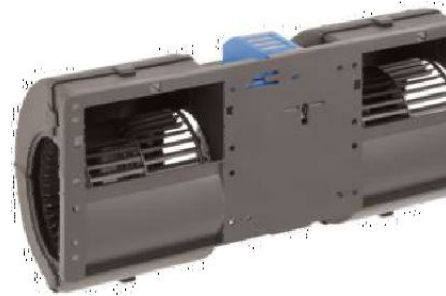


KARTA KATALOGOWA

K3G097-AK28-20

Moduł promieniowy EC RadiPac, łopatki zakrzywione do przodu, jednostronnie ssący

Producent: ebm-papst



Dane znamionowe

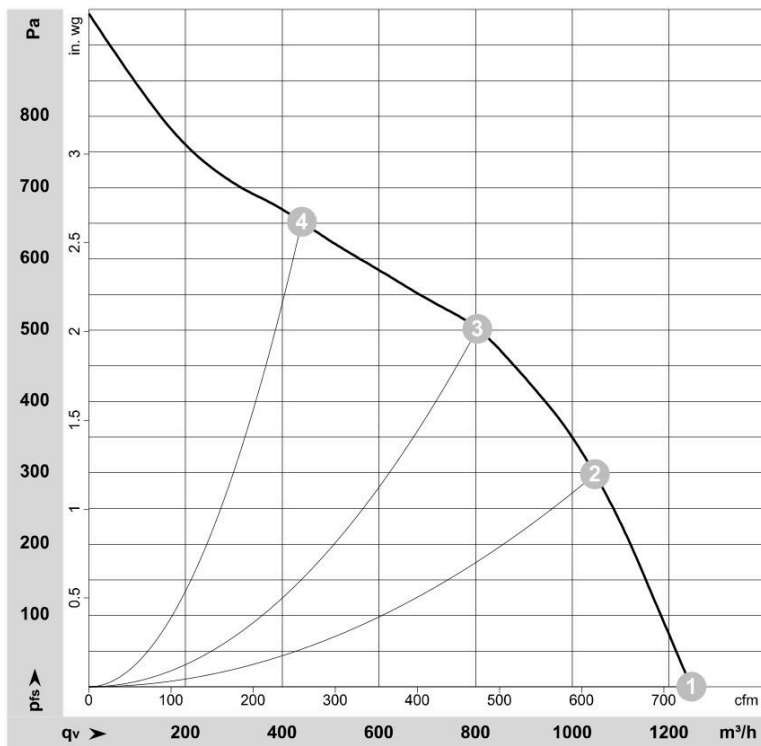
Prędkość obrotowa	3500 obr/min
Pobór mocy	345 W
Pobór prądu	13,2 A
Temperatura otoczenia	-40...+70 °C

Budowa

Średnica wirnika	97 mm
Materiał wirnika	tworzywo PA
Klasa izolacji	B
Zabezpieczenie silnika	ochrona przed zablokowaniem wirnika
Masa	2,18 kg

Charakterystyka przepływowa (50 Hz)

Curves: Air performance



$$\rho = 1.15 \text{ kg/m}^3 \pm 2 \%$$

Measurement: LU-208001-1

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.

Dane na podstawie karty producenta ebm-papst (oryginał na kolejnych stronach).

Wartości znamionowe dla punktu maksymalnego obciążenia; producent zastrzega możliwość zmian.

Dobór, wycena i dostawa – zapytaj LUFTBERG

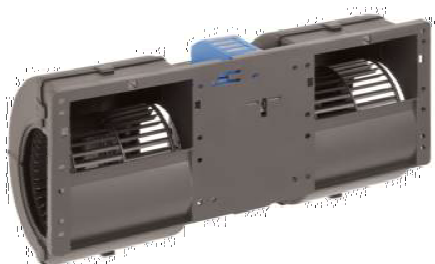
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K3G097-AK28-20

