

KARTA KATALOGOWA

K3G097-AK36-55

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

Producent: ebm-papst



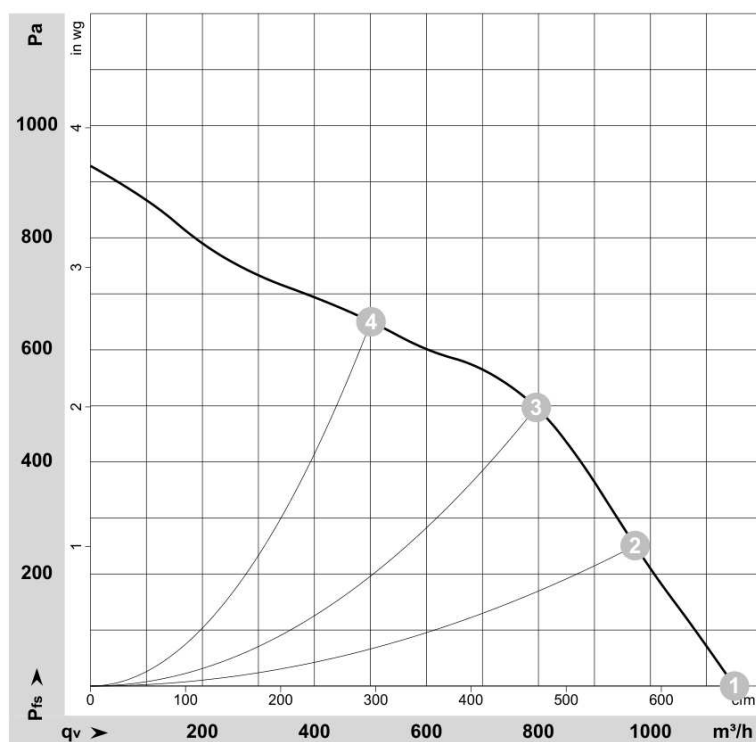
Dane znamionowe	
Napięcie znamionowe	13 V DC (9...15 V DC)
Prędkość obrotowa	3570 obr/min
Pobór mocy	335 W
Temperatura otoczenia	-40...+70 °C
Regulacja obrotów	0-10 V / PWM

Dane ErP (UE 327/2011)	
Sprawność całkowita	44,7 %
Przepływ w pkt. optymalnym	600 m³/h
Przyrost ciśnienia	644 Pa
Regulacja prędkości (ErP)	tak

Budowa	
Wielkość	97 mm
Silnik	M3G074-CF
Materiał wirnika	tworzywo PA UL94 HB (czarne)
Obudowa	tworzywo PP, czarne
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
Masa	2,3 kg

Charakterystyka przepływowa

Curves: Air performance



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

Measurement: LU-121049-1

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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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-AK36-55	
Motor	M3G074-CF	
Nominal voltage	VDC	13
Nominal voltage range	VDC	9 .. 15
Method of obtaining data		ml
Speed (rpm)	min ⁻¹	3570
Power consumption	W	335
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 ErP Directive

		Actual	Req. 2015			
01 Overall efficiency η_{es}	%	44.7	34.1	09 Power consumption P_e	kW	0.27
02 Measurement category		A		09 Air flow q_v	m ³ /h	600
03 Efficiency category		Static		09 Pressure increase p_{fs}	Pa	644
04 Efficiency grade N		54.6	44	10 Speed (rpm) n	min ⁻¹	4920
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-68238



