K3G097-AK82-76

EC dual centrifugal fan

forward-curved, dual-intake

with housing, Automotive



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Nominal data

Type	**K3G097-AK82-76**	
Motor	**M3G074-CF**	
Nominal voltage	VDC	26
Nominal voltage range	VDC	16 .. 32
Method of obtaining data		fa
Speed (rpm)	min^{-1}	3800
Power consumption	W	380
Current draw	A	14.5
Min. ambient temperature	°C	-40
Max. ambient temperature	°C	85

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	2.6 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	- Fault output (open collector) - Load dump (58 V) - Motor current limitation - Soft start - Set value input Lin 0-10 VDC / PWM (1.4 V corresponds to V=min, 10 V corresponds to V=max) - Overvoltage detection - Thermal overload protection for electronics
EMC regulations	According to ECE R10 Rev. 5
Electrical hookup	With plug; Standby current less than 500 µA
Motor protection	Reverse polarity and locked-rotor protection
With cable	Variable
Approval	E1
Comment	Type approval number – 058184

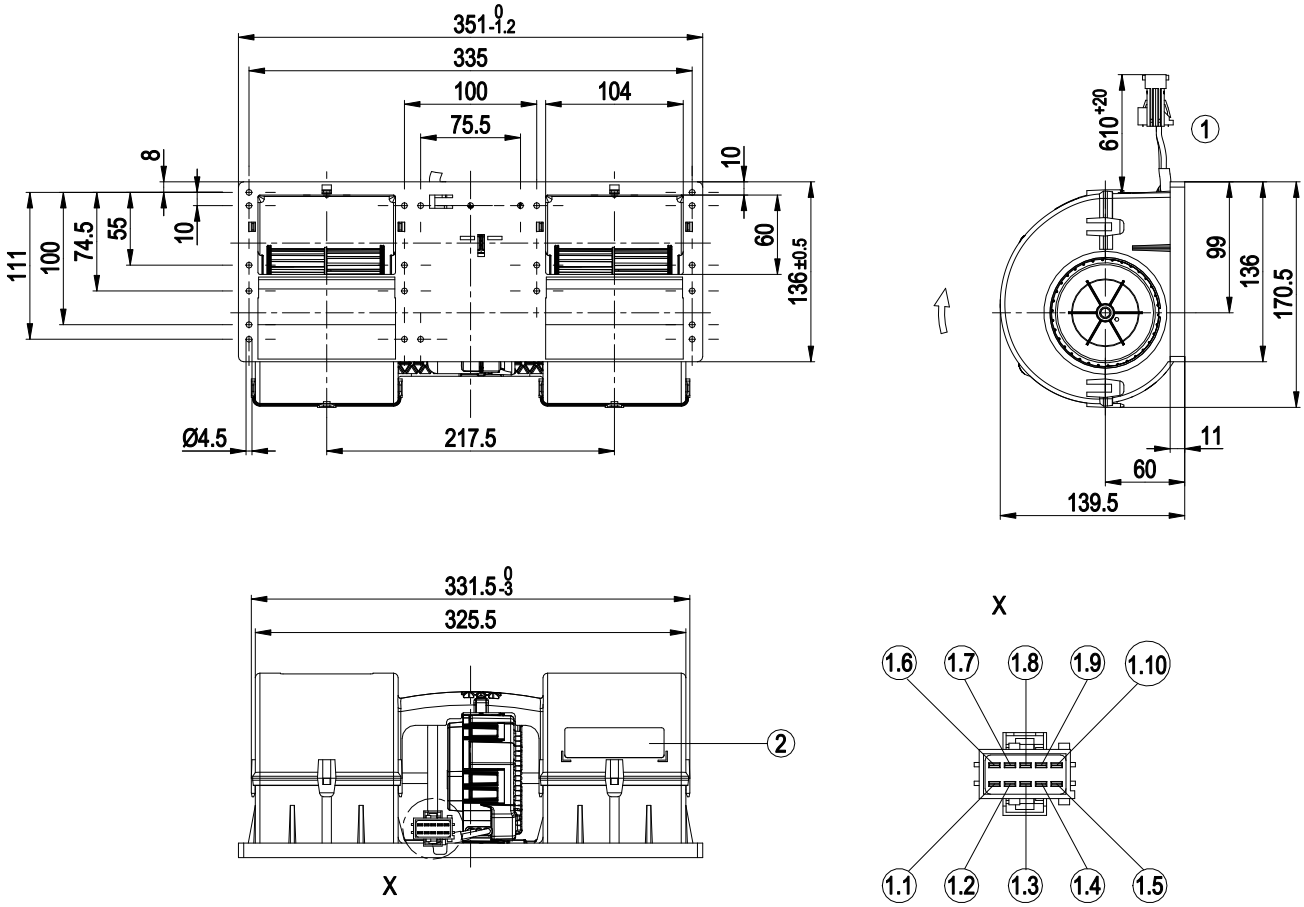
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Product drawing



1	Cable with plug, 10-pole, TE Junior Power Timer 1-965423-1, coded
	Mating connector TE 1-967240-1 (not included in scope of delivery)
1.1	+ UB
1.2	Dummy plug
1.3	Dummy plug
1.4	Dummy plug
1.5	Dummy plug
1.6	PWM/LIN
1.7	Dummy plug
1.8	GND
1.9	Dummy plug
1.10	Dummy plug

