R1G225-AF07-44

EC centrifugal fan

backward curved



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Limited partnership · Headquarters Mulfingen
County court Stuttgart · HRA 590344

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Nominal data

Type	**R1G225-AF07-44**	
Motor	**M1G074-BF**	
Nominal voltage	VDC	24
Nominal voltage range	VDC	16 .. 28
Type of data definition		fa
Speed	min-1	2600
Power input	W	100
Current draw	A	4.6
Min. ambient temperature	°C	- 25
Max. ambient temperature	°C	+70

ml = max. load · me = max. efficiency · fa = running at free air · cs = customer specs · cu = customer unit
Subject to alterations

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Technical features

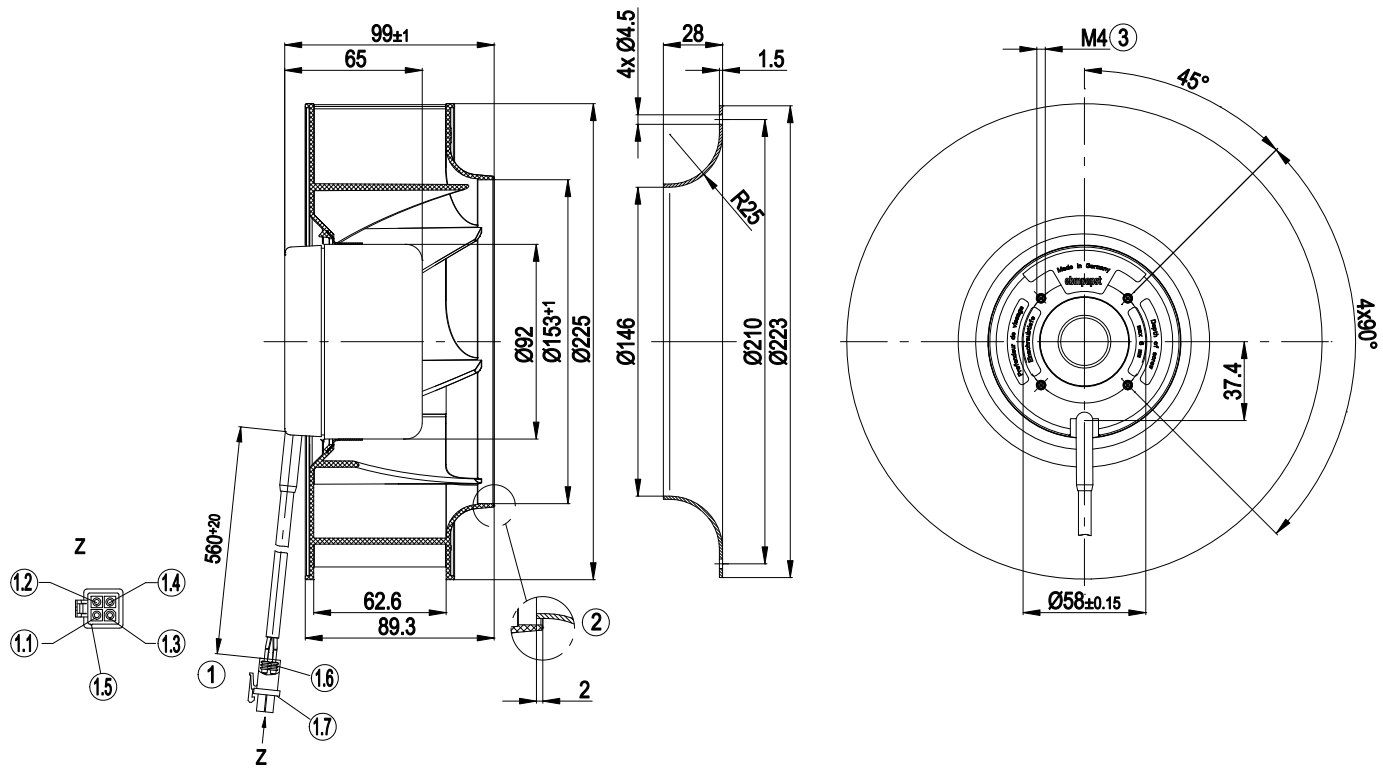
Mass	1.5 kg
Size	225 mm
Surface of rotor	Coated in black
Material of electronics housing	Die-cast aluminium
Material of impeller	Plastic PA66, fibreglass-reinforced
Number of blades	7
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 20
Insulation class	"B"
Humidity class	F2-1
Max. permissible ambient motor temp. (transp./ storage)	+80 °C
Min. permissible ambient motor temp. (transp./storage)	-40 °C
Mounting position	Any
Condensate discharge holes	Rotor-side
Cooling bore / aperture	Rotor-side
Operation mode	S1
Motor bearing	Ball bearing
Technical features	- Control input 0-10 VDC / PWM - Tach output - Motor current limit - Soft start
EMC interference immunity	Acc. to EN 61000-6-2 (industrial environment)
EMC interference emission	Acc. to EN 55022 (Class B)
Electrical leads	With plug
Motor protection	Reverse polarity and locked-rotor protection
Cable exit	Variable
Approval	UL 1004-1; CSA C22.2 Nr.77

