

R1G220-AB35-52

EC centrifugal fan

backward curved, single inlet

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Nominal data

Type	R1G220-AB35-52	
Motor	M1G074-BF	
Nominal voltage	[VDC]	24
Nominal voltage range	[VDC]	16 .. 28
Type of data definition		rfa
Speed	[min ⁻¹]	3150
Power input	[W]	106
Current draw	[A]	5.0
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

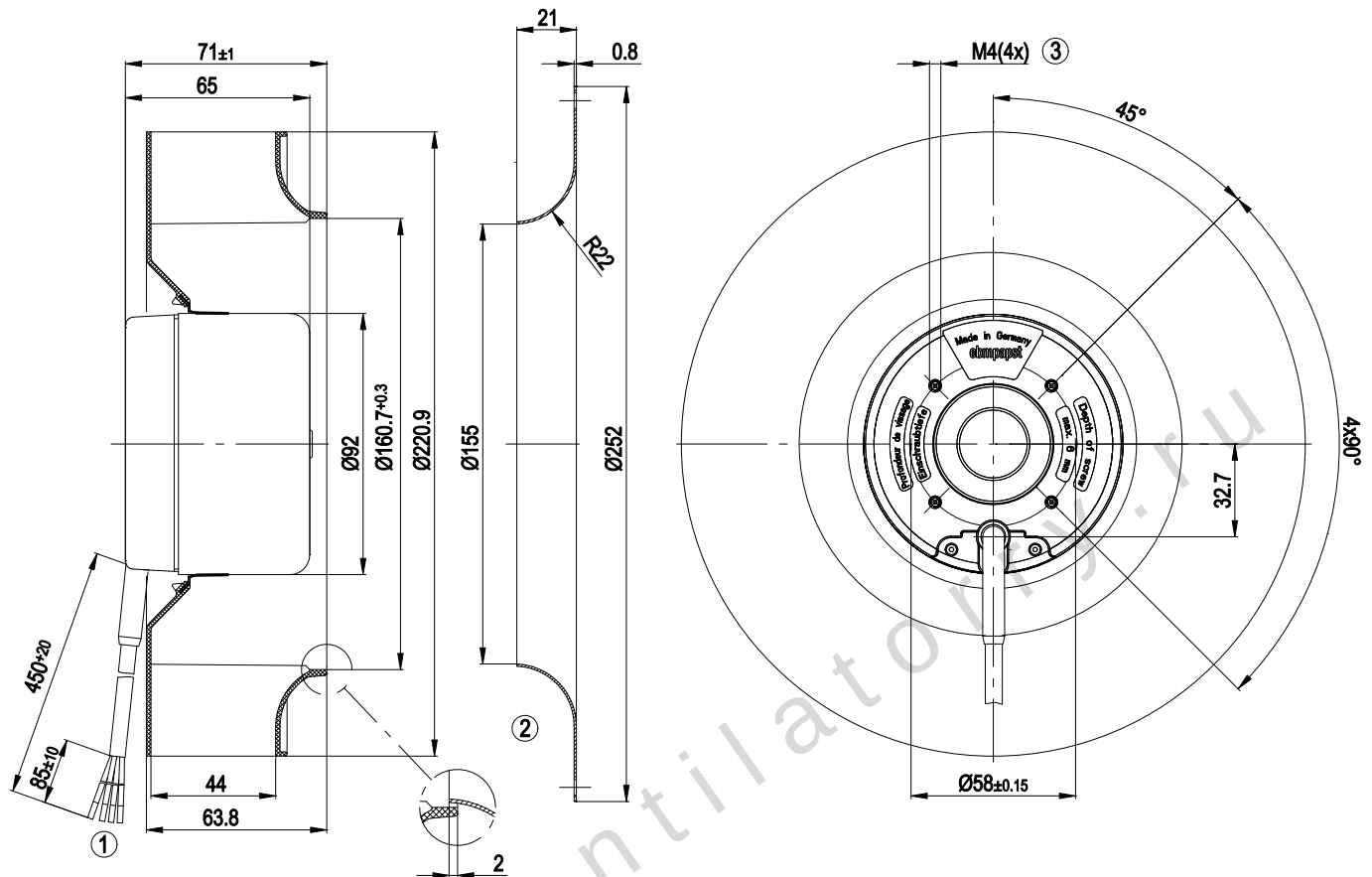
Size	220 mm
Operation mode	S1
Direction of rotation	Clockwise, seen on rotor
Mounting position	Any
EMC interference emission	Acc. to EN 55022 (Class B)
EMC interference immunity	Acc. to EN 61000-6-2
Insulation class	"B"
Cable exit	Variable
Condensate discharge holes	None
Bearing motor	Ball bearing
Mass	1.4 kg
Material of impeller	Plastic PA66, fibreglass-reinforced
Motor protection	Reverse polarity and locked-rotor protection
Product conforming to standard	EN 60950-1
Surface of rotor	Coated in black
Number of blades	11
Type of protection	IP 42
Technical features	- Control input 0-10 VDC / PWM - Tach output - Motor current limit - Soft start
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 1004

