

R2E250-PB12-09 ebmpapst Datasheet

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Nominal data

Type	R2E250-PB12-09	
Motor	M2E074-EI	
Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50
Type of data definition		ml
Valid for approval / standard		CE
Speed (rpm)	min ⁻¹	2600
Power input	W	430
Current draw	A	1.9
Motor capacitor	µF	8
Capacitor voltage	VDB	450
Capacitor standard		S0 (CE)
Min. back pressure	Pa	0
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	40

ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit
Subject to alterations

Data in accordance with ecodesign regulation EU 327/2011

	Actual	Request 2015				
01 Overall efficiency η_{es}	%	47.5	47.5	09 Power input P_e	kW	0.42
02 Measurement category	A			09 Air flow q_v	m ³ /h	1515
03 Efficiency category	Static			09 Pressure increase p_{fs}	Pa	466
04 Efficiency grade N	62	62		10 Speed (rpm) n	min ⁻¹	2620
05 Variable speed drive	No			11 Specific ratio*		1.01

Data definition with optimum efficiency.
The ErP data is determined using a motor-impeller combination in a standardised measurement configuration.

* Specific ratio = $1 + p_{fs} / 100\,000\text{ Pa}$

LU-175235



AC centrifugal fan

backward curved, single inlet

Technical features

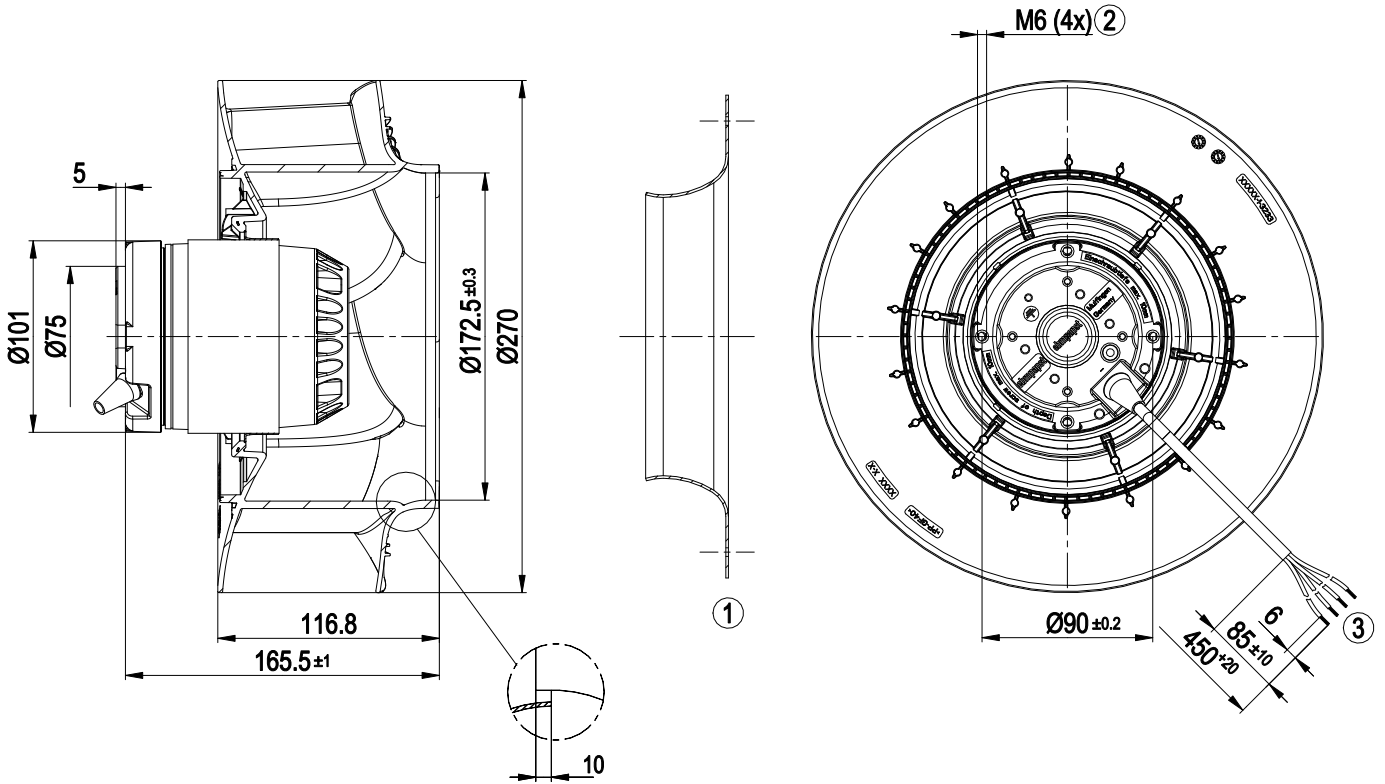
Mass	4.2 kg
Size	250 mm
Surface of rotor	Coated in black
Material of impeller	PP plastic
Number of blades	6
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 44; Depending on installation and position as per EN 60034-5
Insulation class	"F"
Humidity (F)/environmental protection class (H)	H0+
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Shaft horizontal or rotor on bottom; rotor on top on request
Condensate discharge holes	Rotor-side
Operation mode	S1
Motor bearing	Ball bearing
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	< 0.75 mA
Motor protection	Temperature limiter manual reset
Cable exit	Variable
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1; CE



