

K3G097-BF24-21

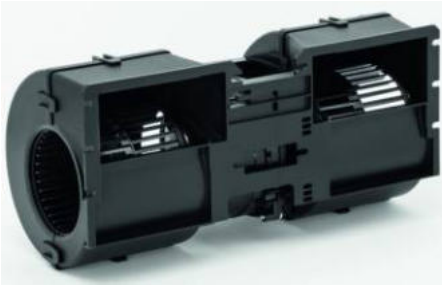
Konvekta AG

H11-003-210

EC dual centrifugal fan

forward curved, dual inlet

with housing, Automotive



K3G097-BF24-21 ebmpapst Datasheet

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Limited partnership · Headquarters Muldingen
County court Stuttgart · HRA 590344

General partner Elektrobau Muldingen GmbH · Headquarters Muldingen
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Nominal data

Type	K3G097-BF24-21	
Motor	M3G084-BF	
Nominal voltage	VDC	26
Nominal voltage range	VDC	16 .. 32
Type of data definition		fa
Speed (rpm)	min ⁻¹	3900
Power input	W	350
Current draw	A	13.5
Min. back pressure	Pa	0
Min. ambient temperature	°C	-40
Max. ambient temperature	°C	85

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



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Technical features

Mass	2 kg
Size	97 mm
Material of impeller	PA plastic
Housing material	PP plastic
Number of blades	34
Balance quality according to DIN ISO 1940-1	G 2.5
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 24 KM
Insulation class	"B"
Humidity (F)/environmental protection class (H)	H1
Max. permissible ambient motor temp. (transp./ storage)	+85 °C
Min. permissible ambient motor temp. (transp./storage)	-40 °C
Mounting position	Any
Condensate discharge holes	None, open rotor
Operation mode	S1
Motor bearing	Ball bearing; (sealed)
Life expectancies	40,000 h (typical)
Technical features	<ul style="list-style-type: none">- Lowering input- Fault output (high-side switch max. 30 mA)- INVLIN (control input, inverse linear)- Output limit- Load dump (58 V)- Motor current limit- Soft start- Control input 0-10 VDC / PWM- Temperature derating- Overvoltage detection- Over-temperature protected electronics- Line undervoltage detection
EMC directives	As per ECE R10 Rev. 5
Electrical leads	With plug; Standby current less than 500 µA
Motor protection	Reverse polarity and locked-rotor protection
Approval	E1
Noise level	81 dB(A), sound power level as per ISO 13347
Remark	Type approval number – 057861



