K3G200-BDA4-04

EC diagonal module

single inlet

with support bracket

K3G200-BDA4-04 ebmpapst Datasheet
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Limited partnership · Headquarters Mulfingen
County court Stuttgart · HRA 590344

General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen
County court Stuttgart · HRB 590142

Nominal data

Type	**K3G200-BDA4-04**	
Motor	**M3G074-CF**	
Nominal voltage	VDC	48
Nominal voltage range	VDC	36 .. 57
Type of data definition		fa
State		prelim.
Speed (rpm)	min^{-1}	5050
Power input	W	320
Current draw	A	6.7
Max. back pressure	Pa	750
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	50

ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit
Subject to alterations

Data according to ErP directive

		Actual	Request 2015
01 Overall efficiency η_{es}	%	47.5	34.6
02 Measurement category		A	
03 Efficiency category		Static	
04 Efficiency grade N		62.9	50
05 Variable speed drive		Yes	

09 Power input P_e	kW	0.34
09 Air flow q_v	m^3/h	800
09 Pressure increase p_{fs}	Pa	660
10 Speed (rpm) n	min^{-1}	4915
11 Specific ratio*		1.01

Data definition with optimum efficiency.
The ErP data is determined using a motor-impeller combination in a standardised measurement configuration.

* Specific ratio = 1 + p_{fs} / 100 000 Pa

LU-144450

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Technical features

Mass	2.26 kg
Size	200 mm
Surface of rotor	Coated in black
Material of impeller	PA plastic
Housing material	PA plastic
Material of support bracket	PA plastic
Number of blades	7
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 44; Depending on installation and position
Insulation class	"B"
Humidity (F)/environmental protection class (H)	F2-1
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
Technical features	- Tach output - Motor current limit - Soft start - Control input 0-10 VDC / PWM - Over-temperature protected electronics
EMC interference immunity	Acc. to EN 61000-6-2 (industrial environment)
EMC interference emission	Acc. to EN 55022 (Class B, household environment)
Motor protection	Reverse polarity and locked-rotor protection
Cable exit	Lateral
Product conforming to standard	EN 60335-1
Approval	CCC

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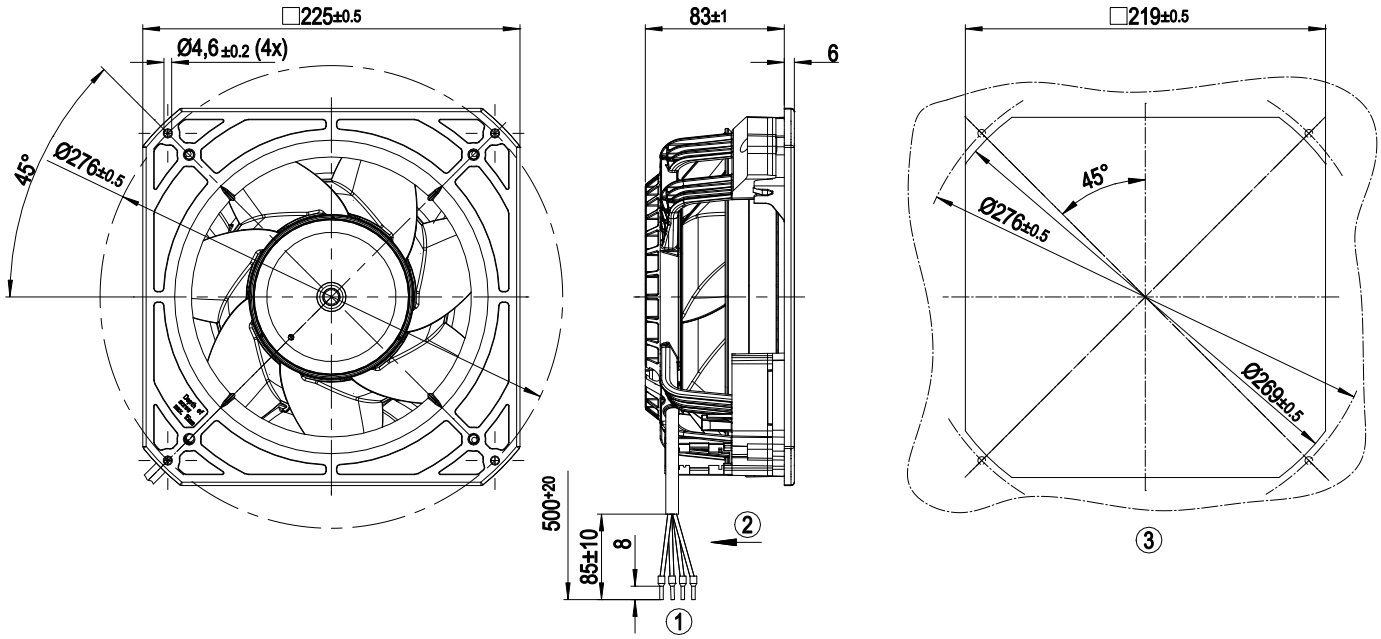
Product drawing



