

R2S175-AA07-39

AC centrifugal fan

backward-curved, single-intake

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Nominal data

Type	R2S175-AA07-39	
Motor	M2S052-CA	
Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50
Method of obtaining data		fa
Valid for approval/standard		CE
Speed (rpm)	min ⁻¹	2600
Power consumption	W	75
Current draw	A	0.5
Min. back pressure	Pa	0
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	40

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



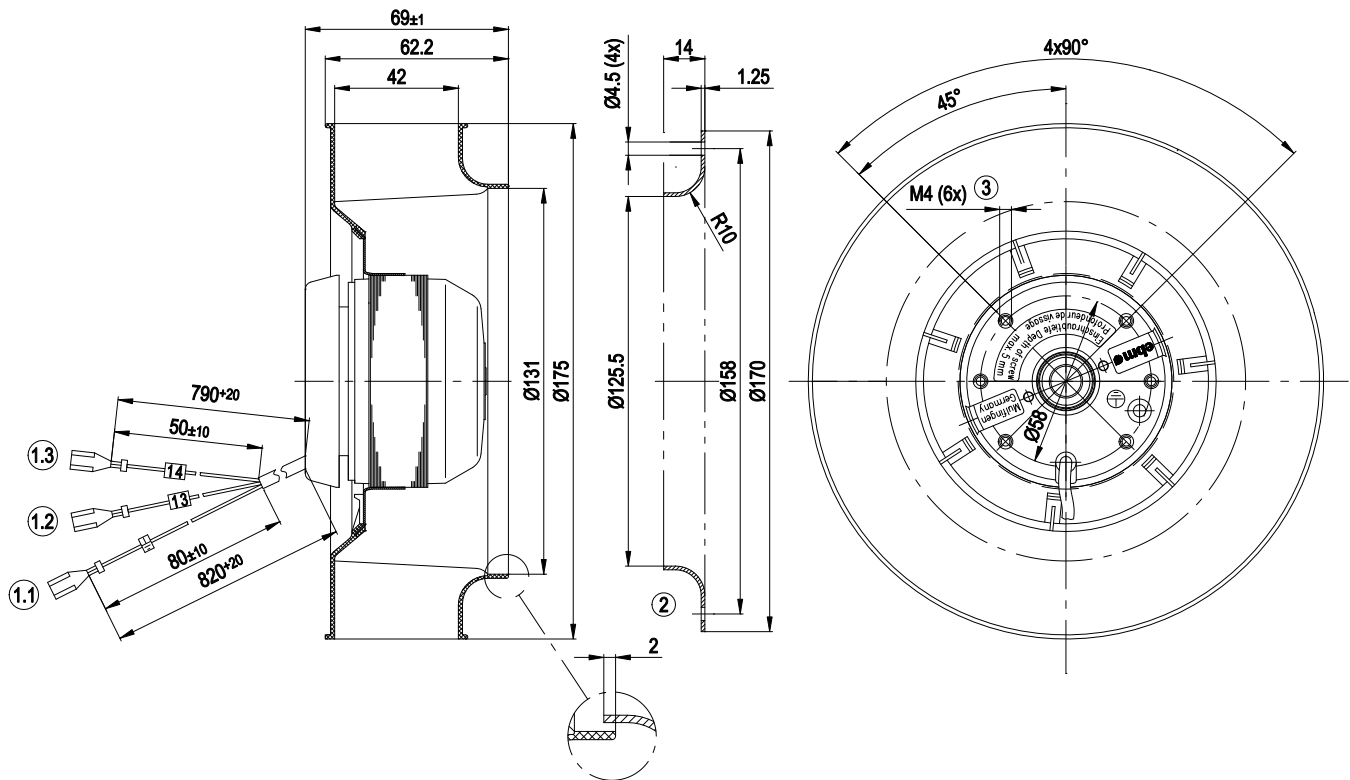
Technical description

Weight	0.9 kg
Motor size	175 mm
Rotor surface	Uncoated
Impeller material	PA 6 plastic, glass-fiber reinforced
Number of blades	7
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP 20
Insulation class	«F»
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, open rotor
Mode	S1
Motor bearing for motor	Ball bearing
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	< 0.75 mA
Motor protection	Thermal overload protector (TOP) internally connected
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1; CE
Approval	CCC

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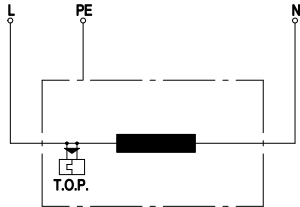
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Product drawing



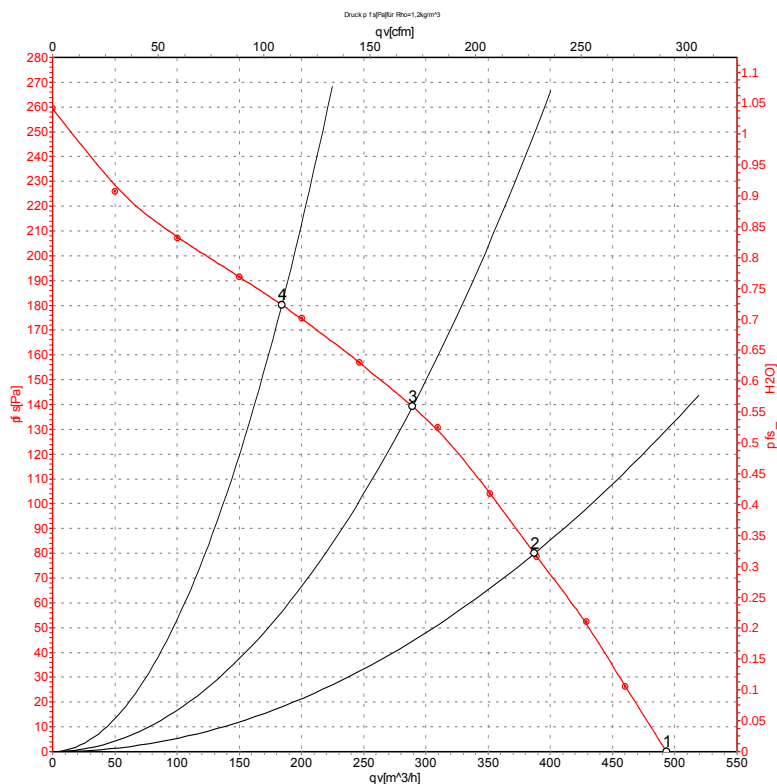
1	Connection cable silicone 3G 0.5 mm², 3 flat plugs 6.3 x 0.8
1.1	PE
1.2	L
1.3	N
2	Accessory part: inlet ring 09576-2-4013 not included in scope of delivery
3	Max. clearance for screw 5 mm

Connection diagram



L	= blue
PE	= green/yellow
N	= brown
TOP	= thermal overload protector

Curves: Air performance 50 Hz



Measurement: LU-78680

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 must be checked in the installed unit.

Measured values

	U	f	n	P _e	I	qv	p _{fs}
	V	Hz	min ⁻¹	W	A	m³/h	Pa
1	230	50	2635	71	0.47	495	0
2	230	50	2525	74	0.47	385	80
3	230	50	2455	77	0.47	290	140
4	230	50	2455	76	0.47	185	180

U = Power supply · f = Frequency · n = Speed (rpm) · P

e = Power consumption · I = Current draw · qv = Air flow · p

fs = Pressure increase