K3G097-AK28-75

EC dual centrifugal fan

Forward-curved, dual-intake

With housing, Automotive



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Nominal data

Type	**K3G097-AK28-75**
Motor	**M3G074-CF**

Nominal voltage	VDC	26
Nominal voltage range	VDC	16 .. 32
Method of obtaining data		fa
Range of speed	rpm	3600
Power consumption	W	352
Current draw	A	13.4
Min. ambient temperature	℃	-40
Max. ambient temperature	℃	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

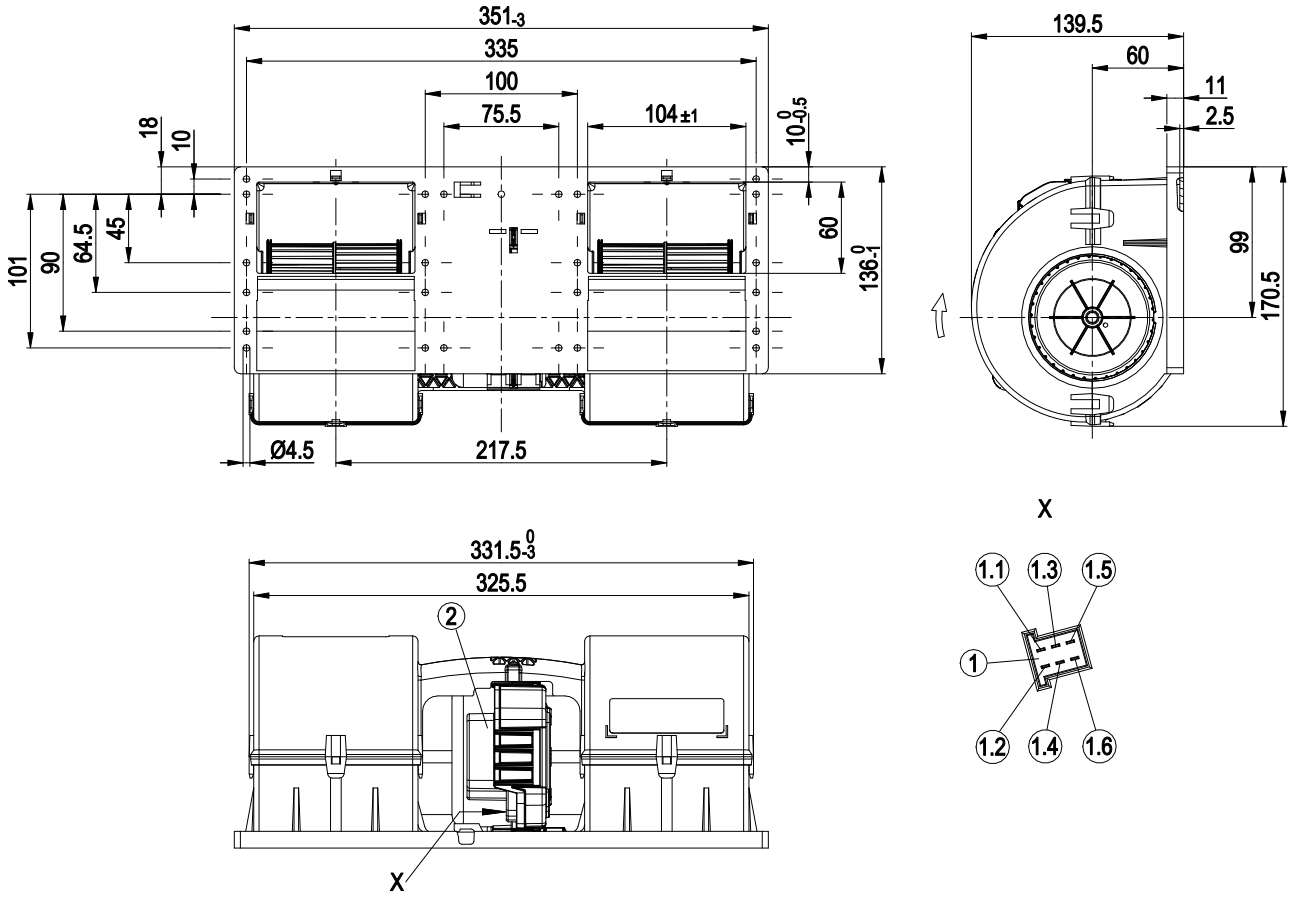
Weight	2.1 kg
Size	97 mm
Motor size	74
Impeller material	PA plastic, UL94 HB(black)
Housing material	PP plastic (black)
Balance quality according to DIN ISO 1940-1	G2.5
Direction of rotation	Clockwise, viewed toward rotor
Type of protection	Motor IP24 KM
Insulation class	"B"
Moisture (F) / Environmental (H)	H1
Max. permitted ambient temp. for motor (transport/storage)	+85 ℃
Min. permitted ambient temp. for motor (transport/storage)	-40 ℃
Installation position	Any
Condensation drainage holes	None, open rotor
Cooling bore / aperture	Rotor-side
Operation Mode	S1
Motor bearing	Ball bearing
Life expectancies	40,000h (typical)
Technical features	-Start at 85℃ (2min.) permitted -Load dump (58V) -Motor current limit -Soft start -Control input 0-10 VDC/PWM -Overvoltage detection -Over-temperature protected electronics -Line under voltage detection
EMC directives	According to ECE R10 Rev. 3
Electrical leads	Plug; Standby current less than 500 μA
Motor protection	Passive reverse polarity and locked-rotor protection
Approval	E1;EAC
Noise level	76 dB(A), sound power level according to ISO 13347
Remark	Not approved for continuous operation at maximum back pressure and 85℃; type approval number - 036432

