

EC centrifugal fan

backward-curved, single-intake

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Amtsgericht (court of registration) Stuttgart · HRB 590142

Nominal data

Type	R1G225-AF07-52	
Motor	M1G074-BF	
Nominal voltage	VDC	24
Nominal voltage range	VDC	16 .. 28
Frequency	Hz	-
Method of obtaining data		fa
Speed (rpm)	min ⁻¹	2600
Power consumption	W	100
Current draw	A	4.6
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	60

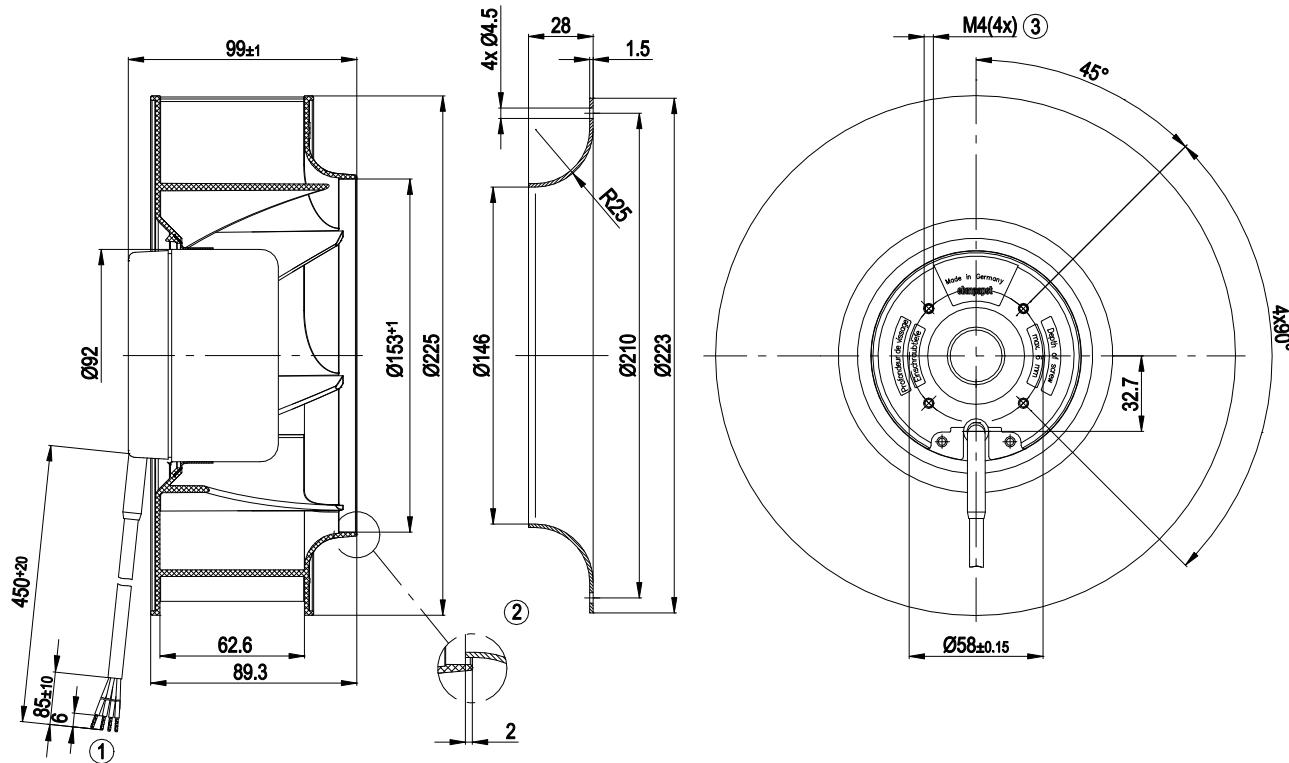
ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment
Subject to change



