R3G310-AN12-30/F01

EC centrifugal fan

backward curved, single inlet

Nominal data

Motor	M3G084-FA	
Nominal voltage	[VDC]	48
Nominal voltage range	[VDC]	36 .. 57
Type of data definition		rfa
Speed	[min^{-1}]	2000
Power input	[W]	190
Current draw	[A]	4,0
Max. ambient temperature	[°C]	60
Air flow	[m^3/h]	2275
Back pressure	[Pa]	0
Sound pressure level	[dB(A)]	71

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

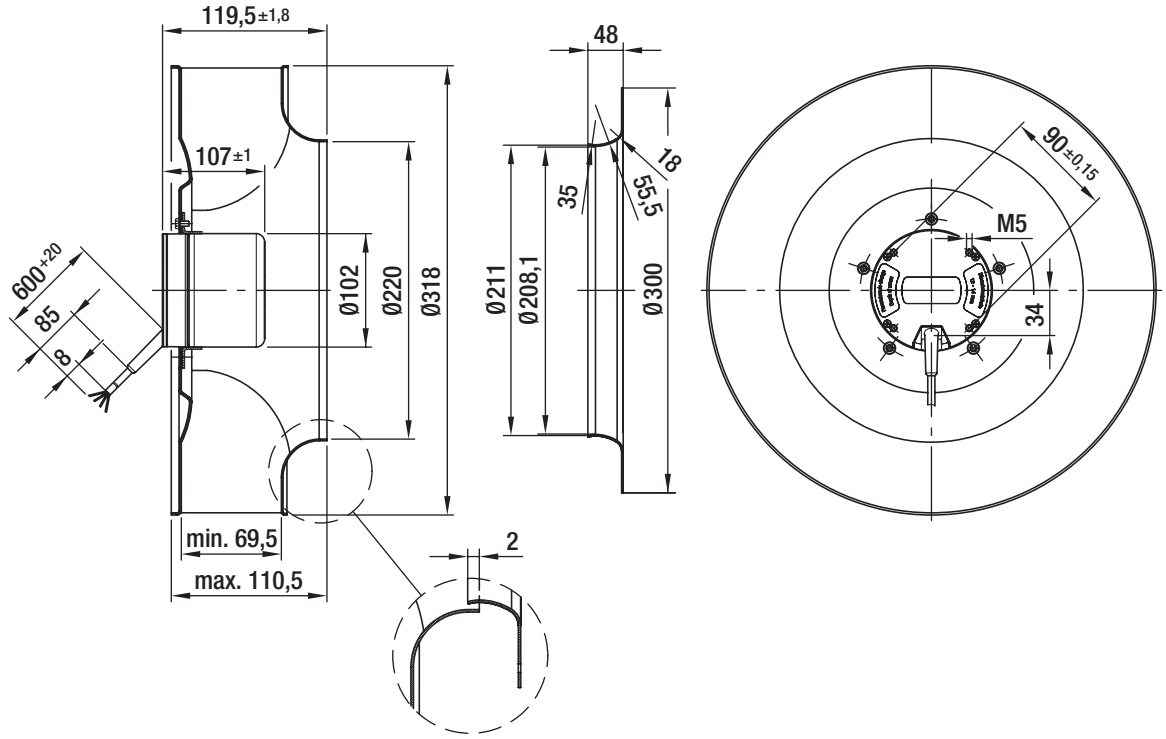
Technical features

Leackage current	<= 0,25 mA
Size	310 mm
Operation mode	Continuous operation (S1)
Direction of rotation	Clockwise, seen on rotor
Mounting position	Any
Insulation class	"B"
Cable exit	Variable
Bearing motor	Ball bearing
Mass	4.2 kg
Material of electronics housing	Rotor: Coated in black
Material of impeller	Aluminum sheet, rivet
Motor protection	Thermal overload protector (TOP) wired internally
Number of blades	6
Type of protection	IP 42
Protection class	I
Technical features	Control input 0-10 VDC / PWM, tach output, over-temperature protected motor, polarity and locked rotor protection
Approval	CCC; CSA C22.2 Nr.77; UL 2111

