K3G200-AD21-01

EC diagonal module

single inlet

with housing



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Nominal data

Type	**K3G200-AD21-01**
Motor	**M3G055-BI**

Phase		1~
Nominal voltage	VAC	230
Nominal voltage range	VAC	200 .. 240
Frequency	Hz	50/60
Type of data definition		ml
Speed (rpm)	min^{-1}	3100
Power input	W	80
Current draw	A	0.7
Max. back pressure	Pa	220
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	60

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	2 kg
Size	200 mm
Surface of rotor	Thick layer passivated
Material of terminal box	PA plastic
Material of electronics housing	Die-cast aluminium
Material of impeller	PA plastic
Housing material	PP plastic
Number of blades	7
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 54
Insulation class	"B"
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, open rotor
Operation mode	S1
Motor bearing	Ball bearing
Technical features	- Output 10 VDC, max. 1.1 mA - Tach output - Output limit - Motor current limit - Soft start - Control input 0-10 VDC / PWM - Control interface with SELV potential safely disconnected from the mains - Overvoltage detection - Over-temperature protected electronics / motor - Line undervoltage detection
EMC interference immunity	Acc. to EN 61000-6-2 (industrial environment)
EMC harmonics	Acc. to EN 61000-3-2/3
EMC interference emission	Acc. to EN 61000-6-3 (household environment)
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	<= 3.5 mA
Motor protection	Locked-rotor protection
Cable exit	Variable
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1; CE
Approval	UL 1004-7 + 60730; CSA C22.2 No.77

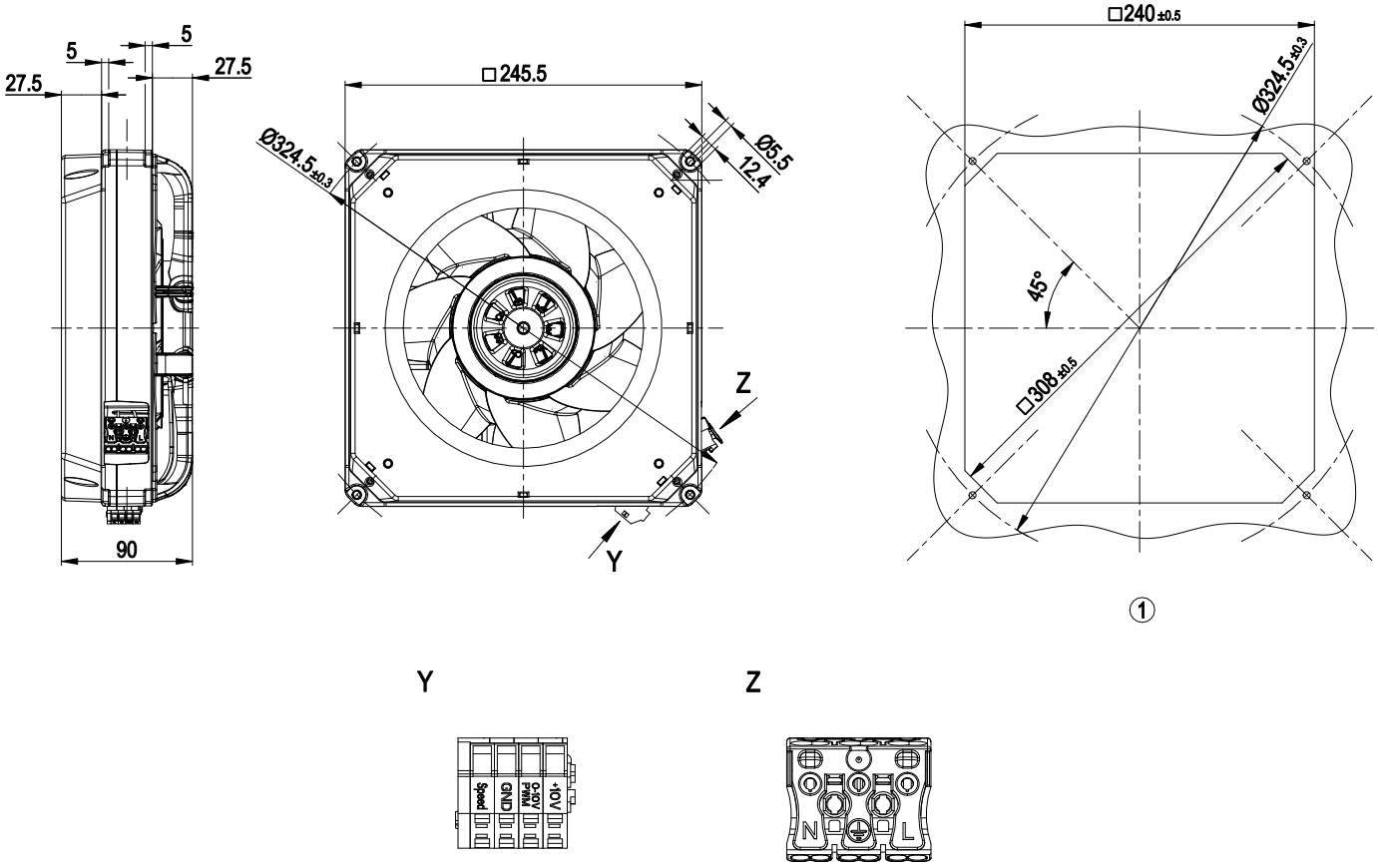
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Product drawing



