K2E250-AA01-09

AC centrifugal fan

backward-curved

with housing (without flange)

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Nominal data

Type	**K2E250-AA01-09**
Motor	**M2E068-EC**

Phase		1~	1~	1~
Nominal voltage	VAC	230	230	230
Frequency	Hz	50	60	60
Method of obtaining data		ce	ce	ce
Valid for approval/standard		-	-	UL 1004-3
Speed (rpm)	min^{-1}	2450	2500	2500
Power consumption	W	195	265	275
Current draw	A	0.86	1.16	1.2
Capacitor	µF	5	5	5
Capacitor voltage	VDB	400	400	400
Capacitor standard		S2 (CE)	S2 (CE)	UL
Min. ambient temperature	°C	-25	-25	-25
Max. ambient temperature	°C	55	55	55

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	5.4 kg
Fan size	250 mm
Rotor surface	Painted black
Impeller material	Sheet steel, galvanized
Housing material	PA plastic
Number of blades	11
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP00
Insulation class	"B"
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
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 60034-1; EN 60204-1
Approval	CCC; UL 2111; CSA C22.2 No. 77

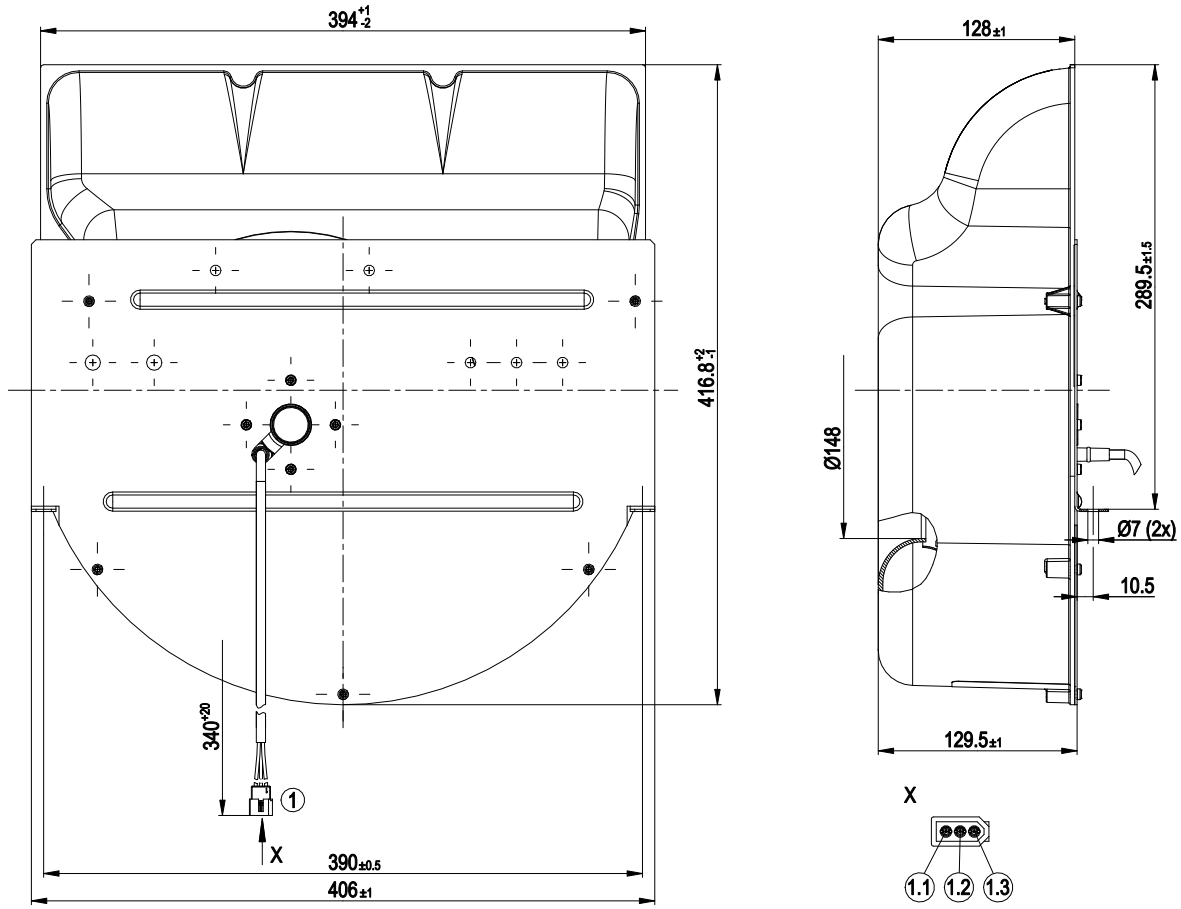
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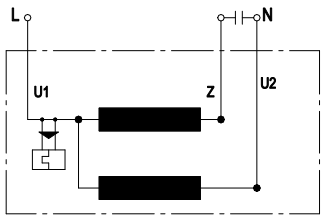
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Product drawing



1	Cable PFA 3x AWG20, 1x connector housing Molex 03-06-2032 with 3x plug pin Molex 02-06-2101
1.1	brown
1.2	black
1.3	blue

