

R2E225-AG05-20 ebmpapst Datasheet

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Nominal data

Type	R2E225-AG05-20		
Motor	M2E068-EC		
Phase		1~	1~
Nominal voltage	VAC	115	115
Frequency	Hz	50	60
Method of obtaining data		fa	fa
Valid for approval/standard		CE	CE
Speed (rpm)	min ⁻¹	2580	2700
Power consumption	W	180	265
Current draw	A	1.57	2.31
Capacitor	µF	20	20
Capacitor voltage	VDB	220	220
Min. back pressure	Pa	0	0
Min. back pressure	in. wg	0	0
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	75	50

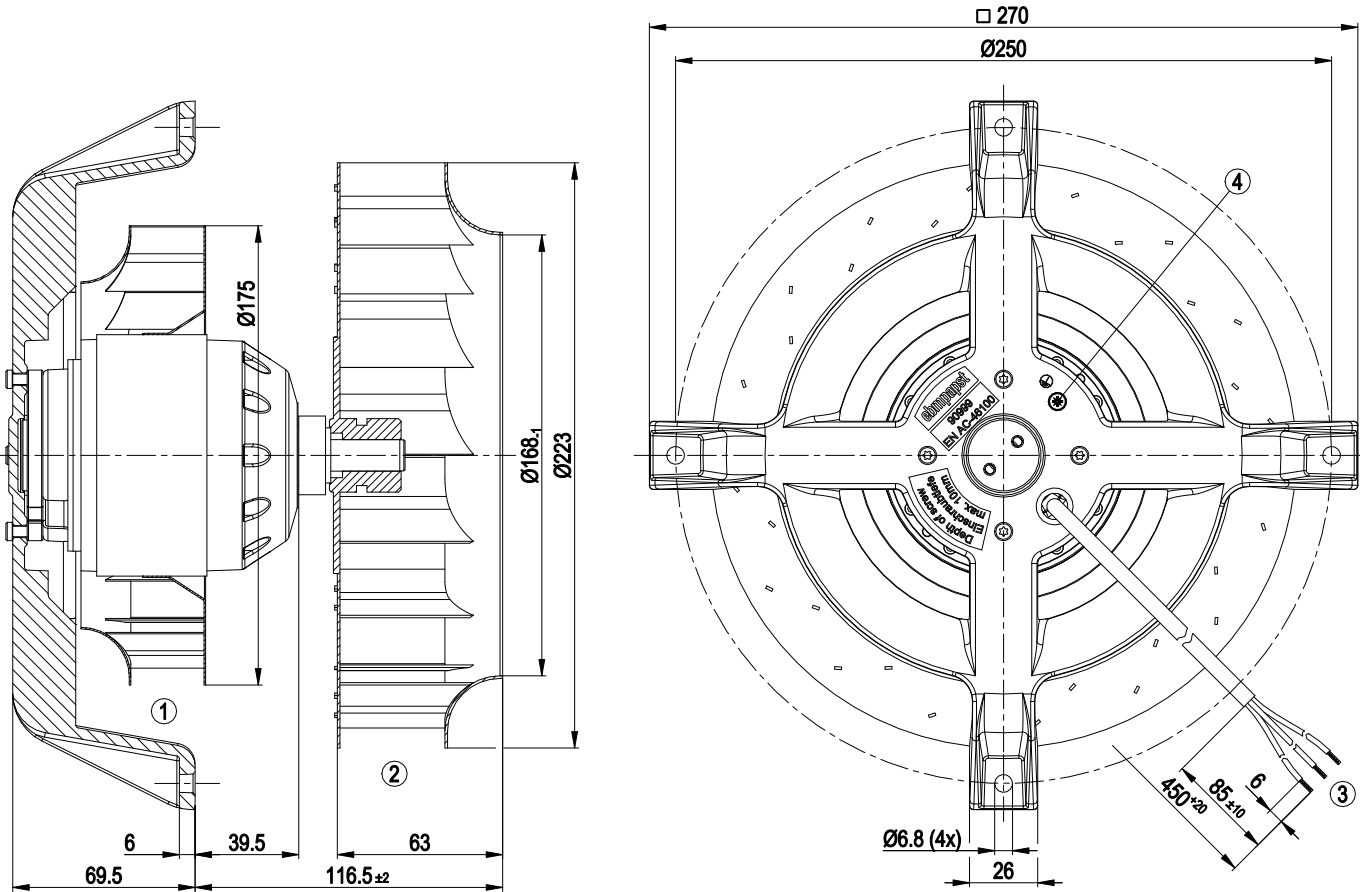
ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment
Subject to change



Technical description

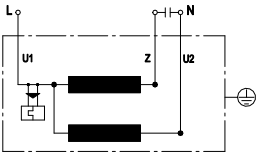
Weight	3.9 kg
Size	225 mm
Motor size	68
Rotor surface	Unpainted
Motor suspension	Motor mounted with brackets on one side
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP20
Insulation class	"F"
Moisture (F) / Environmental (H) protection class	H0 - dry environment
Max. permitted 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 mounting	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
With cable	Axial
Protection class	I (if the protective earth is connected by the customer to the marked PE connection point)
Conformity with standards	CE
Approval	CSA C22.2 No. 100; UL 1004-1

Product drawing



- | | |
|---|--|
| 1 | Centrifugal fan impeller (sheet steel, galvanized) |
| 2 | Centrifugal fan impeller (sheet steel, rust- and acid-resistant) |
| 3 | Cable PFA AWG20, 3x crimped splices |
| 4 | M4 screw for fastening ground connector |
| | Max. clearance for screw 5 mm |

