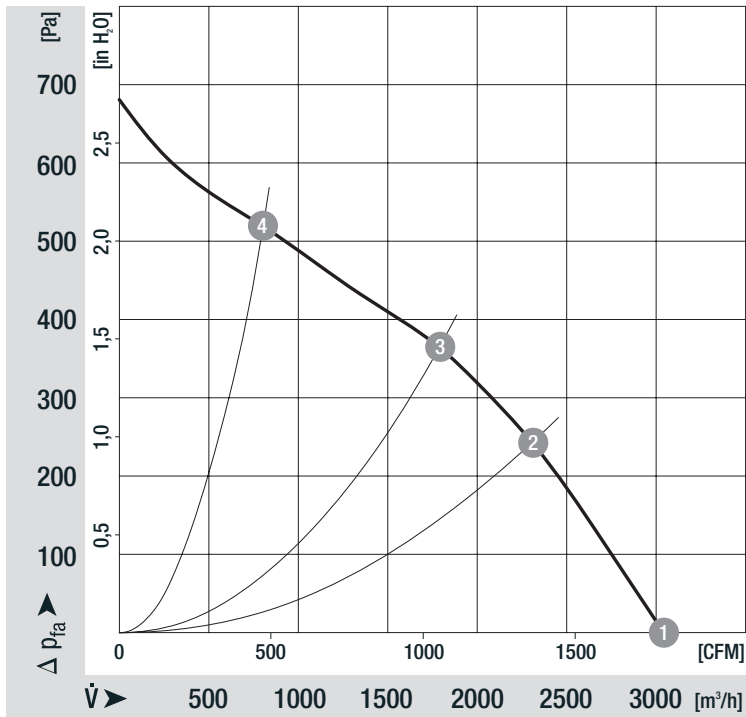
Line	Signal	Colour	Assignment / function
2	+10 V	red	Voltage output +10 V max. 1.1 mA
	0-10 V / PWM	yellow	Control input
	GND	blue	GND

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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