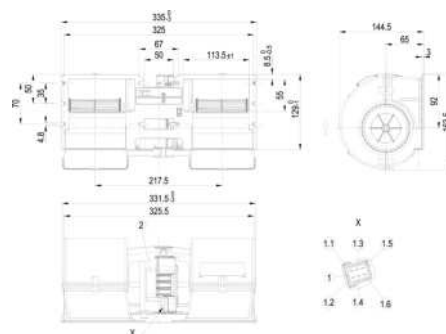


KARTA KATALOGOWA

K3G097-BK34-65

Wentylator promieniowy podwójny EC, łopatki zakrzywione do przodu, z bezszczotkowym silnikiem DC, z obudową, wykonanie motoryzacyjne

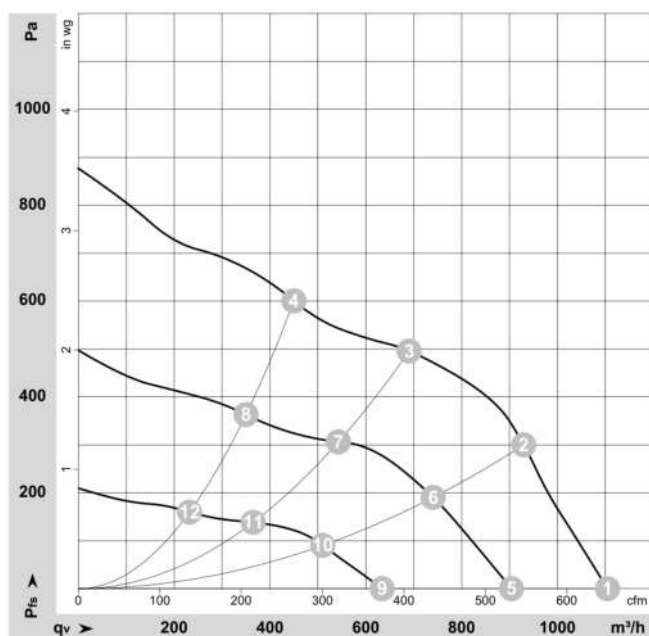
Producent: ebm-papst



Dane znamionowe		Budowa	
Napięcie znamionowe	26 V DC (16...32 V DC)	Wielkość	97 mm
Prędkość obrotowa	4040 obr/min	Silnik	M3G074-CF
Pobór mocy	344 W	Materiał wirnika	tworzywo PA
Pobór prądu	13,3 A	Obudowa	tworzywo PP
Temperatura otoczenia	-40...+70 °C	Liczba łopatek	34
Regulacja obrotów	0-10 V / PWM	Kierunek obrotów	w prawo, patrząc na wirnik
Dane ErP (UE 327/2011)		Stopień ochrony	silnik IP24 KM
Sprawność całkowita	43,1 %	Klasa izolacji	B
Przepływ w pkt. optymalnym	695 m³/h	Zabezpieczenie silnika	ochrona przed odwrotną polaryzacją i zablokowaniem wirnika
Przyrost ciśnienia	500 Pa	Łożyskowanie	kulkowe, uszczelnione
Regulacja prędkości (ErP)	tak	Podłączenie	wtyczka
		Masa	2,2 kg

Charakterystyka przepływowa

Curves: Air performance



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

Measurement: LU-74386-1
Measurement: LU-74387-1
Measurement: LU-74388-1

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.

Dobór, wycena i dostawa – zapytaj LUFTBERG

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K3G097-BK34-65

EC dual centrifugal fan

forward-curved, with brushless DC motor

with housing, Automotive



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Nominal data

Type	K3G097-BK34-65	
Motor	M3G074-CF	
Nominal voltage	VDC	26
Nominal voltage range	VDC	16 .. 32
Method of obtaining data		ml
Speed (rpm)	min ⁻¹	4040
Power consumption	W	344
Current draw	A	13.3
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

Data according to Commission Regulation (EU) 327/2011 (EN 17166)

		Actual	Req. 2015			
01 Overall efficiency η_{es}	%	43.1	33.9	09 Power consumption P_e	kW	0.25
02 Measurement category		A		09 Air flow q_v	m ³ /h	695
03 Efficiency category		Static		09 Pressure increase p_{fs}	Pa	500
04 Efficiency grade N		53.2	44	10 Speed (rpm) n	min ⁻¹	4590
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-74386



