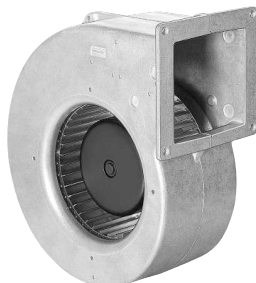


G3G160-AC50-01

EC centrifugal fan

forward curved, single inlet
with housing (flange)



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Nominal data

Type	G3G160-AC50-01	
Motor	M3G074-CF	
Phase		1~
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
Min. ambient temperature	[°C]	-25
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

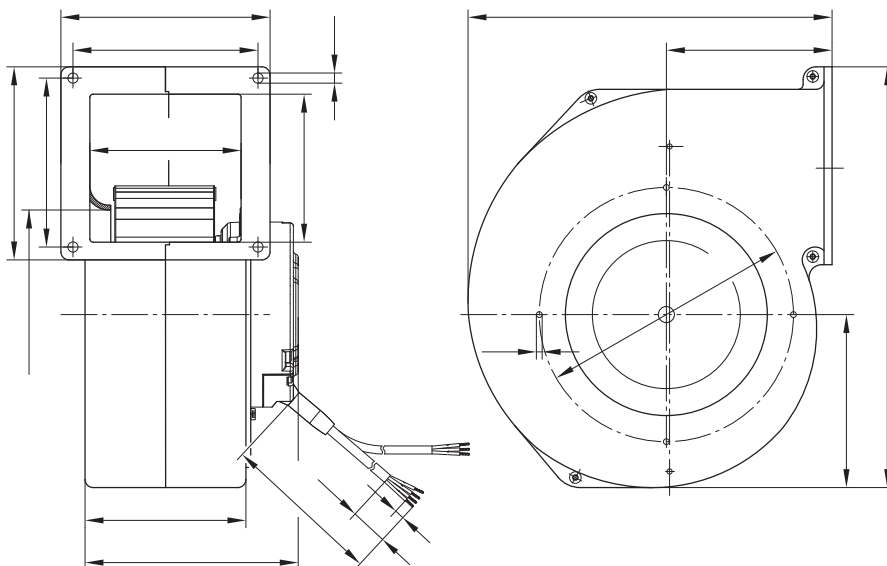
Leakage current	<= 3.5 mA
General description	Integrated electronics
Size	160 mm
Operation mode	S1
Direction of rotation	Clockwise, seen on rotor
Mounting position	Shaft horizontal or rotor on top; rotor on bottom on request
EMC harmonics	Acc. to EN 61000-3-2/3
EMC interference emission	Acc. to EN 61000-6-3 (household environment)
EMC interference immunity	Acc. to EN 61000-6-2
Insulation class	"B"
Cable exit	Variable
Condensate discharge holes	None
Motor bearing	Ball bearing
Mass	3.5 kg
Housing material	Die-cast aluminium
Material of impeller	Sendzimir galvanized sheet steel
Motor protection	Thermal overload protector (TOP) wired internally
Product conforming to standard	CE; EN 60335-1
Surface of rotor	Uncoated
Type of protection	IP 44
Protection class	I
Technical features	- Tach output - Soft start - Motor current limit - Control input 0-10 VDC / PWM - Output 10 VDC, max. 1.1 mA
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Approval	CSA C22.2 Nr.77; UL 2111

