R3G280-RG75-10

EC centrifugal fan - RadiCal

backward-curved

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

Limited partnership · Headquarters Mulfingen
Amtsgericht (court of registration) Stuttgart · HRA 590344

General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen
Amtsgericht (court of registration) Stuttgart · HRB 590142

Nominal data

Type	**R3G280-RG75-10**
Motor	**M3G074-CF**

Phase		1~
Nominal voltage	VAC	115
Frequency	Hz	50/60
Method of obtaining data		ml
Speed (rpm)	min^{-1}	1670
Power consumption	W	138
Current draw	A	1.8 (230V)
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	50

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

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Technical description

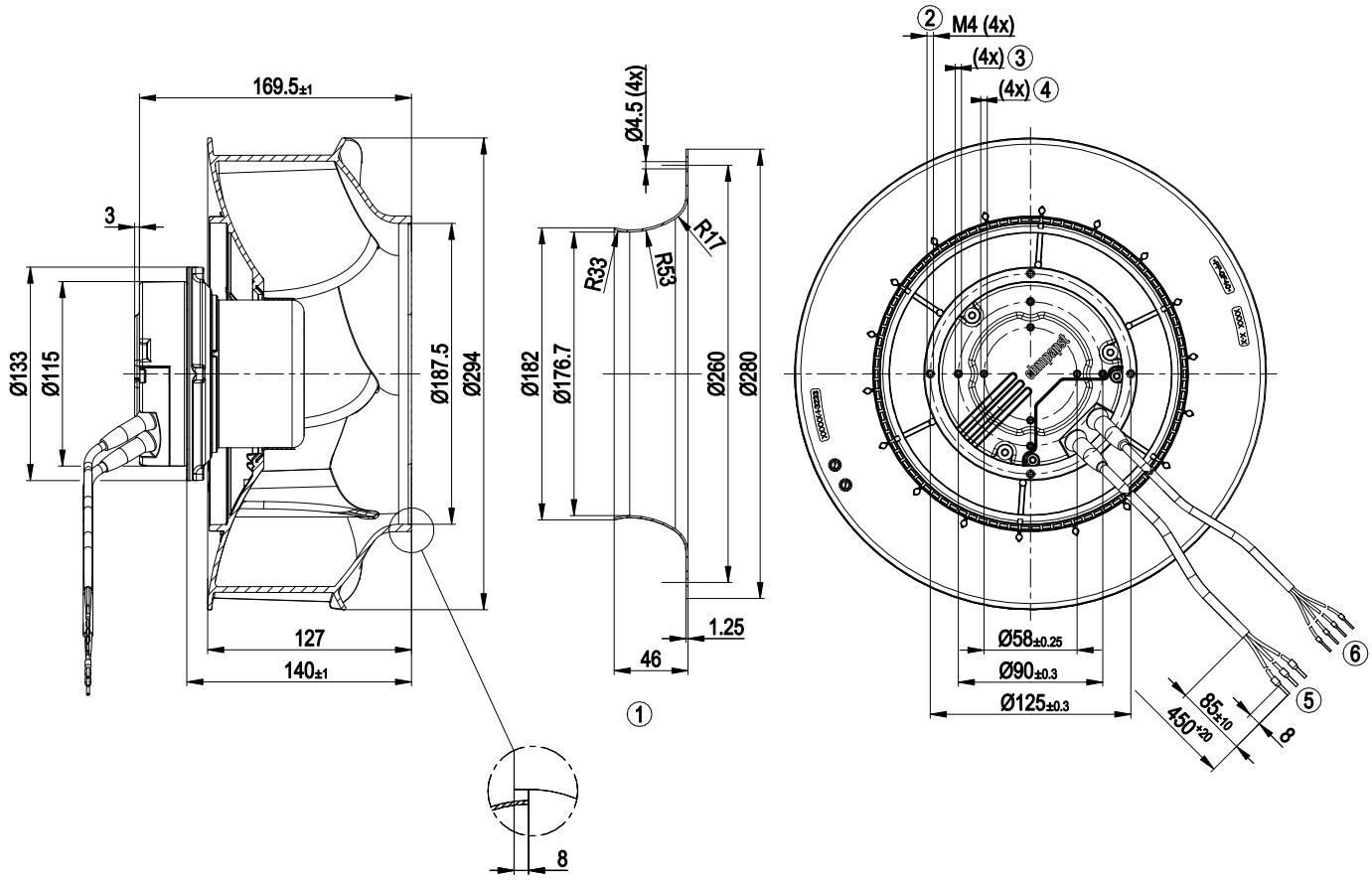
Weight	2.8 kg
Fan size	280 mm
Rotor surface	Thick-film passivated
Electronics housing material	Die-cast aluminum
Impeller material	PA plastic, sheet-metal plate painted black
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP44; installation- and position-dependent as per EN 60034-5
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	F3-1
Max. permitted ambient temp. for motor (transport/storage)	+ 80 °C
Min. permitted ambient temp. for motor (transport/storage)	- 40 °C
Installation position	Shaft horizontal or rotor on bottom; rotor on top on request
Condensation drainage holes	On rotor side
Mode	S1
Motor bearing	Ball bearing
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	<= 3.5 mA
Motor protection	Thermal overload protector (TOP) internally connected
With cable	Variable
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1
Approval	CSA C22.2 No. 77; UL 2111