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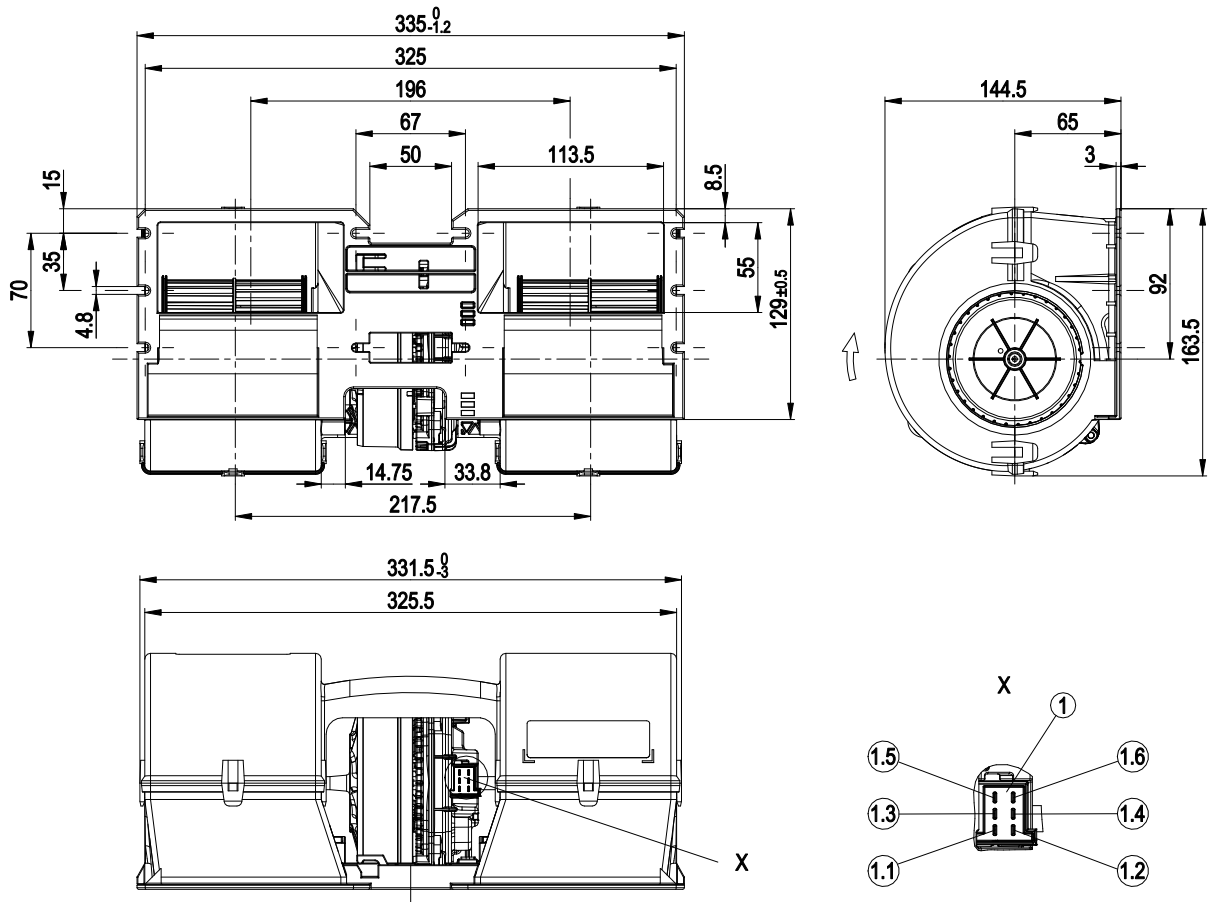
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Product drawing



1	Strip 6-pole, mating connector tyco 929504-2 (not included in scope of delivery)
1.1	+ UB (black)
1.2	GND (brown)
1.3	PWM/LIN (yellow)
1.4	INVLIN (orange)
1.5	ABSENK (blue)
1.6	Diagnostic output (white)