1	Connection line PVC AWG16, 4x crimped core-end sleeves
2	Direction of air flow "V"
3	Mounting dimensions

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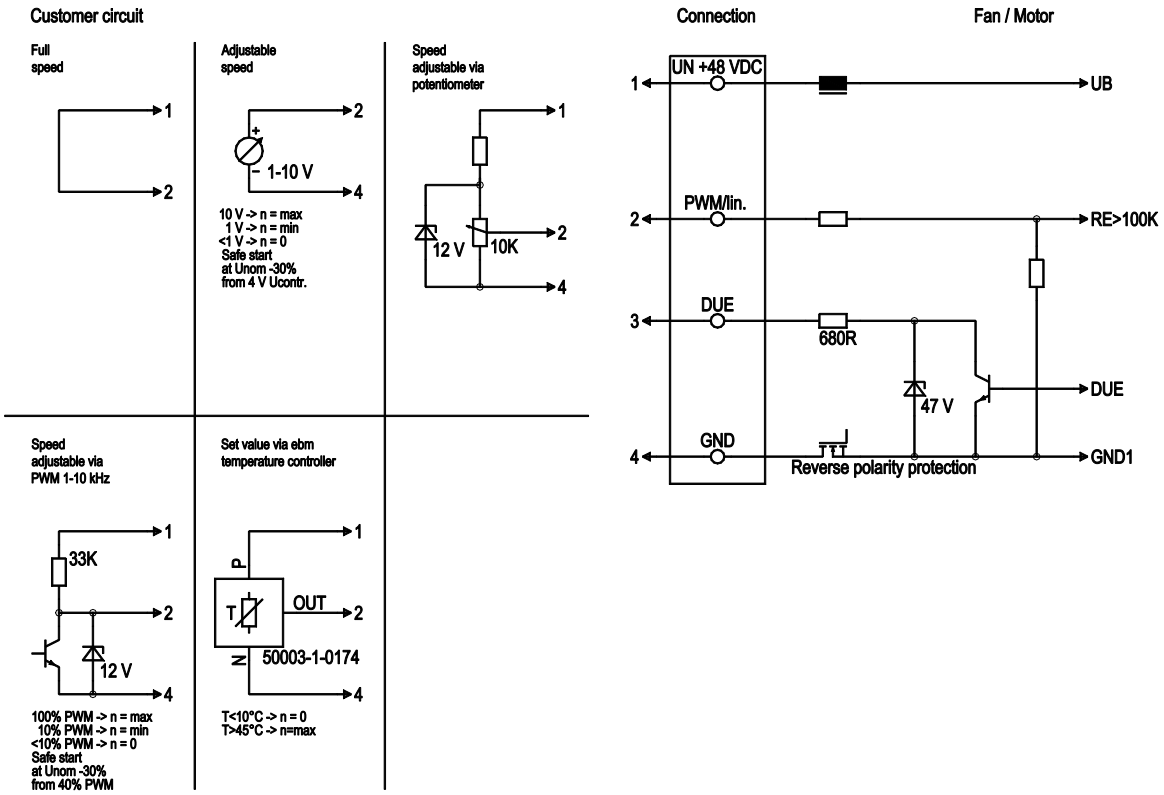
Connection screen



