R4E310-AH13-09

AC centrifugal fan

backward curved, single inlet



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Nominal data

Type	**R4E310-AH13-09**
Motor	**M4E074-EI**

Phase		1~	1~
Nominal voltage	VAC	115	115
Frequency	Hz	60	60
Type of data definition		fa	fa
Valid for approval / standard		CE	UL 2111
Speed	min^{-1}	1670	1670
Power input	W	165	170
Current draw	A	1.45	1.43
Motor capacitor	µF	12	12
Capacitor voltage	VDB	220	220
Capacitor standard		P0 (CE)	UL
Min. back pressure	Pa	0	0
Max. ambient temperature	°C	45	45

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

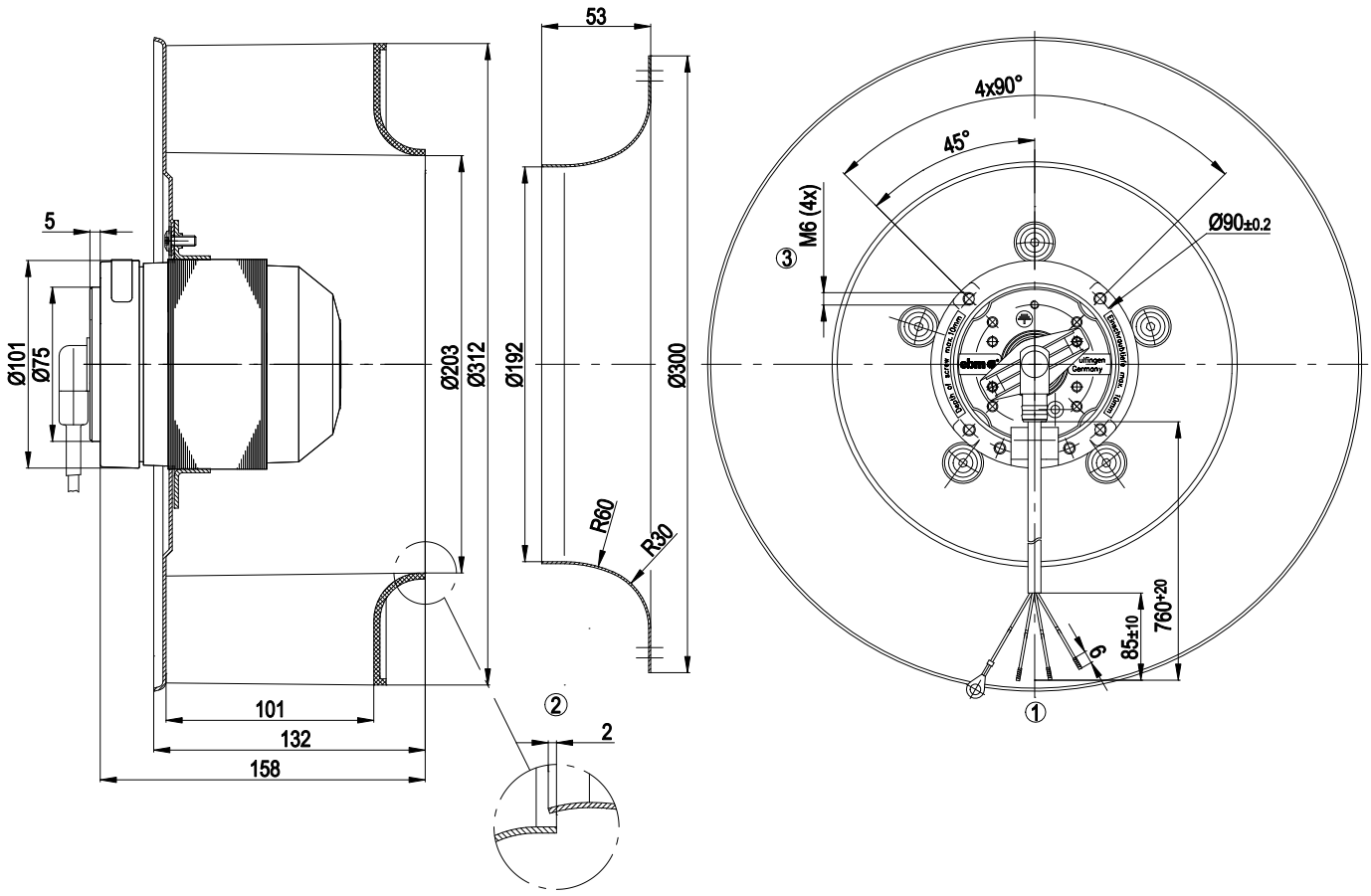
Mass	4.33 kg
Size	310 mm
Surface of rotor	Coated in black
Material of impeller	Plastic PA6, fibreglass-reinforced
Number of blades	6
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 54
Insulation class	"B"
Humidity class	F4-1
Max. permissible ambient motor temp. (transp./ storage)	+ 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	Lateral
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1; CE
Approval	UL 1004-1; CSA C22.2 Nr.100; CCC

