K2E250-RA11-13

AC centrifugal module - RadiCal

backward-curved, single-intake

with housing

ebm-papst Mulfingen GmbH & Co. KG
Bachmühle 2 · D-74673 Mulfingen
Phone +49 7938 81-0
Fax +49 7938 81-110
info1@de.ebmpapst.com
www.ebmpapst.com

Limited partnership · Headquarters Mulfingen
Amtsgericht (court of registration) Stuttgart · HRA 590344

General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen
Amtsgericht (court of registration) Stuttgart · HRB 590142

Nominal data

Type	**K2E250-RA11-13**	
Motor	**M2E068-EC**	
Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50
Method of obtaining data		ml
Valid for approval/standard		CE
Speed (rpm)	min^{-1}	2400
Power consumption	W	200
Current draw	A	0.88
Capacitor	µF	6
Capacitor voltage	VDB	400
Capacitor standard		S2 (CE)
Min. back pressure	Pa	0
Min. back pressure	inH2O	0
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	50
Starting current	A	1.5

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

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Technical description

Weight	3.7 kg
Fan size	250 mm
Rotor surface	Unpainted
Impeller material	PA plastic
Housing material	PA plastic
Number of blades	7
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP44; installation- and position-dependent
Insulation class	"F"
Moisture (F) / Environmental (H) protection class	H0+
Max. permitted ambient temp. for motor (transport/storage)	+ 80 °C
Min. permitted ambient temp. for motor (transport/storage)	- 40 °C
Installation position	Any
Condensation drainage holes	None
Mode	S1
Motor bearing	Ball bearing
Speed levels	2
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	< 0.75 mA
Motor protection	Thermal overload protector (TOP) internally connected
With cable	Variable
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1; CE
Approval	VDE

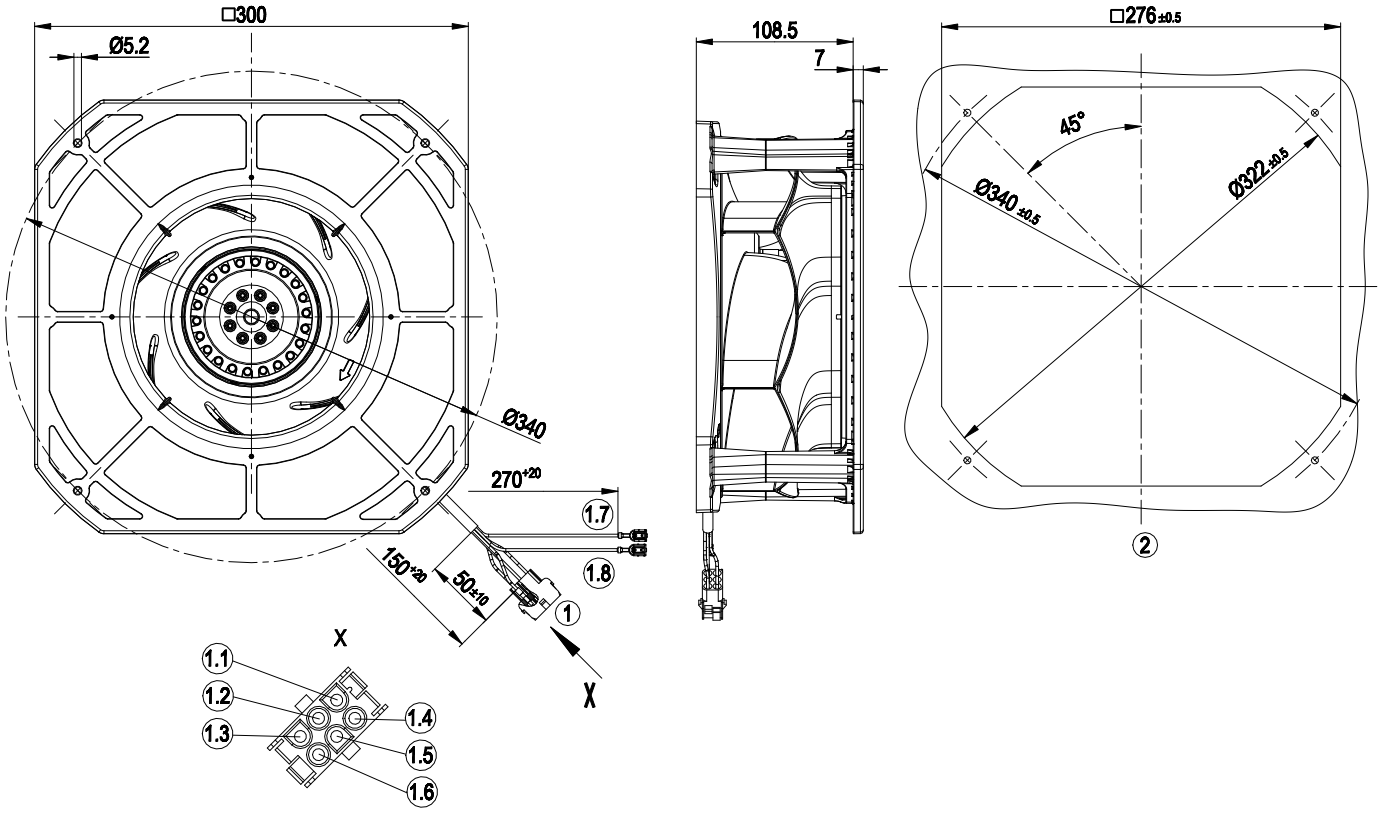
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Product drawing