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Product drawing



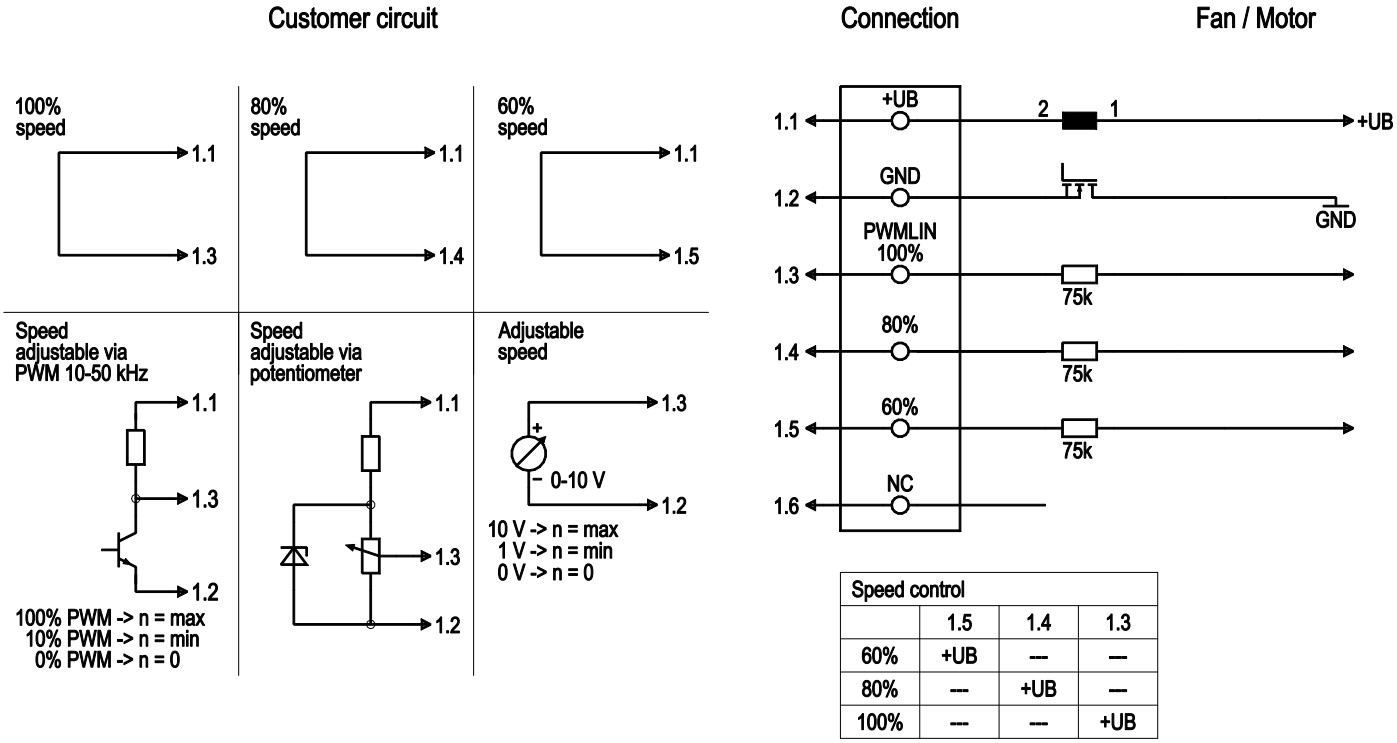
1	6-pole header TE Junior Power Timer WE_9901118
1.1	+ UB
1.2	GND
1.3	PWM/LIN, 100% speed
1.4	80% speed
1.5	60% speed
1.6	Not used / no function
	Accessory part: Cable (460mm) with mating connector, part no. 02001-4-1021 not included in scope of delivery 6-pole mating connector TE 929504-2, 4x plug contact TE 927771-1, 2x plug contact TE 927768-1
2	Electronics cover blue (RAL 5015)

