

KARTA KATALOGOWA

K3G097-AK34-43

Wentylator promieniowy podwójny EC, łopatki zakrzywione do przodu, dwustronnie ssący, z obudową, wykonanie motoryzacyjne

Producent: ebm-papst



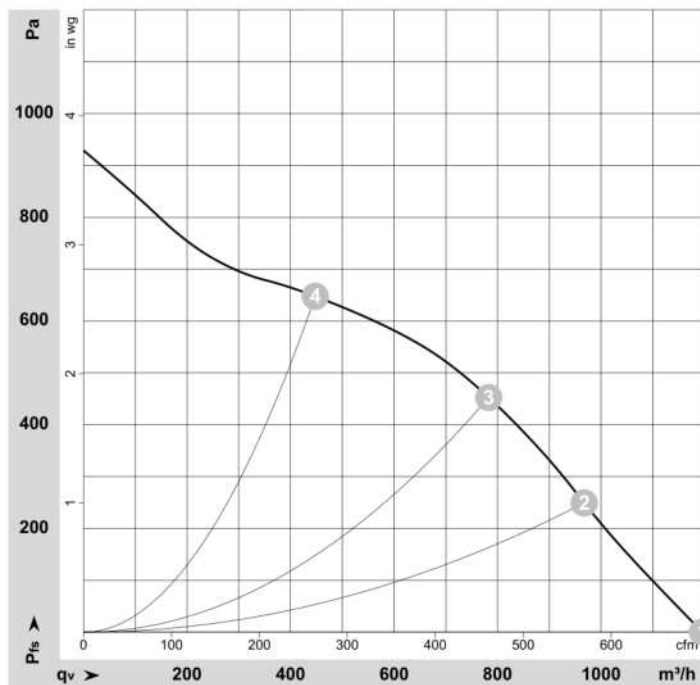
Dane znamionowe	
Napięcie znamionowe	26 V DC (16...32 V DC)
Prędkość obrotowa	3600 obr/min
Pobór mocy	325 W
Pobór prądu	12,5 A
Temperatura otoczenia	-40...+85 °C
Regulacja obrotów	0-10 V / PWM

Dane ErP (UE 327/2011)	
Sprawność całkowita	44,9 %
Przepływ w pkt. optymalnym	510 m³/h
Przyrost ciśnienia	625 Pa
Regulacja prędkości (ErP)	tak

Budowa	
Wielkość	97 mm
Silnik	M3G074-CF
Materiał wirnika	tworzywo PA
Obudowa	tworzywo PP
Liczba łopatek	34
Kierunek obrotów	w prawo, patrząc na wirnik
Stopień ochrony	IP24 KM
Klasa izolacji	B
Zabezpieczenie silnika	ochrona przed odwrotną polaryzacją i zablokowaniem wirnika
Łożyskowanie	kulkowe, uszczelnione
Podłączenie	wtyczka
Masa	2,3 kg

Charakterystyka przepływowa

Curves: Air performance



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

Measurement: LU-171155-1

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 okładce wg karty katalogowej producenta ebm-papst (oryginał na kolejnych stronach).
Wartości przy maksymalnym obciążeniu; producent zastrzega możliwość zmian.

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K3G097-AK34-43

EC dual centrifugal fan

forward-curved, dual-intake

with housing, Automotive


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General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen

Amtsgericht (court of registration) Stuttgart · HRB 590142



Nominal data

Type	K3G097-AK34-43	
Motor	M3G074-CF	
Nominal voltage	VDC	26
Nominal voltage range	VDC	16 .. 32
Method of obtaining data		ml
Speed (rpm)	min ⁻¹	3600
Power consumption	W	325
Current draw	A	12.5
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

Data according to ErP Directive

		Actual	Req. 2015			
01 Overall efficiency η_{es}	%	44.9	33.5	09 Power consumption P_e	kW	0.22
02 Measurement category		A		09 Air flow q_v	m ³ /h	510
03 Efficiency category		Static		09 Pressure increase p_{fs}	Pa	625
04 Efficiency grade N		55.4	44	10 Speed (rpm) n	min ⁻¹	4845
05 Variable speed drive		Yes		11 Specific ratio*		1.01

Data obtained at optimum efficiency level.