1	Mounting dimensions

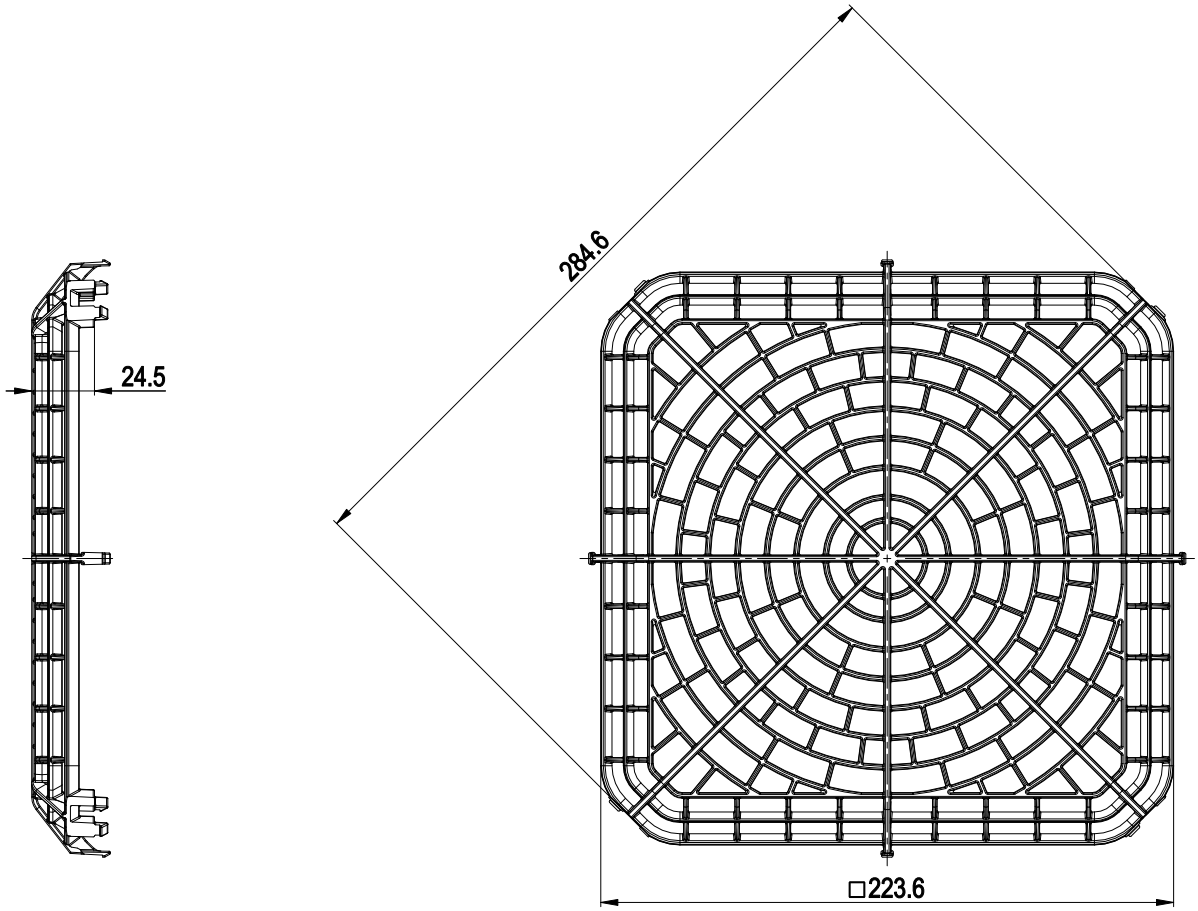
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Accessory part



