

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 <sup>-1</sup>	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 =  $1 + p_b / 100\,000\text{ Pa}$

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

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



K3G200-BD64-04

## EC diagonal module

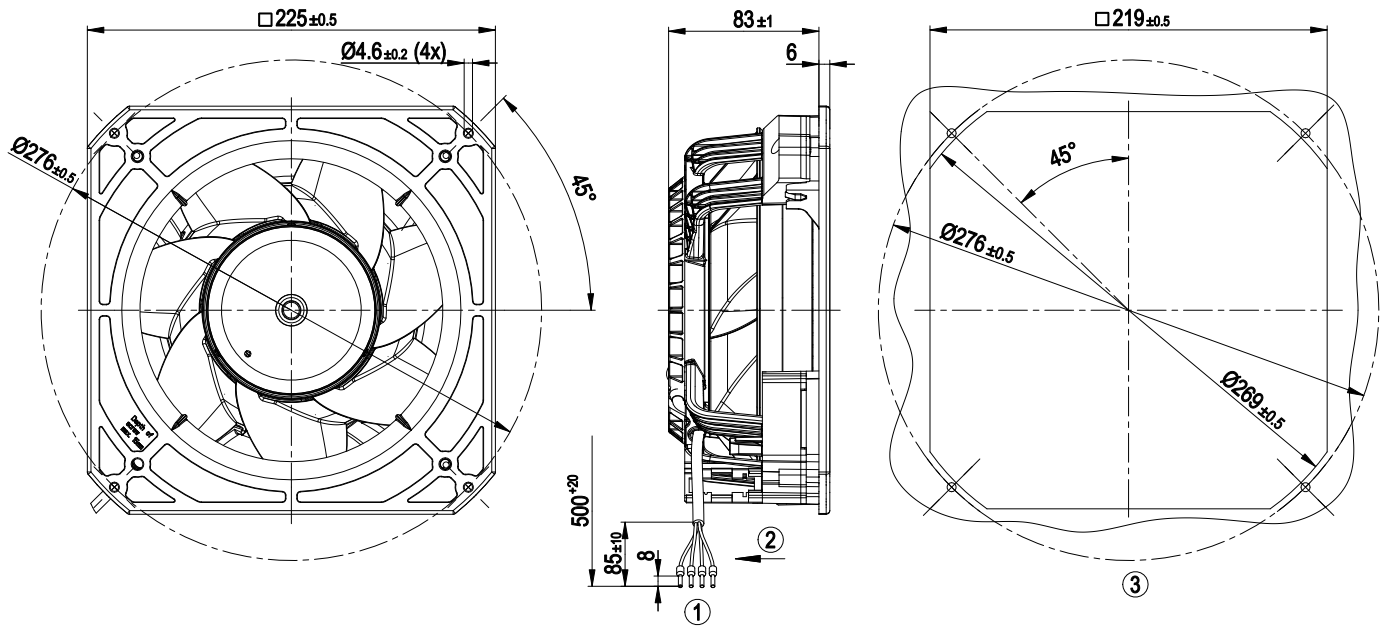
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### Technical features

<b>Mass</b>	2.3 kg
<b>Size</b>	200 mm
<b>Surface of rotor</b>	Coated in black
<b>Material of impeller</b>	PA plastic
<b>Housing material</b>	PA plastic
<b>Material of support bracket</b>	PA plastic
<b>Number of blades</b>	7
<b>Direction of air flow</b>	"V"
<b>Direction of rotation</b>	Clockwise, seen on rotor
<b>Type of protection</b>	IP 44; Depending on installation and position
<b>Insulation class</b>	"B"
<b>Humidity class</b>	F2-1
<b>Max. permissible ambient motor temp. (transp./ storage)</b>	+ 80 °C
<b>Min. permissible ambient motor temp. (transp./storage)</b>	- 40 °C
<b>Mounting position</b>	Any
<b>Condensate discharge holes</b>	None
<b>Operation mode</b>	S1
<b>Motor bearing</b>	Ball bearing
<b>Technical features</b>	<ul style="list-style-type: none"><li>- Tach output</li><li>- Motor current limit</li><li>- Soft start</li><li>- Control input 0-10 VDC / PWM</li><li>- Overvoltage detection</li></ul>
<b>EMC interference immunity</b>	Acc. to EN 61000-6-2 (industrial environment)
<b>EMC interference emission</b>	Acc. to EN 55022 (Class B, household environment)
<b>Motor protection</b>	Reverse polarity and locked-rotor protection
<b>Cable exit</b>	Lateral
<b>Product conforming to standard</b>	EN 60335-1
<b>Approval</b>	EAC; CCC