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Product drawing



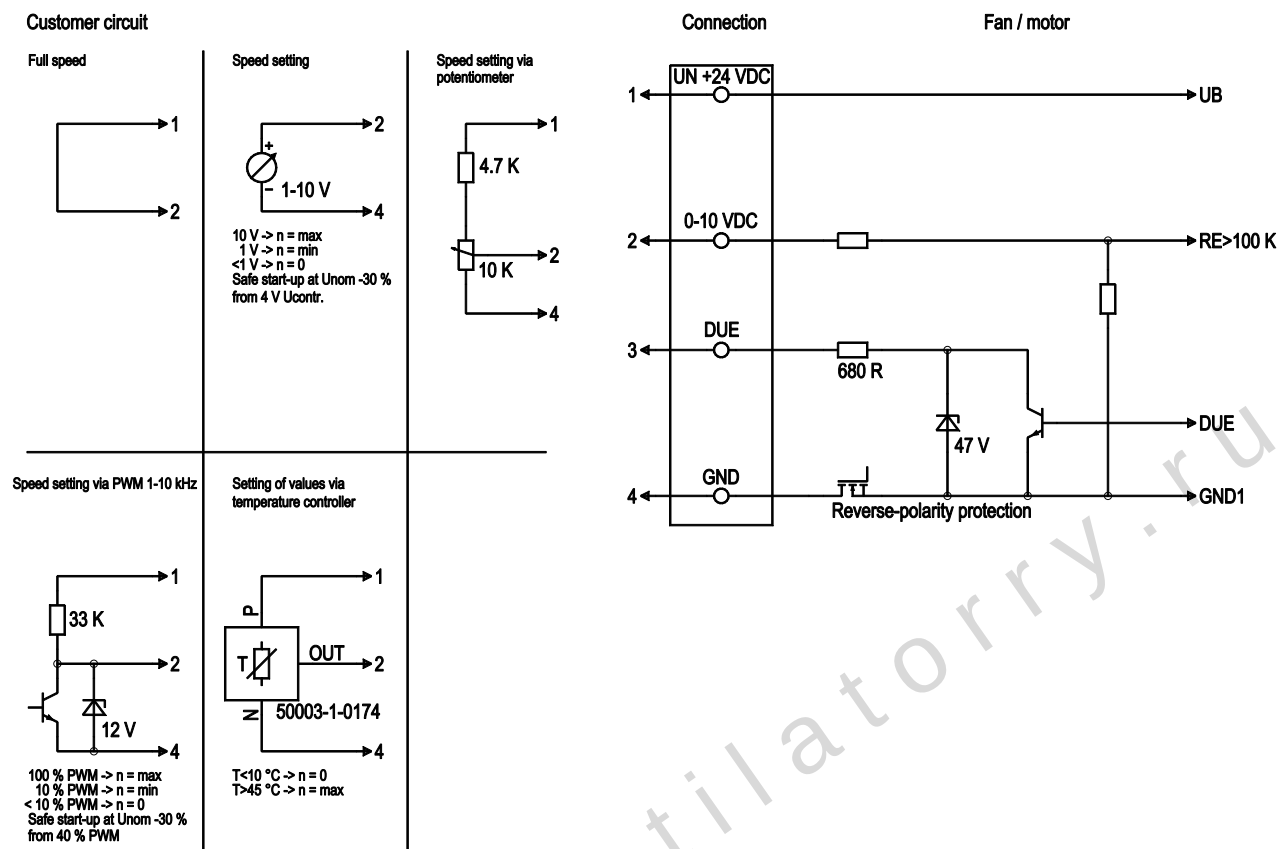
1	Connection line AWG20, 4 x brass lead tips crimped
2	Accessory part: Inlet nozzle 09609-2-4013, not included in the standard scope of delivery
3	Depth of screw max. 6 mm

