

R2E250-RC08-10 ebmpapst Datasheet

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## Nominal data

Type	R2E250-RC08-10	
Motor	M2E074-DF	
Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50
Type of data definition		ml
Valid for approval / standard		CE
Speed (rpm)	min <sup>-1</sup>	2700
Power input	W	220
Current draw	A	0.97
Motor capacitor	µF	5
Capacitor voltage	VDB	400
Capacitor standard		S0 (CE)
Min. back pressure	Pa	0
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	70
Starting current	A	2.4

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

## Data according to ErP directive

	Actual	Request 2015
01 Overall efficiency $\eta_{es}$	%	44.4
02 Measurement category	A	
03 Efficiency category	Static	
04 Efficiency grade N	62	62
05 Variable speed drive	No	

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

09 Power input $P_e$	kW	0.21
09 Air flow $q_v$	m <sup>3</sup> /h	905
09 Pressure increase $p_{fs}$	Pa	380
10 Speed (rpm) n	min <sup>-1</sup>	2695
11 Specific ratio*		1.00

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

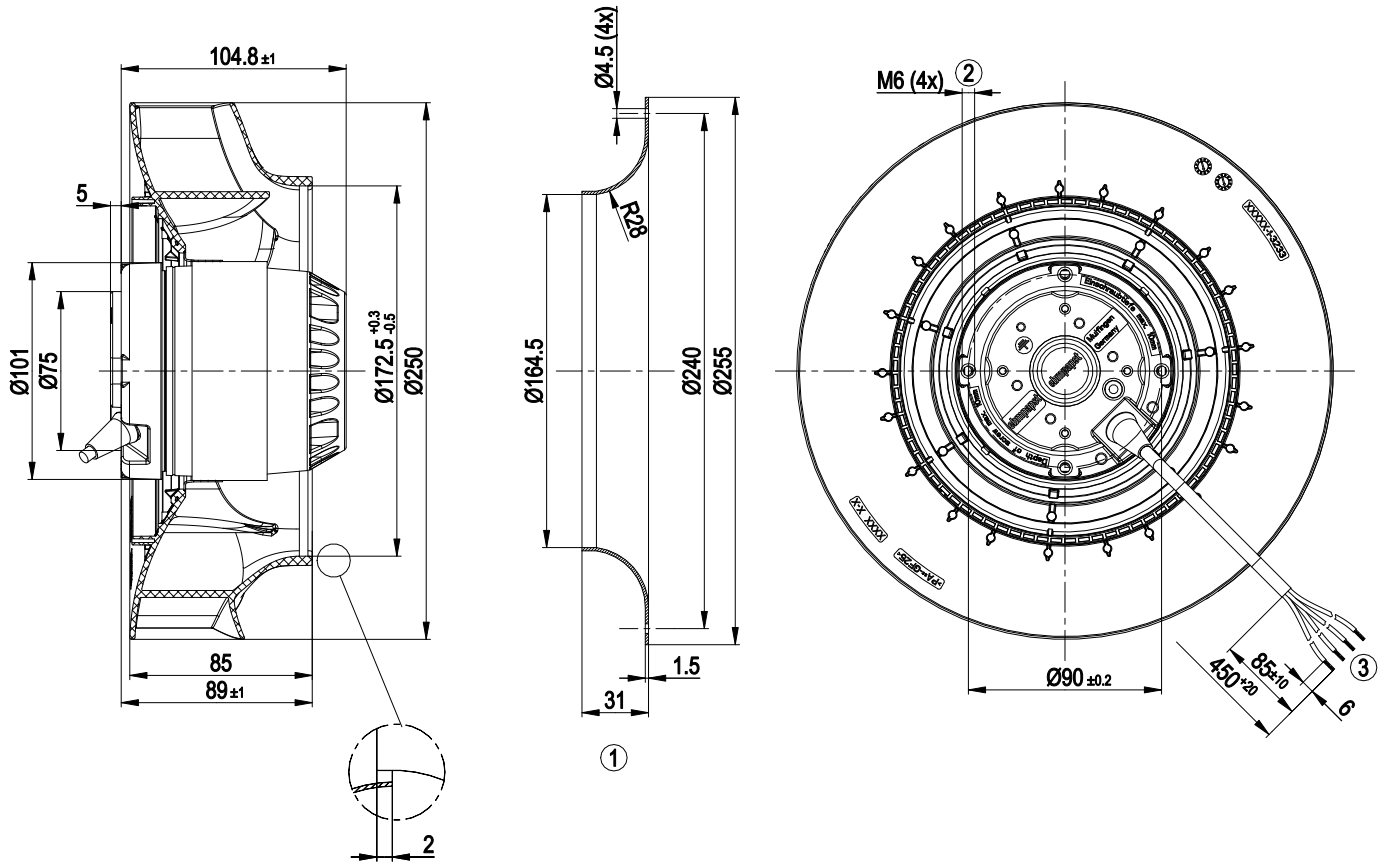
LU-144490



### Technical features

<b>Mass</b>	3.2 kg
<b>Size</b>	250 mm
<b>Surface of rotor</b>	Coated in black
<b>Material of impeller</b>	PA plastic
<b>Number of blades</b>	7
<b>Direction of rotation</b>	Clockwise, seen on rotor
<b>Type of protection</b>	IP 44; Depending on installation and position as per EN 60034-5
<b>Insulation class</b>	"F"
<b>Humidity (F)/environmental protection class (H)</b>	H0+