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Product drawing



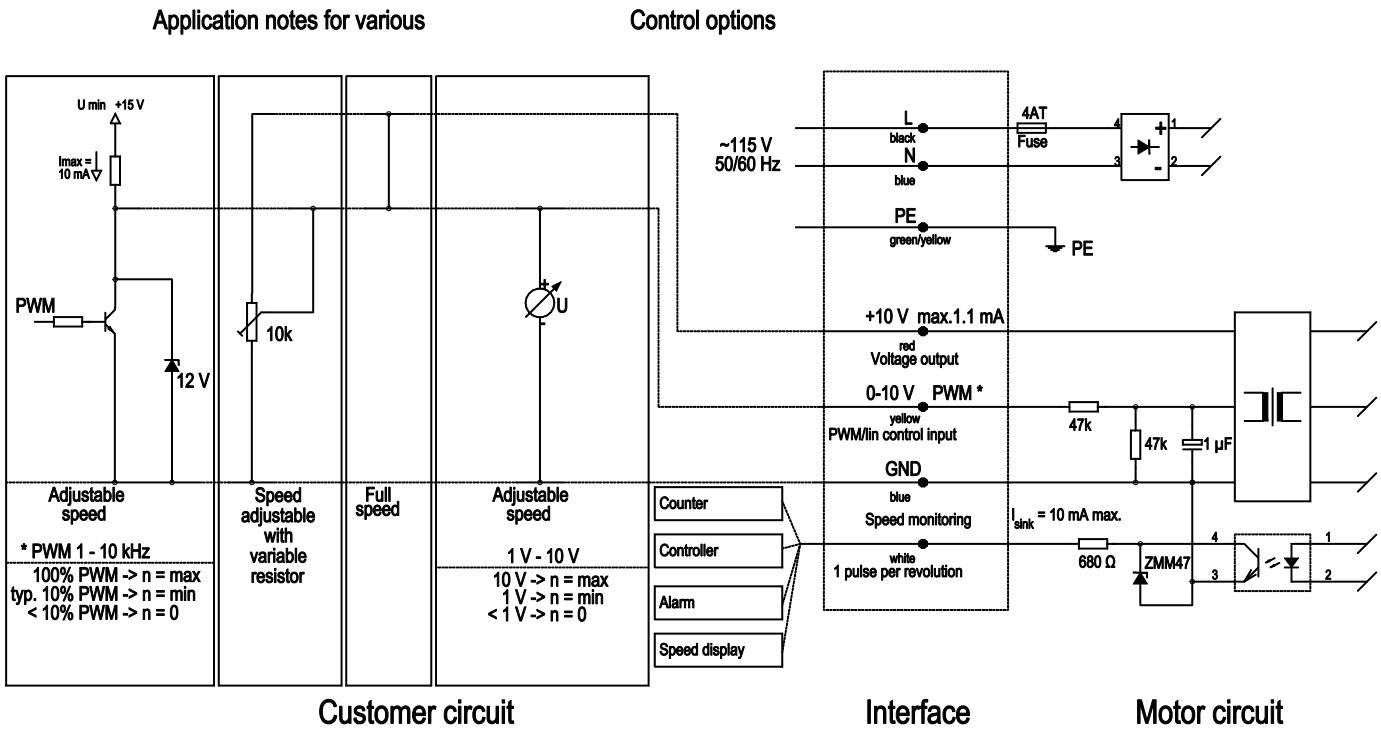
1	Accessory part: inlet ring 28000-2-4013 not included in scope of delivery
2	Clearance for screw 8-10 mm
3	Tapping hole ready for self-tapping M4 screw, max. clearance for screw 6 mm
4	Tapping hole ready for self-tapping M4 screw, max. clearance for screw 8 mm
5	Cable PVC AWG18, 3x crimped ferrules
6	Cable PVC AWG22, 4x crimped ferrules

