



R2E146-BI06-09 ebmpapst Datasheet

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## Nominal data

<b>Type</b>	<b>R2E146-BI06-09</b>	
<b>Motor</b>	<b>M2E068-CF</b>	
Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50
Type of data definition		ml
Valid for approval / standard		CE
Speed	min <sup>-1</sup>	2350
Power input	W	145
Current draw	A	0.65
Motor capacitor	µF	4
Capacitor voltage	VDB	450
Capacitor standard		P0 (CE)
Min. back pressure	Pa	300
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	55

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

Installation category	A
Efficiency category	Static
Variable speed drive	No
Specific ratio*	1.00

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

	Actual	Request 2013	Request 2015
Overall efficiency $\eta_{es}$	26.5	25.1	32.1
Efficiency grade N	38.4	37	44
Power input $P_e$	kW	0.13	
Air flow $q_v$	m <sup>3</sup> /h	355	
Pressure increase $p_{fs}$	Pa	361	
Speed n	min <sup>-1</sup>	2470	

Data established at point of optimum efficiency



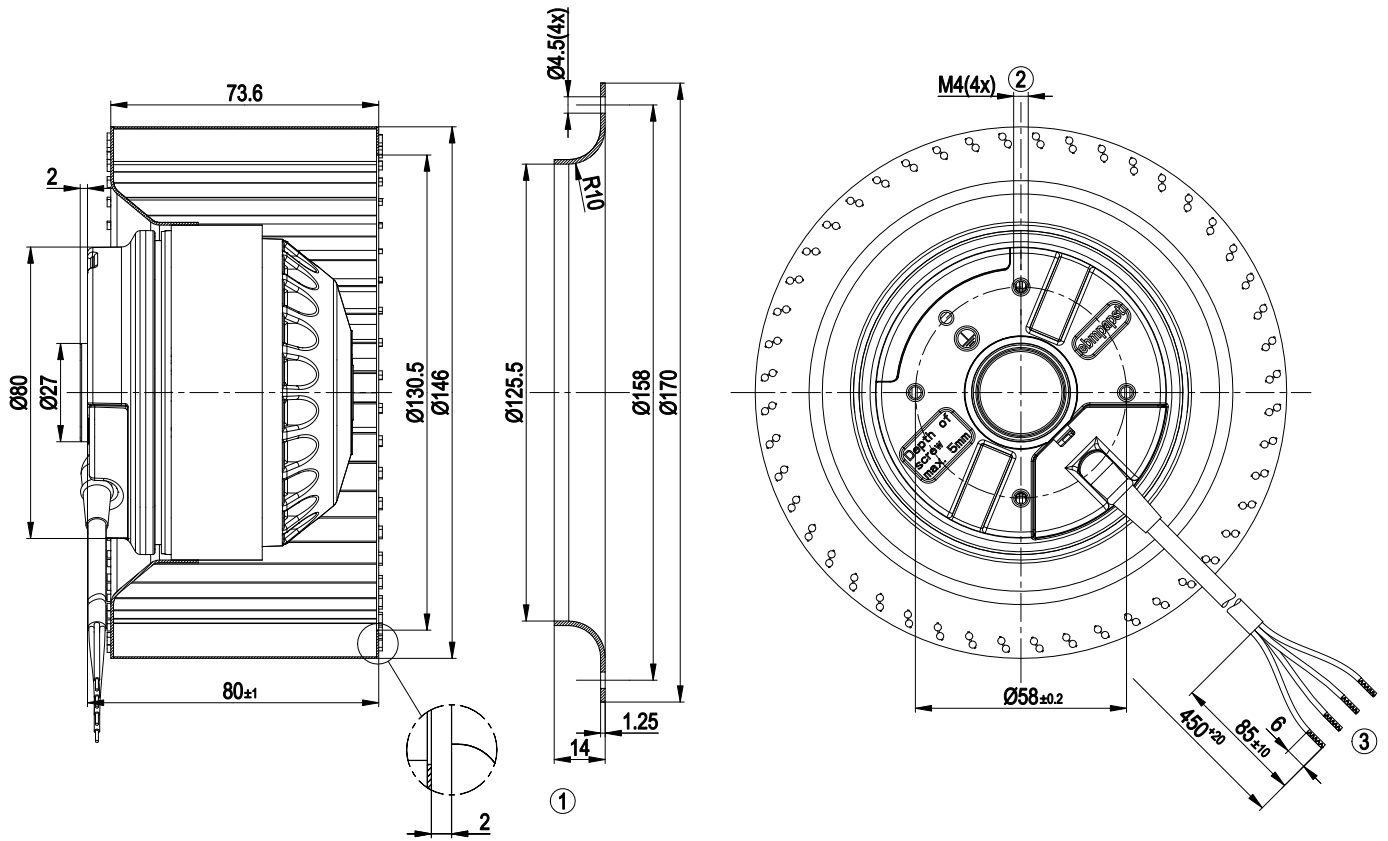
### Technical features

Mass	1.8 kg
Size	146 mm
Material of impeller	Sheet steel, galvanised
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 44; Depending on installation and position
