

K1G200-AD65-04

EC diagonal module

single inlet
with support bracket



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Nominal data

Type	K1G200-AD65-04	
Motor	M1G074-BF	
Nominal voltage	VDC	24
Nominal voltage range	VDC	16 .. 28
Type of data definition		fa
State		prelim.
Speed	min ⁻¹	3400
Power input	W	95
Current draw	A	4.7
Max. back pressure	Pa	355
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



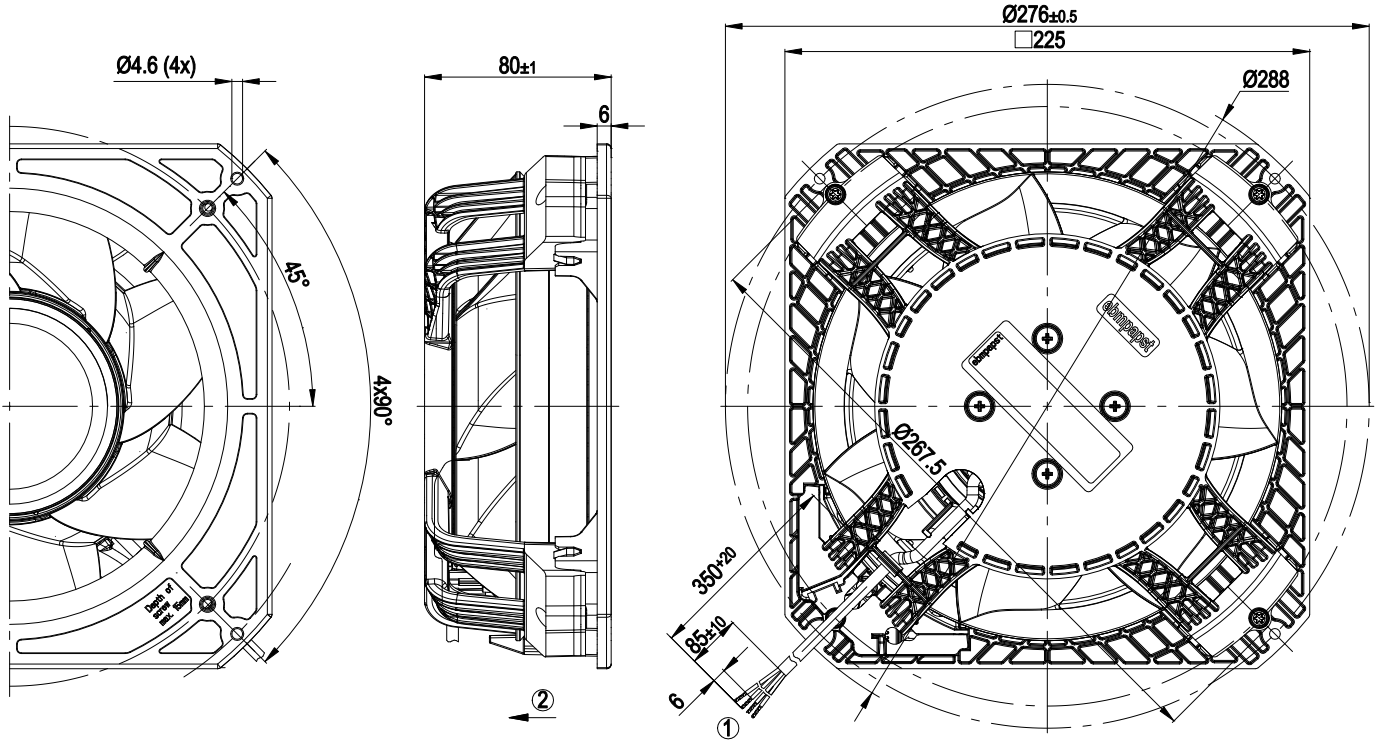
Technical features

Mass	1.8 kg
Size	200 mm
Surface of rotor	Coated in black
Material of impeller	Plastic PA6, fibreglass-reinforced
Housing material	Plastic PA6, fibreglass-reinforced
Material of support bracket	Plastic PA6, fibreglass-reinforced
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	F4-1
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
EMC interference immunity	Acc. to EN 61000-6-2 (industrial environment)
EMC interference emission	Acc. to EN 55022 (Class B)
Motor protection	Reverse polarity and locked-rotor protection
Cable exit	Lateral
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1
Approval	UL 1004-1; CSA C22.2 Nr.77

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Product drawing



- | | |
|---|---|
| 1 | Connection line AWG20, 4x brass lead tips crimped |
| 2 | Direction of air flow "V" |

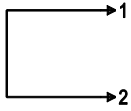
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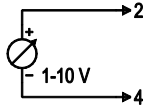
Connection screen