AC centrifugal fan

backward curved, single inlet

Product drawing



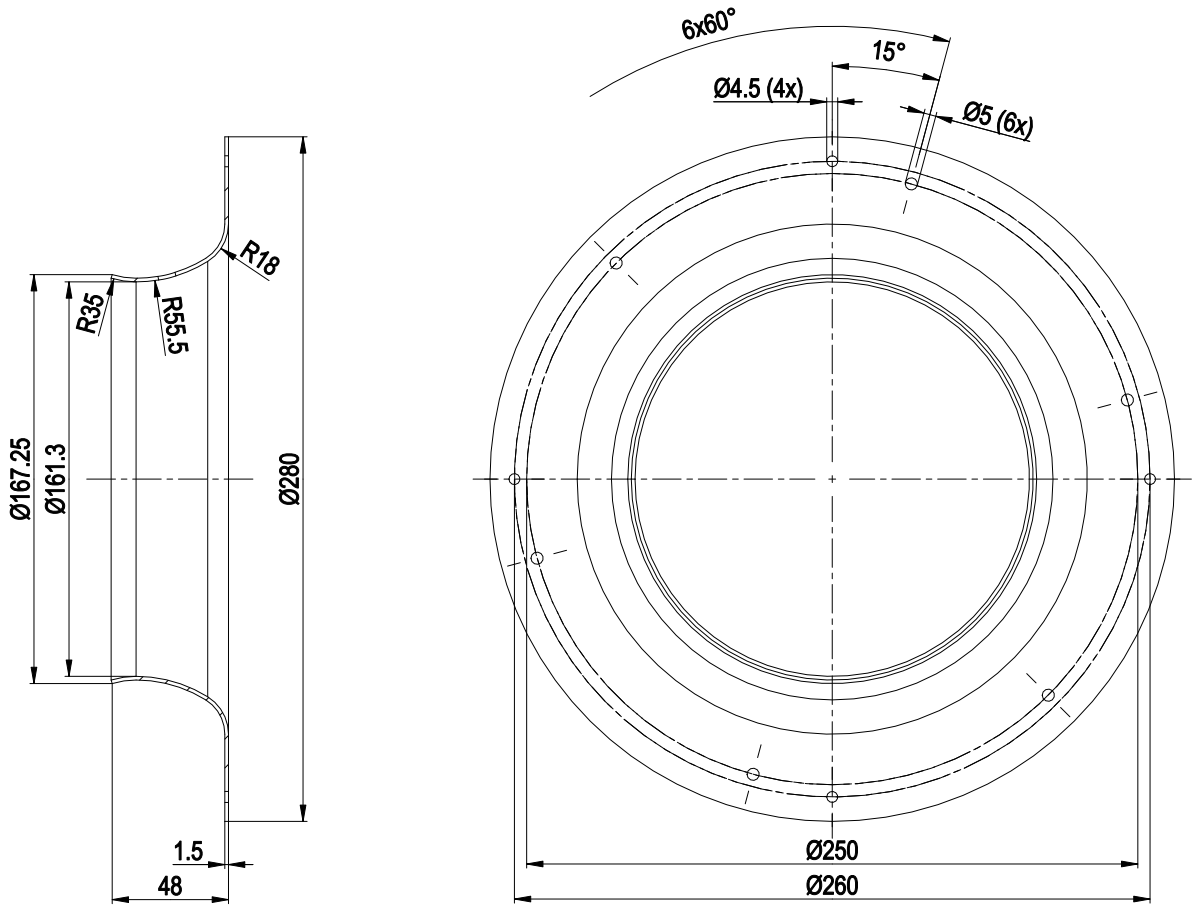
- | | |
|---|---|
| 1 | Accessory part: Inlet nozzle 96350-2-4013 not included in scope of delivery |
| 2 | Thread reach max. 10 mm |
| 3 | Connection line silicone 4G 0.5 mm ² , 4x lead tips crimped |



