K3G097-AK36-56

EC dual centrifugal fan

forward-curved, dual-intake

with housing, Automotive



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Nominal data

Type	**K3G097-AK36-56**	
Motor	**M3G074-CF**	
Nominal voltage	VDC	13
Nominal voltage range	VDC	9 .. 15
Method of obtaining data		fa
Speed (rpm)	min^{-1}	3570
Power consumption	W	335
Current draw	A	25.7
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	F3-2
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	- Tach output - Power limiter - Load dump protection - Motor current limitation - Soft start - Control input 0-10 VDC / PWM - Thermal overload protection for electronics
Electrical hookup	Standby current less than 500 µA
Motor protection	Reverse polarity and locked-rotor protection
With cable	Variable

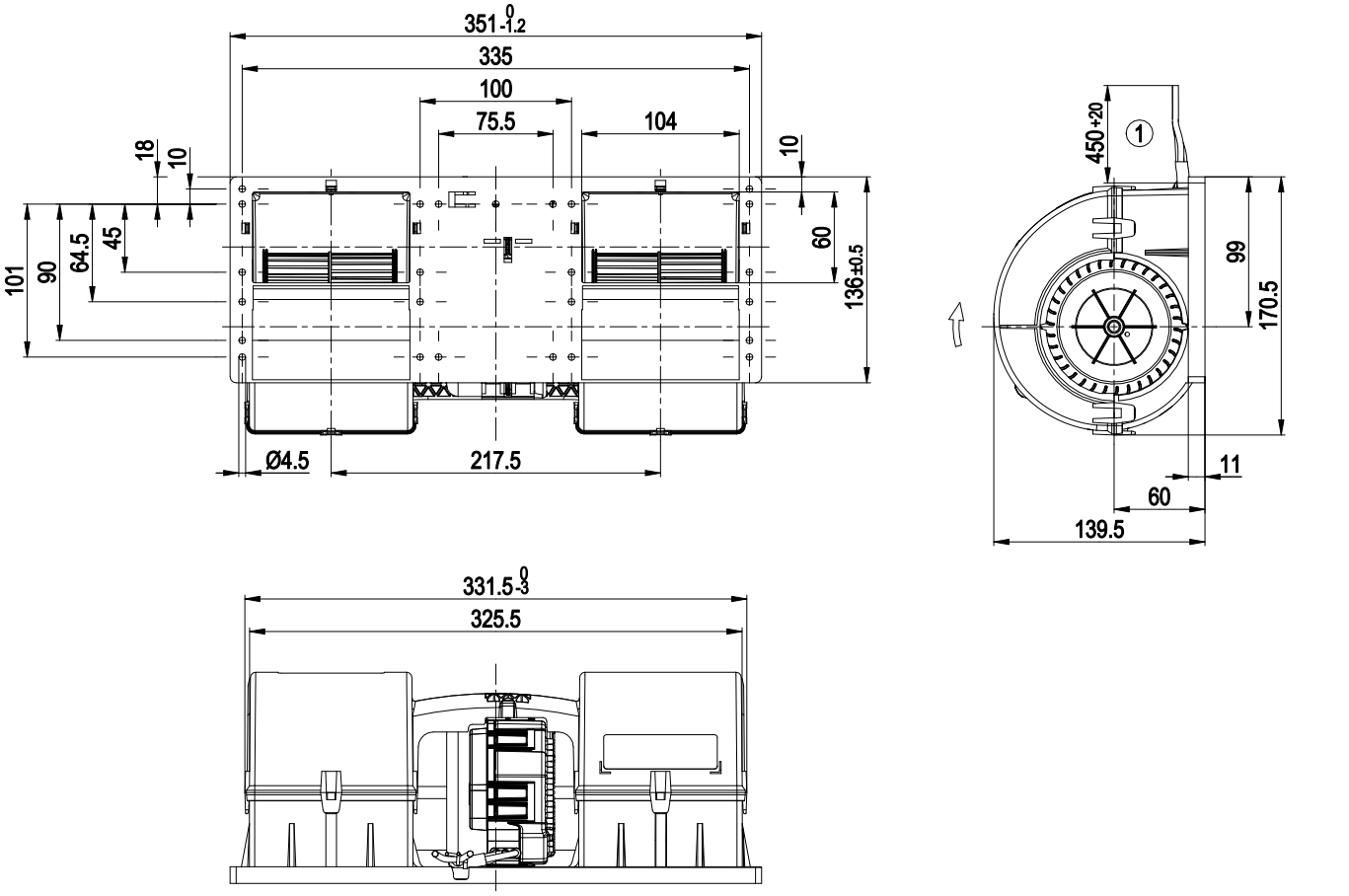
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Product drawing



1	Cable PVC 2x 4.0 mm², 2x 0.75 mm²; 6 mm stripped and tin-plated
	+ UB (black)
	PWM/LIN (yellow)
	Diagnostic output (white)
	GND (brown)