No.	Conn.	Designation	Colour	Function / assignment
	1	Un +48 VDC	red	Power supply 48 VDC, residual ripple 3.5 %
	2	0-10 VDC	yellow	Control input Re>100 K
	3	Tach	white	Speed monitoring output, 3 pulses per revolution, Isink max = 10 mA
	4	GND	blue	Reference mass

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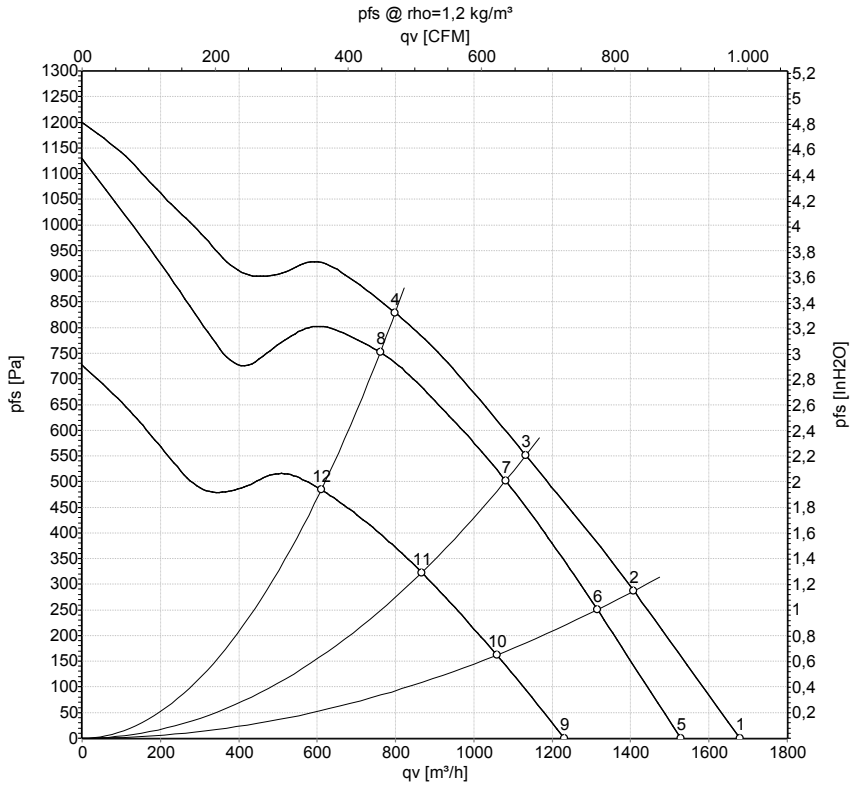
Charts: Air flow



Measurement: LU-134471-1
Measurement: LU-134469-1
Measurement: LU-134474-1

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	n	P_{ed}	I	LpA_{in}	LwA_{in}	q_V	p_{fs}	q_V	p_{fs}
	V	min^{-1}	W	A	dB(A)	dB(A)	m^3/h	Pa	cfm	inH2O
1	57	5550	410	7.20	79	87	1680	0	990	0.00
2	57	5360	413	7.25	77	84	1410	287	830	1.15
3	57	5235	418	7.34	75	83	1135	551	665	2.21
4	57	5260	414	7.27	76	84	800	829	470	3.33
5	48	5050	320	6.70	77	86	1530	0	900	0.00
6	48	5005	343	7.15	75	84	1315	250	775	1.00
7	48	4975	361	7.52	73	82	1080	500	635	2.01
8	48	5025	362	7.54	75	84	760	750	450	3.01
9	36	4065	171	4.75	72	80	1230	0	725	0.00
10	36	4035	183	5.10	69	78	1060	162	625	0.65
11	36	4000	193	5.36	68	76	865	323	510	1.30
12	36	4040	190	5.27	70	78	610	485	360	1.95

U = Supply voltage · 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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