EC dual centrifugal fan

forward-curved, with brushless DC motor
with housing, Automotive


ebm-papst Mulfingen GmbH & Co. KG

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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-AK28-20	
Motor	M3G074-CF	
Nominal voltage	VDC	26
Nominal voltage range	VDC	16 .. 32
Method of obtaining data		fa
Status		prelim.
Speed (rpm)	min ⁻¹	3500
Power consumption	W	345
Current draw	A	13.2
Min. back pressure	Pa	0
Min. back pressure	in. wg	0
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



K3G097-AK28-20

EC dual centrifugal fan

forward-curved, with brushless DC motor
with housing, Automotive

Technical description

Weight	2.18 kg
Size	97 mm
Motor size	74
Impeller material	PA plastic UL94 HB (black)
Housing material	PP plastic (black)
Balancing grade according to DIN ISO 21940-11	G 6.3
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	Motor IP24 KM
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	H1
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	- Locked-rotor detection - Power limiter - Load dump (58 V) - Motor current limitation - Soft start - Control input 0-10 VDC / PWM - Temperature derating - Overvoltage detection - Thermal overload protection for electronics - Line undervoltage detection
EMC regulations	According to ECE R10 Rev.6
Electrical hookup	Plug; Standby current less than 500 µA
Motor protection	Passive reverse polarity and locked-rotor protection
Protection class assignment	III; Requires supply with safety extra-low voltage SELV. This component for installation may have several local protection classes. This information relates to this component's basic design. The final protection class is based on the component's intended installation and connection.
Approval	E1; EAC
Comment	Type approval number – 069362