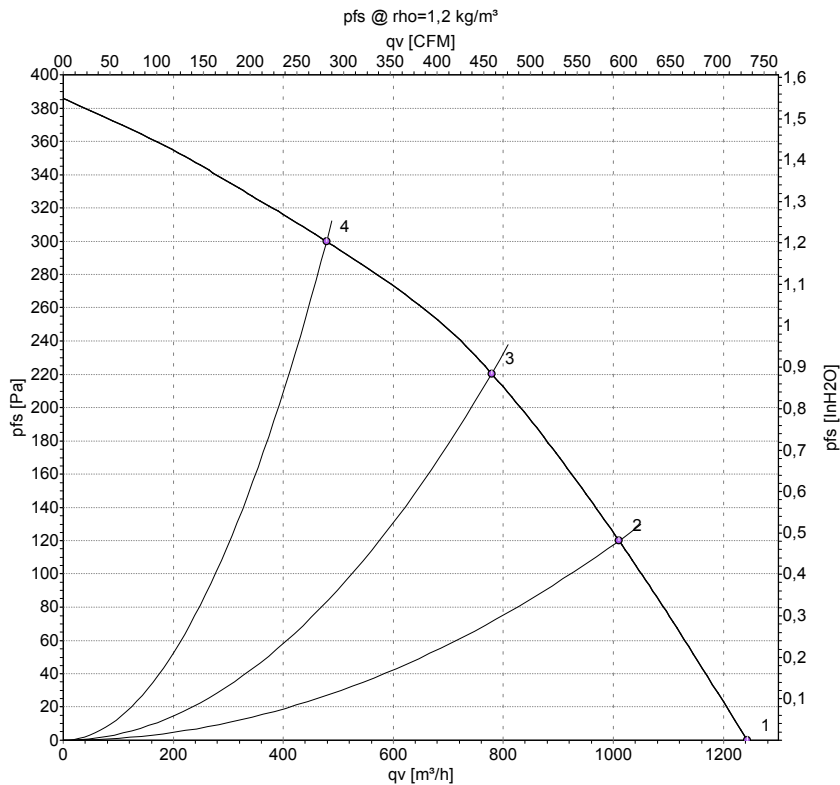
Connection diagram



U1	blue	Z	brown	U2	black
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Curves: Air performance 50 Hz



Measurement: LU-41127-1

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.

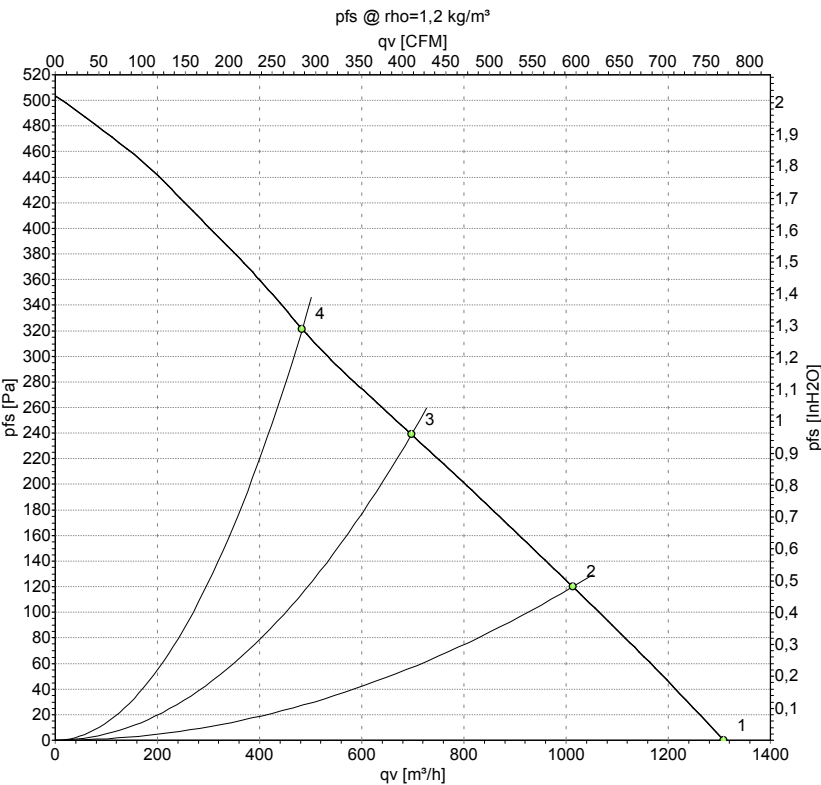
Measured values

	U	f	n	P _e	I	q _v	p _{fs}	q _v	p _{fs}
	V	Hz	min ⁻¹	W	A	m³/h	Pa	cfm	in. wg
1	115	50	2580	180	1.57	1245	0	730	0.00
2	115	50	2505	197	1.71	1010	120	595	0.48
3	115	50	2480	203	1.76	780	220	460	0.88
4	115	50	2570	182	1.58	480	300	280	1.20

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



Curves: Air performance 60 Hz



Measurement: LU-41128-1

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	m³/h	Pa	cfm	in. wg
1	115	60	2700	265	2.31	1310	0	770	0.00
2	115	60	2515	278	2.42	1015	120	595	0.48
3	115	60	2440	282	2.45	695	240	410	0.96
4	115	60	2600	270	2.36	485	320	285	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

