R1G225-AF07-28

EC centrifugal fan

backward curved, single inlet

R1G225-AF07-28 ebmpapst Datasheet
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Nominal data

Type	**R1G225-AF07-28**	
Motor	**M1G074-BF**	
Nominal voltage	[VDC]	24
Nominal voltage range	[VDC]	16 .. 28
Type of data definition		rfa
Speed	[min^{-1}]	2600
Power input	[W]	100
Current draw	[A]	4,6
Min. ambient temperature	[°C]	- 25
Max. ambient temperature	[°C]	+60
Air flow	[m^3/h]	1125
Back pressure	[Pa]	0
Sound pressure level	[dB(A)]	67

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

Leackage current	<= 0,25 mA
Size	225 mm
Stability	Salt fog resistant in accordance with TELCORDIA GR-487-CORE, release No. 2, March 2000
Operation mode	S1
Direction of rotation	Clockwise, seen on rotor
Mounting position	Any
EMC interference emission	Acc. to EN 61000-6-3
EMC interference immunity	Acc. to EN 61000-6-2
Insulation class	"B"
Cable exit	Variable
Condensate discharge holes	None
Bearing motor	Ball bearing
Mass	1.5 kg
Material of impeller	Plastic PA66, fibreglass-reinforced, round sheet-metal plate coated in black
Motor protection	Reverse polarity and locked-rotor protection
Product conforming to standard	EN 60950-1
Surface of rotor	Coated in black
Number of blades	7
Type of protection	IP 44 - depending on position
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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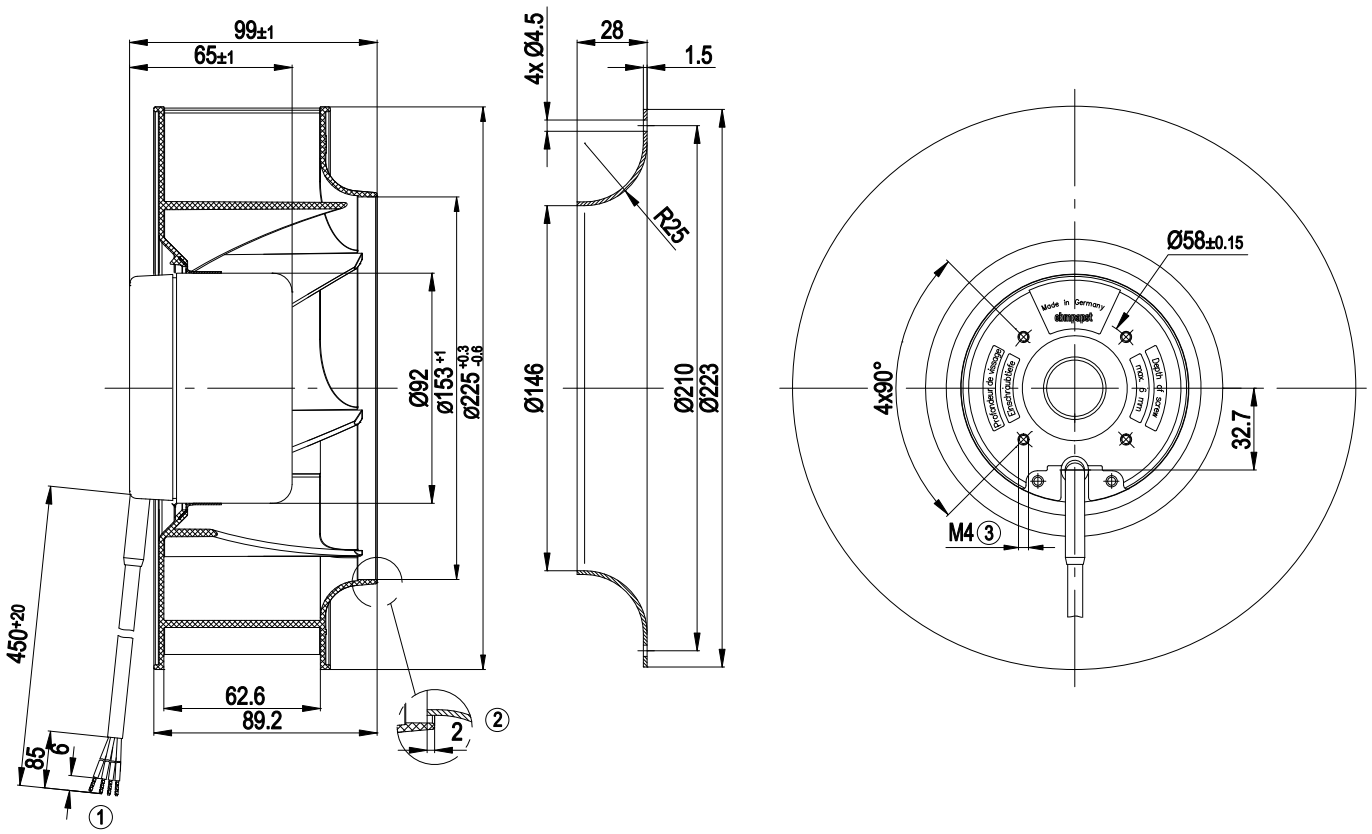
Product drawing



1	Connection line AWG20, 4 x brass lead tips crimped
2	Accessory part: Inlet nozzle 96358-2-4013, not included in the standard scope of delivery
3	Screw depth max. 6 mm