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Connection screen



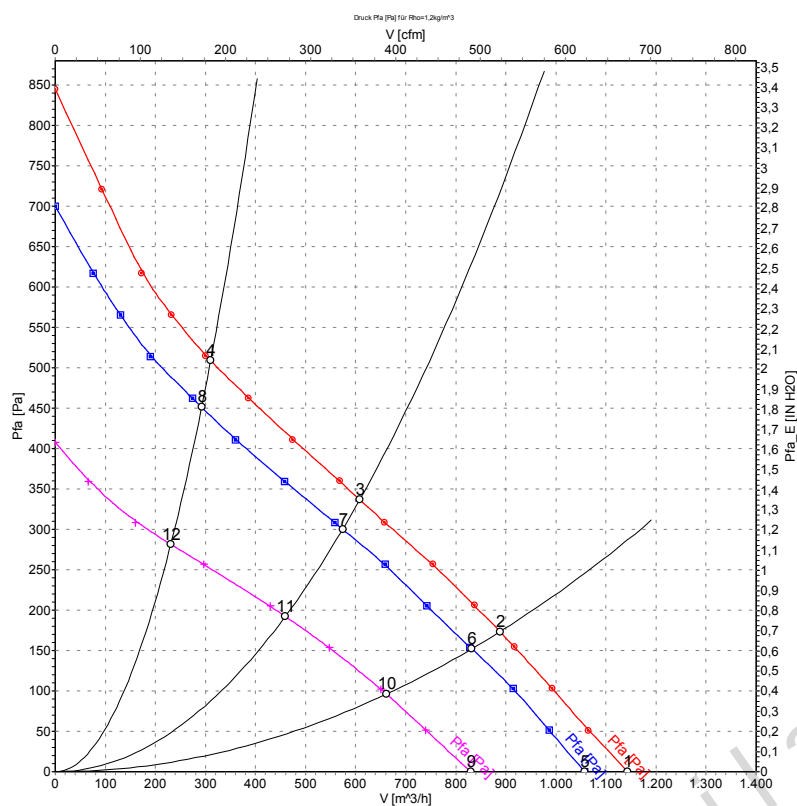
Line	No.	Signal	Colour	Function / assignment
1	1	Un +24 VDC	red	Power supply 24 VDC, residual ripple 3.5 %
1	2	0-10 VDC	yellow	Control input Re > 100 K
1	3	DUE	white	Speed monitoring output, 3 pulses per rotation, Isink max = 10 mA
1	4	GND	blue	Reference mass

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Charts: Air flow



Measured values

	U	n	P ₁	I	$\dot{V}$	P _{fa}
	[V]	[min ⁻¹]	[W]	[A]	[m³/h]	[Pa]
1	28	3405	129	5.33	1145	0
2	28	3135	134	5.71	890	173
3	28	2985	137	5.96	610	337
4	28	3175	133	5.63	310	508
5	24	3150	106	5.00	1055	0
6	24	2930	112	5.32	830	150
7	24	2810	114	5.52	575	300
8	24	2980	111	5.25	290	450
9	16	2460	50	3.50	830	0
10	16	2330	56	3.88	660	97
11	16	2260	59	4.11	460	192
12	16	2360	55	3.81	230	282