AC centrifugal fan

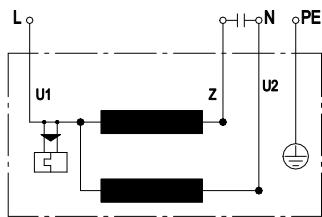
backward curved, single inlet

Accessory part



Inlet nozzle 96350-2-4013 not included in scope of delivery

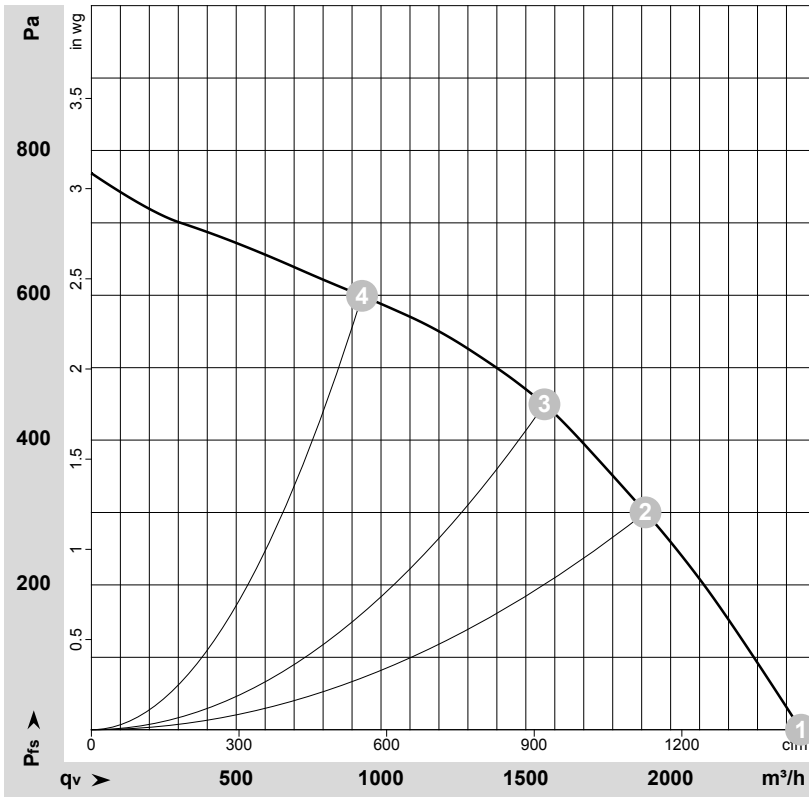
Connection screen



U1	blue	Z	brown	U2	black
PE	green/yellow				



Charts: Air flow 50 Hz



$\rho = 1.15 \text{ kg/m}^3 \pm 2 \%$

Measurement: LU-175235-1

Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebmpapst. Suction-side noise levels: LwA measured as per ISO 13347 / LpA measured with 1m distance to fan axis. The values given are valid under the measuring conditions mentioned above and may vary according to the actual installation situation. With any deviation from the standard set-up, the specific values have to be checked and reviewed with the unit installed.

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	2720	352	1.56	2450	0	1440	0.00
2	230	50	2625	419	1.84	1915	300	1125	1.20
3	230	50	2600	430	1.90	1565	450	920	1.81
4	230	50	2675	385	1.70	935	600	550	2.41

U = Supply voltage · f = Frequency · n = Speed (rpm) · P_e = Power input · I = Current draw · q_v = Air flow · P_{fs} = Pressure increase