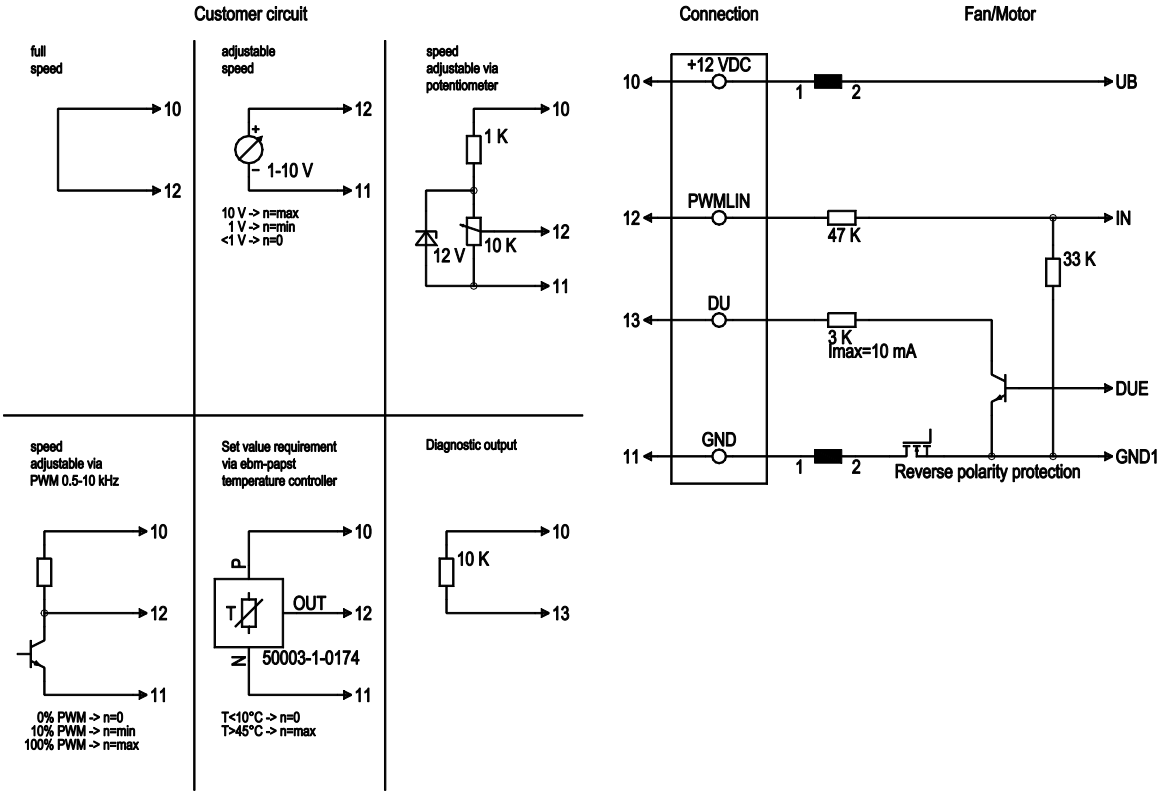
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Connection diagram



No.	Conn.	Designation	Color	Function/assignment
	10	+12 VDC	black	Power supply 12 VDC, maximum ripple 3.5%
	11	GND	brown	Reference ground
	12	PWM / LIN	yellow	Control input Re > 75k
	13	DUE	white	Fan OK: high, fan error: low, Isink max = 10 mA

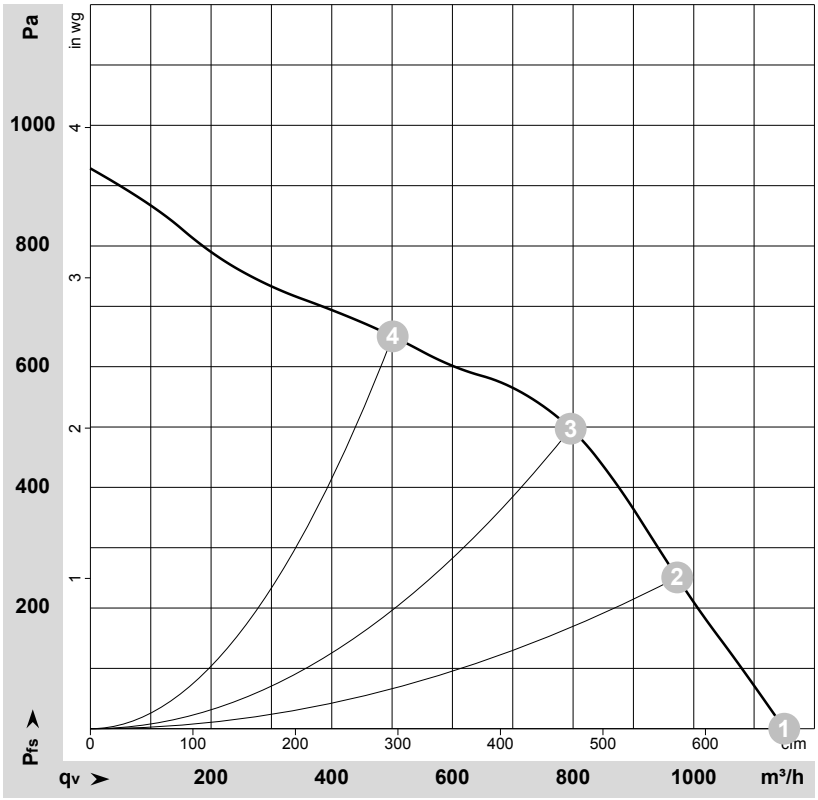
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Curves: Air performance



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-121049-1

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	13	3570	335	25.70	1150	0	675	0.00
2	13	3970	308	23.56	975	250	575	1.00
3	13	4405	304	23.20	795	500	470	2.01
4	13	4820	251	19.36	500	650	295	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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