K3G097-AK36-55

EC dual centrifugal fan

forward curved, dual inlet

with housing, Automotive



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ErP2015 EXCEEDS THE NORM

Nominal data

Type	**K3G097-AK36-55**	
Motor	**M3G074-CF**	
Nominal voltage	VDC	13
Nominal voltage range	VDC	9 .. 15
Type of data definition		ml
Speed	min^{-1}	3570
Power input	W	335
Min. ambient temperature	°C	-40
Max. ambient temperature	°C	70

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 2015
Overall efficiency η_{es}	%	44.7	34.1
Efficiency grade N		54.6	44
Power input P_e	kW	0.27	
Air flow q_v	m^3/h	600	
Pressure increase p_{fs}	Pa	644	
Speed n	min^{-1}	4920	

Data definition with optimum efficiency. LU-68238
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	97 mm
Material of impeller	Plastic, PA UL94 HB (black)
Housing material	Plastic, PP (black)
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 class	F3-2
Max. permissible ambient motor temp. (transp./ storage)	+70 °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	- Tach output - Output limit -Load dump protection - Motor current limit - Soft start - Control input 0-10 VDC / PWM - Over-temperature protected electronics
Electrical leads	Standby current less than 500 µA
Motor protection	Reverse polarity and locked-rotor protection
Cable exit	Variable
Approval	EAC
Noise level	76 dB(A), sound power level according to ISO 13347

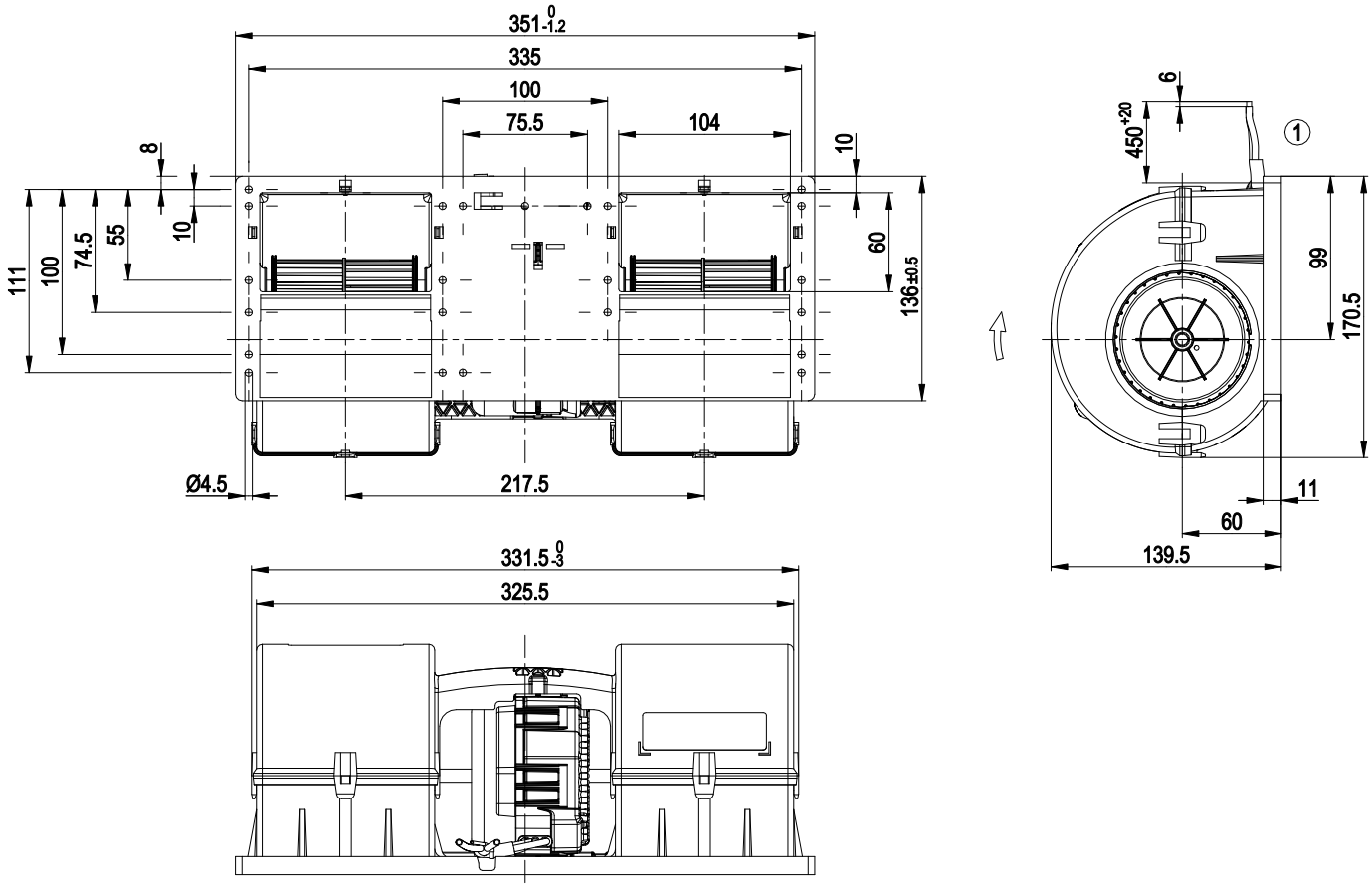
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Product drawing



