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**Nominal data**

<b>Type</b>	<b>R2E180-AT38-10</b>	
<b>Motor</b>	<b>M2E068-CF</b>	
Phase		1~
Nominal voltage	VAC	240
Nominal voltage range	VAC	220 .. 240
Frequency	Hz	50
Method of obtaining data		fa
Valid for approval/standard		CE
Speed (rpm)	min <sup>-1</sup>	2400
Power consumption	W	85
Current draw	A	0.36
Capacitor	µF	2
Capacitor voltage	VDB	450
Min. back pressure	Pa	0
Min. back pressure	inH <sub>2</sub> O	0
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	40

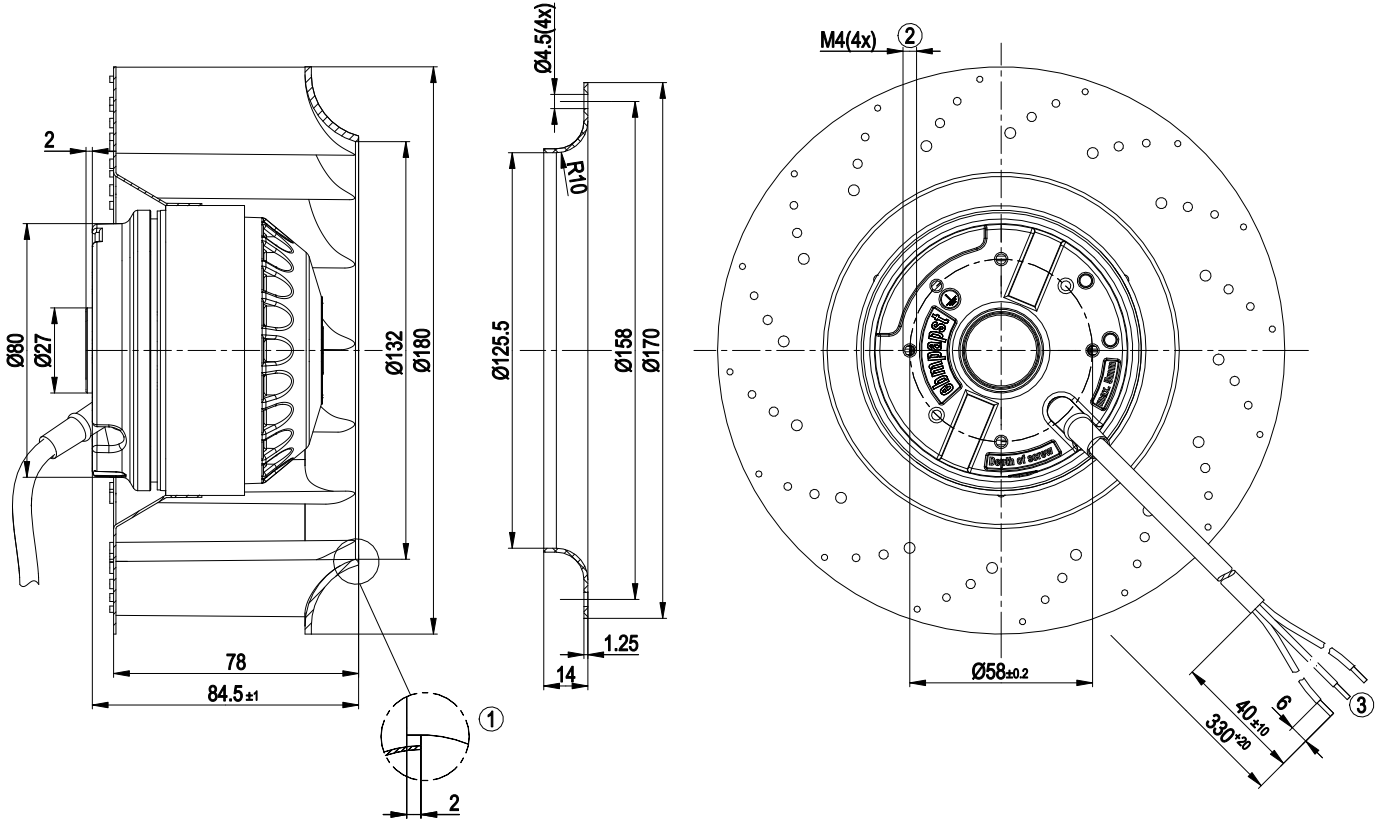
ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment  
Subject to change