The ErP data is determined using a motor-impeller combination in a standardized measurement setup.

* Specific ratio = $1 + p_{fs} / 100\,000\text{ Pa}$

LU-171155



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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
Mode	S1
Motor bearing	Ball bearing; (sealed)
Life expectancy	40,000 h (typical)
Technical features	- Lowering input - Tach output - Fault output (high-side switch max. 30 mA) - INVLIN (inverse linear control input) - Power limit - Load dump (58 V) - Motor current limitation - Soft start - Control input 0-10 VDC / PWM - Overvoltage detection - Thermal overload protection for electronics - Line undervoltage detection
EMC regulations	According to ECE R10 Rev. 3
Electrical hookup	With plug; Standby current less than 500 µA
Motor protection	Reverse polarity and locked-rotor protection
Approval	EAC; E1
Sound level	76 dB(A), sound power level according to ISO 13347
Comment	Type approval number – 036432

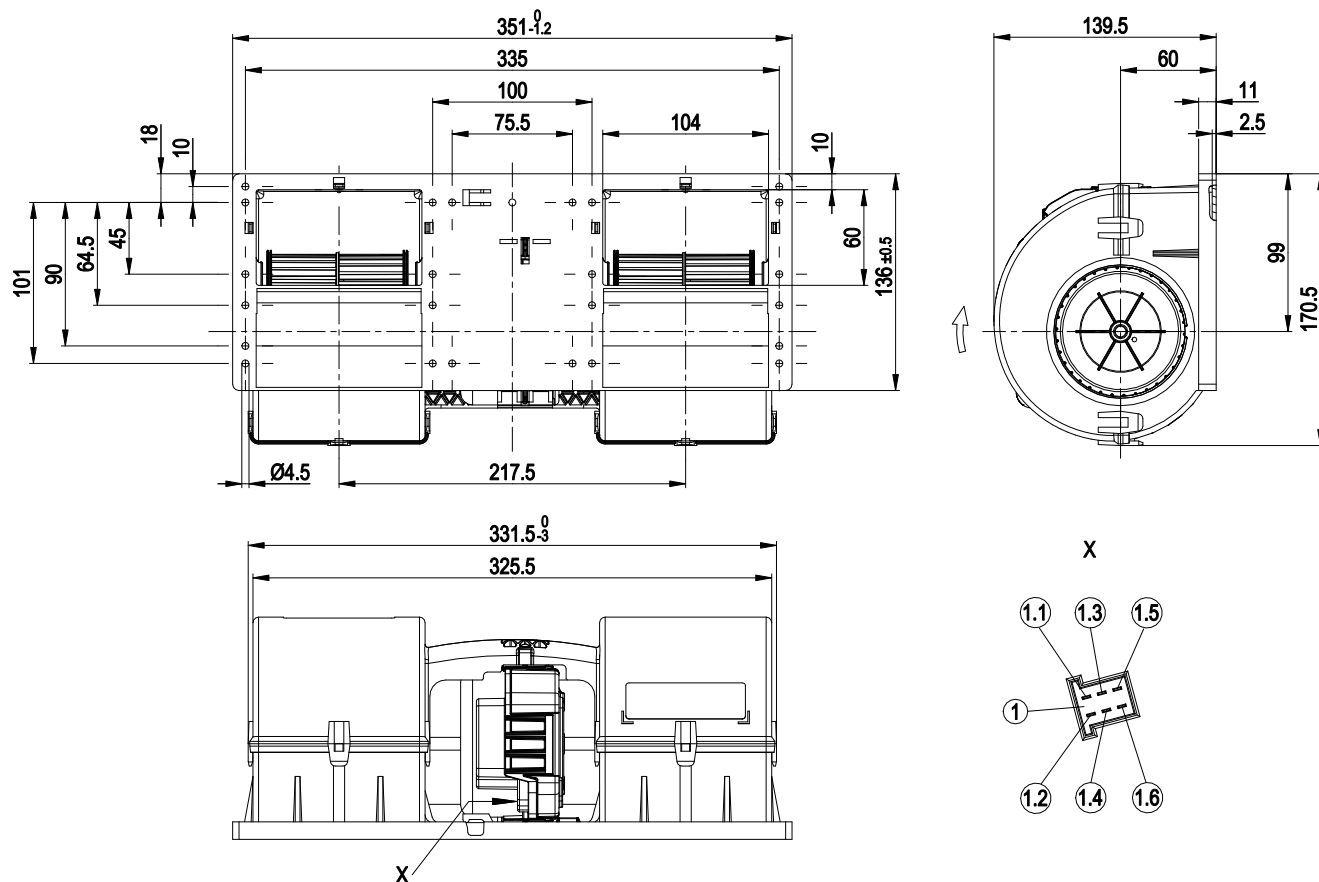


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Product drawing



1	6-pole coded header tyco Junior Power Timer, cable (460 mm) with mating connector part no. 02001-4-1021 not included in scope of delivery.
1.1	+ UB
1.2	GND
1.3	PWM/LIN
1.4	INVLIN
1.5	ABSENK
1.6	Diagnostic output

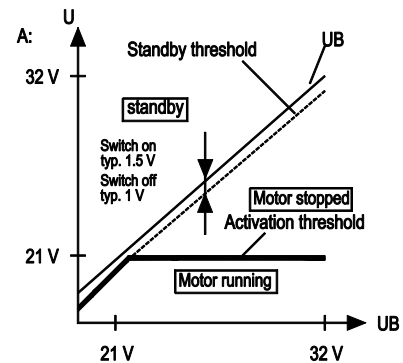
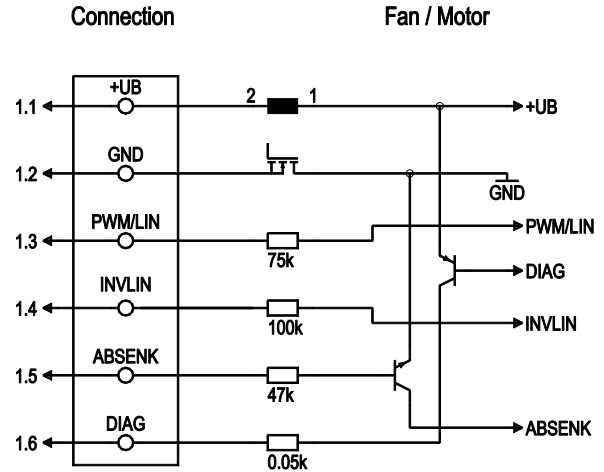
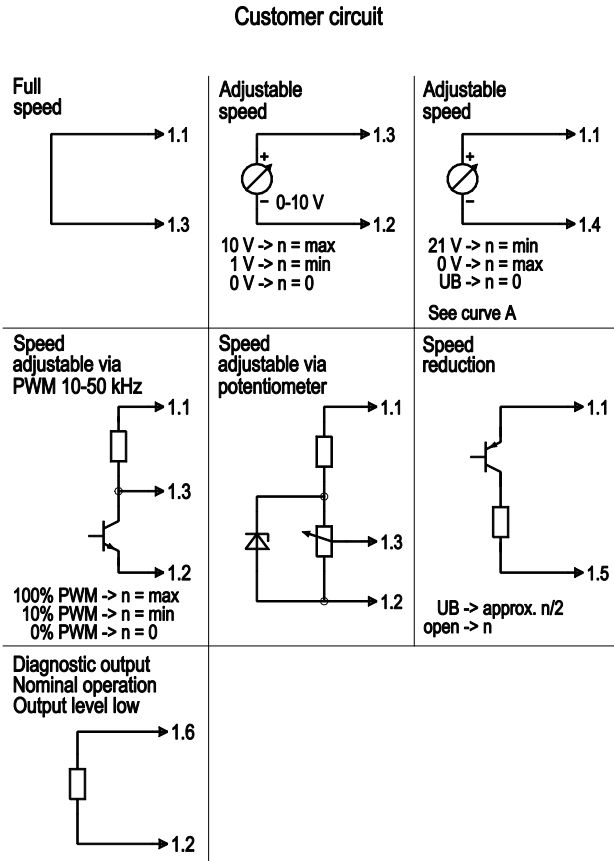
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Connection diagram



