

R3G310-A075-01

EC centrifugal fan

backward curved, single inlet

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Technical features

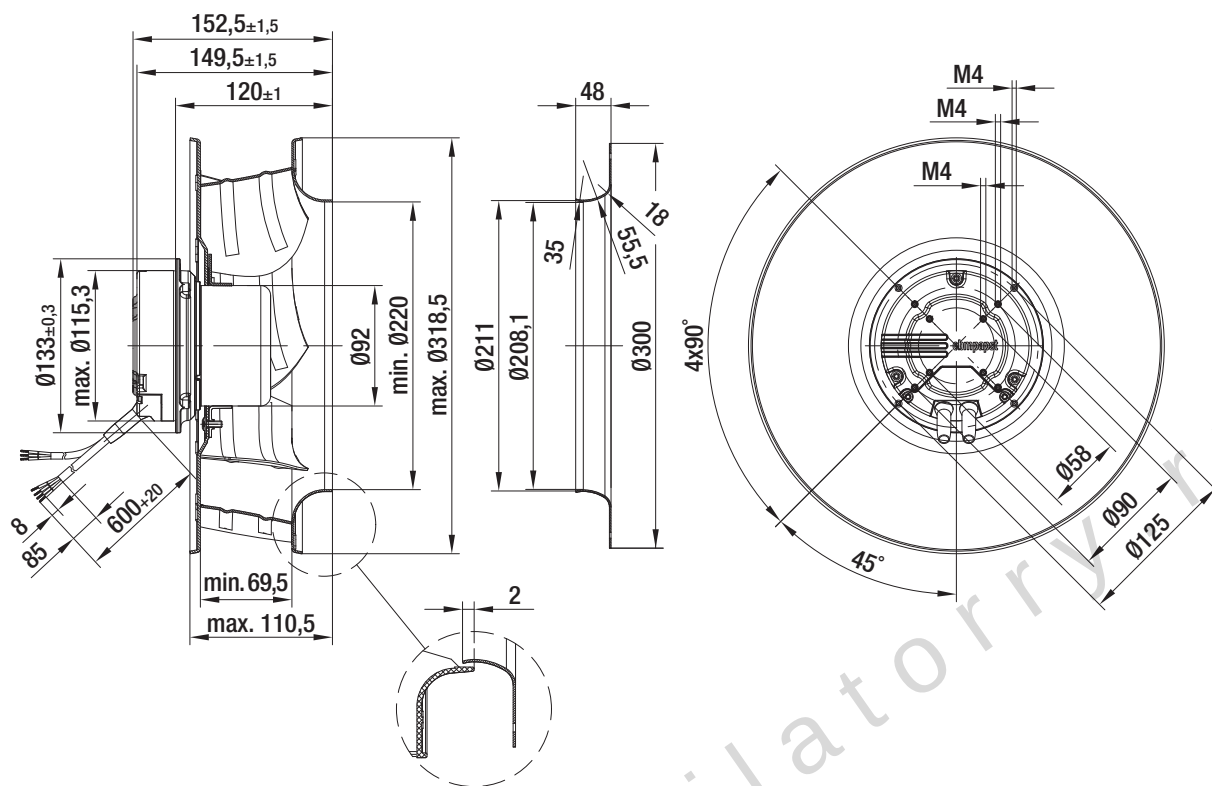
Leackage current	<= 3,5 mA
General description	Integrated electronics
Size	310 mm
Operation mode	Continuous operation (S1)
Direction of rotation	Clockwise, seen on rotor
Mounting position	Shaft horizontal or rotor on top; rotor on bottom on request
Insulation class	"B"
Cable exit	Variable
Bearing motor	Ball bearing
Mass	3.1 kg
Material of electronics housing	Electronics enclosure: die-cast aluminum, rotor: galvanized
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, tach output, over-temperature protected electronics / motor