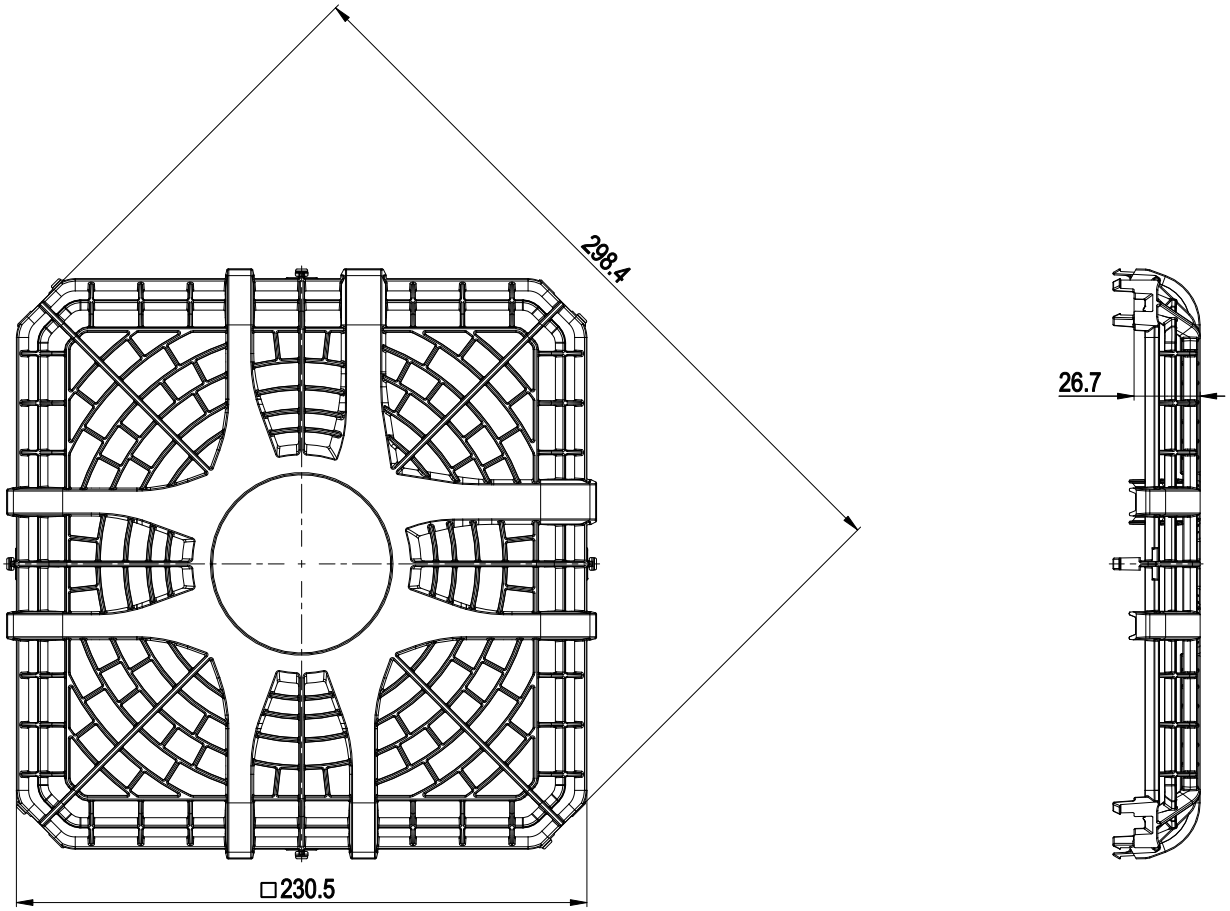
Accessory part: Guard grille 25000-2-2929 outlet side, not included in scope of delivery