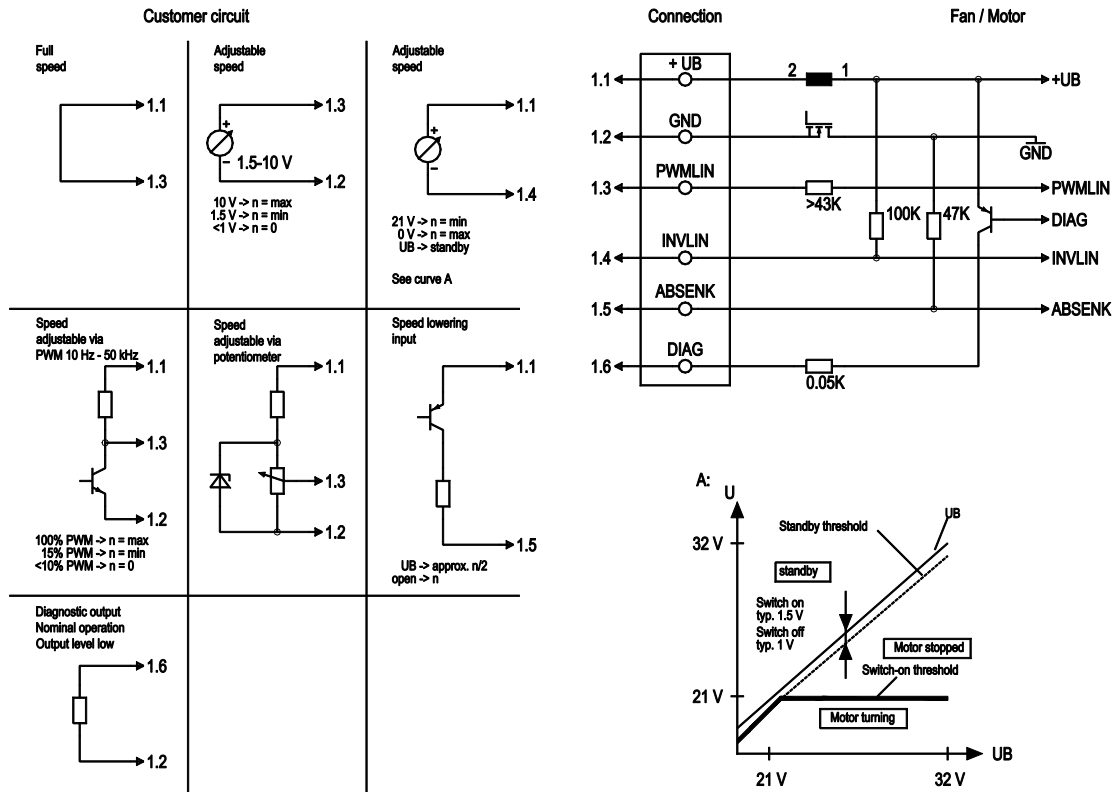


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Connection screen



No.	Conn.	Designation	Function / assignment
	1.1	+UB	Power supply
	1.2	GND	Power supply GND, reference earth
	1.3	PWMLIN	Analogue voltage control input 0-10 V or PWM
	1.4	INVLIN	Control input, inverse linear
	1.5	ABSENK	Lowering input
	1.6	DIAG	Diagnostic output



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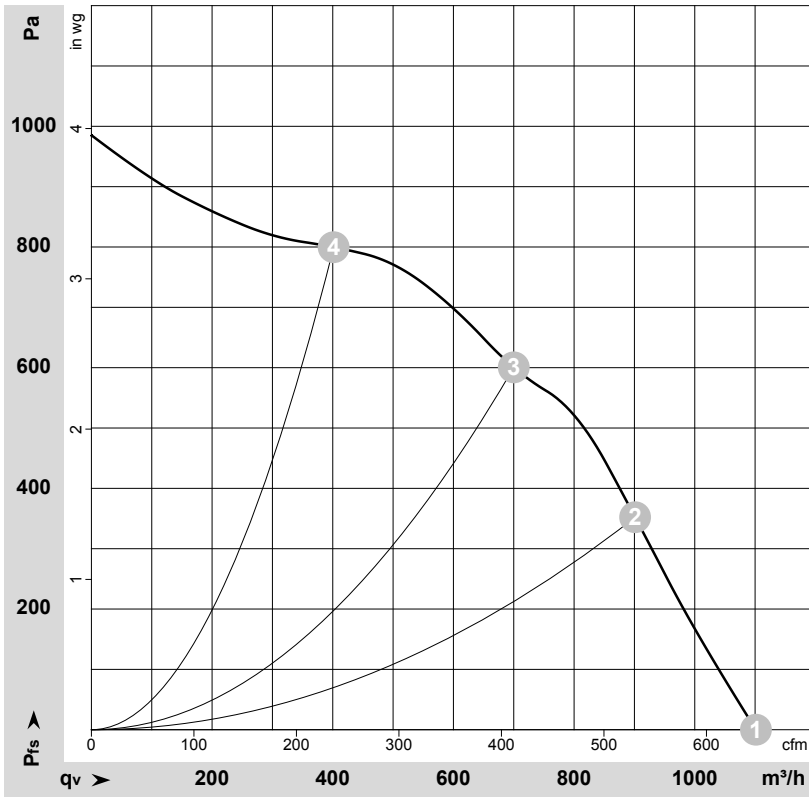
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Charts: Air flow



$\rho = 1.15 \text{ kg/m}^3 \pm 2 \%$

Measurement: LU-176702-1

Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebmpapst. 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	26	3900	350	13.50	70	81	1100	0	650	0.00
2	26	4380	325	12.52	69	80	900	350	530	1.41
3	26	4890	300	11.54	69	80	700	600	410	2.41
4	26	5465	234	9.02	71	82	400	800	235	3.21

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

