

K3G200-BD64-04

EC diagonal module

backward curved, single inlet
with support bracket



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Nominal data

Type	K3G200-BD64-04	
Motor	M3G074-CF	
Nominal voltage	VDC	48
Nominal voltage range	VDC	36 .. 57
Type of data definition		fa
Speed	min ⁻¹	4875
Power input	W	275
Current draw	A	5.8
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

Data according to ErP directive

Installation category	A
Efficiency category	Static
Variable speed drive	Yes
Specific ratio*	1.01

* Specific ratio = $1 + p_{fs} / 100\,000\text{ Pa}$

		Actual	Request 2013	Request 2015
Overall efficiency η_{es}	%	49.3	31	34
Efficiency grade N		65.3	47	50
Power input P_e	kW	0.3		
Air flow q_v	m ³ /h	900		
Pressure increase p_{fs}	Pa	541		
Speed n	min ⁻¹	4760		

Data definition with optimum efficiency. LUJ-154774
The ErP data is determined using a motor-impeller combination in a standardised measurement configuration.



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Technical features

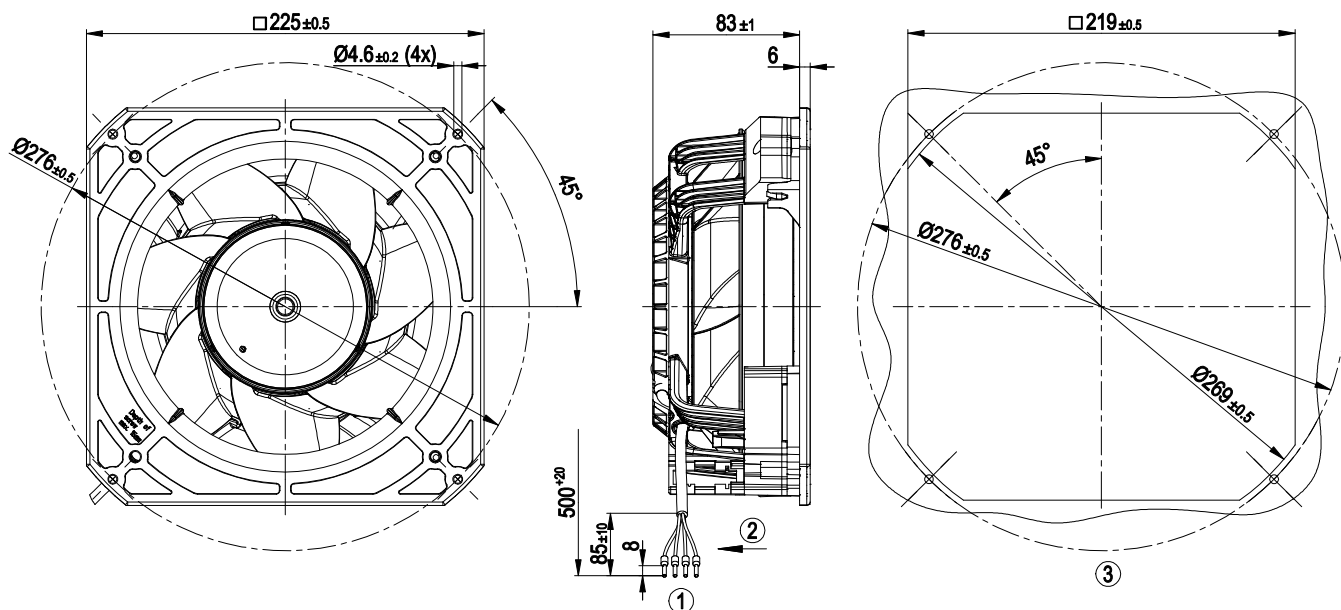
Mass	2.3 kg
Size	200 mm
Surface of rotor	Coated in black
Material of impeller	PA plastic
Housing material	PA plastic
Material of support bracket	PA plastic
Number of blades	7
Direction of air flow	"V"
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 44; Depending on installation and position
Insulation class	"B"
Humidity class	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 - Overvoltage detection
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	EAC; CCC



