

R3G160-AC50-01

EC centrifugal fan

forward curved, single inlet



Nominal data

Type	R3G160-AC50-01	
Motor	M3G074-CF	
Nominal voltage	[VAC]	230
Nominal voltage range	[VAC]	200 .. 277
Frequency	[Hz]	50/60
Type of data definition		rfa
Speed	[min ⁻¹]	2150
Power input	[W]	170
Current draw	[A]	1,25
Max. ambient temperature	[°C]	60
Air flow	[m ³ /h]	630
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

R3G160-AC50-01

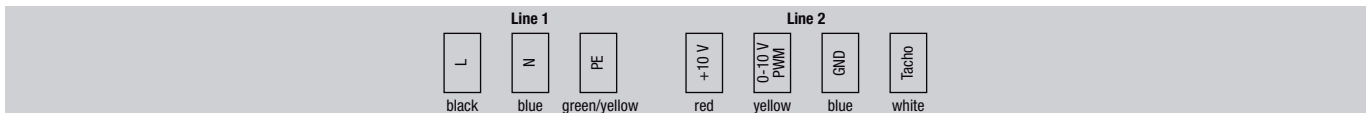
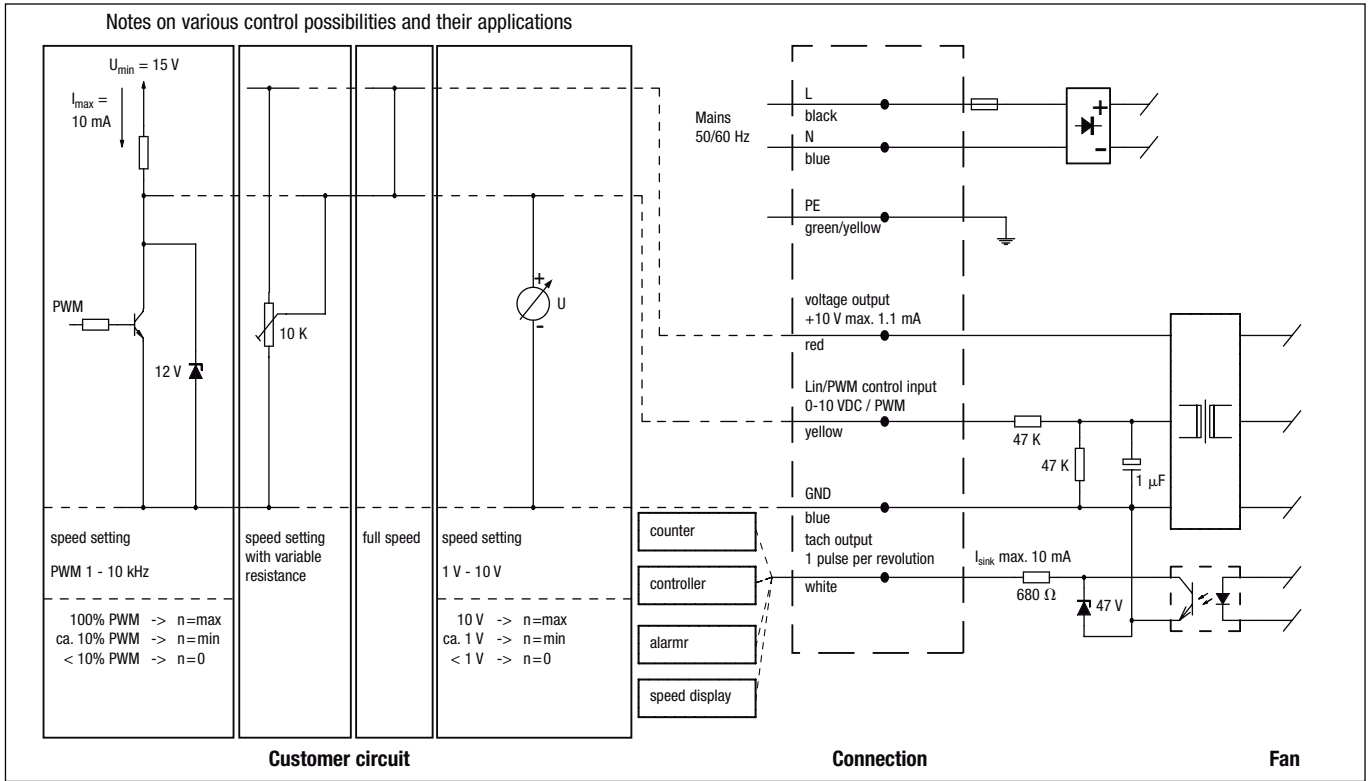
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Technical features