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Product drawing



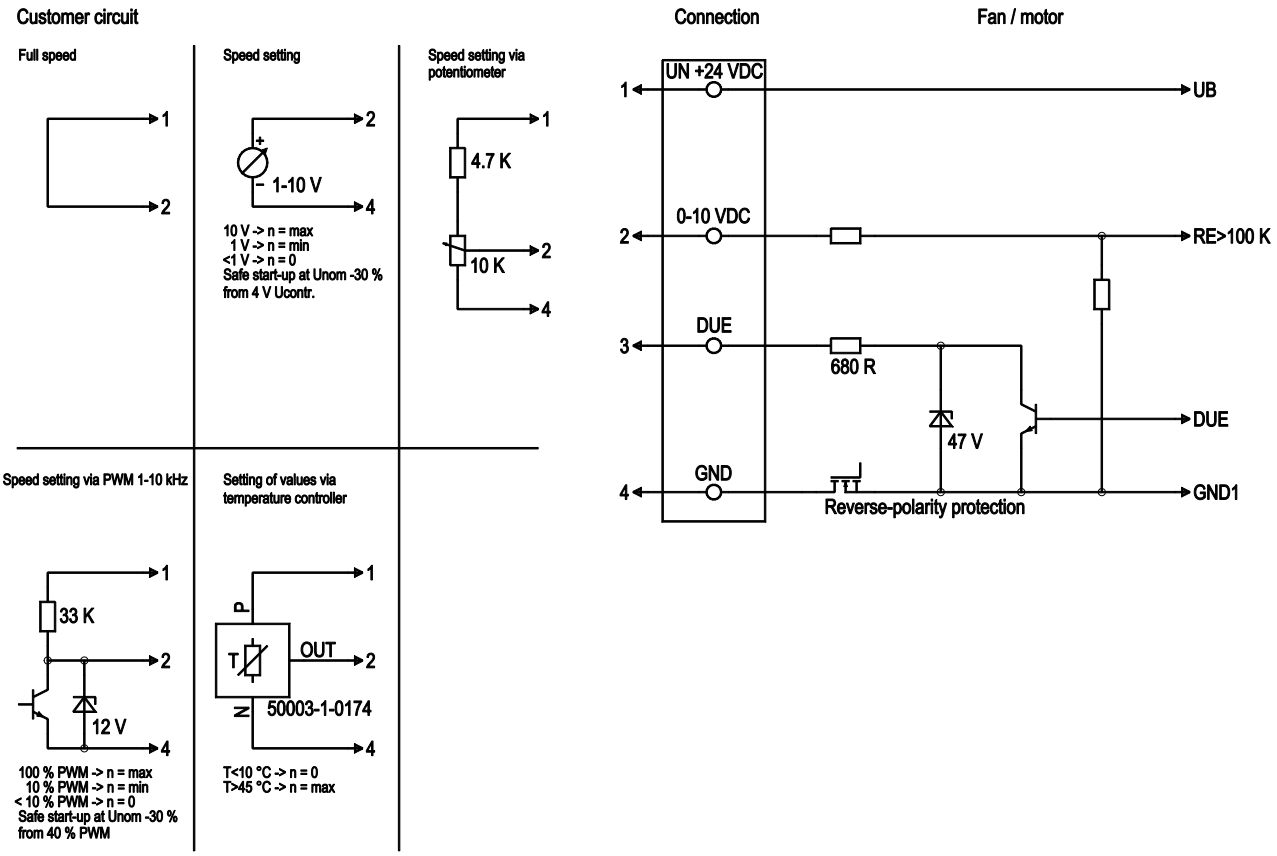
Z	View Z shown magnified
1	Connector housing 4-pole (AMP 794805-1), 4 x female connector (AMP 770904-1), mating connector (not included in delivery)
1.1	(+) red
1.2	(-) blue
1.3	Speed monitoring, white
1.4	Yellow control input
1.5	Polarising rib
1.6	4 x seal (AMP 794758-1)
1.7	1 x seal (AMP 794772-4)
2	Accessory part: Inlet nozzle 96358-2-4013, not included in the standard scope of delivery
3	Depth of screw max. 6 mm

