K3G097-AK26-99

EC dual centrifugal fan

forward-curved, with brushless DC motor

with housing, Automotive



ebm-papst Mulfingen GmbH & Co. KG
Bachmühle 2 · D-74673 Mulfingen
Phone +49 7938 81-0
Fax +49 7938 81-110
info1@de.ebmpapst.com
www.ebmpapst.com

Limited partnership · Headquarters Mulfingen
Amtsgericht (court of registration) Stuttgart · HRA 590344

General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen
Amtsgericht (court of registration) Stuttgart · HRB 590142

Nominal data

Type	**K3G097-AK26-99**	
Motor	**M3G074-CF**	
Nominal voltage	VDC	27.5
Nominal voltage range	VDC	15 .. 31
Method of obtaining data		fa
Speed (rpm)	min^{-1}	3740
Power consumption	W	380
Current draw	A	13.8
Min. ambient temperature	°C	-40
Max. ambient temperature	°C	70

ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment
Subject to change

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Technical description

Weight	2.3 kg
Fan size	97 mm
Impeller material	PA plastic
Housing material	PP plastic
Number of blades	34
Balancing grade according to DIN ISO 1940-1	G 2.5
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP24 KM
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	F5
Max. permitted ambient temp. for motor (transport/storage)	+85 °C
Min. permitted ambient temp. for motor (transport/storage)	-40 °C
Installation position	Any
Condensation drainage holes	None, open rotor
Cooling hole/opening	On rotor side
Mode	S1
Motor bearing	Ball bearing; (sealed)
Life expectancy	40,000 h (typical)
Technical features	- Start at 85°C (2 min permissible) - Load dump protection - Motor current limitation - Soft start - Control input 0-5 VDC - Standstill in the case of open circuit - Overvoltage detection - Thermal overload protection for electronics - Undervoltage detection
EMC regulations	According to ECE R10 Rev. 3
Electrical hookup	With plug; Standby current less than 500 µA
With cable	Variable
Approval	E1
Sound level	76 dB(A), sound power level according to ISO 13347
Comment	Type approval number – 036432

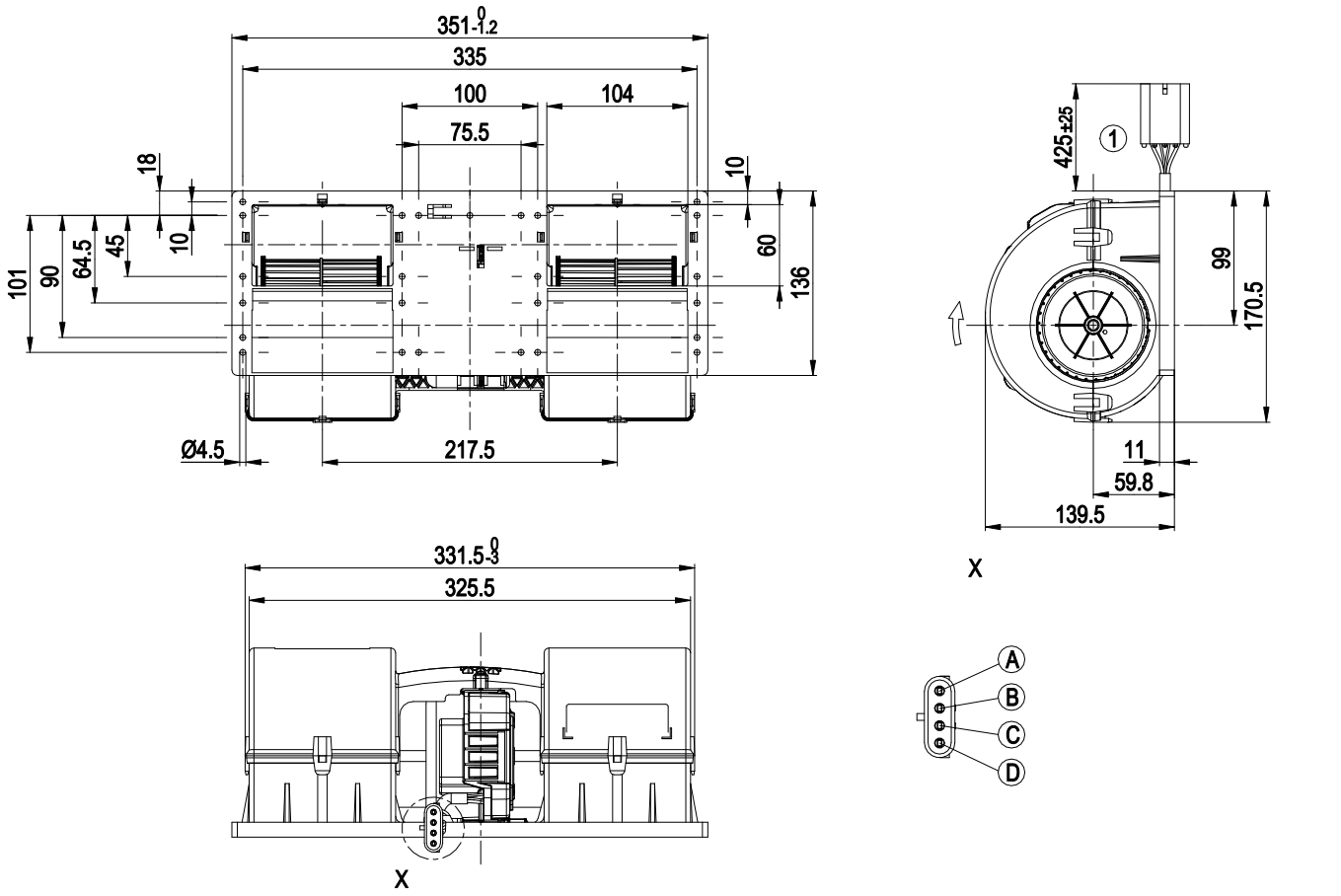
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Product drawing