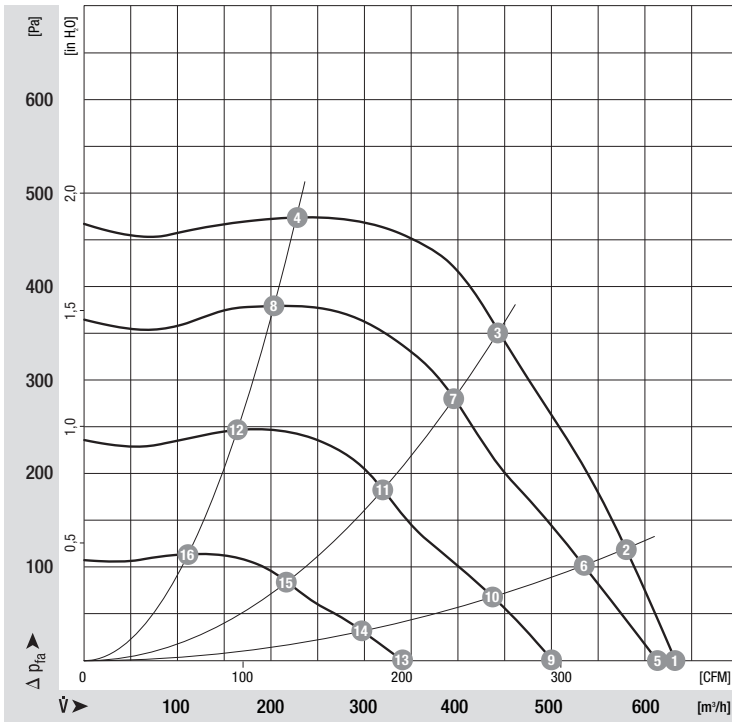
General description	Integrated electronics
Size	160 mm
Operation mode	Continuous operation (S1)
Direction of rotation	Clockwise, seen on rotor
Mounting position	Shaft horizontal or rotor on top; rotor on bottom on request
Insulation class	"B"
Cable exit	Variable
Bearing motor	Ball bearing
Mass	2.0 kg
Material of electronics housing	Rotor: Coated in black
Material of impeller	Sendzimir galvanized sheet steel
Motor protection	Thermal overload protector (TOP) wired internally
Product conforming to standard	CE
Type of protection	IP 44 - depending on position
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
Approval	CSA; UL

Connection screen



Line	Signal	Colour	Assignment / function	Line	Signal	Colour	Assignment / function
1	L	black	Mains 50/60 Hz, phase	2	+10 V	red	Voltage output +10 V max. 1.1 mA
	N	blue	Mains 50/60 Hz, neutral		0-10 V / PWM	yellow	Control input
	PE	green/yellow	Protective earth		GND	blue	GND
					Tacho	white	Tach output: pulses per revolution

Charts: Air flow



Measured values

	n	P ₁	I	η _{TL}
	[min ⁻¹]	[W]	[A]	[%]
1	2150	170	1.25	
2	2320	172	1.30	39
3	2450	139	1.10	41
4	2540	91	0.70	46
5	2070	153	1.10	41
6	2090	138	1.00	40
7	2150	101	0.80	56
8	2205	68	0.60	45
9	1700	91	0.70	
10	1730	80	0.60	37
11	1760	60	0.50	49
12	1795	41	0.30	37
13	1190	37	0.30	
14	1200	33	0.30	29
15	1220	27	0.25	35
16	1240	20	0.20	27