K3G200-BD44-02

EC diagonal module

backward curved, single inlet

with support bracket

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ErP2015 EXCEEDS THE NORM

Nominal data

Type	**K3G200-BD44-02**	
Motor	**M3G074-CF**	
Nominal voltage	VDC	24
Nominal voltage range	VDC	16 .. 28
Type of data definition		fa
State		prelim.
Speed	min^{-1}	4830
Power input	W	275
Current draw	A	11.5
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 Pa

		Actual	Request 2013	Request 2015
Overall efficiency η_{es}	%	47.8	30.9	33.9
Efficiency grade N		63.9	47	50
Power input P_e	kW	0.29		
Air flow q_v	m^3/h	805		
Pressure increase p_{fs}	Pa	572		
Speed n	min^{-1}	4690		

Data definition with optimum efficiency. LU-154760
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 20; Depending on installation and position
Insulation class	"B"
Humidity class	F0
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
Cooling bore / aperture	Rotor-side
Operation mode	S1
Motor bearing	Ball bearing
Technical features	- Tach output - Motor current limit - Soft start - Control input 0-10 VDC / PWM - Overvoltage detection
Motor protection	Reverse polarity and locked-rotor protection
Cable exit	Lateral
Product conforming to standard	EN 60335-1
Approval	EAC

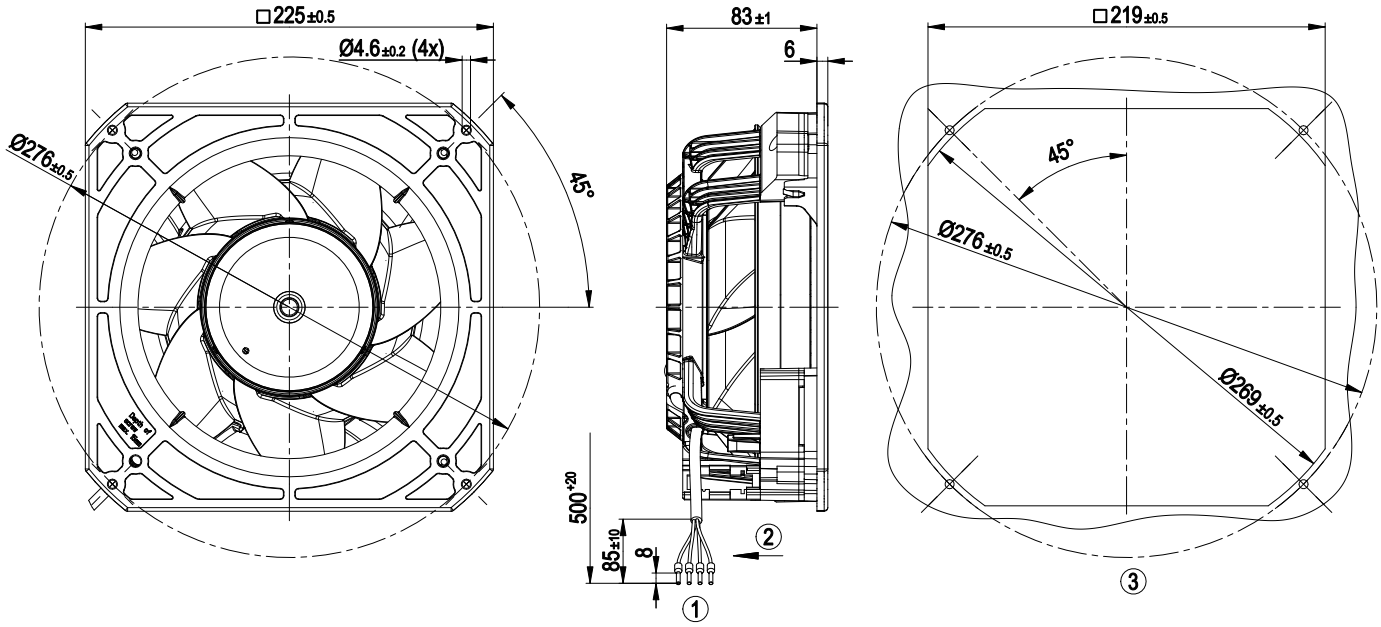
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Product drawing



