R2E180-AH05-27

AC circulation blower for hot air

backward-curved

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Nominal data

Type	**R2E180-AH05-27**
Motor	**M2E068-DF**

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	115
Current draw	A	0.51
Capacitor	µF	3
Capacitor voltage	VDB	400
Capacitor standard		S0 (CE)
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	100

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

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Technical description

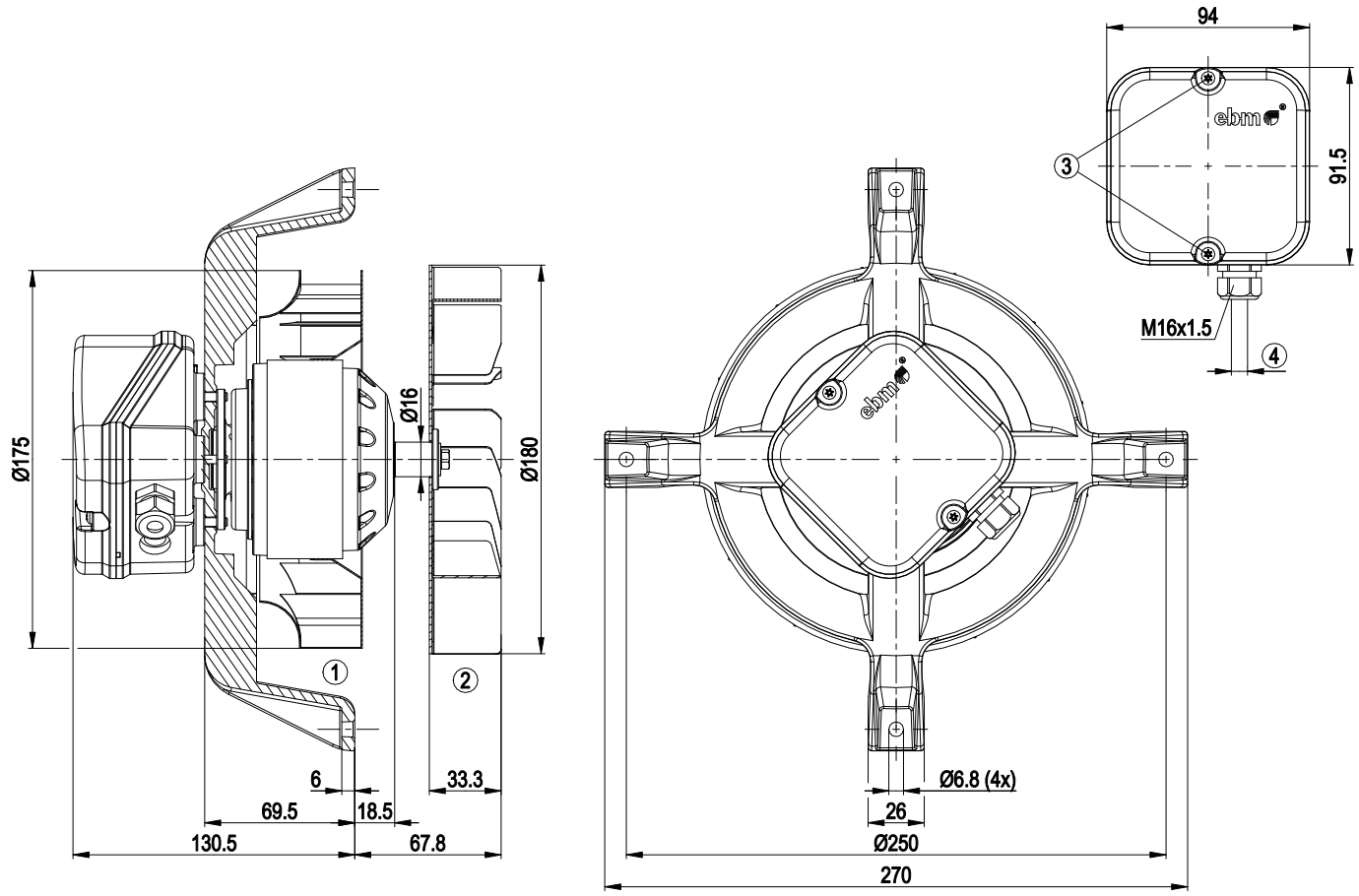
Weight	3.1 kg
Fan size	180 mm
Rotor surface	Unpainted
Terminal box material	PC/ABS plastic
Motor suspension	Motor mounted with brackets on one side
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP20
Insulation class	"F"
Moisture (F) / Environmental (H) protection class	H0 - dry environment
Max. permitted ambient temp. for motor (transport/storage)	+ 80 °C
Min. permitted ambient temp. for motor (transport/storage)	- 40 °C
Installation position	Shaft horizontal
Condensation drainage holes	None
Mode	S1
Motor bearing	Ball bearing
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	< 0.75 mA
Electrical hookup	Via terminal box, capacitor integrated and connected
With cable	Axial
Protection class	I (if protective earth is connected by customer to the housing's connection point)
Motor capacitor according to EN 60252-1 in safety protection class	S0
Conformity with standards	CE