K3G097-BK34-65

EC dual centrifugal fan

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

Technical description

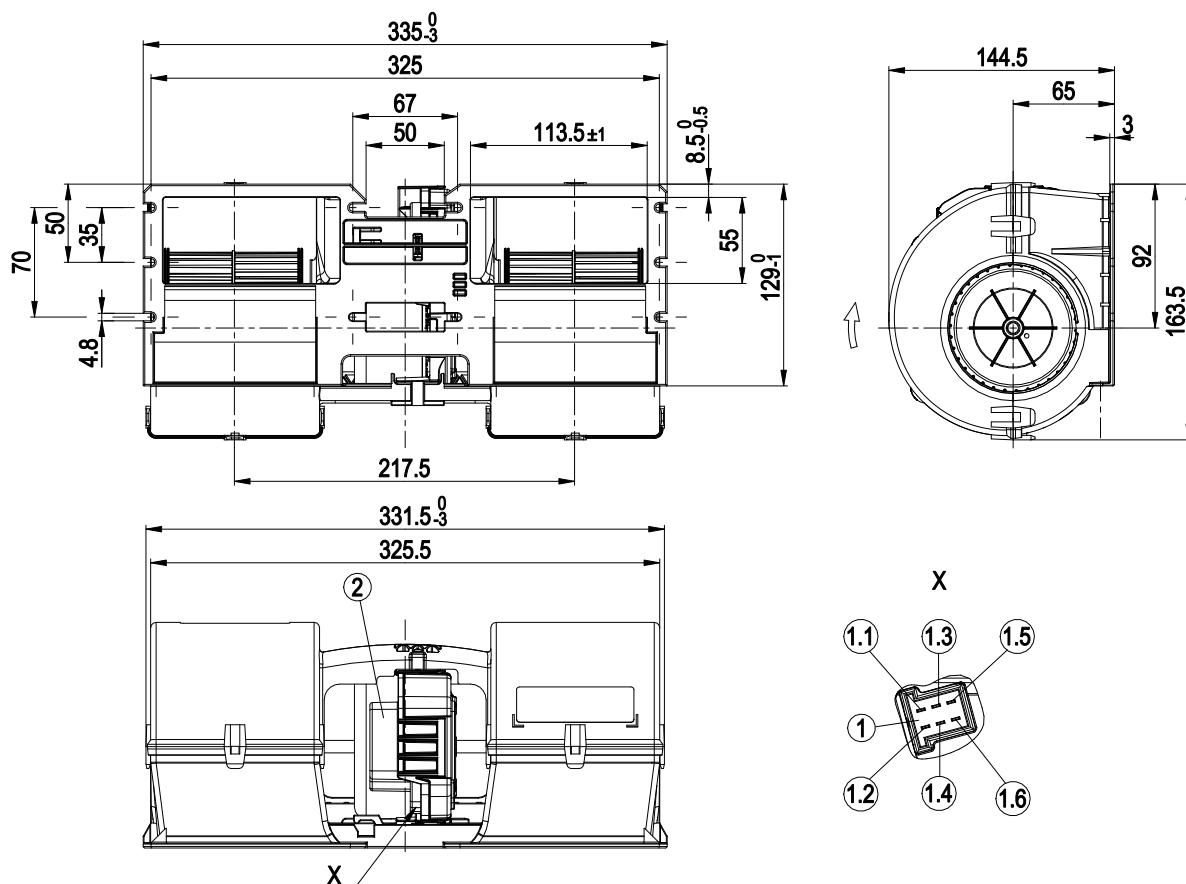
Weight	2.2 kg
Size	97 mm
Motor size	74
Impeller material	PA plastic
Housing material	PP plastic
Number of blades	34
Balancing grade according to DIN ISO 1940-1	G 2.5
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	Motor IP24 KM
Insulation class	"B"
Moisture (F) / Environmental (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	- Start at 85 °C (2 min) permitted - 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	Plug; Standby current less than 500 µA
Motor protection	Passive reverse polarity and locked-rotor protection
Approval	R10; EAC
Sound level	76 dB(A), sound power level according to ISO 13347
Comment	Not approved for continuous operation at maximum back pressure and 85 °C; type approval number – 036432

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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
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)