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Product drawing

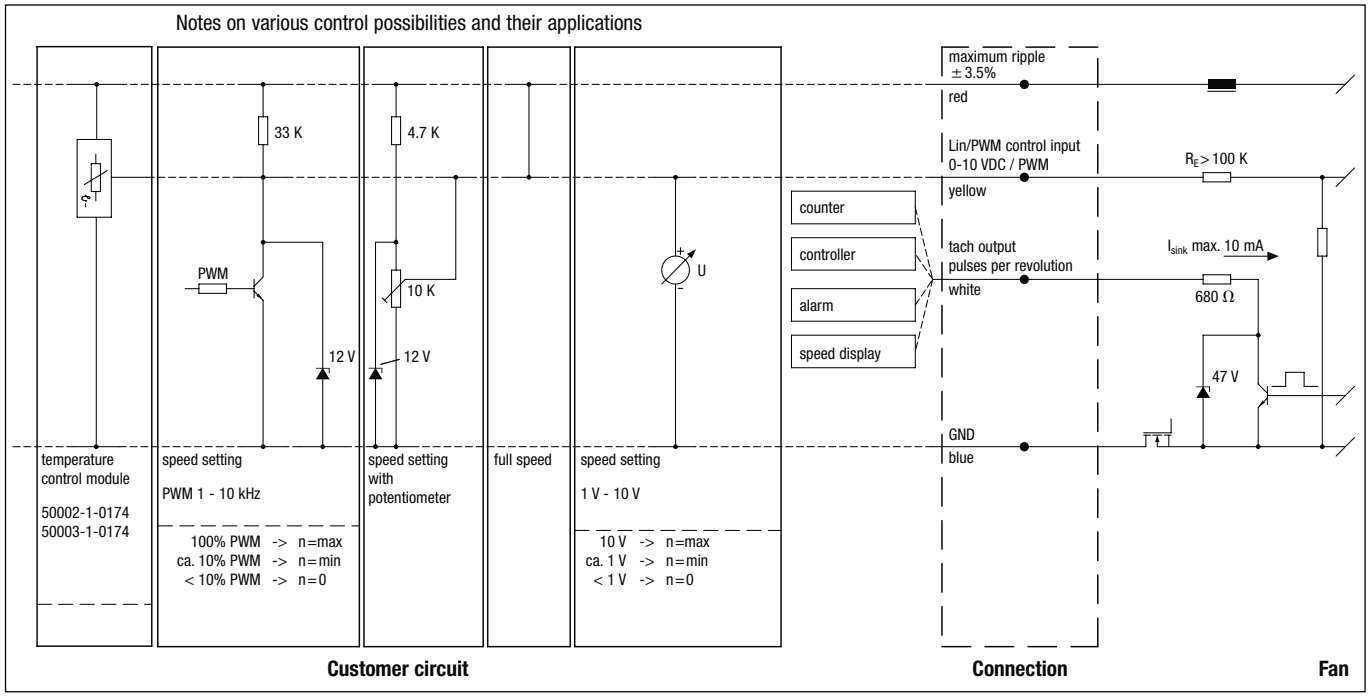


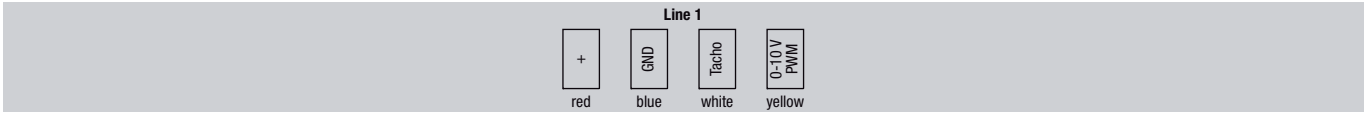
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Connection screen





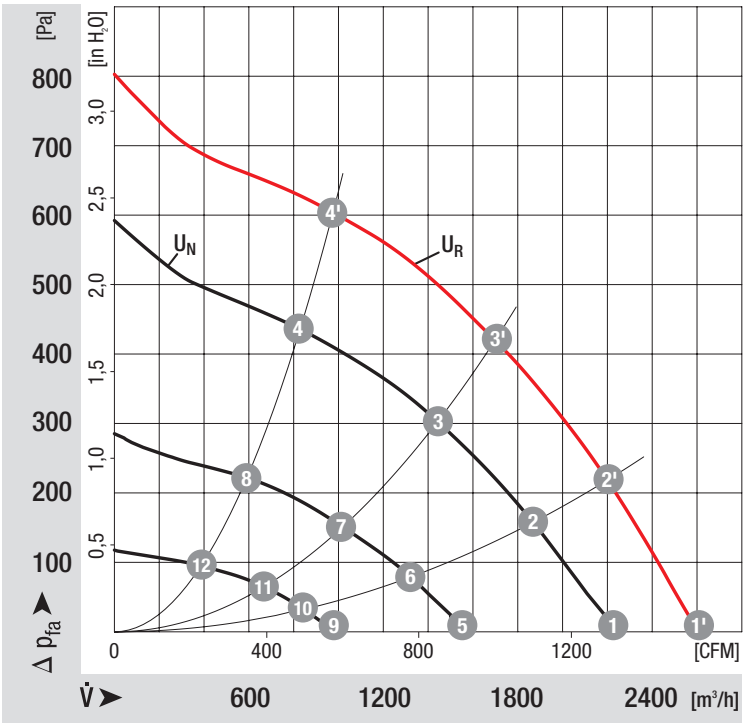
Line	Signal	Colour	Assignment / function
1	+	red	maximum ripple ± 3.5 %
	GND	blue	GND

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

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Charts: Air flow



Measured values

	n	P_1	η_{TL}
	[min-1]	[W]	[%]
1'	2395	271	
2'	2345	325	47
3'	2320	362	60
4'	2330	350	54
1	2070	178	
2	2035	211	47
3	2015	234	60
4	2025	227	54
5	1445	66	
6	1430	79	47
7	1420	88	60
8	1420	85	54
9	930	23	
10	925	26	47
11	920	29	60
12	920	28	54

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