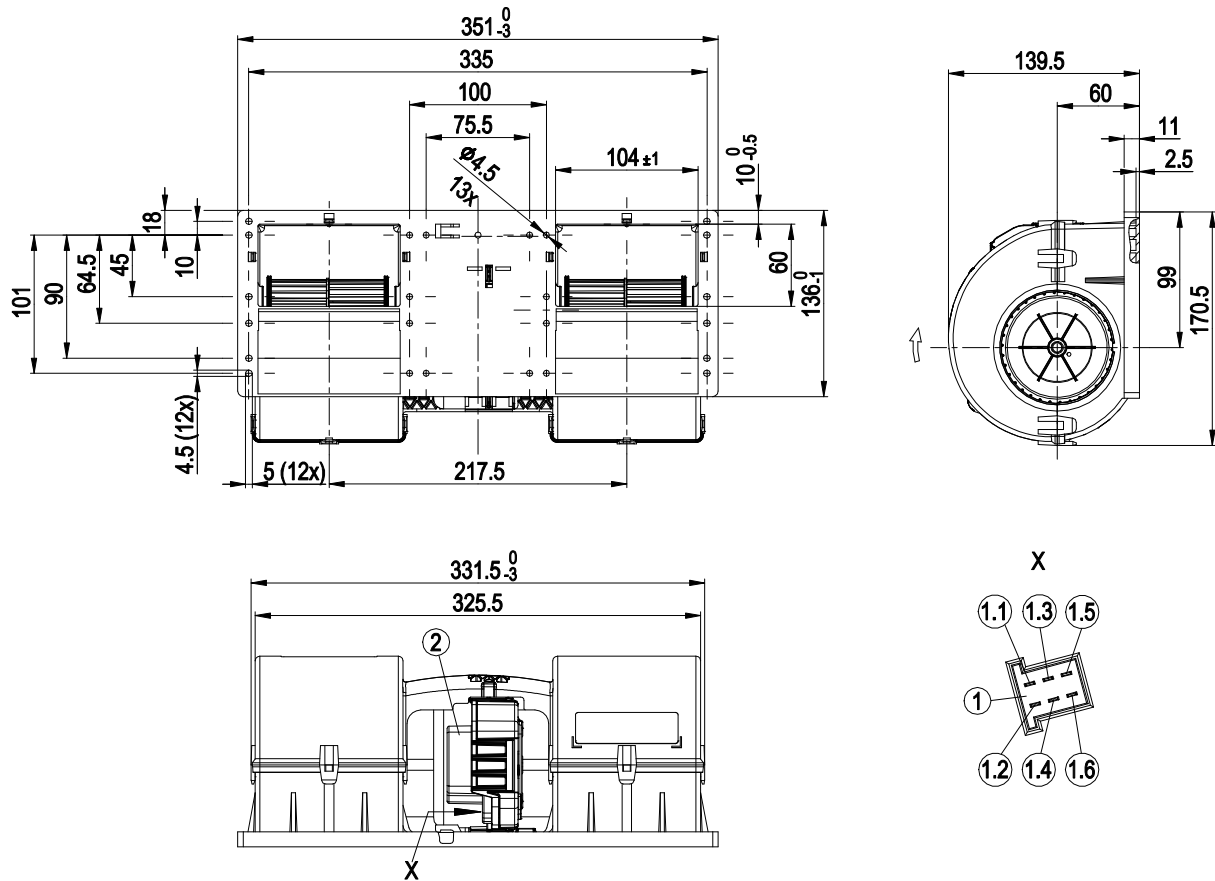


K3G097-AK28-20

EC dual centrifugal fan

forward-curved, with brushless DC motor
with housing, Automotive

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 (460 mm) 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)

K3G097-AK28-20

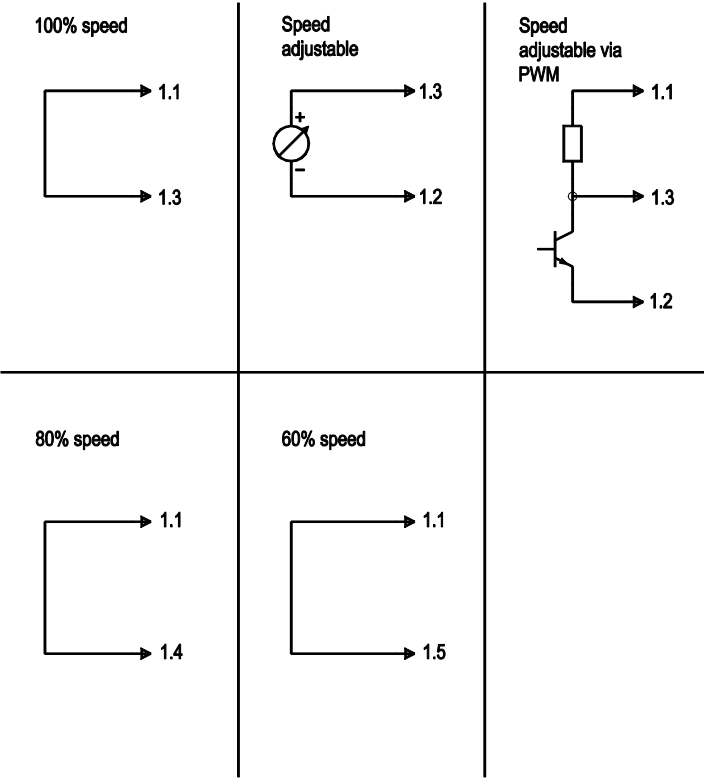
EC dual centrifugal fan

forward-curved, with brushless DC motor

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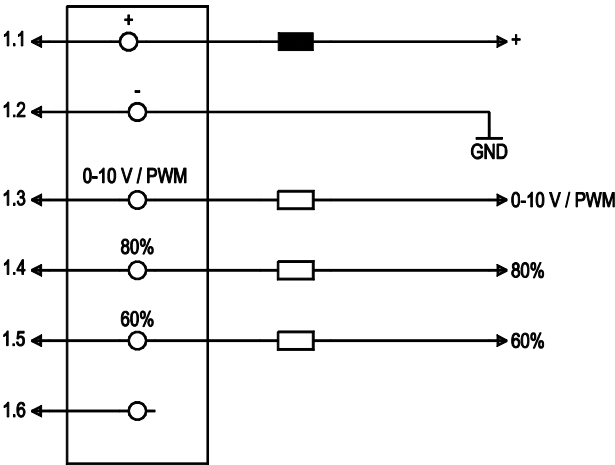
Connection diagram