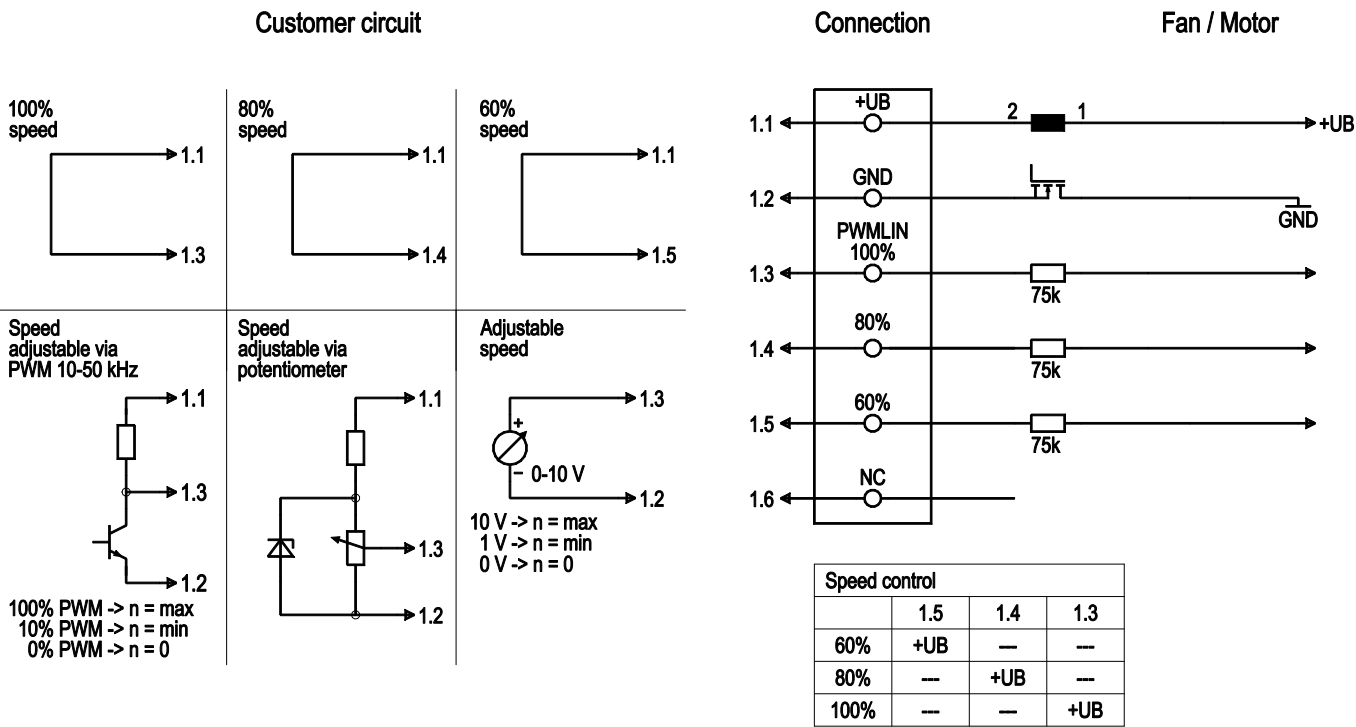
K3G097-BK34-65

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forward-curved, with brushless DC motor

with housing, Automotive

Connection diagram



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

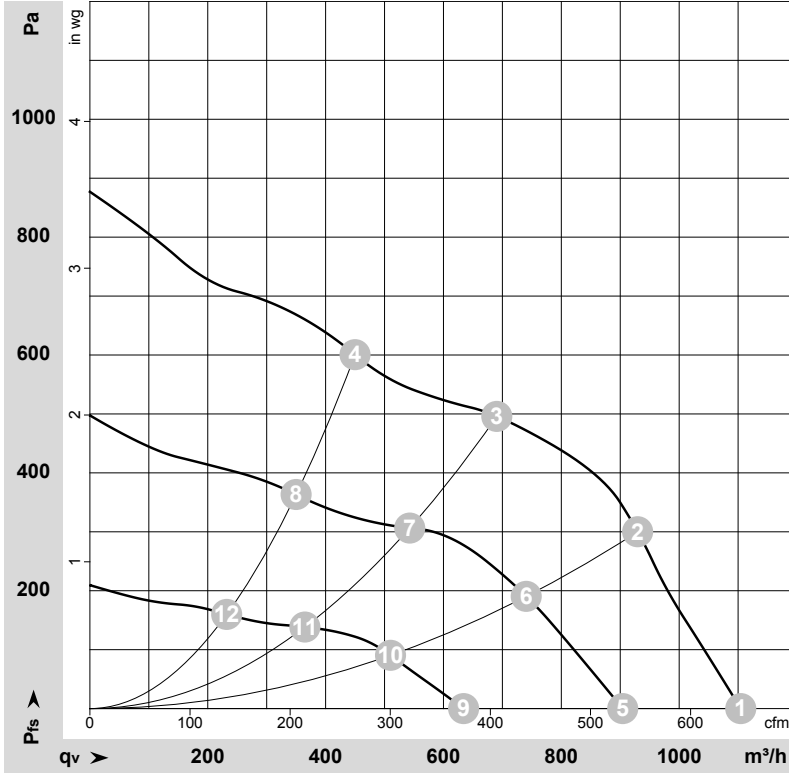


K3G097-BK34-65

EC dual centrifugal fan

forward-curved, with brushless DC motor
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Curves: Air performance



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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

	Stage	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	3	26	4040	344	13.30	70	81	1105	0	650	0.00
2	3	26	4275	306	11.81	70	81	930	300	545	1.20
3	3	26	4595	251	9.68	69	80	690	500	405	2.01
4	3	26	4795	218	8.39	69	80	450	600	265	2.41
5	2	26	3305	186	7.18			905	0	530	0.00
6	2	26	3425	158	6.10			740	194	435	0.78
7	2	26	3615	128	4.95			545	306	320	1.23
8	2	26	3735	107	4.12			350	363	205	1.46
9	1	26	2325	67	2.58			635	0	375	0.00
10	1	26	2385	58	2.26			510	90	300	0.36
11	1	26	2455	45	1.72			365	139	215	0.56
12	1	26	2505	38	1.45			230	160	135	0.64

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

