R3G220-AE70-01

EC centrifugal fan

backward curved, single inlet

ebm-papst Mulfingen GmbH & Co. KG
Bachmühle 2
D-74673 Mulfingen
Phone +49 7938 81-0
Fax +49 7938 81-110
info1@de.ebmpapst.com
www.ebmpapst.com

Nominal data

Type	**R3G220-AE70-01**
Motor	**M3G074-CF**

Phase		1~
Nominal voltage	VAC	230
Nominal voltage range	VAC	97 .. 127
Frequency	Hz	50/60
Type of data definition		ml
Speed	min^{-1}	3280
Power input	W	170
Current draw	A	2.2
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	220 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
Humidity class	F3-1
Insulation class	"B"
Cable exit	Variable
Motor bearing	Ball bearing
Mass	2.2 kg
Material of electronics housing	Rotor: Galvanized
Material of impeller	PA plastic 6.6, fiberglass-reinforced
Motor protection	Thermal overload protector (TOP) wired internally
Number of blades	11
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
Approval	CSA C22.2 Nr.77; UL 2111

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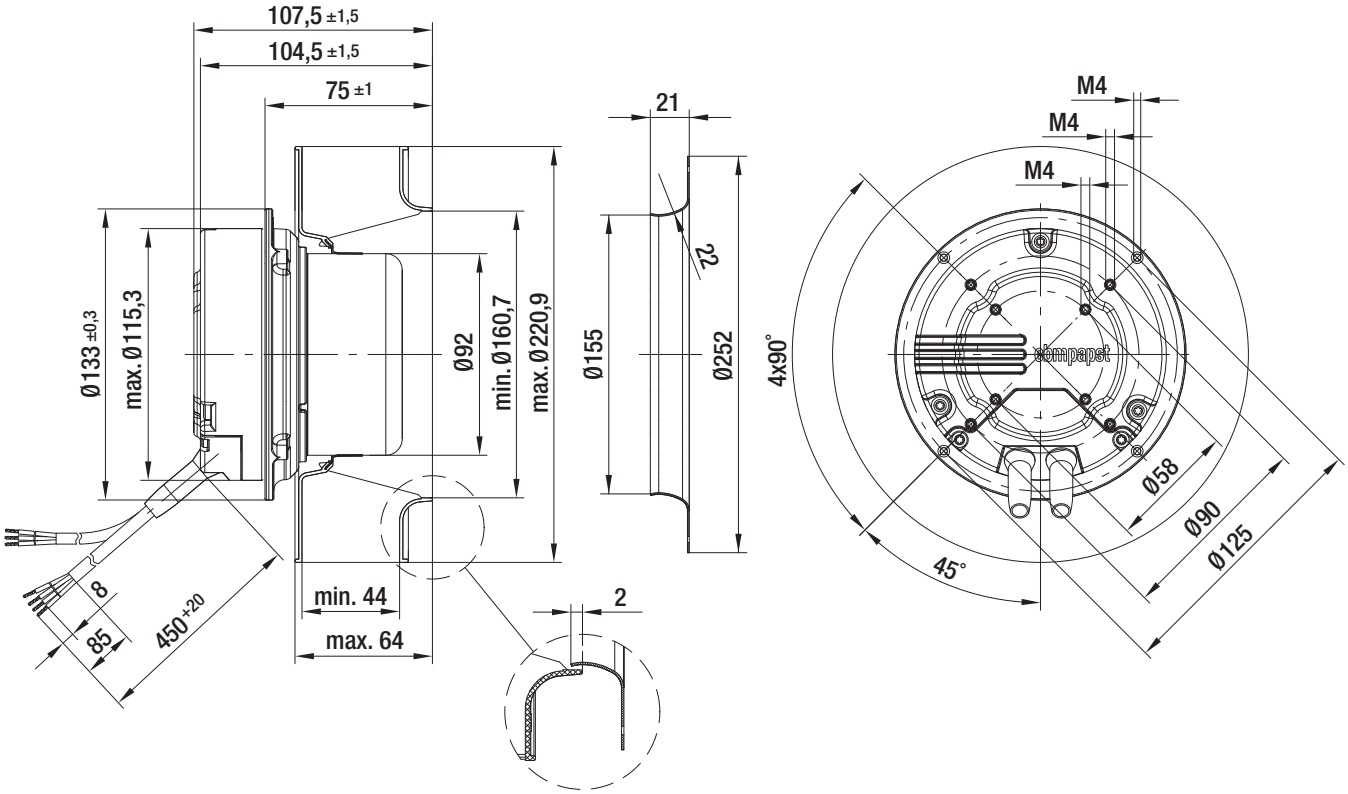
Product drawing