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Product drawing

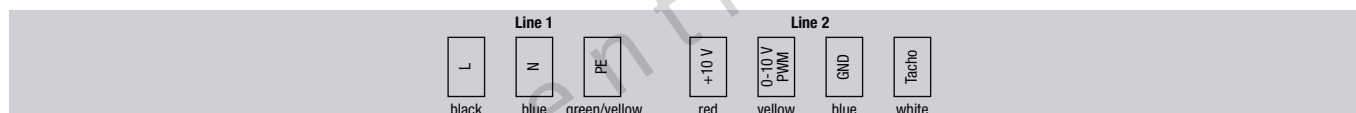
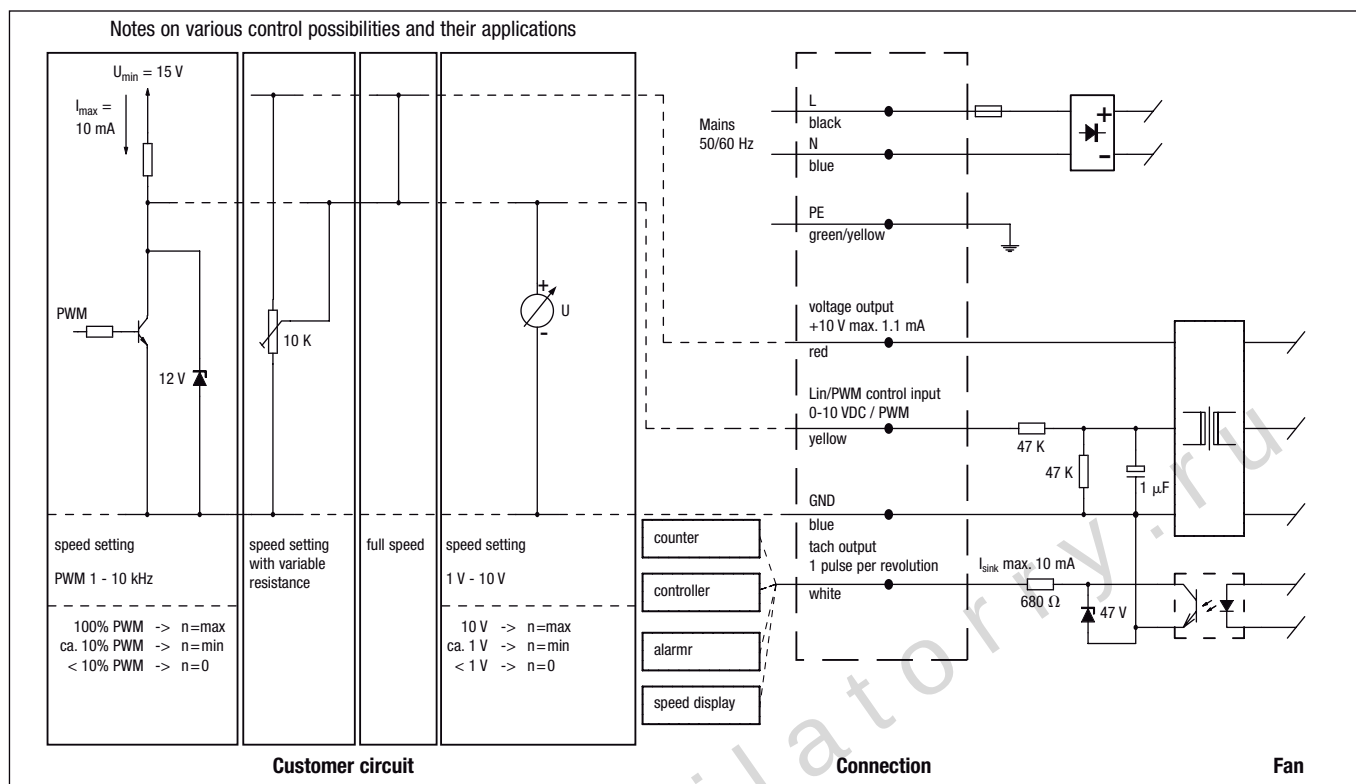


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Connection screen



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

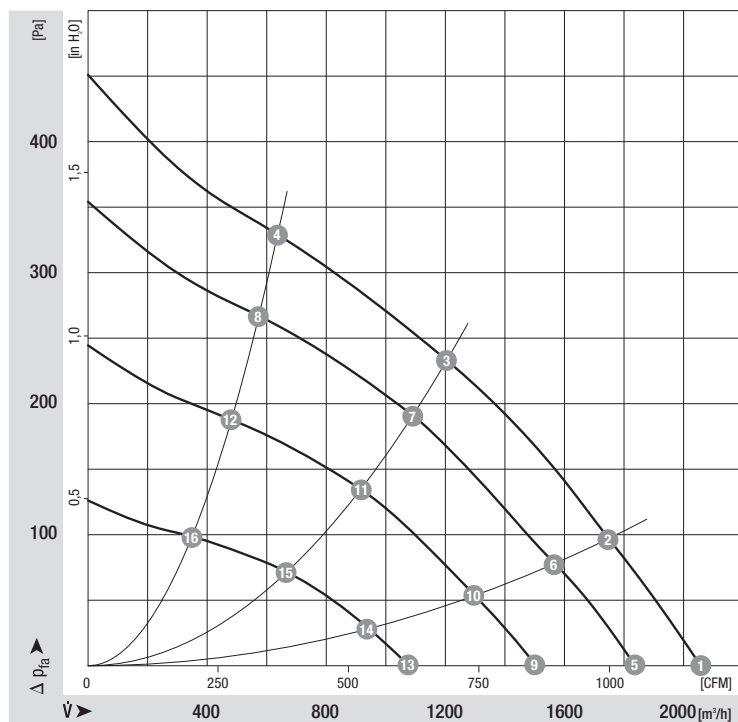
Line	Signal	Colour	Assignment / function
2	+10 V	red	Voltage output +10 V max. 1.1 mA
	0-10 V / PWM	yellow	Control input
	GND	blue	GND
	Tacho	white	Tach output: pulses per revolution

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Charts: Air flow



Measured values

	n	P ₁	I	η_{TL}
	[min ⁻¹]	[W]	[A]	[%]
1	1700	111	1.50	
2	1640	133	1.70	64
3	1600	152	1.90	75
4	1630	140	1.80	55
5	1530	80	1.10	
6	1480	98	1.30	63
7	1450	110	1.50	75
8	1470	103	1.40	58
9	1270	50	0.70	
10	1240	61	0.80	57
11	1220	68	0.90	73
12	1230	64	0.90	54
13	920	22	0.40	
14	900	26	0.40	49
15	890	30	0.50	64
16	900	28	0.40	48