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Accessory part: Guard grille 25001-2-2929 intake side, not included in scope of delivery

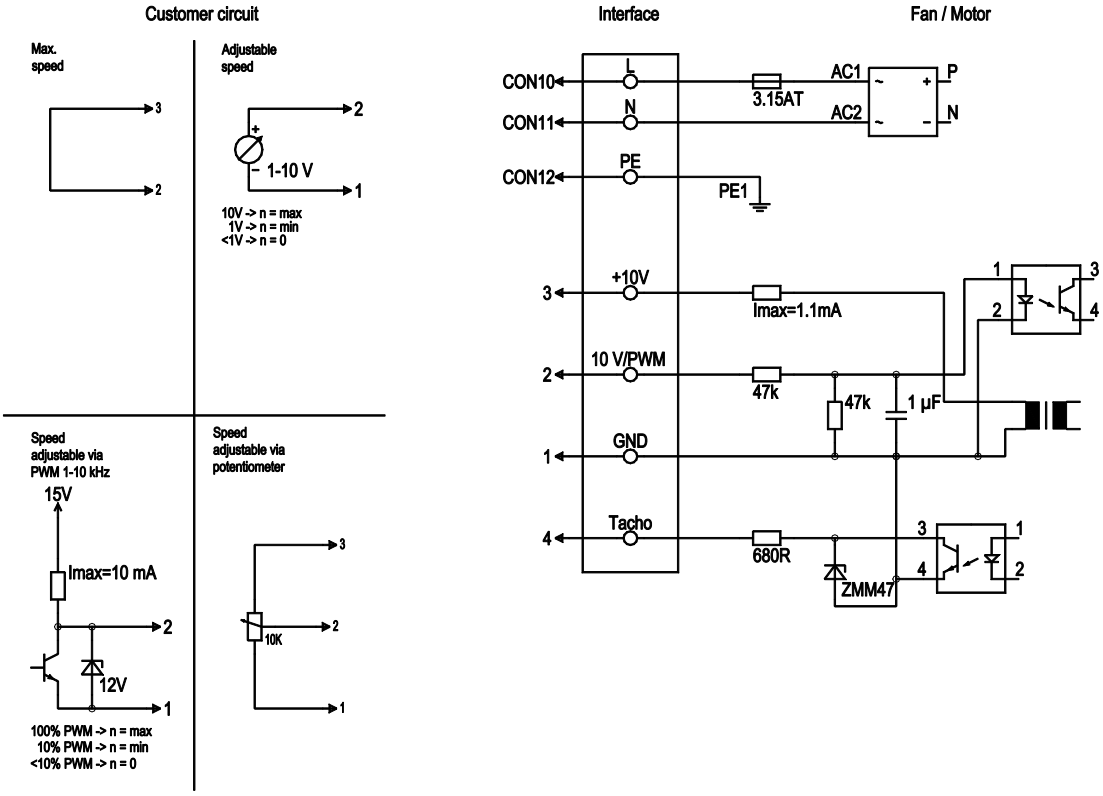
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Connection screen