Connection diagram



U1	blue	Z	brown	U2	black

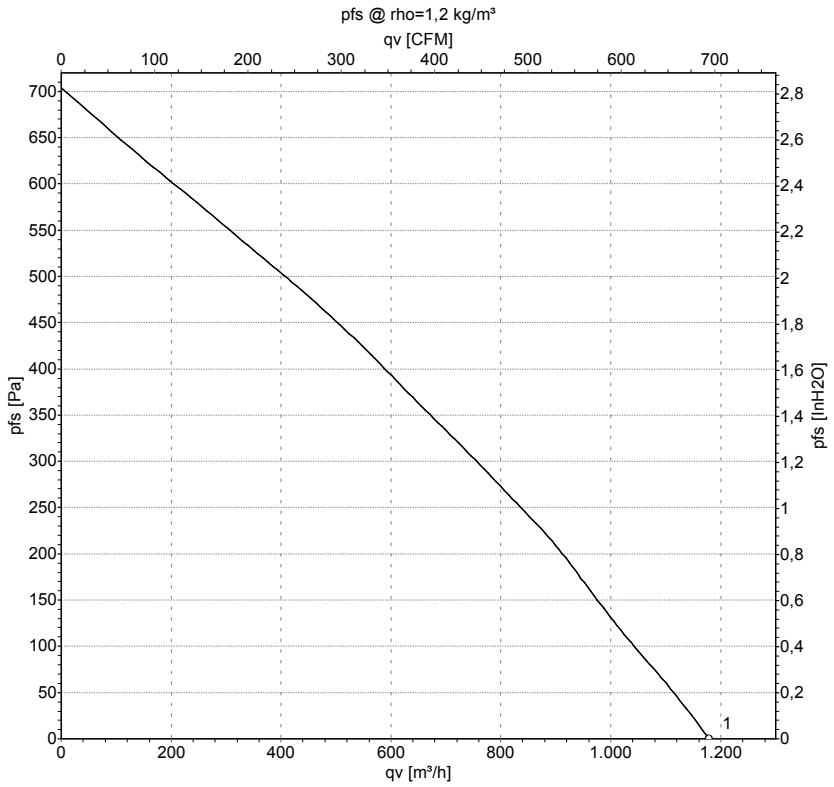
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Curves: Air performance 50 Hz



Measurement: LU-60910-1

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	q_V	p_{fs}
	V	Hz	min^{-1}	W	A	m^3/h	cfm	inH2O
1	230	50	2450	195	0.86	1180	695	0.00

U = Power supply · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · q_V = Air flow

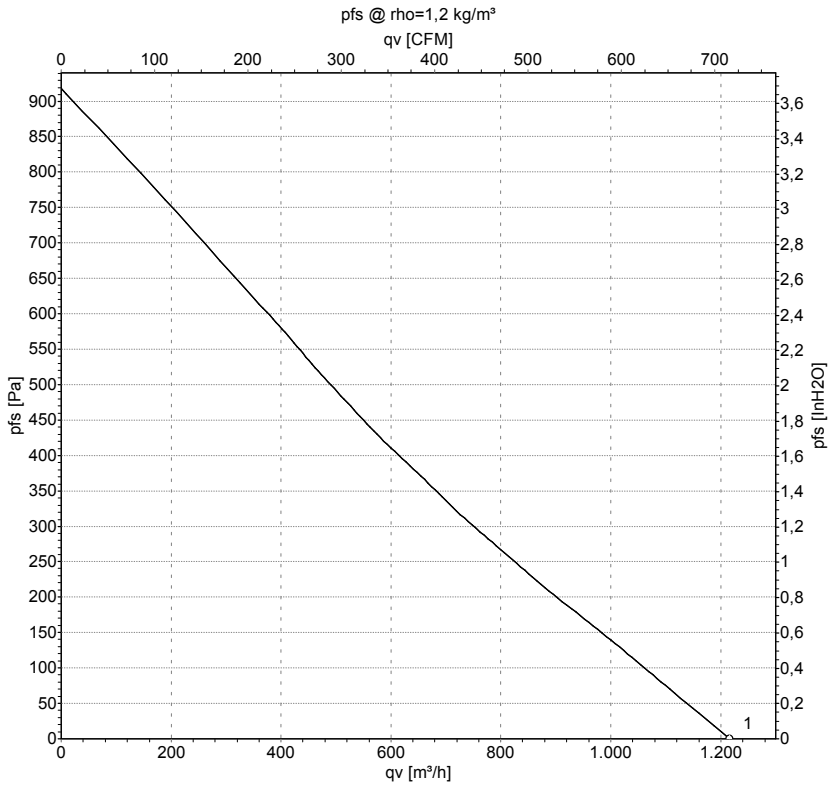
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Curves: Air performance 60 Hz



Measurement: LU-60911-1

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	q_V	p_{fs}
	V	Hz	min^{-1}	W	A	m^3/h	cfm	inH2O
1	230	60	2500	265	1.16	1215	715	0.00

U = Power supply · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · q_V = Air flow

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