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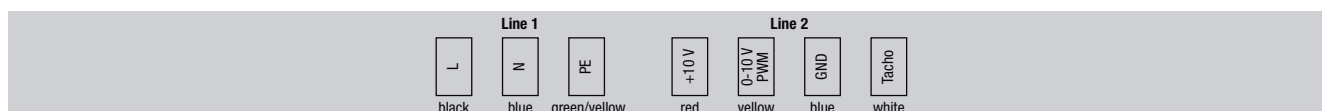
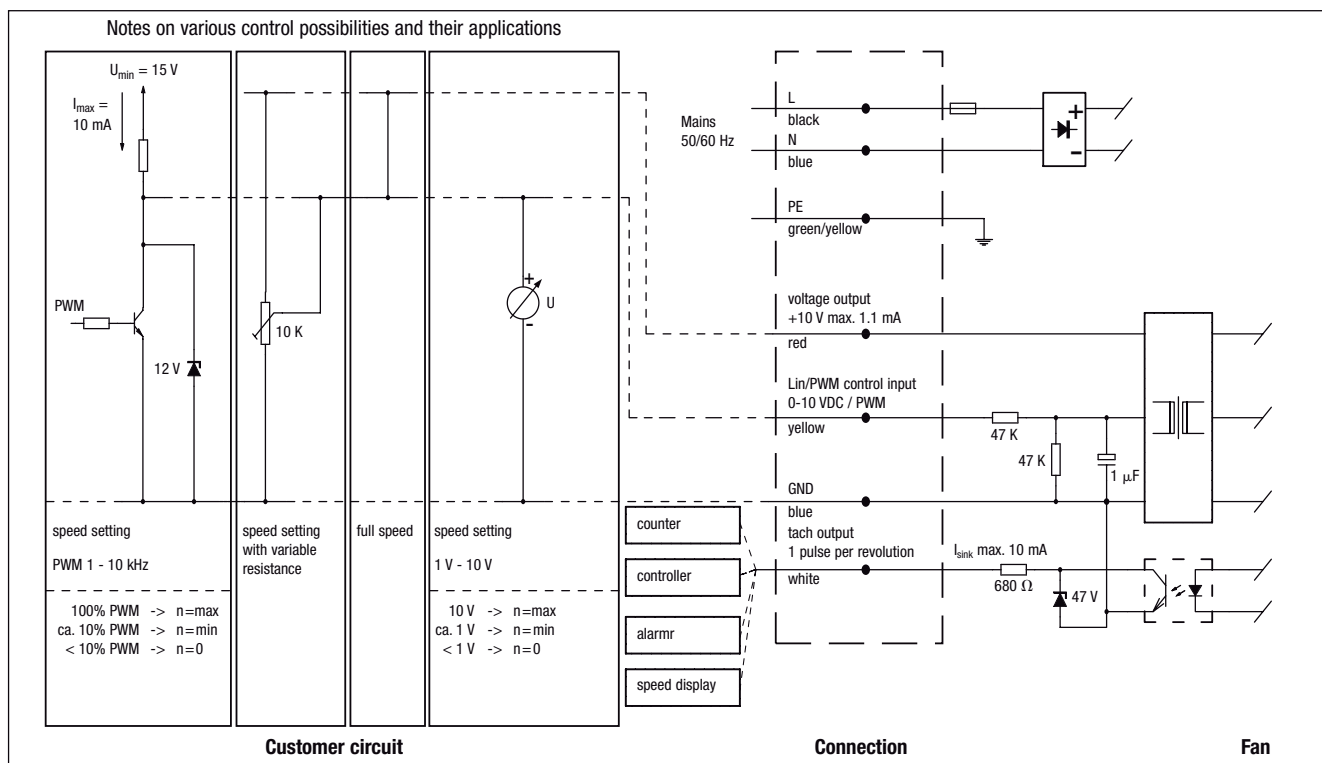
Product drawing



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Connection screen



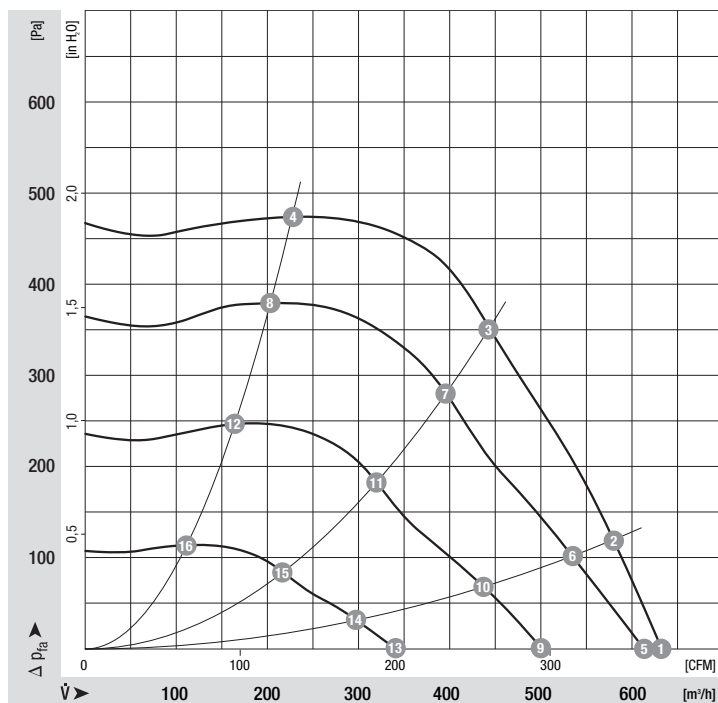
Line	Signal	Colour	Assignment / function
1	L	black	Mains 50/60 Hz, phase
	N	blue	Mains 50/60 Hz, neutral
	PE	green/yellow	Protective earth

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	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