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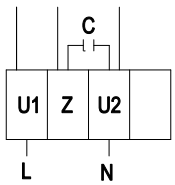
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Product drawing



1	Centrifugal fan impeller (sheet steel, galvanized)
2	Centrifugal fan impeller (sheet steel, rust- and acid-resistant)
3	Tightening torque 0.5 ± 0.1 Nm
4	Cable diameter max. 7.5 mm, tightening torque 1.3 ± 0.2 Nm

Connection diagram



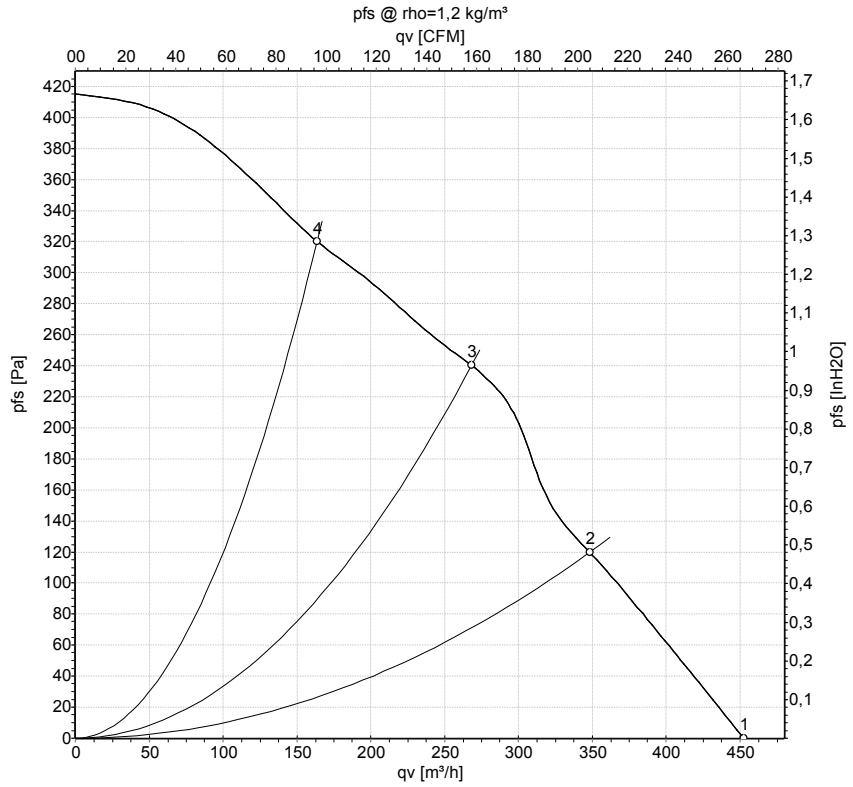
L	= U1 = blue	Z	brown	N	= U2 = black

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Curves: Air performance 50 Hz



Measurement: LU-156453-1

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_e	I	q_V	p_{fs}	q_V	p_{fs}
	V	Hz	min^{-1}	W	A	m^3/h	Pa	cfm	inH2O
1	230	50	2600	115	0.51	450	0	265	0.00
2	230	50	2610	108	0.49	350	120	205	0.48
3	230	50	2630	104	0.48	270	240	160	0.96
4	230	50	2645	102	0.47	165	320	95	1.28

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

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