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Plugs/Connectors



Speed control			
	1.5	1.4	1.3
60%	+UB	---	---
80%	---	+UB	---
100%	---	---	+UB

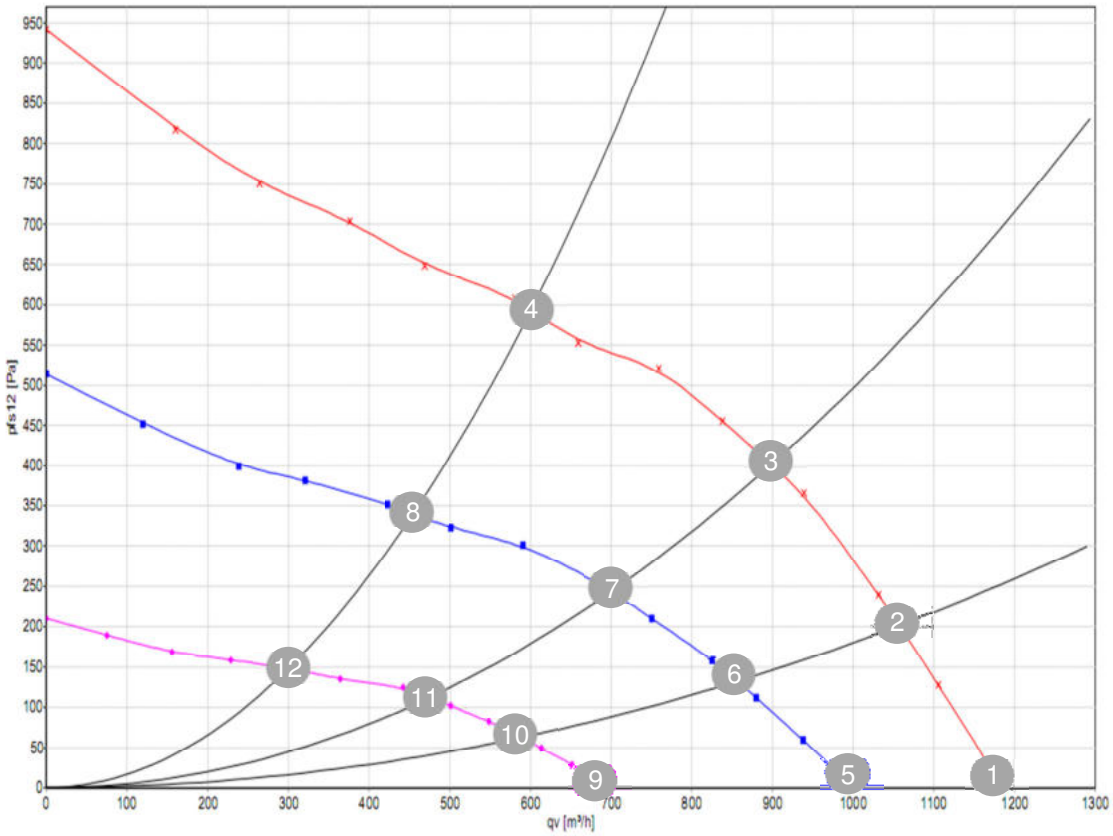
Conn.	Designation	Function/assignment
1.1	+UB	Power supply
1.2	GND	Power supply GND, reference ground
1.3	100%, PWM/LIN	100% speed, control input 0-10V analogue voltage or PWM
1.4	80%	80% speed
1.5	60%	60% speed
1.6	NC	Not used / no function

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Curves: Air performance



Pfs @ rho=1.2 kg/m³

Measurement: 10577

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Outlet 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

	Stage	U	n	Pe	I	qV	pfs
		V	rpm	W	A	m3/h	Pa
1	100%	26	3600	353	13.4	1186	0
2	100%	26	3930	350	13.2	1060	200
3	100%	26	4260	325	12.4	900	400
4	100%	26	4620	248	9.5	600	595
5	80%	26	3050	208	8.1	1006	0
6	80%	26	3200	183	7.0	857	131
7	80%	26	3360	154	5.9	700	245
8	80%	26	3560	113	4.4	457	340
9	60%	26	2140	73	2.8	695	0
10	60%	26	2220	64	2.4	590	62
11	60%	26	2270	53	2.0	475	112
12	60%	26	2385	38	1.5	305	148

U = Power supply · n = Speed (rpm) · P_e = Power consumption · I = Current draw · q_V = Air flow p_{fs} = Air pressure