## Product drawing

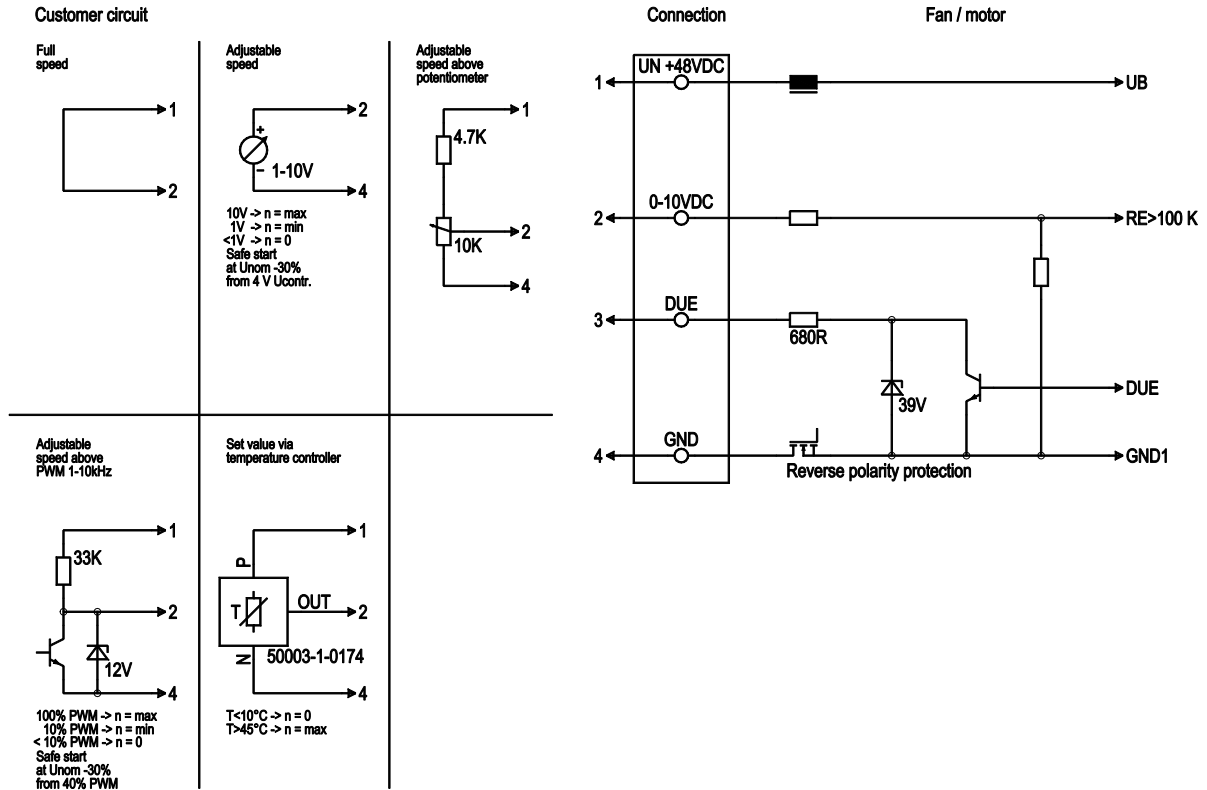


1	Connection line PVC AWG16, 4x crimped core-end sleeves
2	Direction of airflow "V"
3	Mounting dimensions

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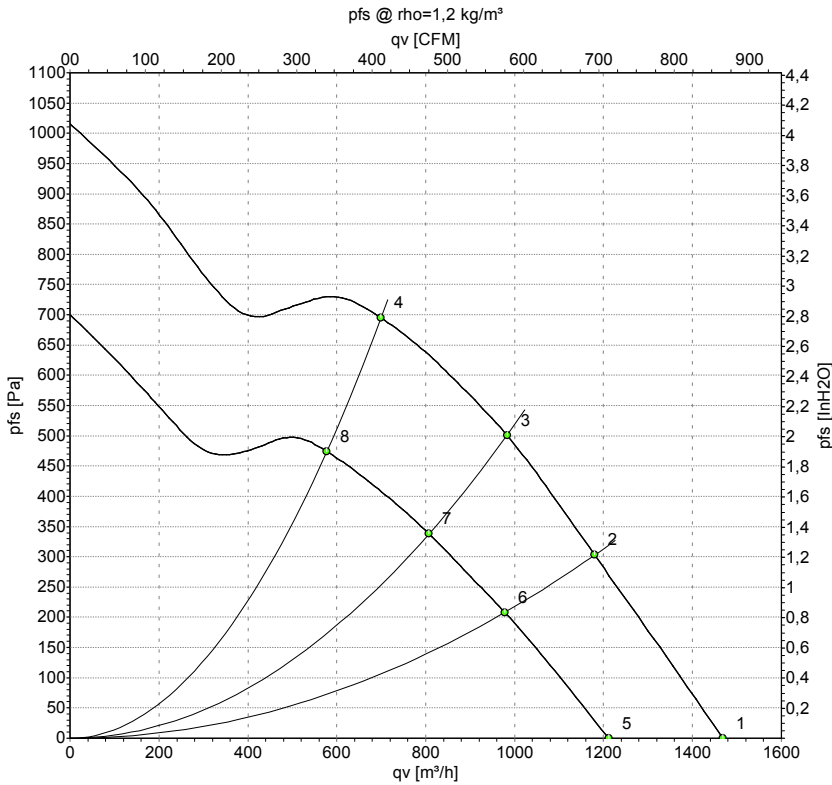
## Connection screen



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 $R_e > 100\text{ K}$
	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 <sub>ed</sub>	I	LpA <sub>in</sub>	LwA <sub>in</sub>	qv	p <sub>fs</sub>
	V	min <sup>-1</sup>	W	A	dB(A)	dB(A)	m <sup>3</sup> /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<sub>ed</sub> = Power input · I = Current draw · \* = Current measured at rated voltage · LpA<sub>in</sub> = Sound pressure level inlet side · LwA<sub>in</sub> = Sound power level inlet side  
qv = Air flow · p<sub>fs</sub> = Pressure increase