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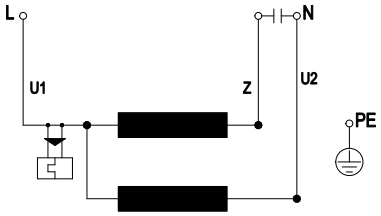
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Product drawing



1	Connection line PFA AWG20, 3 x brass lead tips crimped, crimped at earth wire contact stud AMP-Nr. 160 102-1
2	Accessory part: Inlet nozzle 97512-2-4013, not included in the standard scope of delivery
3	Depth of screw max. 10 mm

Connection screen



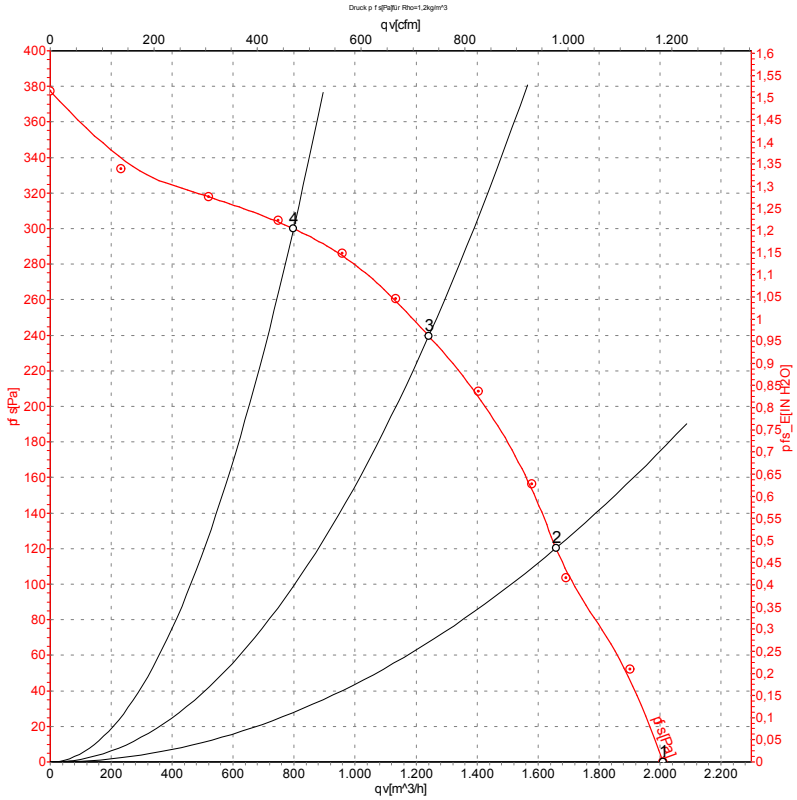
U1	blue	Z	brown	U2	black
PE	green/yellow				

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Charts: Air flow 60 Hz



Measurement: LU-34204

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	115	60	1670	165	1.45	2010	0
2	115	60	1625	184	1.64	1660	120
3	115	60	1600	199	1.77	1240	240
4	115	60	1630	182	1.61	800	300

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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