No.	Conn.	Designation	Colour	Function / assignment
	CON10	L	black	Power supply 230 VAC, 50-60 Hz, see type plate for voltage range
	CON11	N	blue	Neutral conductor
	CON12	PE	green/yellow	Protective earth
	1	GND	blue	GND connection for control interface
	2	0-10V PWM	yellow	Control input 0-10 V or PWM, electrically isolated
	3	10 V / max. 1,1 mA	red	Voltage output 10 VDC 1.1 mA, electrically isolated, short-circuit-proof
	4	Tacho	white	Tach output: Open collector, 1 pulse per revolution, electrically isolated

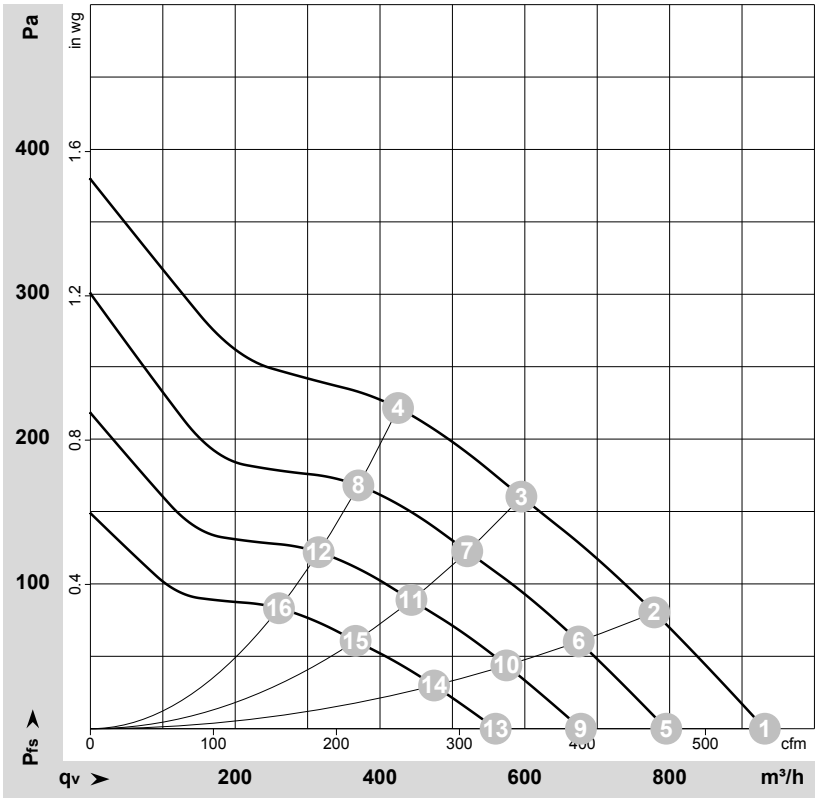
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Charts: Air flow 50 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-176333-1

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_{ed}	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	inH2O
1	230	50	3160	69	0.63	64	72	930	0	550	0.00
2	230	50	3120	75	0.68	62	70	780	80	460	0.32
3	230	50	3100	80	0.70	61	69	595	160	350	0.64
4	230	50	3100	76	0.69	61	69	425	220	250	0.88
5	230	50	2700	43	0.39	60	68	795	0	470	0.00
6	230	50	2700	49	0.44	59	67	675	60	395	0.24
7	230	50	2700	52	0.47	58	66	520	123	305	0.49
8	230	50	2700	50	0.45	58	66	370	169	220	0.68
9	230	50	2300	27	0.24	56	64	680	0	400	0.00
10	230	50	2300	30	0.27	55	63	575	44	340	0.18
11	230	50	2300	32	0.29	54	62	445	89	260	0.36
12	230	50	2300	31	0.28	54	62	315	122	185	0.49
13	230	50	1900	15	0.14	51	59	560	0	330	0.00
14	230	50	1900	17	0.15	50	58	475	30	280	0.12
15	230	50	1900	18	0.16	49	57	365	61	215	0.24
16	230	50	1900	18	0.16	49	57	260	84	155	0.34

U = Supply voltage · f = Frequency · n = Speed (rpm) · P_{ed} = Power input · I = Current draw · LpA_{in} = Sound pressure level inlet side · LwA_{in} = Sound power level inlet side · q_V = Air flow p_{fs} = Pressure increase

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