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Connection screen



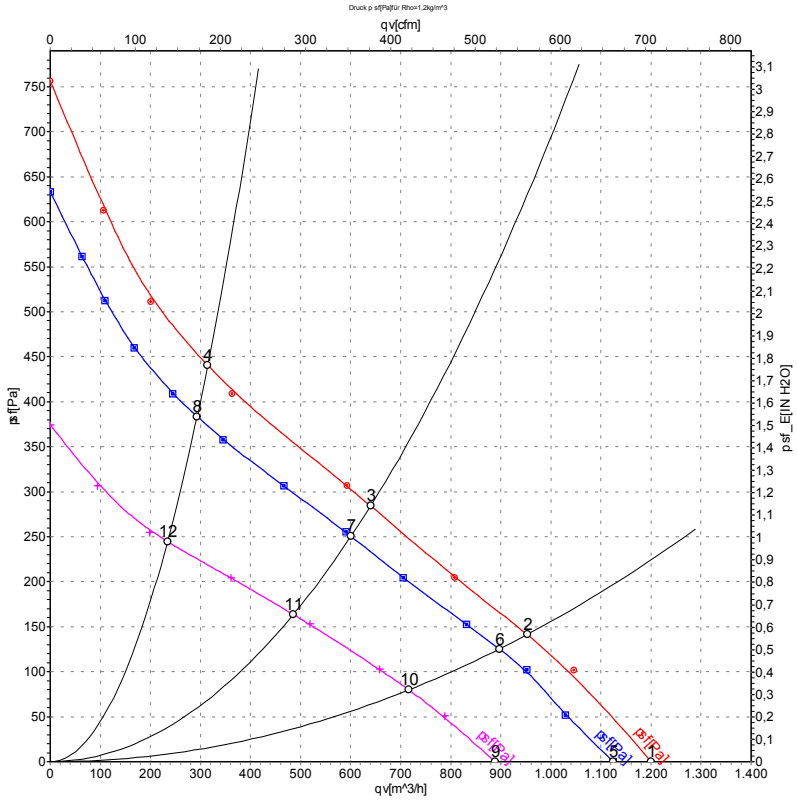
Line	No.	Signal	Colour	Function / assignment
1	1	Un +24 VDC	red	Power supply 24 VDC, residual ripple 3.5 %
1	2	0-10 VDC	yellow	Control input Re > 100 K
1	3	DUE	white	Speed monitoring output, 3 pulses per rotation, Isink max = 10 mA
1	4	GND	blue	Reference mass

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Charts: Air flow



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

Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebm-papst. Suction-side noise levels: LwA measured as per ISO 13347 / LpA measured with 1m distance to fan axis. The values given are valid under the measuring conditions mentioned above and may vary according to the actual installation situation. With any deviation from the standard set-up, the specific values have to be checked and reviewed with the unit installed.

Measured values

	U	n	P_e	I	qv	p_{sf}
	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	250
8	24	2570	98	4.63	295	385
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

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