<b>Max. permissible ambient motor temp. (transp./ storage)</b>	+ 80 °C
<b>Min. permissible ambient motor temp. (transp./storage)</b>	- 40 °C
<b>Mounting position</b>	Shaft horizontal or rotor on bottom; rotor on top on request
<b>Condensate discharge holes</b>	Rotor-side
<b>Operation mode</b>	S1
<b>Motor bearing</b>	Ball bearing
<b>Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)</b>	< 0.75 mA
<b>Motor protection</b>	Temperature limiter manual reset
<b>Cable exit</b>	Variable
<b>Protection class</b>	I (if protective earth is connected by customer)
<b>Product conforming to standard</b>	EN 60335-1; CE

## Product drawing



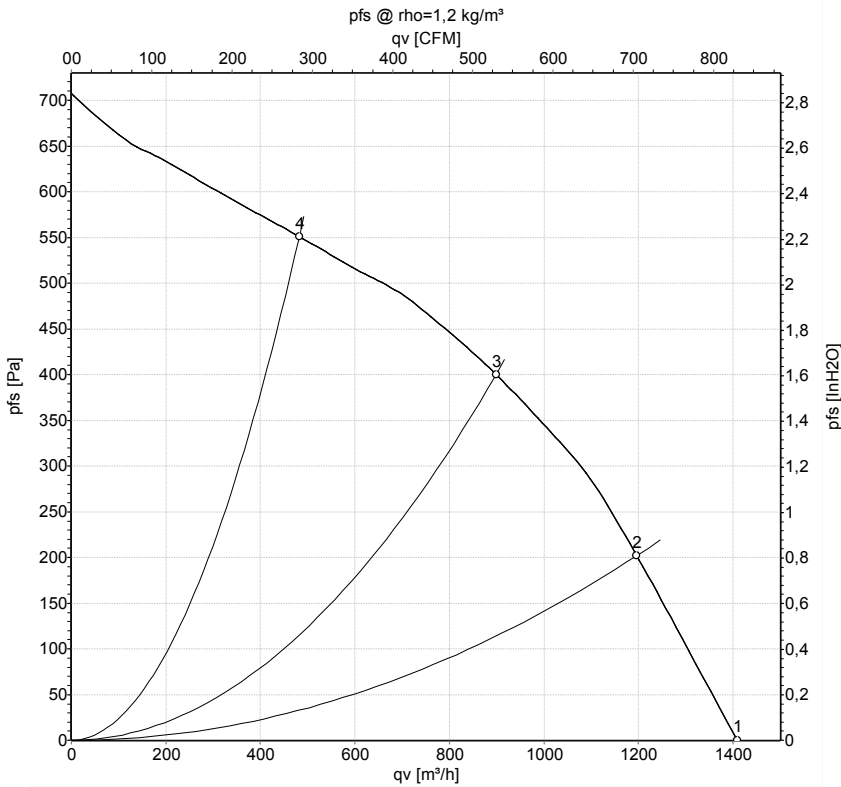
- 1 Accessory part: inlet nozzle 96359-2-4013, not included in scope of delivery
- 2 Thread reach max. 10 mm
- 3 Connection line silicone 4G 0.5 mm<sup>2</sup>, 4x lead tips crimped

## Connection screen



U1	blue	Z	brown	U2	black
PE	green/yellow				

## Charts: Air flow 50 Hz



Measurement: LU-144490-1

Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebm-papst. 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 <sub>e</sub>	I	q <sub>v</sub>	p <sub>fs</sub>	q <sub>v</sub>	p <sub>fs</sub>
	V	Hz	min <sup>-1</sup>	W	A	m³/h	Pa	cfm	inH2O
1	230	50	2755	187	0.83	1410	0	830	0.00
2	230	50	2725	204	0.89	1195	200	705	0.80
3	230	50	2700	220	0.97	900	400	530	1.61
4	230	50	2740	196	0.86	480	550	285	2.21

U = Supply voltage · f = Frequency · n = Speed (rpm) · P<sub>e</sub> = Power input · I = Current draw · q<sub>v</sub> = Air flow · p<sub>fs</sub> = Pressure increase