1	Cable PFA AWG20, 6-pole connector housing tyco 1586860-1, 4x plug pin tyco 926886-1
1.1	not used
1.2	not used
1.3	white
1.4	black
1.5	blue
1.6	green/yellow
1.7	Capacitor (brown), flat push-on receptacle 6.3 x 1.0
1.8	Capacitor (yellow), flat push-on receptacle 6.3 x 1.0
2	Mounting dimensions

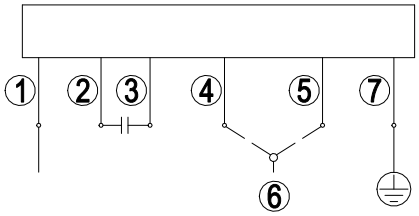
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Connection diagram



Note: High speed (step II); low speed (step I)

1	blue (N)	2	brown (capacitor)	3	yellow (capacitor)
4	Step I white	5	Step II black	6	L1
7	green/yellow (PE)				

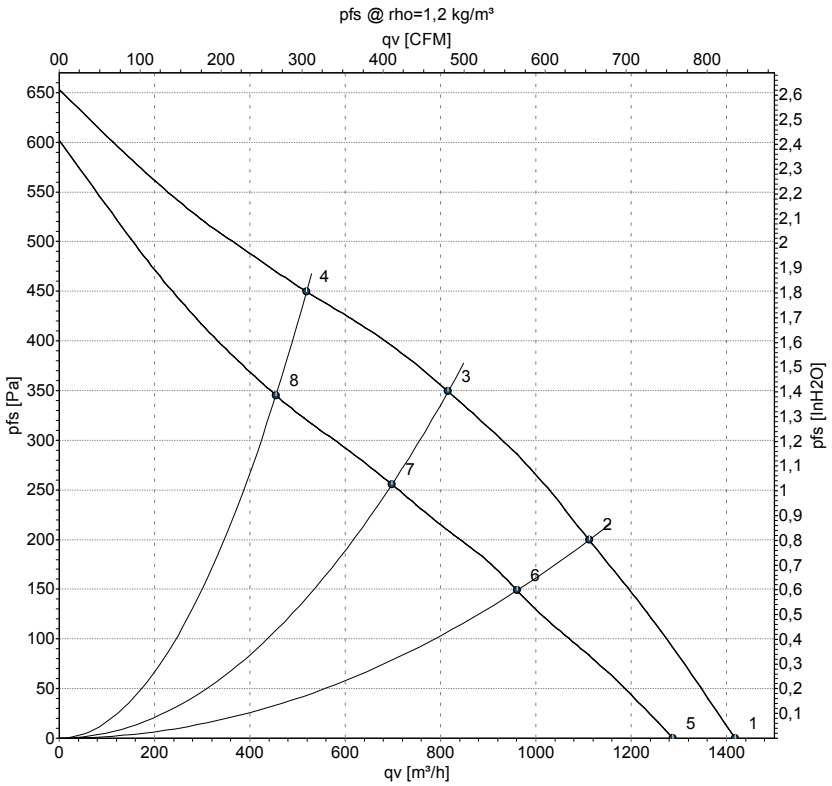
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Curves: Air performance 50 Hz



Measurement: LU-132929-1
Measurement: LU-132930-1

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_e	I	q_V	p_{fs}	q_V	p_{fs}
	V	Hz	min^{-1}	W	A	m^3/h	Pa	cfm	inH2O
1	230	50	2565	170	0.74	1415	0	835	0.00
2	230	50	2435	197	0.86	1110	200	655	0.80
3	230	50	2400	200	0.88	815	350	480	1.41
4	230	50	2480	187	0.81	520	450	305	1.81
5	230	50	2335	160	0.71	1285	0	755	0.00
6	230	50	2115	185	0.81	960	149	565	0.60
7	230	50	2080	188	0.82	700	256	410	1.03
8	230	50	2180	176	0.78	455	345	270	1.39

U = Power supply · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · q_V = Air flow · p_{fs} = Pressure increase

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