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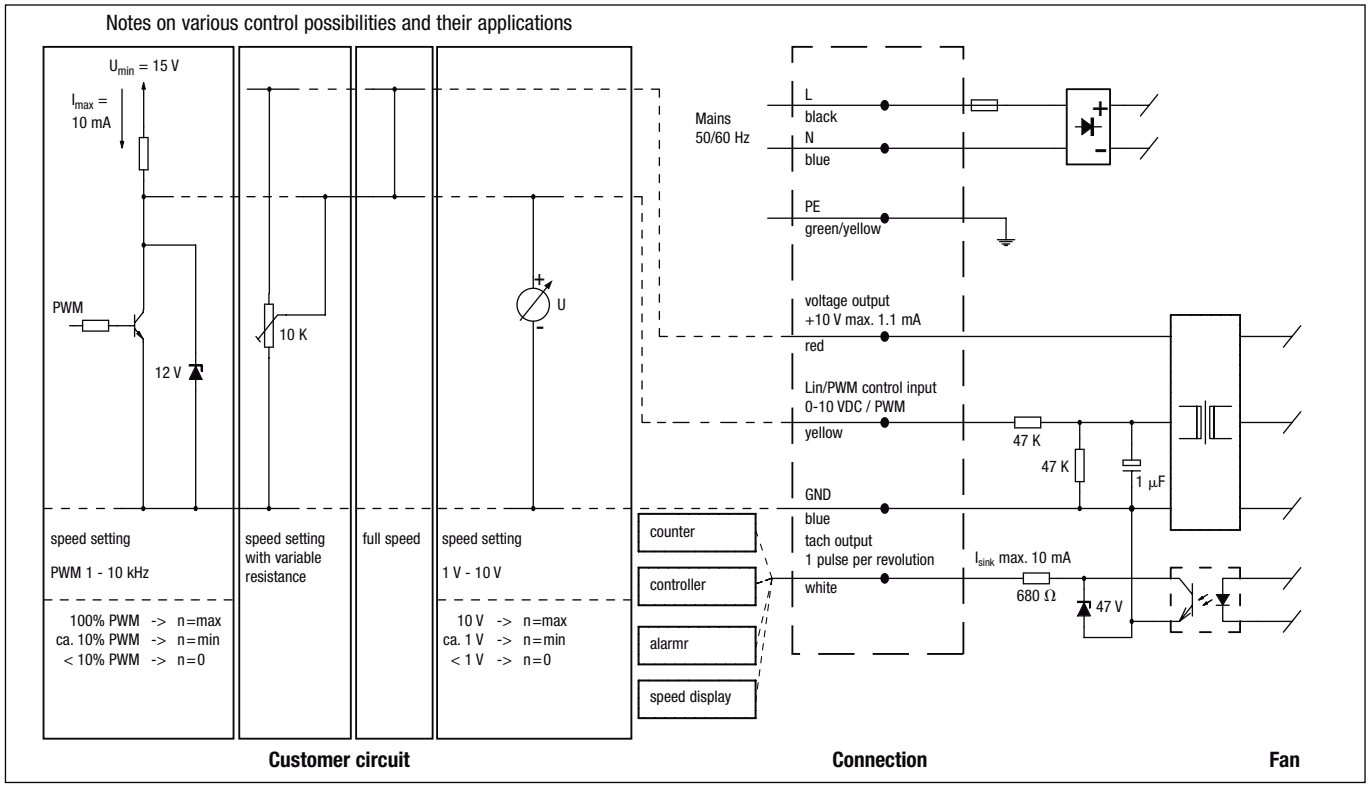
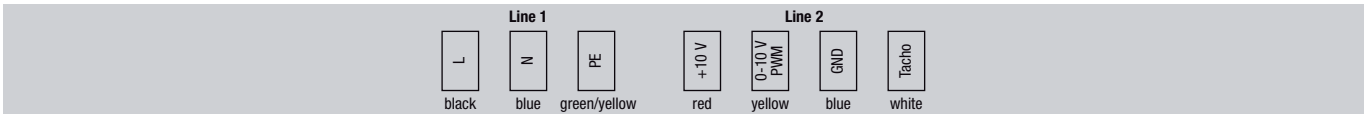
Connection screen





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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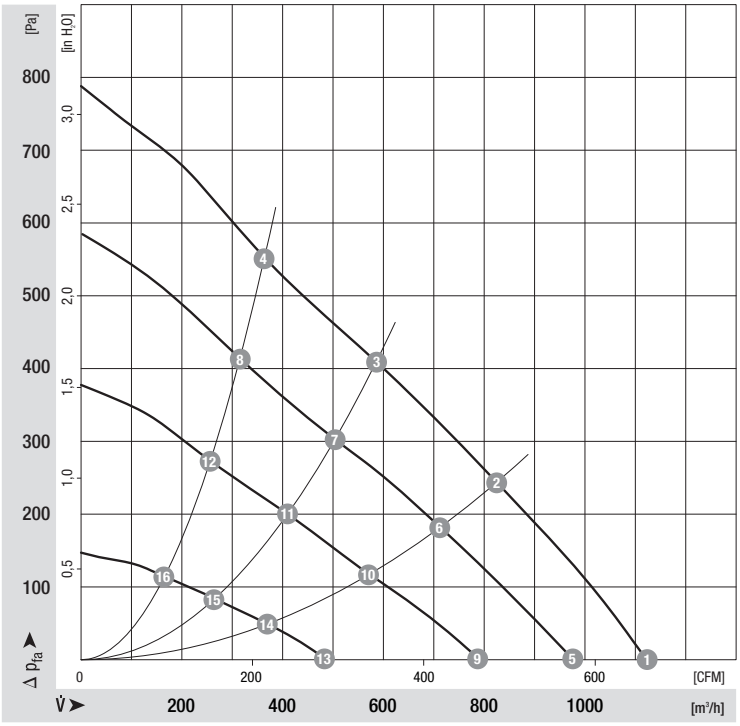
Charts: Air flow



Measured values

	n	P_e	I
	min^{-1}	W	A
1	3590	158	2.00
2	3360	164	2.10
3	3260	160	2.00
4	3330	164	2.10
5	3110	106	1.40
6	2890	110	1.40
7	2810	108	1.40
8	2870	114	1.50
9	2510	62	0.90
10	2350	60	0.80
11	2280	60	0.80
12	2330	61	0.90
13	1590	21	0.30
14	1820	23	0.30
15	1470	21	0.30
16	1500	21	0.30

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