Customer circuit



Connection

Fan/Motor



No.	Conn.	Designation	Function/assignment
	1.1	+	Power supply
	1.2	-	Power supply
	1.3	0-10 V / PWM	Control input: $R_i > 47\text{ k}\Omega$ 0-10 V (typ. $< 1\text{ V} \rightarrow n=0$; $1.2\text{ V} \rightarrow n=\text{min}$; $> 10\text{ V} \rightarrow n=\text{max}$) or PWM (amplitude = power supply; 10 kHz-50kHz)
	1.4	80%	Control input: $R_i > 47\text{ k}\Omega$ 80% speed level
	1.5	60%	Control input: $R_i > 47\text{ k}\Omega$ 60% speed level
	1.6		not used



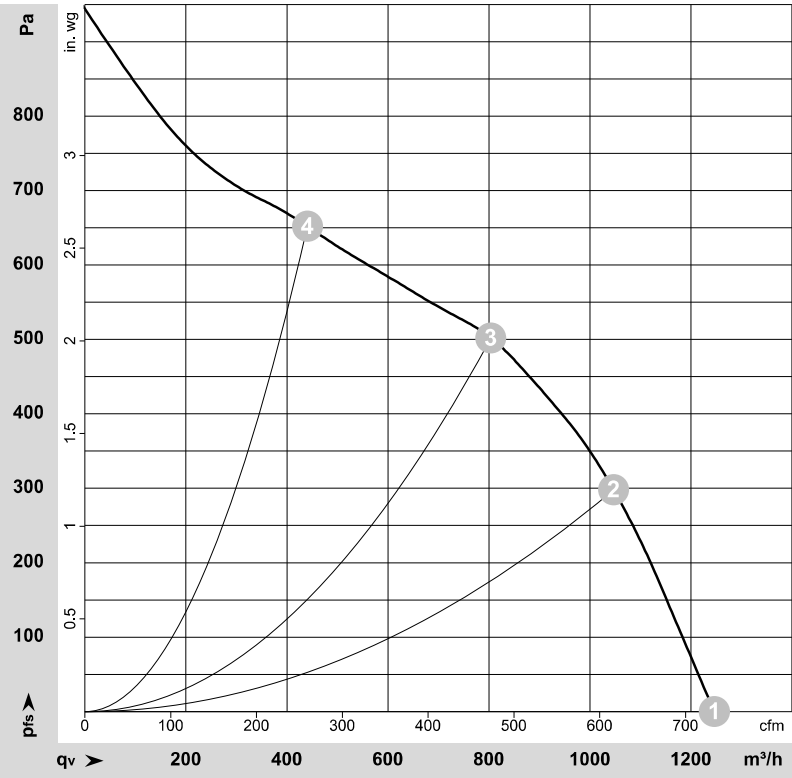
K3G097-AK28-20

EC dual centrifugal fan

forward-curved, with brushless DC motor

with housing, Automotive

Curves: Air performance



$\rho = 1.15 \text{ kg/m}^3 \pm 2 \%$

Measurement: LU-208001-1

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	LpA _{in}	LwA _{in}	q _v	p _{fs}	q _v	p _{fs}
	V	min ⁻¹	W	A	dB(A)	dB(A)	m³/h	Pa	cfm	in. wg
1	26	3500	345	13.20	70	81	1245	0	735	0.00
2	26	4095	336	12.93	68	78	1045	300	615	1.20
3	26	4420	275	10.55	67	77	805	500	475	2.01
4	26	4835	186	7.15	68	78	440	650	260	2.61

U = Voltage · n = Speed (rpm) · P_{ed} = Power consumption · I = Current draw · LpA_{in} = Sound pressure level intake side · LwA_{in} = Sound power level intake side · q_v = Air flow
p_{fs} = Pressure increase

