R4E160-AO52-11

AC centrifugal module

forward curved, single inlet

with support plate

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Nominal data

Type	**R4E160-AO52-11**	
Motor	**M4E068-BF**	
Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50
Type of data definition		cs
Valid for approval / standard		CE
Speed	min^{-1}	1250
Power input	W	43
Current draw	A	0.20
Motor capacitor	µF	1.5
Capacitor voltage	VDB	400
Capacitor standard		P0 (CE)
Min. back pressure	Pa	0
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

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Technical features

Mass	1.1 kg
Size	160 mm
Surface of rotor	Uncoated
Material of impeller	PP plastic, grey
Material of mounting plate	PP plastic
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 44; Depending on installation and position
Insulation class	"B"
Humidity class	F0
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
Electrical leads	Via terminal strips, integrated capacitor connected via terminal strips
Motor protection	Thermal cut-out, manual reset
Cable exit	Variable
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1; CE

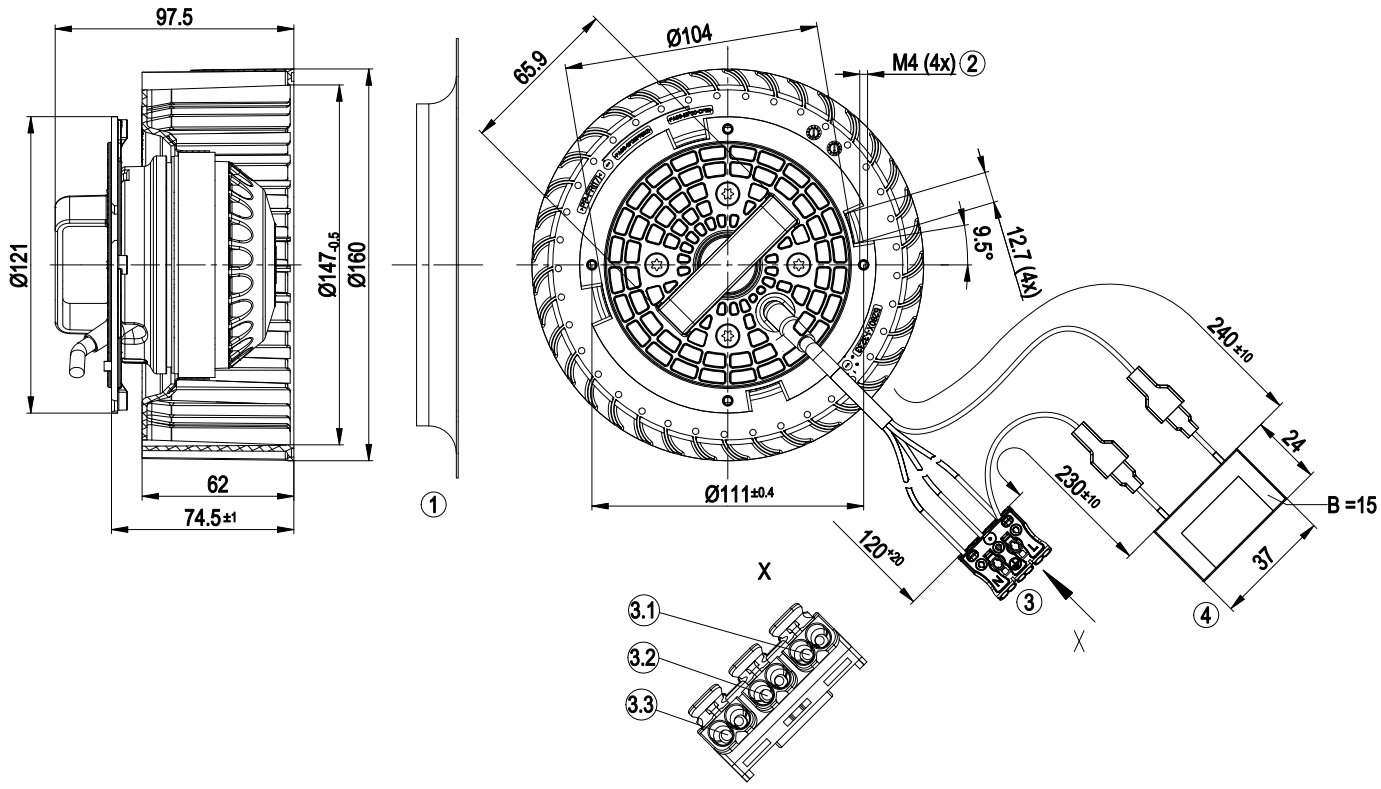
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Product drawing



1	Accessory part: Inlet nozzle 09588-2-4013 not included in scope of delivery
2	Pilot hole prepared for self-tapping screw M4, depth of screw max. 8 mm
3	Connection line AWG20 with terminal strip Adels-Contact 040G13B1
3.1	L
3.2	PE
3.3	N
4	Rectangular capacitor with adhesive foil Seika 1.5 µF 400 VDB

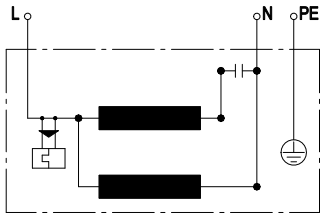
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Connection screen



L	blue	N	black	PE	green/yellow

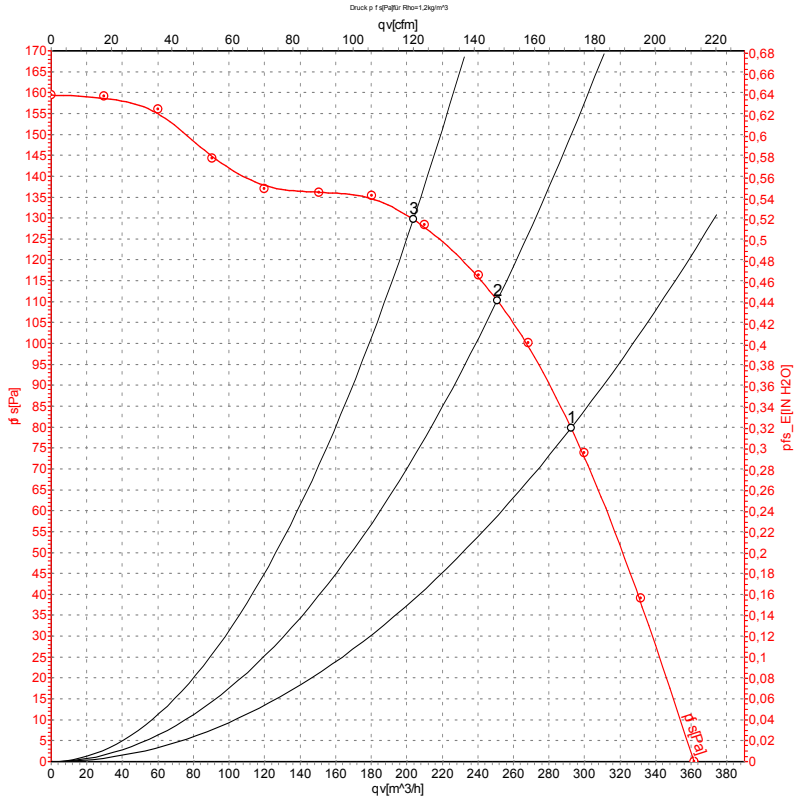
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Charts: Air flow 50 Hz



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	230	50	1250	43	0.20	290	80
2	230	50	1305	41	0.18	250	110
3	230	50	1345	39	0.17	205	130

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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