

K2E200-AD20-01

AC diagonal module

single-intake

with housing



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Amtsgericht (court of registration) Stuttgart · HRB 590142

Nominal data

Type	K2E200-AD20-01			
Motor	M2E068-CF			
Phase		1~	1~	1~
Nominal voltage	VAC	230	230	230
Frequency	Hz	50	60	60
Method of obtaining data		fa	fa	fa
Valid for approval/standard		CE	CE	UL 1004-3
Speed (rpm)	min ⁻¹	2750	3150	3150
Power consumption	W	67	85	90
Current draw	A	0.36	0.38	0.4
Capacitor	µF	1.5	1.5	1.5
Capacitor voltage	VDB	400	400	400
Capacitor standard		S0 (CE)	S0 (CE)	S0 (CE)
Max. back pressure	Pa	160	210	210
Max. back pressure	in. wg	0.64	0.84	0.84
Min. ambient temperature	°C	-25	-25	-25
Max. ambient temperature	°C	45	65	65
Starting current	A	0.78	0.76	0.76

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



Technical description

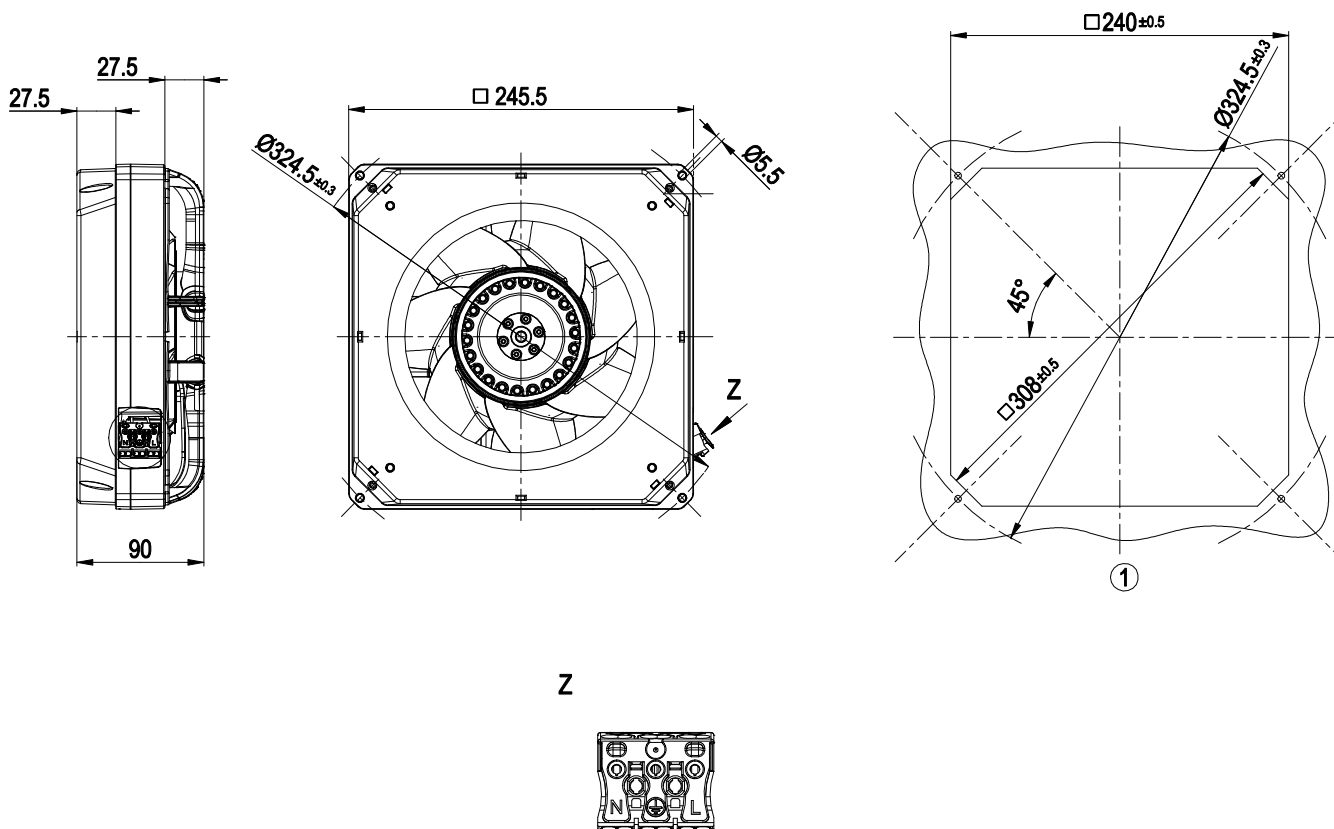
Weight	2.6 kg
Size	200 mm
Motor size	68
Rotor surface	Painted black
Terminal box material	PA plastic
Impeller material	PA plastic
Housing material	PP plastic
Number of blades	7
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP44; installation- and position-dependent as per EN 60034-5
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	H1
Max. permitted ambient temp. for motor (transport/storage)	+ 80 °C
Min. permitted ambient temp. for motor (transport/storage)	- 40 °C
Installation position	Shaft horizontal or rotor on top; rotor on bottom on request
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)
Motor capacitor according to EN 60252-1 in safety protection class	S0
Conformity with standards	EN 60335-1; CE
Approval	CSA C22.2 No. 77; UL 1004-3; EAC