No.	Conn.	Designation	Function/assignment
	1.1	+UB	Power supply
	1.2	GND	Power supply GND, reference ground
	1.3	PWM/LIN	Analog voltage control input 0-10 V or PWM
	1.4	INVLIN	Control input, inverse linear
	1.5	ABSENK	Lowering input
	1.6	DIAG	Diagnostic output

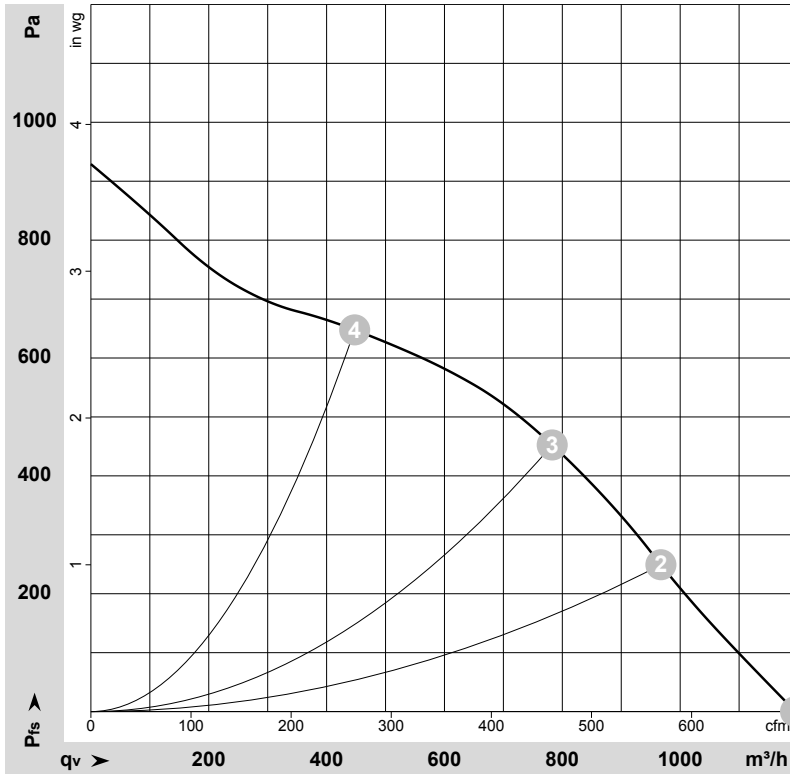
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Measured values

	U	n	P _{ed}	I	qv	p _{fs}	qv	p _{fs}
	V	min ⁻¹	W	A	m ³ /h	Pa	CFM	inH ₂ O
1	26	3600	325	12.50	1195	0	705	0.00
2	26	3945	281	10.82	965	250	570	1.00
3	26	4350	266	10.21	785	450	460	1.81
4	26	4895	207	7.93	450	650	265	2.61

U = Power supply · n = Speed (rpm) · P_{ed} = Power consumption · I = Current draw · qv = Air flow · p_{fs} = Pressure increase

