

R2E180-CV82-14 ebmpapst Datasheet  
 sales@fansco.com  
 www.fansco.com

Limited partnership · Headquarters Muldingen  
 County court Stuttgart · HRA 590344

General partner Elektrobau Muldingen GmbH · Headquarters Muldingen  
 County court Stuttgart · HRB 590142

## Nominal data

Type	R2E180-CV82-14	
Motor	M2E068-CF	
Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50
Type of data definition		fa
Valid for approval / standard		CE
Speed (rpm)	min <sup>-1</sup>	2500
Power input	W	75
Current draw	A	0.34
Motor capacitor	µF	2
Capacitor voltage	VDB	400
Capacitor standard		S0 (CE)
Min. back pressure	Pa	0
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	45
Starting current	A	0.64

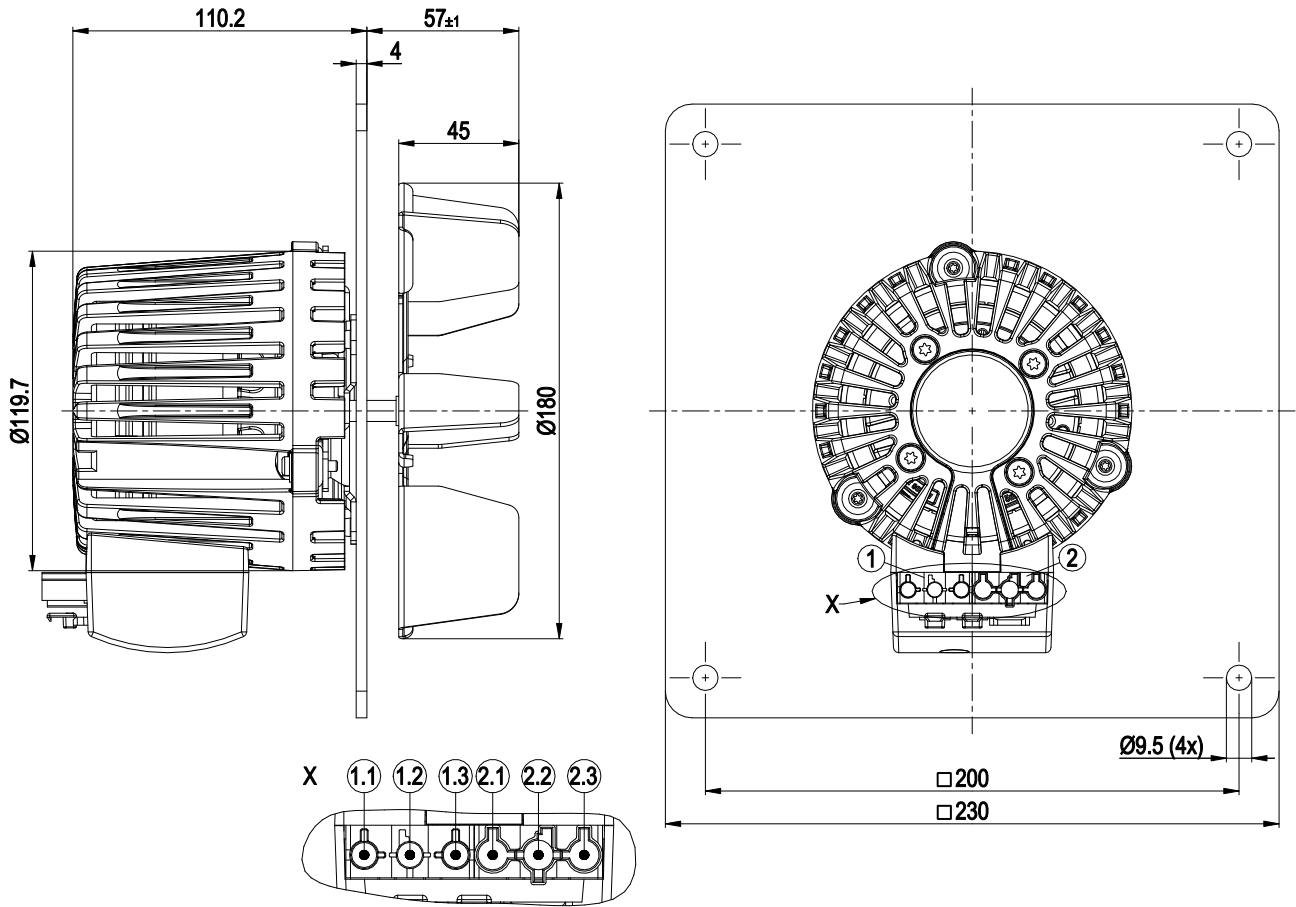
ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit  
 Subject to alterations