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Product drawing



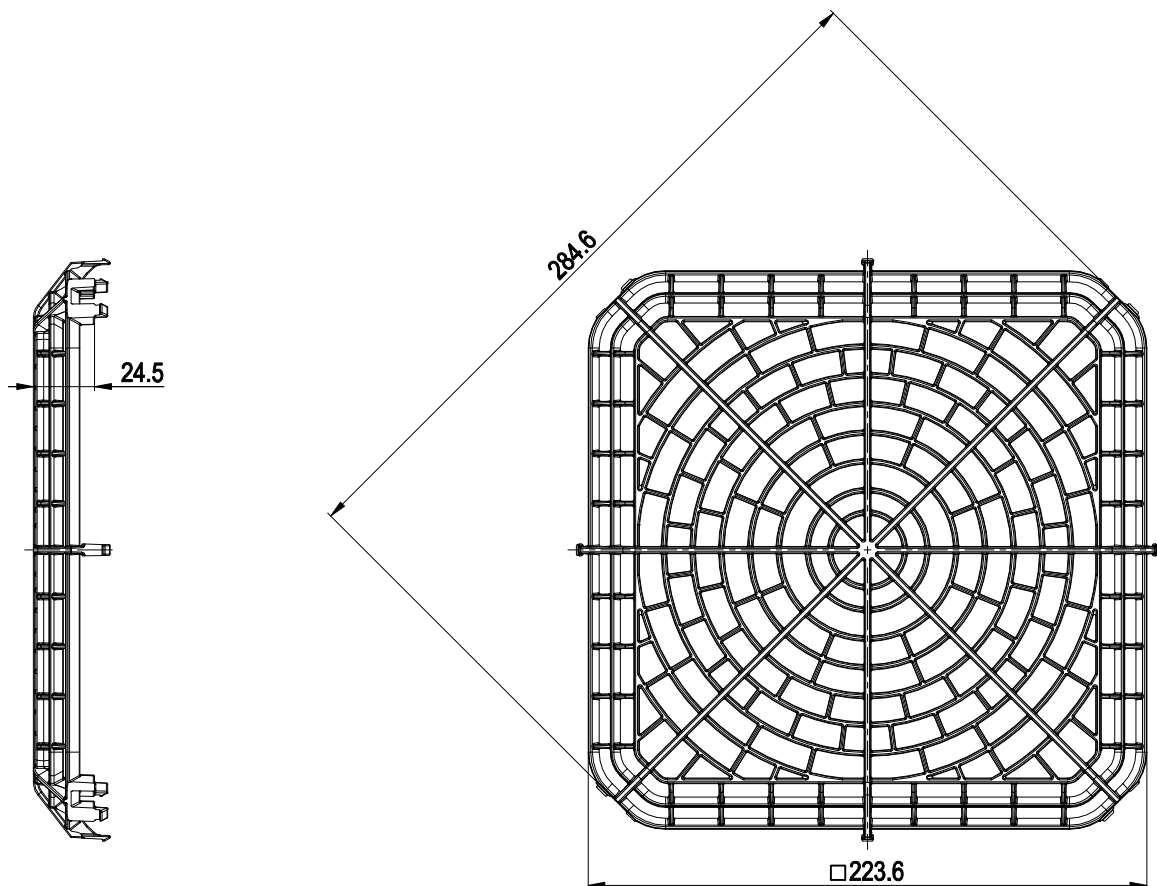
1 Mounting dimensions



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Accessory part



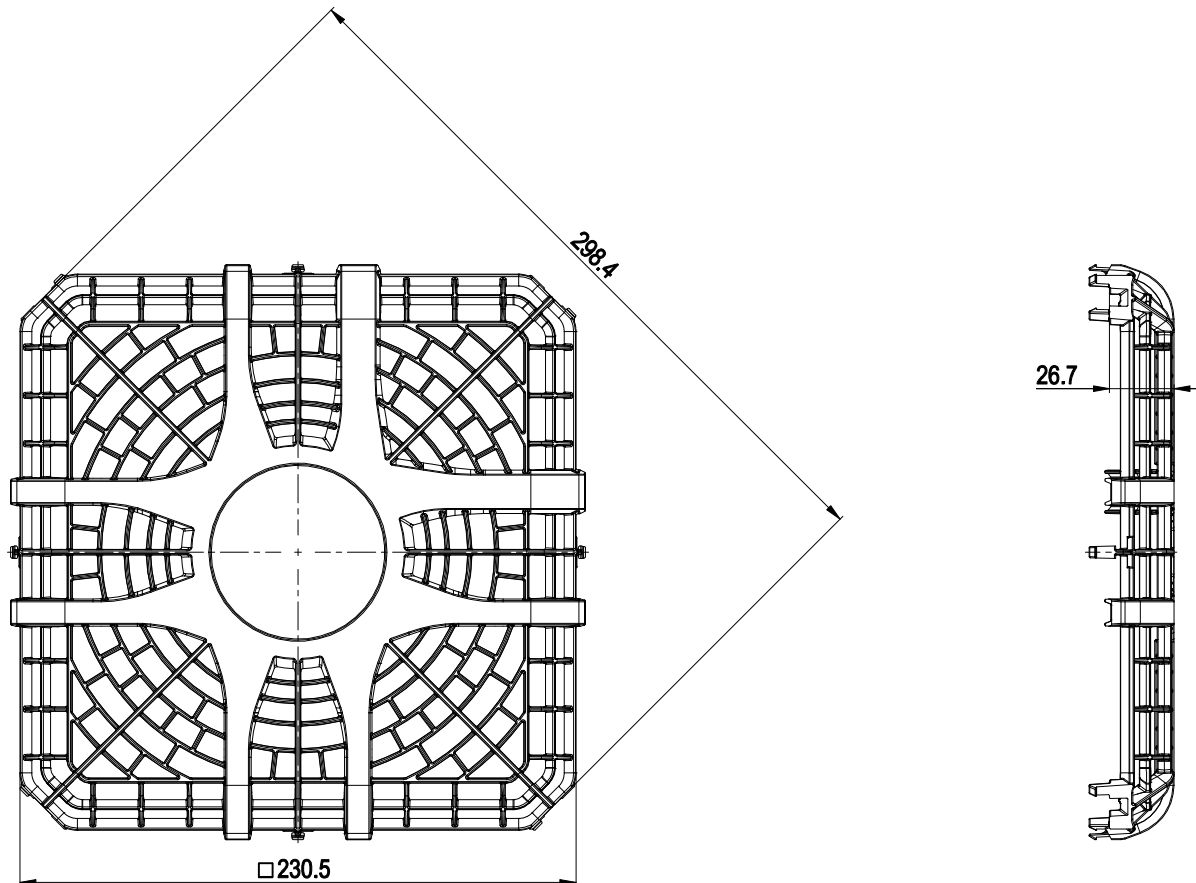
Accessory part: Guard grill 25000-2-2929 on intake side, not included in scope of delivery