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

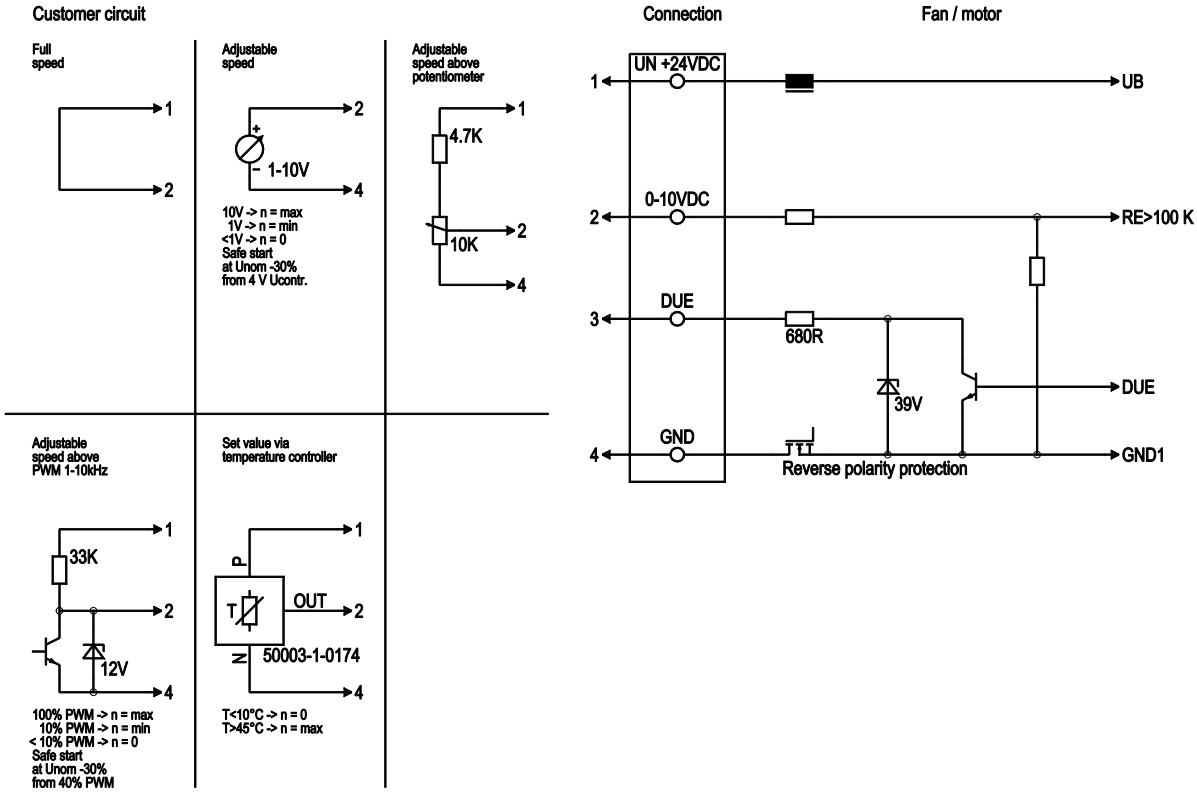
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Connection screen



No.	Conn.	Designation	Colour	Function / assignment
	1	Un +24 VDC	red	Power supply 24 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

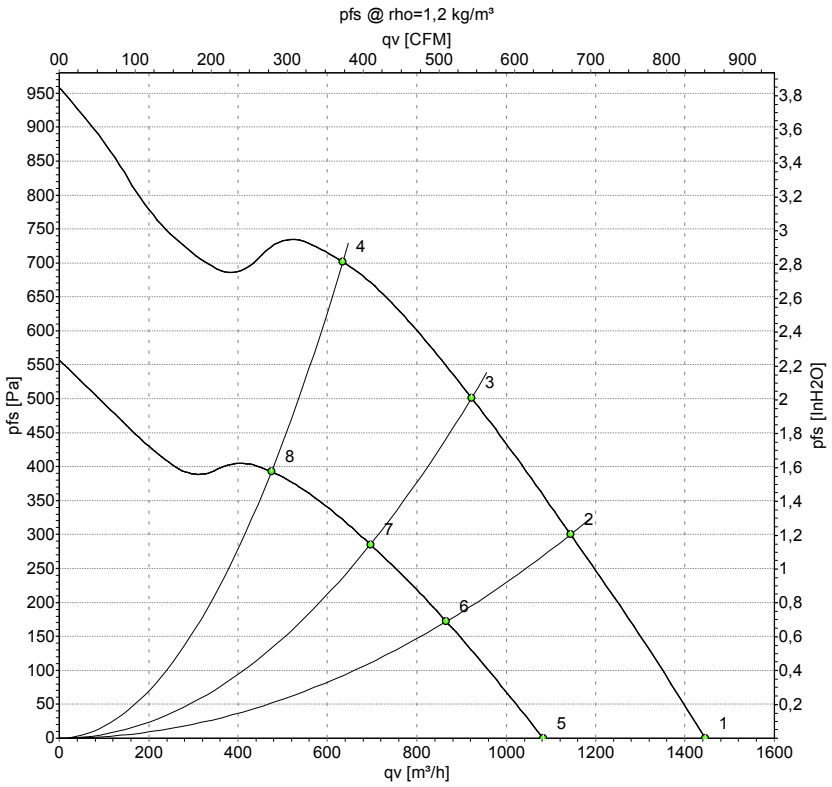
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Charts: Air flow



Measurement: LU-154760
Measurement: LU-154763

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)	m^3/h	Pa
1	24-28	4830	275	11.5*	77	84	1445	0
2	24-28	4720	294	12.24*	73	81	1145	300
3	24-28	4685	299	12.48*	73	80	925	500
4	24-28	4715	295	12.30*	75	83	635	700
5	16	3650	118	7.35	70	77	1085	0
6	16	3575	126	7.89	66	74	865	172
7	16	3550	129	8.05	66	73	695	286
8	16	3565	127	7.94	68	76	475	393

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

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