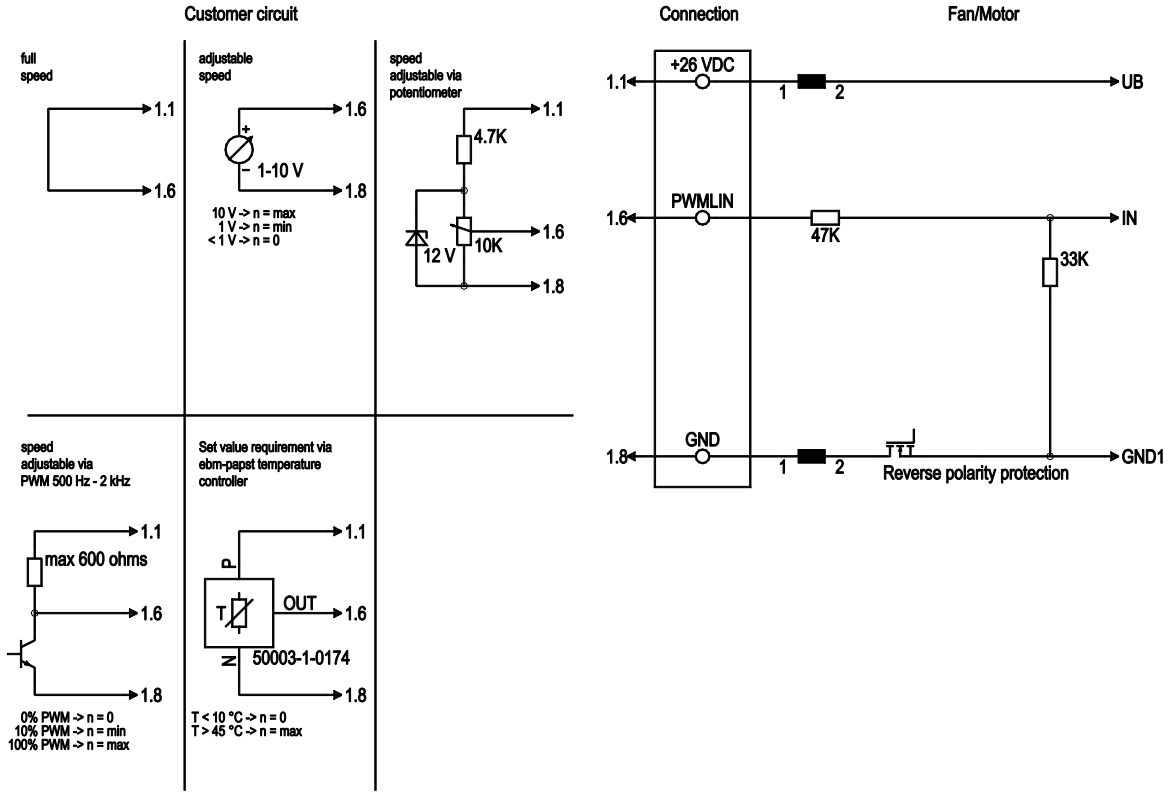
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Connection diagram



No.	Conn.	Designation	Function/assignment
	1.1	UB +26 VDC	Power supply 26 VDC
	1.6	PWM/LIN	Control input Re > 100k
	1.8	GND	Power supply GND, reference ground

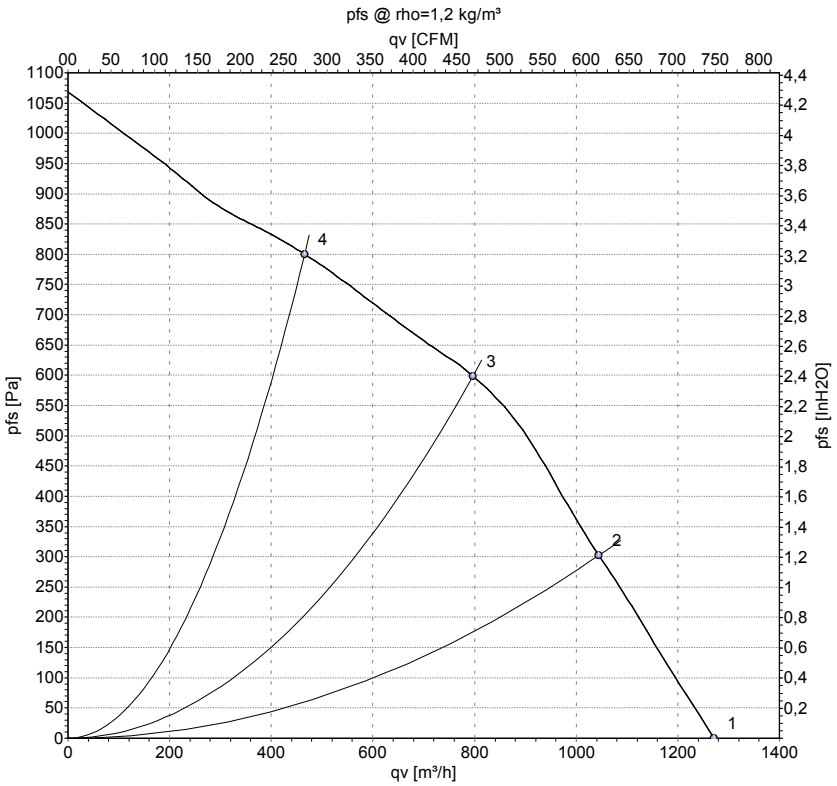
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Curves: Air performance



Measurement: LU-134610-1

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	in. wg
1	26	3800	380	14.50	1270	0	750	0.00
2	26	4250	335	12.88	1045	300	615	1.20
3	26	4830	309	11.88	795	600	470	2.41
4	26	5335	264	10.12	465	800	275	3.21

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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