R4E310-AA16-16

AC centrifugal fan

backward curved, single inlet

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Nominal data

Type	**R4E310-AA16-16**
Motor	**M4E068-EC**

Phase		1~
Nominal voltage	VAC	220
Frequency	Hz	50
Type of data definition		-
Valid for approval / standard		-
Speed	min^{-1}	1400
Power input	W	115
Current draw	A	0.53
Motor capacitor	µF	5
Capacitor voltage	VDB	400
Capacitor standard		P2 (CE)
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	-

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

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Technical features

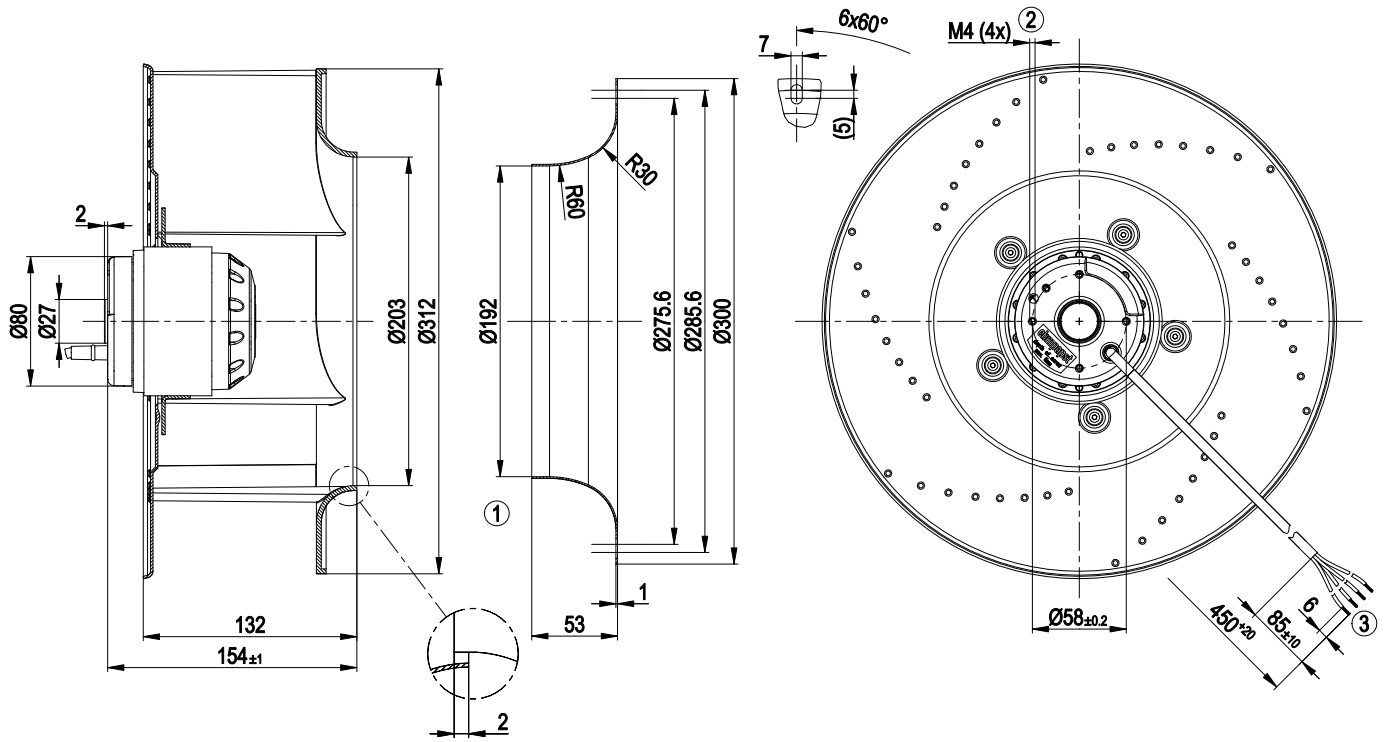
Mass	3.4 kg
Size	310 mm
Surface of rotor	Coated in black
Material of impeller	PA plastic
Number of blades	6
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 44; Depending on installation and position as per EN 60034-5
Insulation class	"F"
Humidity class	F1-2
Max. permissible ambient 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	Thermal cut-out, manual reset
Cable exit	Axial
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1

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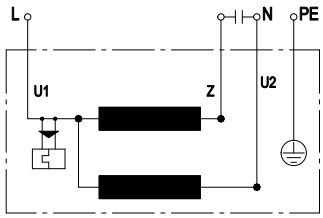
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Product drawing



1	Accessory part: Inlet nozzle 97512-2-4013, not included in the standard scope of delivery
2	Depth of screw max. 5 mm
3	Connection line silicone 4G 0.5 mm², 4 x brass lead tips crimped

Connection screen



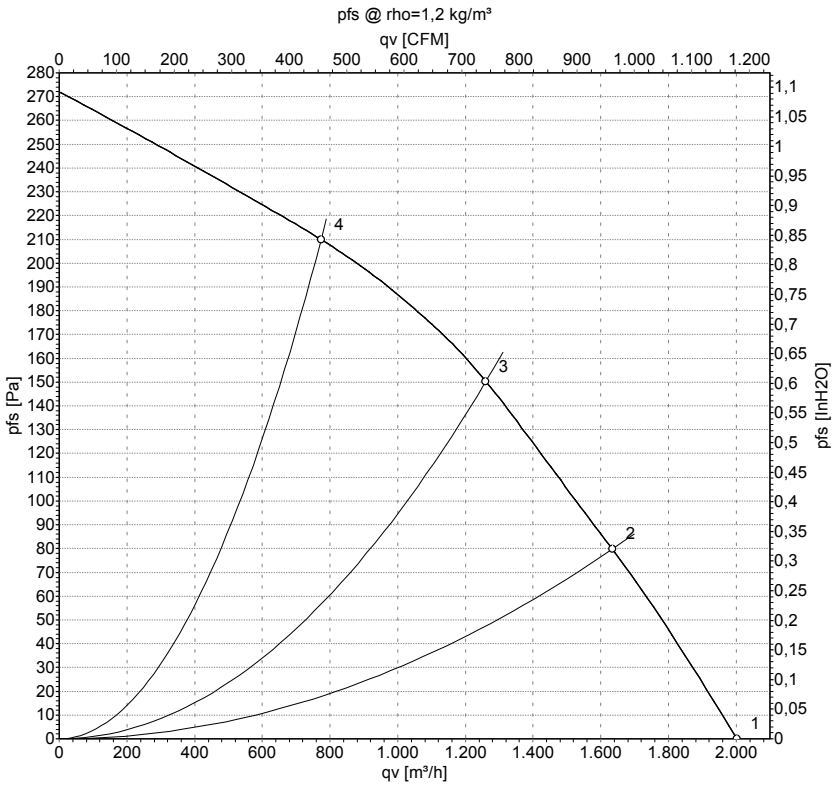
U1	blue	Z	brown	U2	black
PE	green/yellow				

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Charts: Air flow 50 Hz



Measurement: LU-4296

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_e	I	qv	p_{fs}
	V	Hz	min^{-1}	W	A	m^3/h	Pa
1	220	50	1400	115	0.53	2000	0
2	220	50	1365	135	0.62	1635	80
3	220	50	1335	145	0.66	1260	150
4	220	50	1350	141	0.64	775	210

U = Supply voltage · f = Frequency · n = Speed · P_e = Power input · I = Current draw · qv = Air flow · p_{fs} = Pressure increase

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