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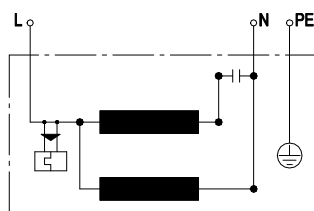
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Accessory part: Guard grill 25001-2-2929 on outlet side, not included in scope of delivery

Connection diagram



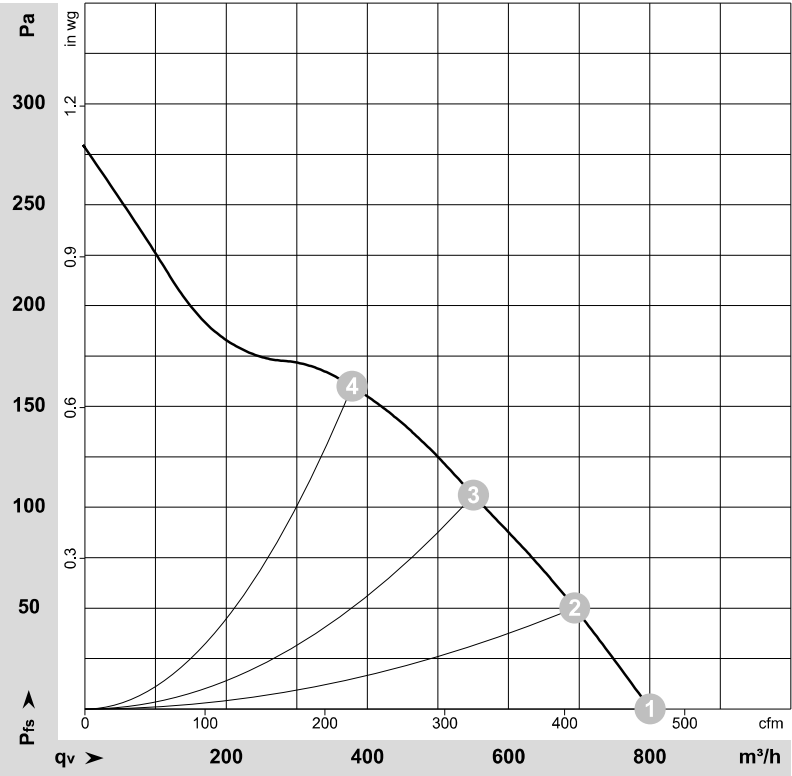
Terminal	Color
L	black
N	blue
PE	green/yellow