## Technical description

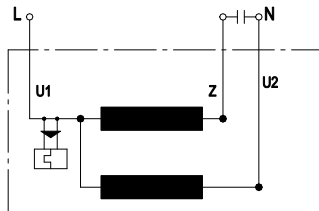
<b>Weight</b>	1.9 kg
<b>Fan size</b>	180 mm
<b>Impeller material</b>	PA plastic
<b>Number of blades</b>	16
<b>Direction of rotation</b>	Clockwise, viewed toward rotor
<b>Degree of protection</b>	IP44; installation- and position-dependent
<b>Insulation class</b>	"F"
<b>Moisture (F) / Environmental (H) protection class</b>	H0 - dry environment
<b>Max. permitted ambient temp. for motor (transport/storage)</b>	+ 80 °C
<b>Min. permitted ambient temp. for motor (transport/storage)</b>	- 40 °C
<b>Installation position</b>	Any
<b>Condensation drainage holes</b>	None
<b>Mode</b>	S1
<b>Motor bearing</b>	Ball bearing
<b>Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)</b>	< 0.75 mA
<b>With cable</b>	Axial
<b>Protection class</b>	I (with customer connection of protective earth)
<b>Conformity with standards</b>	EN 60335-1
<b>Approval</b>	EAC

## Product drawing



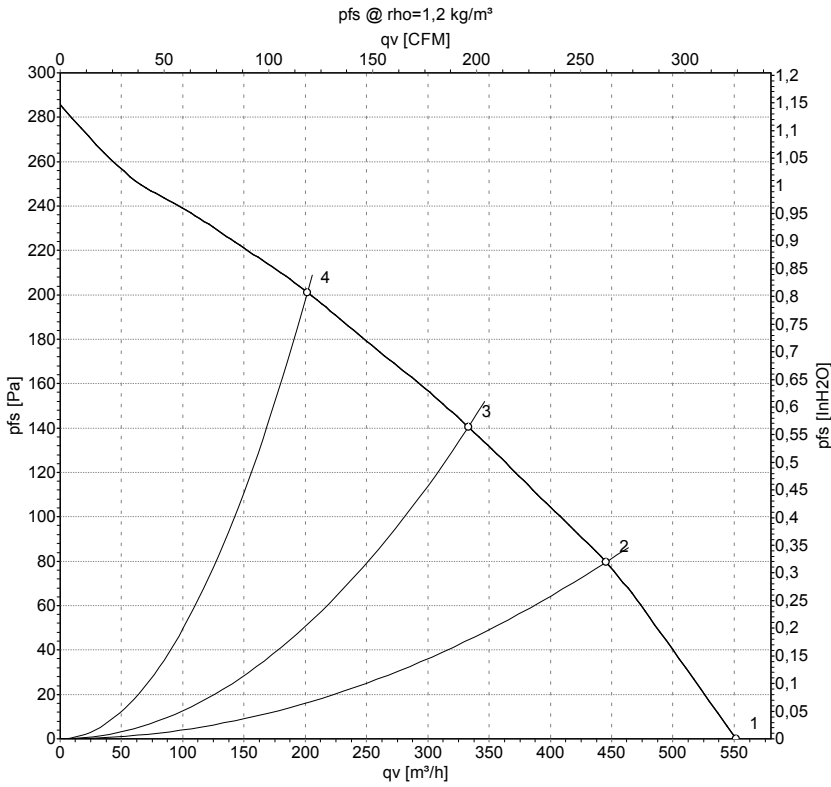
- 1 Accessory part: Inlet ring 09576-2-4013, not included in scope of delivery
- 2 Max. clearance for screw 5 mm
- 3 Cable silicone 3x 0.5 mm<sup>2</sup>, 3x crimped splices

## Connection diagram



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



Measurement: LU-145159-1

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 <sub>e</sub>	I	LpA <sub>in</sub>	LwA <sub>in</sub>	qv	p <sub>fs</sub>	qv	p <sub>fs</sub>
	V	Hz	min <sup>-1</sup>	W	A	dB(A)	dB(A)	m³/h	Pa	CFM	inH2O
1	230	50	2400	85	0.36	62	69	550	0	325	0.00
2	230	50	2260	85	0.37	58	66	445	80	260	0.32
3	230	50	2360	80	0.35	57	65	335	140	195	0.56
4	230	50	2535	72	0.32	58	66	200	200	120	0.80

U = Power supply · f = Frequency · n = Speed (rpm) · P<sub>e</sub> = Power consumption · I = Current draw · LpA<sub>in</sub> = Sound pressure level intake side · LwA<sub>in</sub> = Sound power level intake side  
 qv = Air flow · p<sub>fs</sub> = Pressure increase



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