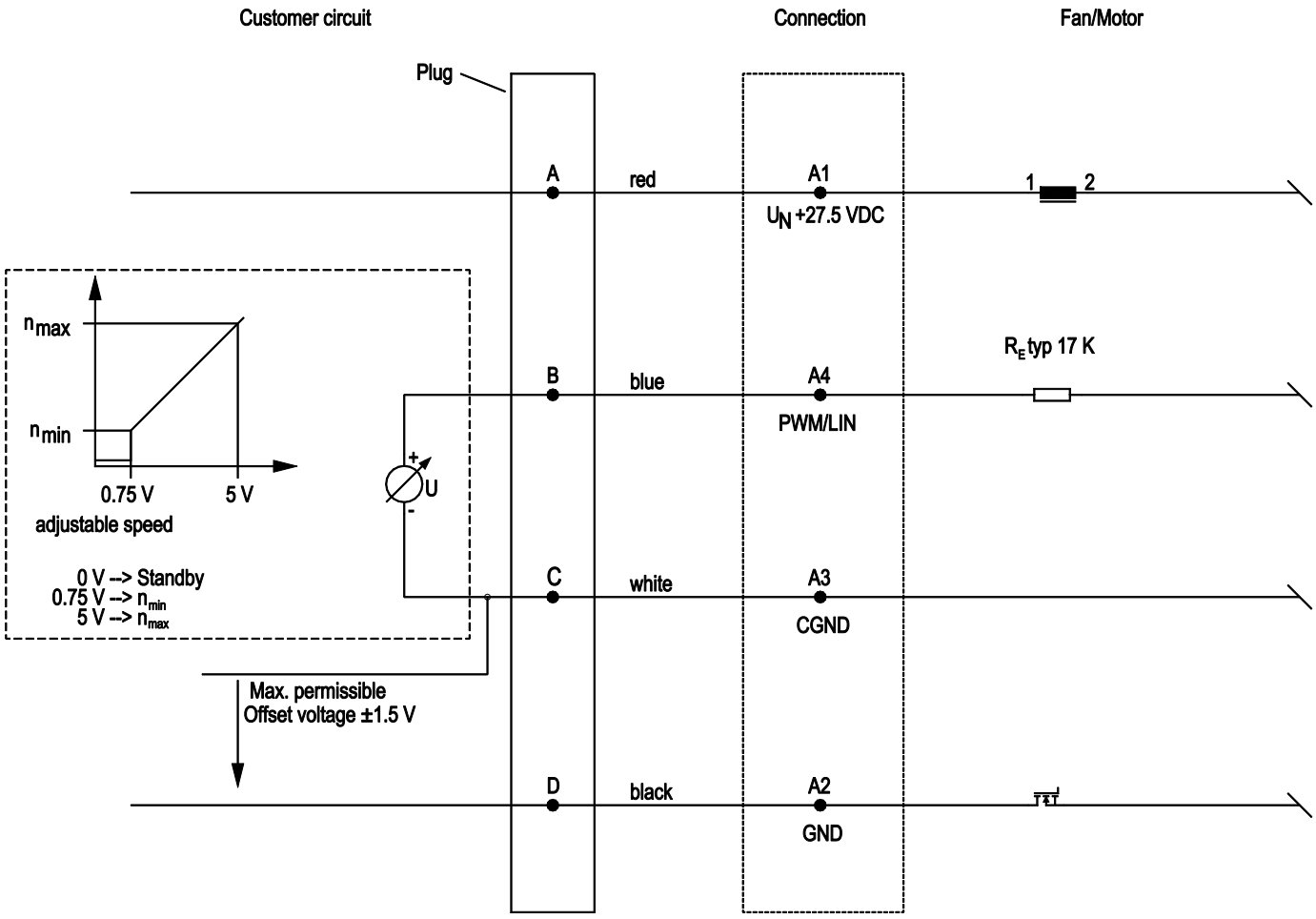
1	Cable Raychem Spec. 44, AWG24, 4-pole connector housing Packard 12010974
A	+ (red)
B	PWM/LIN (blue)
C	CGND (white)
D	GND (black)