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Curves: Air performance 50 Hz



$\rho = 1.15 \text{ kg/m}^3 \pm 2 \%$

Measurement: LU-174953-1

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	LpA _{in}	LwA _{in}	q _v	p _{fs}	q _v	p _{fs}
	V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	m ³ /h	Pa	cfm	in. wg
1	230	50	2750	67	0.36	61	69	800	0	470	0.00
2	230	50	2710	70	0.36	60	68	695	50	410	0.20
3	230	50	2690	73	0.37	58	66	550	105	325	0.42
4	230	50	2695	72	0.36	58	66	380	160	220	0.64

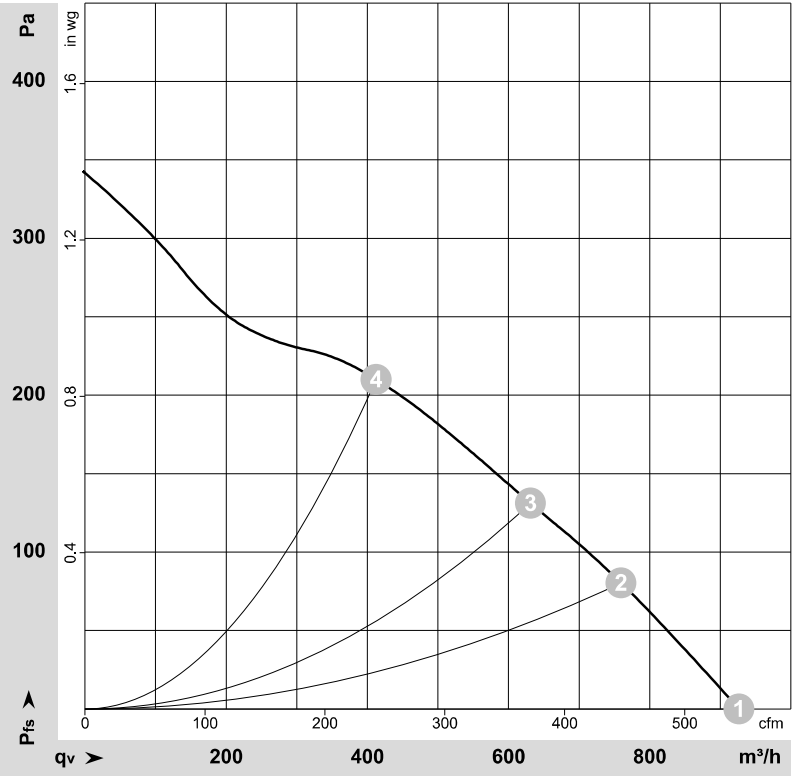
U = Voltage · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · LpA_{in} = Sound pressure level intake side · LwA_{in} = Sound power level intake side
q_v = Air flow · p_{fs} = Pressure increase



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Curves: Air performance 60 Hz



$\rho = 1.15 \text{ kg/m}^3 \pm 2 \%$

Measurement: LU-175378-1

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	LpA _{in}	LwA _{in}	q _v	p _{fs}	q _v	p _{fs}
	V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	m ³ /h	Pa	cfm	in. wg
1	230	60	3150	85	0.38	64	72	925	0	545	0.00
2	230	60	3065	90	0.40	63	71	760	80	445	0.32
3	230	60	3015	95	0.41	62	70	630	130	370	0.52
4	230	60	3035	92	0.40	62	70	410	210	240	0.84

U = Voltage · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · LpA_{in} = Sound pressure level intake side · LwA_{in} = Sound power level intake side
q_v = Air flow · p_{fs} = Pressure increase