1	Connection line FLRY 2x 4.0 mm², FLRY 1x 0.75 mm², 3x lead tips stripped and tin-plated
	+ UB (black)
	PWM/LIN (yellow)
	GND (brown)

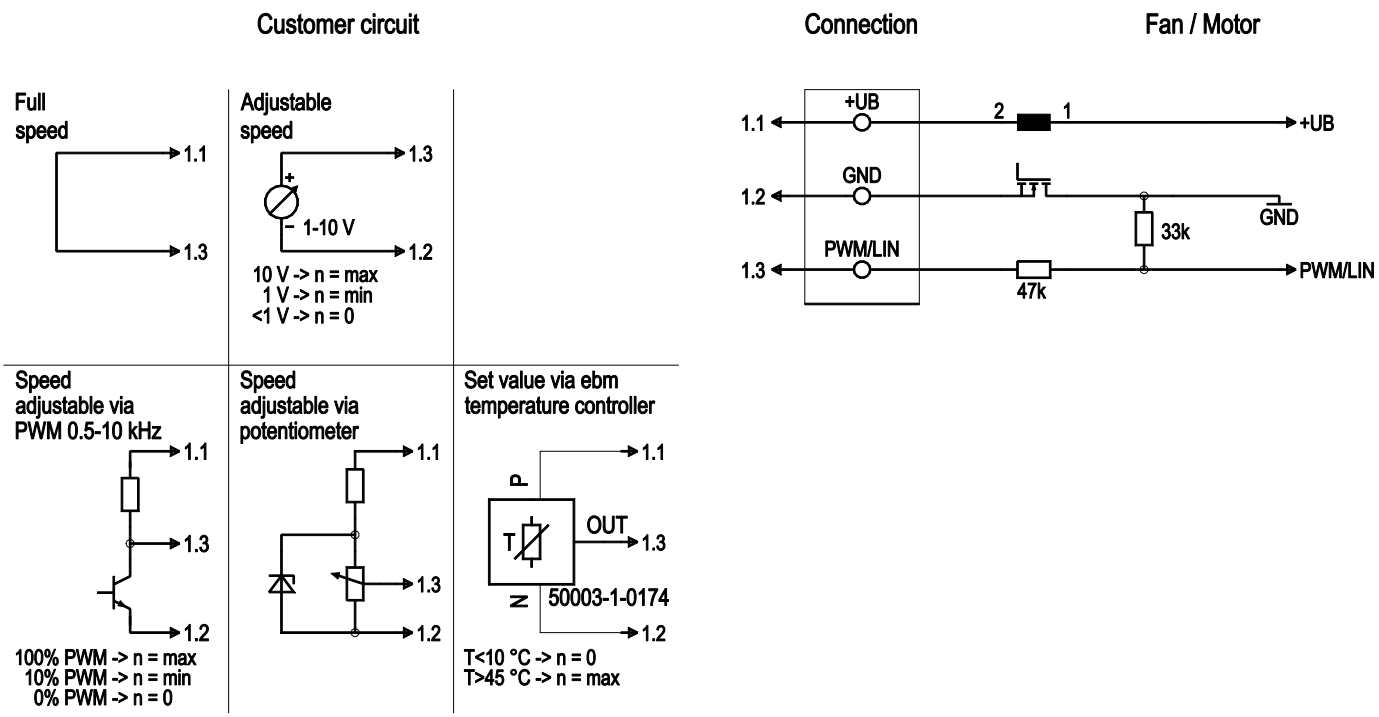
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Connection screen