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Connection diagram

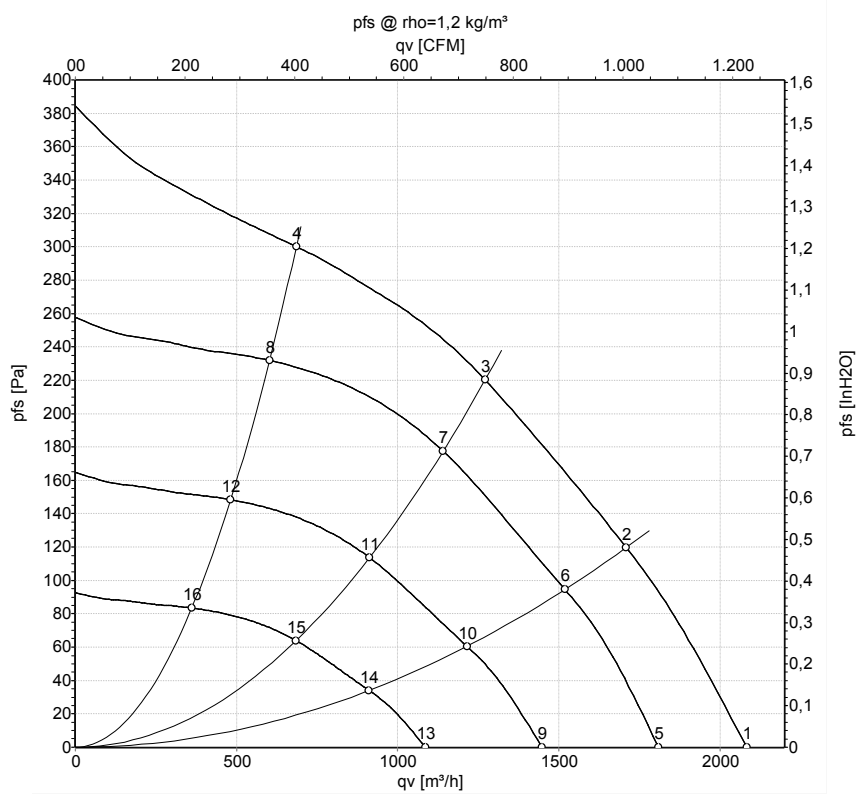


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Curves: Air performance 50 Hz



Measurement: LU-147839-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters have to be checked on the installed unit.

Measured values

	U	f	n	P_{ed}	I	qv	p_{fs}	qv	p_{fs}
	V	Hz	min^{-1}	W	A	m^3/h	Pa	CFM	inH2O
1	115	50	1725	108	1.47	2085	0	1225	0.00
2	115	50	1690	126	1.68	1710	120	1005	0.48
3	115	50	1670	138	1.80	1270	220	750	0.88
4	115	50	1705	123	1.65	685	300	405	1.20
5	115	50	1500	71	0.97	1810	0	1065	0.00
6	115	50	1500	88	1.18	1520	95	895	0.38
7	115	50	1500	98	1.30	1140	177	670	0.71
8	115	50	1500	83	1.12	605	232	355	0.93
9	115	50	1200	36	0.49	1445	0	850	0.00
10	115	50	1200	45	0.60	1215	61	715	0.24
11	115	50	1200	50	0.67	915	114	535	0.46
12	115	50	1200	43	0.57	480	148	285	0.59
13	115	50	900	15	0.21	1085	0	640	0.00
14	115	50	900	19	0.25	910	34	535	0.14
15	115	50	900	21	0.28	685	64	405	0.26
16	115	50	900	18	0.24	360	83	215	0.33

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

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