Customer circuit

Full speed

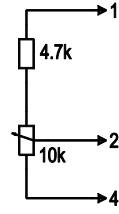


Adjustable speed

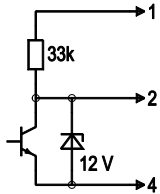


10 V → n = max
1 V → n = min
<1 V → n = 0
Safe start at
Unom -30%
from 4 V Ucontr.

Speed adjustable via potentiometer

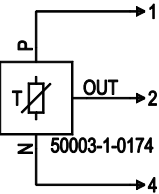


Speed adjustable via PWM 1-10 kHz



100% PWM → n = max
10% PWM → n = min
<10% PWM → n = 0
Safe start at
Unom -30%
from 40% PWM

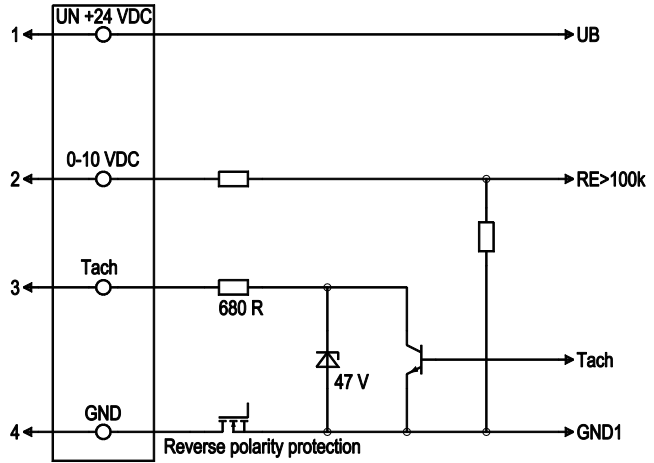
Preset target value via temperature controller



T < 10 °C → n = 0
T > 45 °C → n = max

Connection

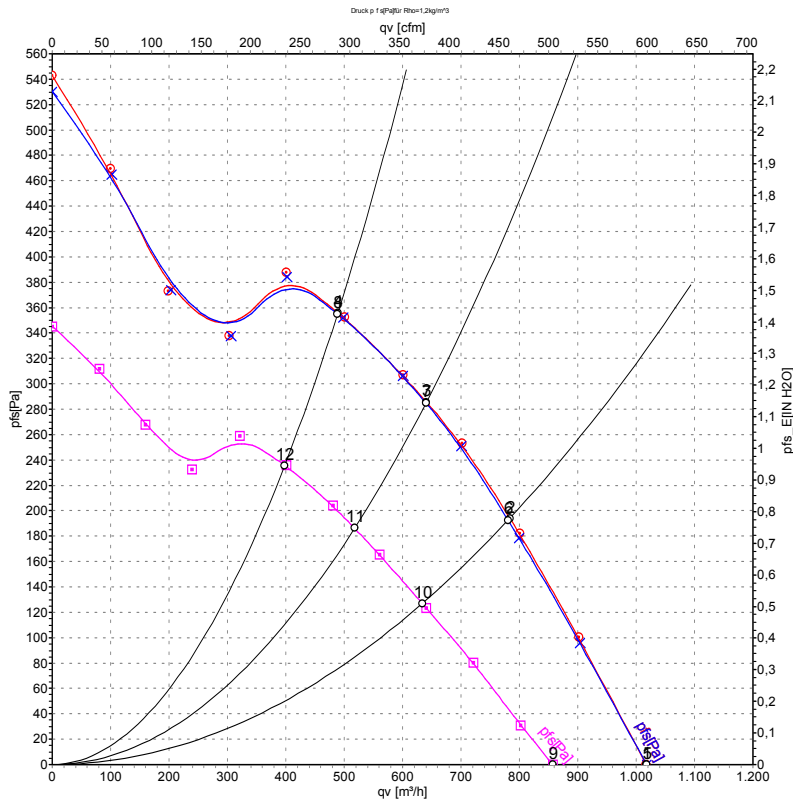
Fan/Motor



No.	Conn.	Designation	Colour	Function / assignment
1	1	Un +24 VDC	red	Power supply 24 VDC, residual ripple 3.5 %
1	2	0-10 VDC	yellow	Control input Re > 100 K
1	3	Tach	white	Speed monitoring output, 3 pulses per revolution, Isink max = 10 mA
1	4	GND	blue	Reference mass



Charts: Air flow



Measurement: LU-127839
Measurement: LU-127837
Measurement: LU-127838

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	28	3400	95	4.55	68	76	1015	0
2	28	3410	116	5.29	66	74	785	195
3	28	3405	120	5.41	66	74	640	286
4	28	3410	116	5.28	68	76	490	355
5	24	3400	95	4.70	68	76	1020	0
6	24	3410	116	5.61	66	74	780	193
7	24	3410	119	5.75	66	74	640	285
8	24	3410	117	5.62	68	76	490	355
9	16	2880	60	4.19	64	72	855	0
10	16	2785	64	4.46	62	70	635	127
11	16	2765	64	4.49	62	70	520	186
12	16	2780	64	4.43	63	71	400	237

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