No.	Conn.	Designation	Colour	Function / assignment
	1.1	+UB		Power supply
	1.2	GND		Power supply GND, reference earth
	1.3	PWM/LIN		Control input Re>100k

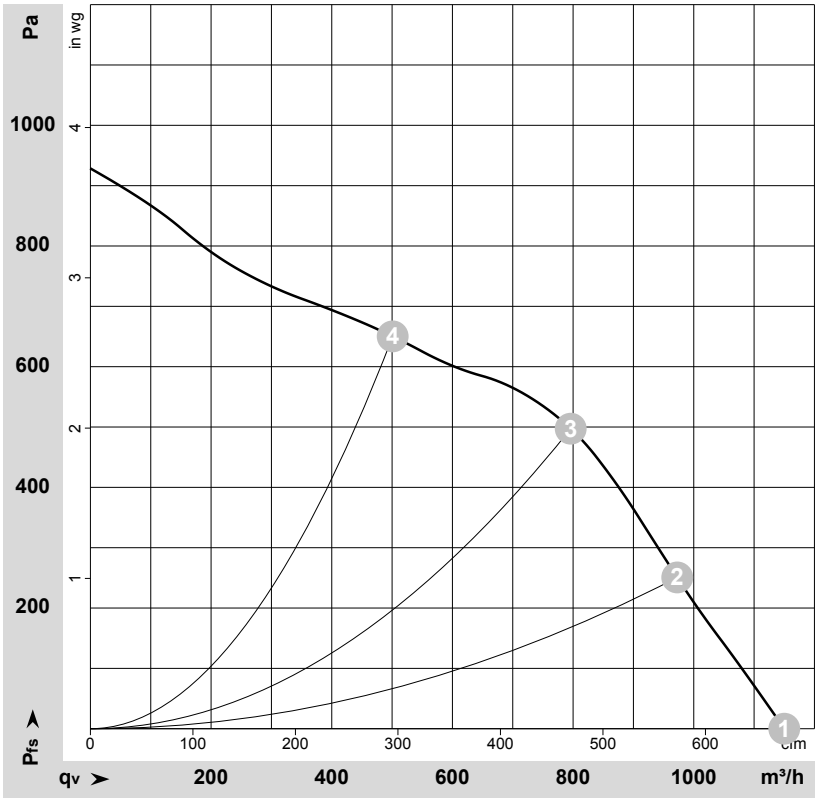
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Charts: Air flow



ρ = 1,15 kg/m³ ± 2%

Measurement: LU-121049

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	qv	p_{fs}
	V	min^{-1}	W	A	m^3/h	Pa
1	13	3570	335	25.70	1150	0
2	13	3970	308	23.56	975	250
3	13	4405	304	23.20	795	500
4	13	4820	251	19.36	500	650

U = Supply voltage · n = Speed · P_{ed} = Power input · I = Current draw · qv = Air flow · p_{fs} = Pressure increase

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