### Technical features

<b>Mass</b>	3.9 kg
<b>Size</b>	180 mm
<b>Surface of rotor</b>	Partially cast in aluminium
<b>Material of impeller</b>	Sheet steel, stainless
<b>Material of mounting plate</b>	Sheet steel, hot-dip galvanised
<b>Number of blades</b>	6
<b>Motor suspension</b>	Motor anti-vibration mounted on one side via mounting plate
<b>Direction of rotation</b>	Clockwise, seen on rotor
<b>Type of protection</b>	IP 44; Depending on installation and position
<b>Insulation class</b>	"F"
<b>Humidity (F)/environmental protection class (H)</b>	H0 - dry environment
<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>	Any
<b>Condensate discharge holes</b>	None
<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>	Thermal overload protector (TOP) wired internally
<b>Protection class</b>	I (if protective earth is connected by customer)
<b>Product conforming to standard</b>	EN 60335-1; CE

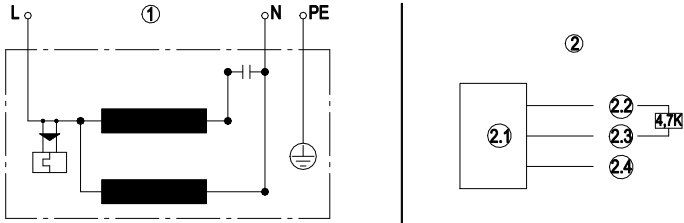
Product drawing



1	Connector housing 3-pole Wieland 93.032.3357.0
1.1	N (black)
1.2	PE (green/yellow)
1.3	L (blue)
2	Connector housing 3-pole Wieland 93.031.3257.0
2.1	0 V (black)
2.2	+5 V (red)
2.3	out (white)

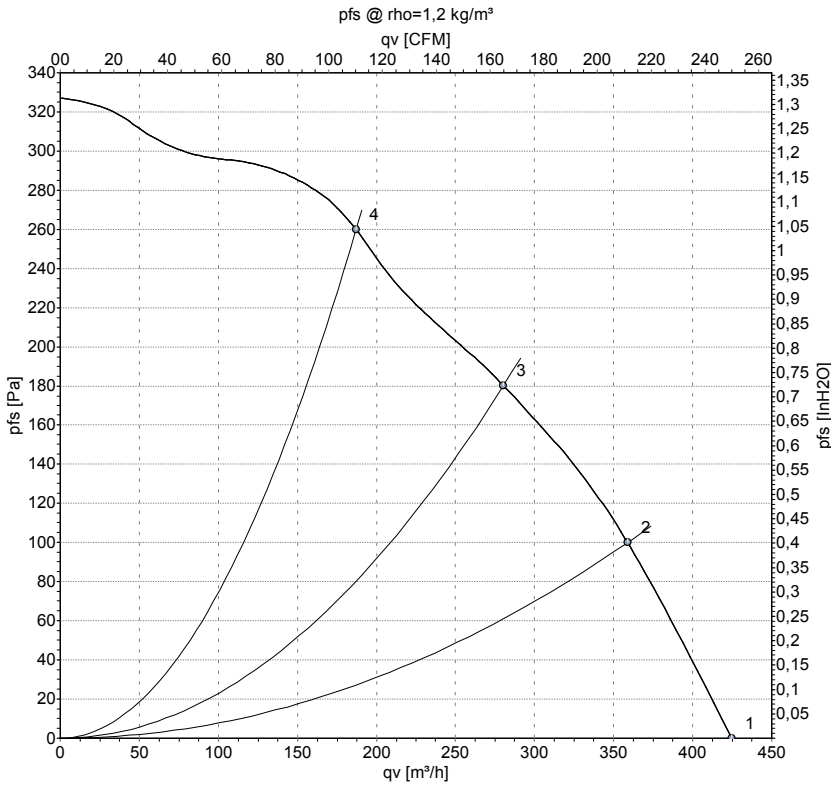


## Connection screen



1	Fan connection diagram
L	blue
N	black
PE	green/yellow
2	Hall IC circuit
2.1	Hall IC
2.2	Red (+5V)
2.3	White (out)
2.4	Black (0V)

## Charts: Air flow 50 Hz



Measurement: LU-151842-1

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: L<sub>wA</sub> measured as per ISO 13347 / L<sub>pA</sub> 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	m <sup>3</sup> /h	Pa	cfm	inH2O
1	230	50	2500	75	0.34	425	0	250	0.00
2	230	50	2490	74	0.33	360	100	210	0.40
3	230	50	2520	72	0.32	280	180	165	0.72
4	230	50	2585	67	0.30	185	260	110	1.04

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