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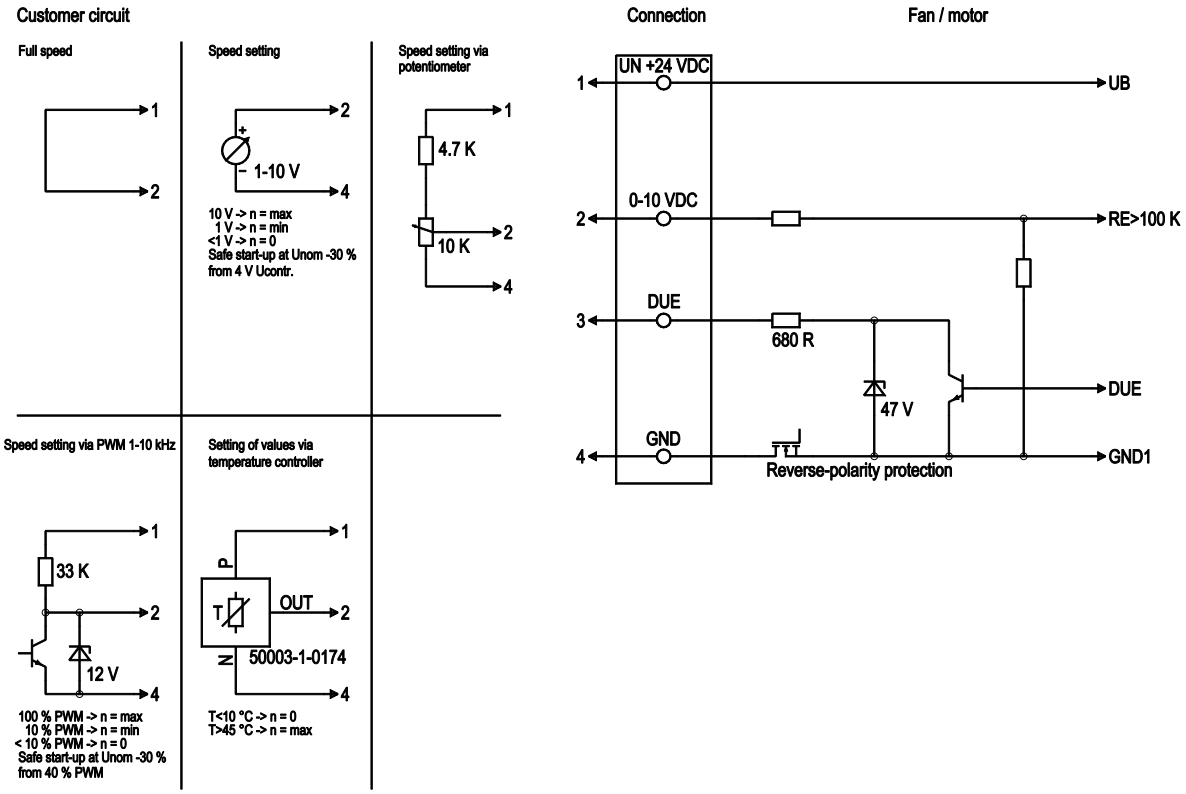
Connection screen



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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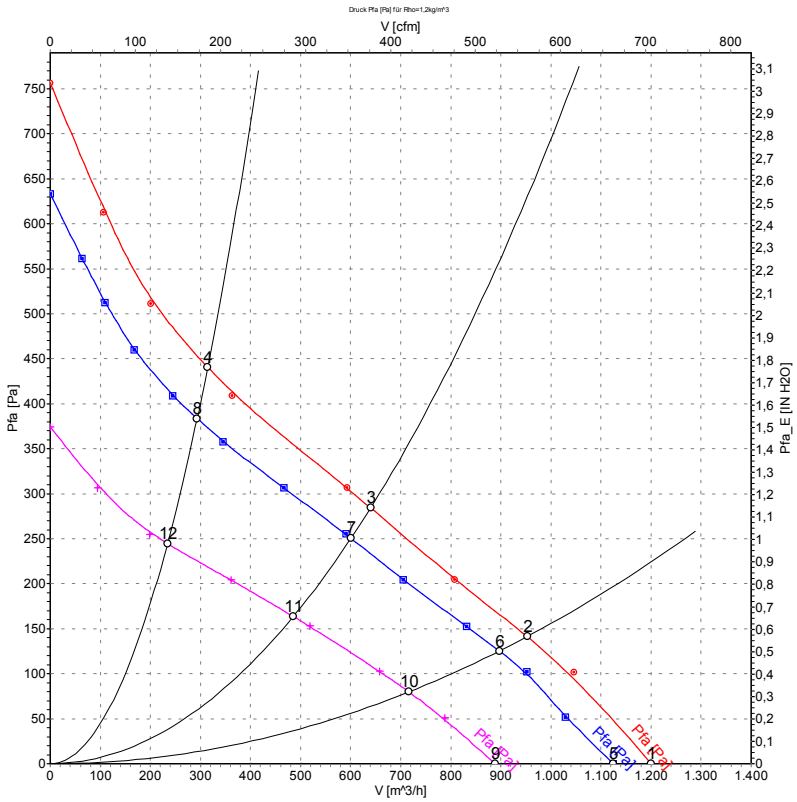
Charts: Air flow



Measurement: LU-52036
Measurement: LU-52035
Measurement: LU-52037

Measured values

	U	n	P_1	I	$\dot{V}$	p_{fa}
	[V]	[min^{-1}]	[W]	[A]	[m^3/h]	[Pa]
1	28	2795	116	4.87	1200	0
2	28	2630	120	5.14	955	142
3	28	2560	122	5.26	640	284
4	28	2745	118	4.96	315	440
5	24	2600	100	4.60	1125	0
6	24	2480	100	4.76	895	125
7	24	2390	101	4.89	600	251
8	24	2570	98	4.63	295	384
9	16	2065	48	3.35	890	0
10	16	1980	52	3.60	715	80
11	16	1940	54	3.72	485	164
12	16	2050	49	3.42	235	244