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Product drawing

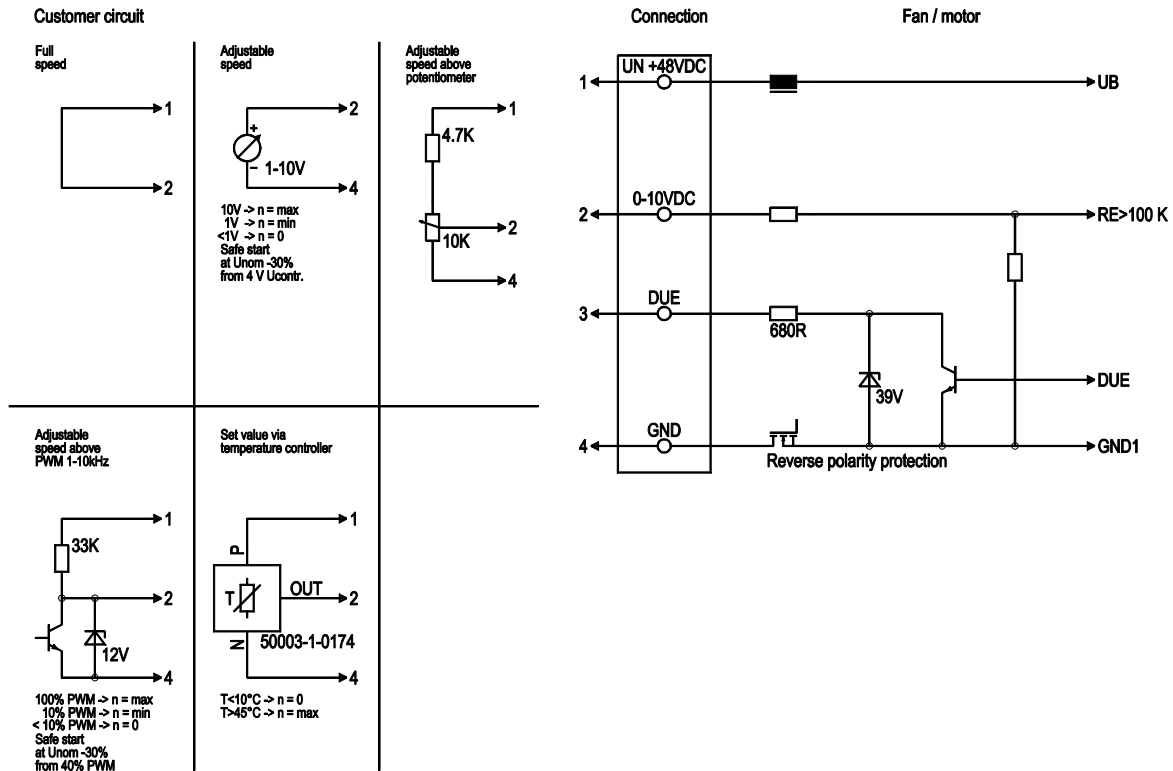


1	Connection line PVC AWG16, 4x crimped core-end sleeves
2	Direction of airflow "V"
3	Mounting dimensions

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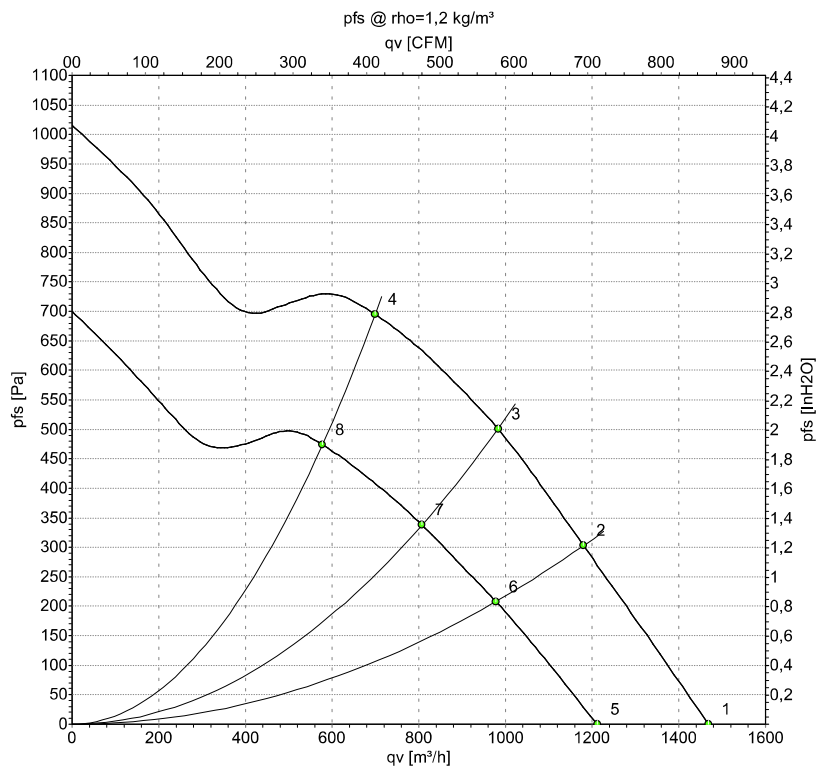
Connection screen



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



Charts: Air flow



Measurement: LU-154774
Measurement: LU-154777

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}	qv	p _{fs}
	V	min ⁻¹	W	A	dB(A)	dB(A)	m³/h	Pa
1	48-57	4890	280	5.9*	77	85	1470	0
2	48-57	4795	300	6.27*	74	81	1180	300
3	48-57	4755	307	6.41*	73	80	985	500
4	48-57	4780	304	6.35*	75	82	700	700
5	36	4055	158	4.40	72	80	1210	0
6	36	3970	170	4.73	69	77	980	208
7	36	3945	174	4.84	68	76	805	339
8	36	3960	171	4.77	70	78	575	475

U = Supply voltage · n = Speed · P_{ed} = Power input · I = Current draw · * = Current measured at rated voltage · LpA_{in} = Sound pressure level inlet side · LwA_{in} = Sound power level inlet side
qv = Air flow · p_{fs} = Pressure increase