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Connection diagram



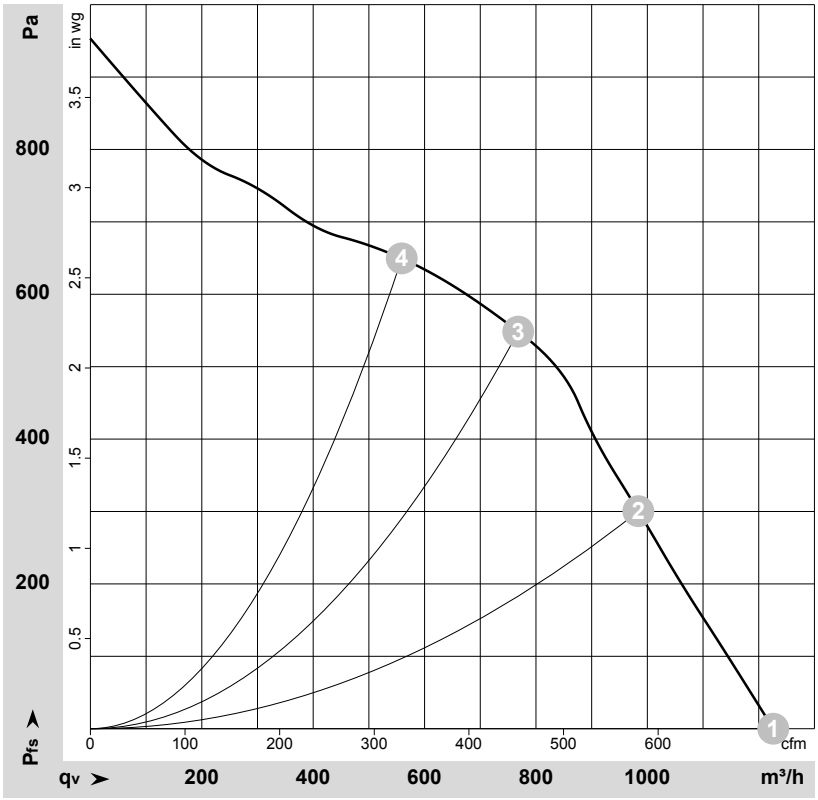
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Curves: Air performance



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-63835-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters have to be checked on the installed unit.

Measured values

	U	n	P_{ed}	I	q_V	p_{fs}	q_V	p_{fs}
	V	min^{-1}	W	A	m^3/h	Pa	cfm	inH2O
1	27.5	3740	380	13.80	1225	0	720	0.00
2	27.5	4145	331	12.01	985	300	580	1.20
3	27.5	4685	313	11.39	770	550	450	2.21
4	27.5	4895	252	9.16	560	650	330	2.61

U = Power supply · n = Speed (rpm) · P_{ed} = Power consumption · I = Current draw · q_V = Air flow · p_{fs} = Pressure increase

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