Technical description

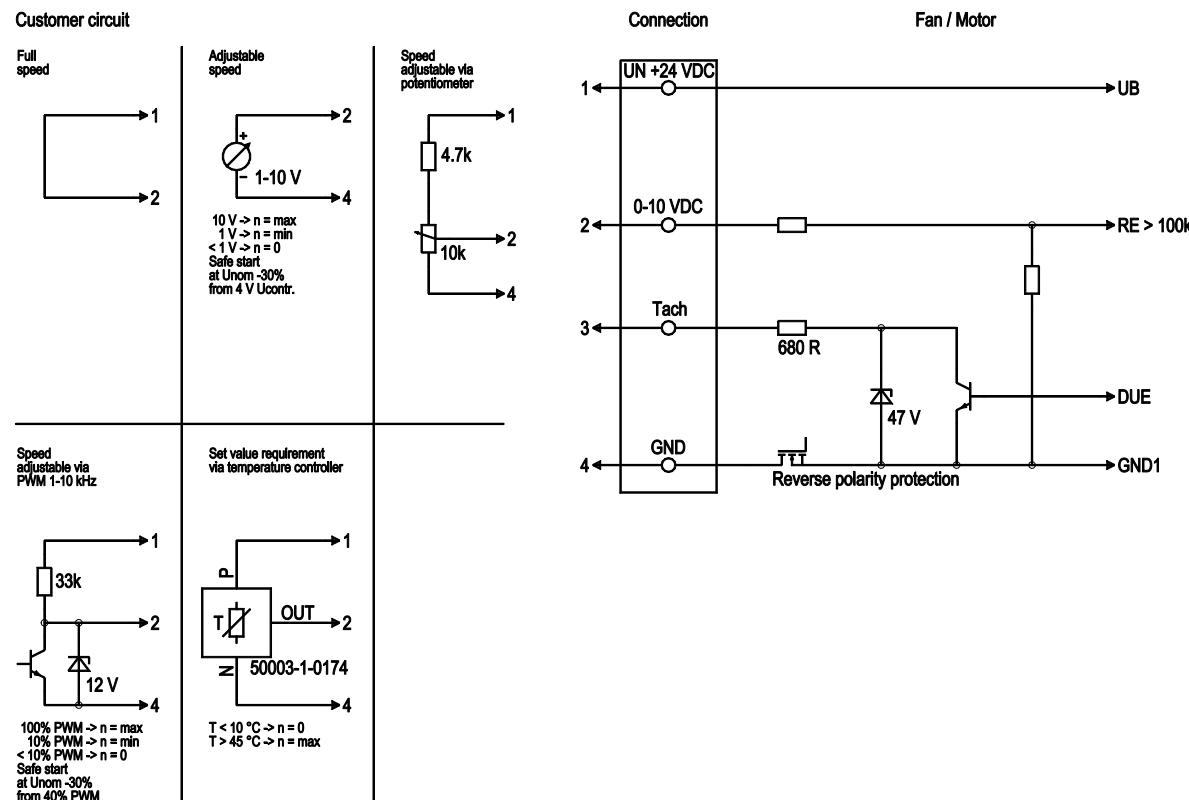
Weight	1.5 kg
Fan size	225 mm
Rotor surface	Painted black
Impeller material	PA66 plastic, glass-fiber reinforced
Number of blades	7
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP42
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	F0
Max. permitted ambient temp. for motor (transport/storage)	+80 °C
Min. permitted ambient temp. for motor (transport/storage)	-40 °C
Installation position	Any
Condensation drainage holes	None
Mode	S1
Motor bearing	Ball bearing
Technical features	<ul style="list-style-type: none"> - Control input 0-10 VDC / PWM - Tach output - Motor current limitation - Soft start
EMC immunity to interference	According to EN 61000-6-2 (industrial environment)
EMC interference emission	According to EN 55022 (Class B)
Motor protection	Reverse polarity and locked-rotor protection
With cable	Variable
Conformity with standards	EN 60950-1
Approval	CSA C22.2 No. 77; EAC; UL 1004-1

Product drawing



- | | |
|---|---|
| 1 | Cable AWG20, 4x crimped splices |
| 2 | Accessory part: inlet ring 96358-2-4013 not included in scope of delivery |
| 3 | Max. clearance for screw 6 mm |

Connection diagram

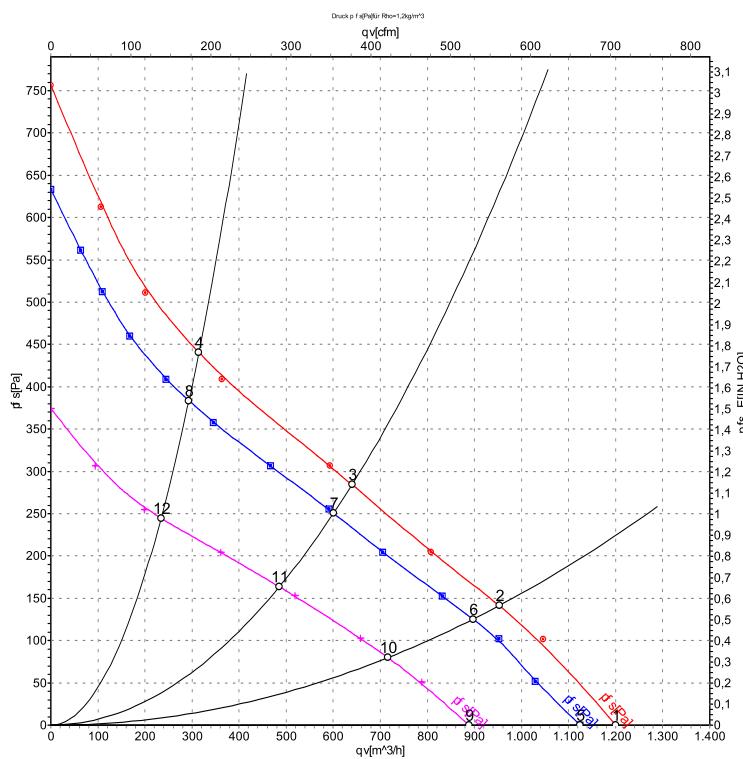


No.	Conn.	Designation	Color	Function/assignment
1	1	Un +24 VDC	red	Power supply 24 VDC, maximum ripple 3.5 %
1	2	0-10 VDC	yellow	Control input Re > 100k
1	3	Tach	white	Tach output, 3 pulses per revolution, Isink max = 10 mA
1	4	GND	blue	Reference ground

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Curves: Air performance



Measured values

	U	n	P _{ed}	I	qv	P _{fs}	qv	P _{fs}
	V	min ⁻¹	W	A	m ³ /h	Pa	CFM	inH ₂ O
1	28	2795	116	4.87	1200	0	705	0.00
2	28	2630	120	5.14	955	142	560	0.57
3	28	2560	122	5.26	640	284	375	1.14
4	28	2745	118	4.96	315	440	185	1.77
5	24	2600	100	4.60	1125	0	660	0.00
6	24	2480	100	4.76	895	125	530	0.50
7	24	2390	101	4.89	600	250	355	1.00
8	24	2570	98	4.63	295	385	170	1.55
9	16	2065	48	3.35	890	0	525	0.00
10	16	1980	52	3.60	715	80	420	0.32
11	16	1940	54	3.72	485	164	285	0.66
12	16	2050	49	3.42	235	244	140	0.98

U = Power supply · n = Speed (rpm) · P_{ed} = Power consumption · I = Current draw · qv = Air flow · p_{fs} = Pressure increase

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