Insulation class	"F"
Humidity class	F1-1
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Any
Condensate discharge holes	None
Operation mode	S1
Motor bearing	Ball bearing
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	< 0.75 mA
Motor protection	Thermal overload protector (TOP) wired internally
Cable exit	Variable
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1; CE

# AC centrifugal fan

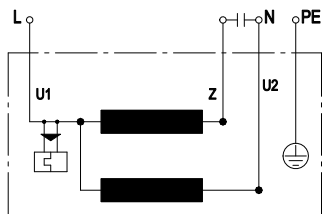
forward curved, single inlet

## Product drawing



- 1 Accessory part: Inlet nozzle 09576-2-4013, not included in the standard scope of delivery
- 2 Depth of screw max. 5 mm
- 3 Connection line silicone 4G 0.5 mm<sup>2</sup>, 4 x brass lead tips crimped

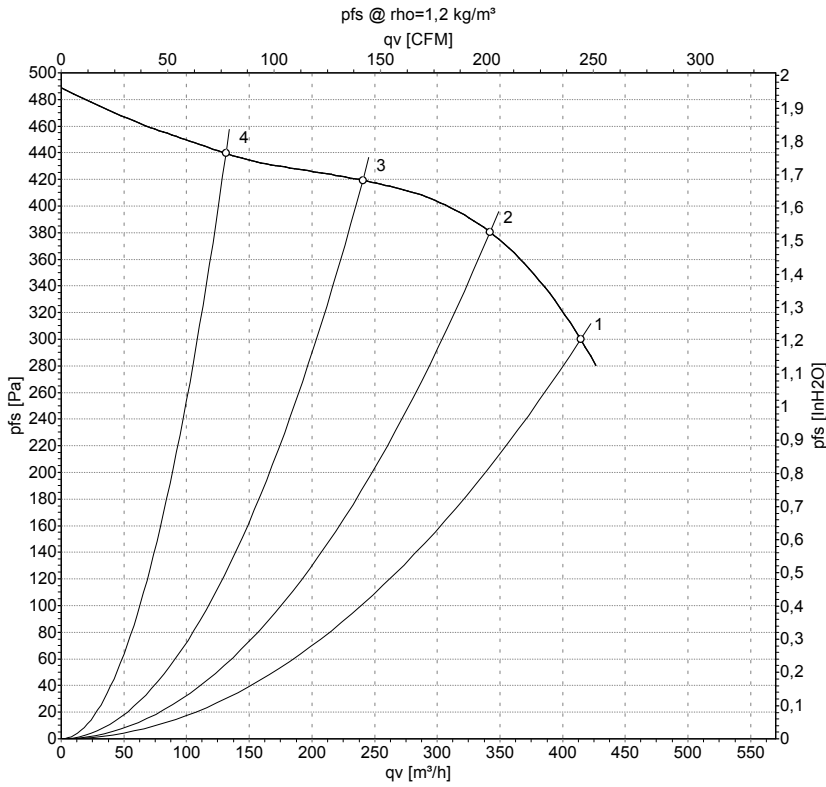
## Connection screen



U1	blue	Z	brown	U2	black
PE	green/yellow				



## Charts: Air flow 50 Hz



Measurement: LU-123305

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 <sub>e</sub>	I	qv	P <sub>fs</sub>
	V	Hz	min <sup>-1</sup>	W	A	m³/h	Pa
1	230	50	2350	145	0.65	415	300
2	230	50	2490	132	0.57	340	380
3	230	50	2640	115	0.50	240	420
4	230	50	2745	102	0.44	130	440

U = Supply voltage · f = Frequency · n = Speed · P<sub>e</sub> = Power input · I = Current draw · qv = Air flow · P<sub>fs</sub> = Pressure increase