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Technical description

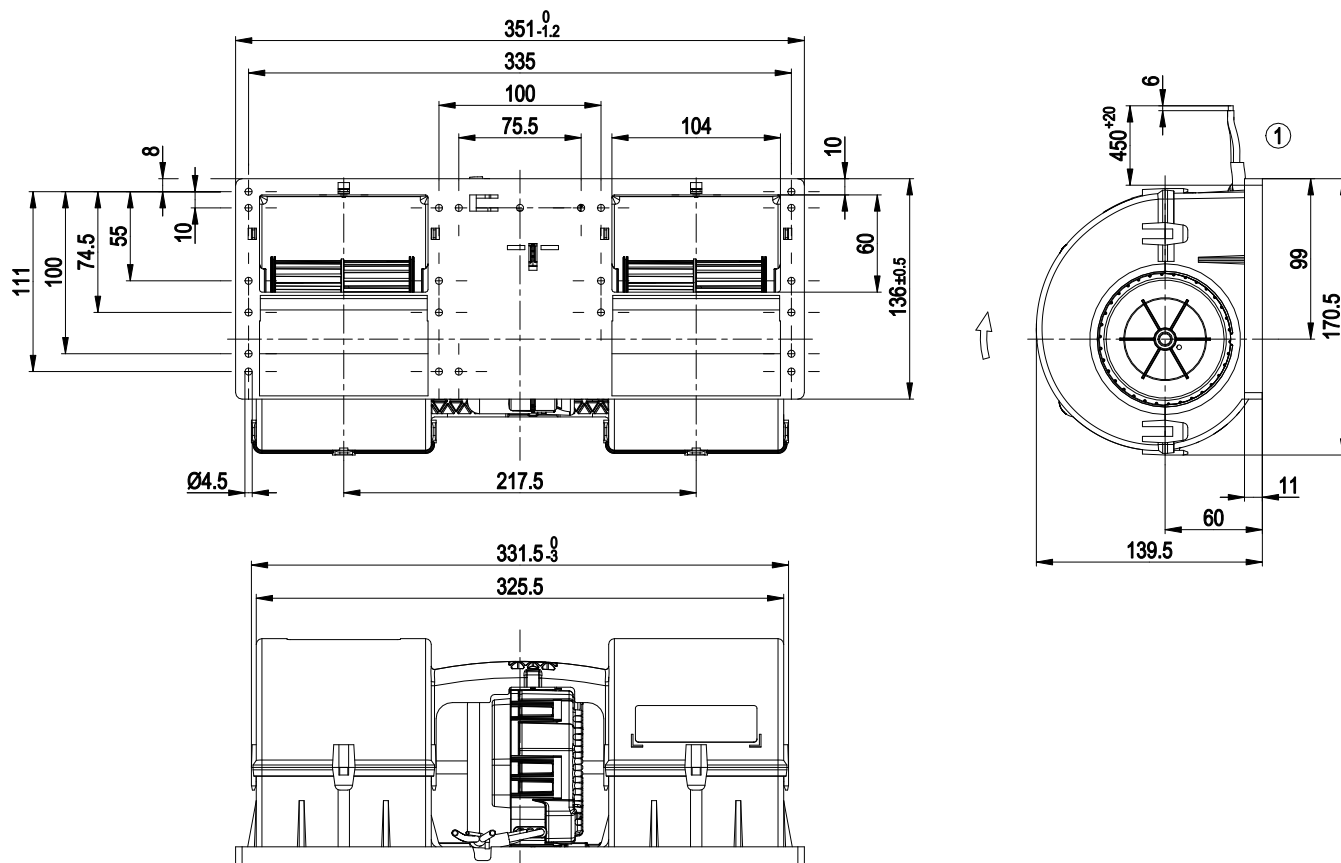
Weight	2.3 kg
Fan size	97 mm
Impeller material	PA plastic UL94 HB (black)
Housing material	PP plastic (black)
Balancing grade according to DIN ISO 1940-1	G 2.5
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP24 KM
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	F3-2
Max. permitted ambient temp. for motor (transport/storage)	+70 °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	- Tach output - Power limiter - Load dump protection - Motor current limitation - Soft start - Control input 0-10 VDC / PWM - Thermal overload protection for electronics
Electrical hookup	Standby current less than 500 µA
Motor protection	Reverse polarity and locked-rotor protection
With cable	Variable
Approval	EAC
Sound level	76 dB(A), sound power level according to ISO 13347

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Product drawing



1	Cable FLRY 2x 4.0 mm ² , FLRY 1x 0.75 mm ² , 3x stripped and tin-plated wire ends
	+ UB (black)
	PWM/LIN (yellow)
	GND (brown)

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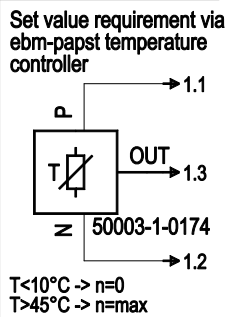
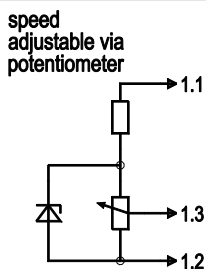
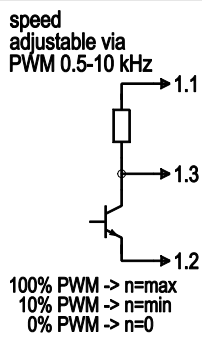
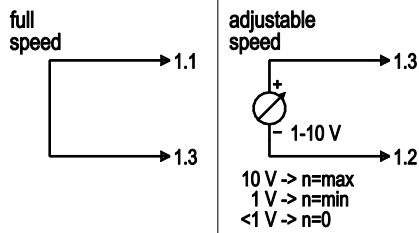
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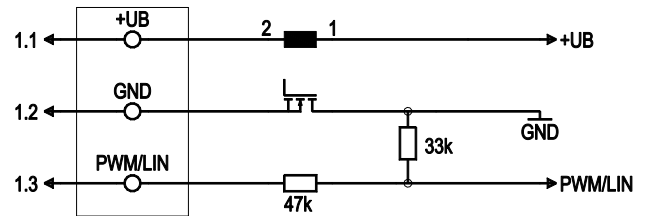
Connection diagram

Customer circuit



Connection

Fan/Motor



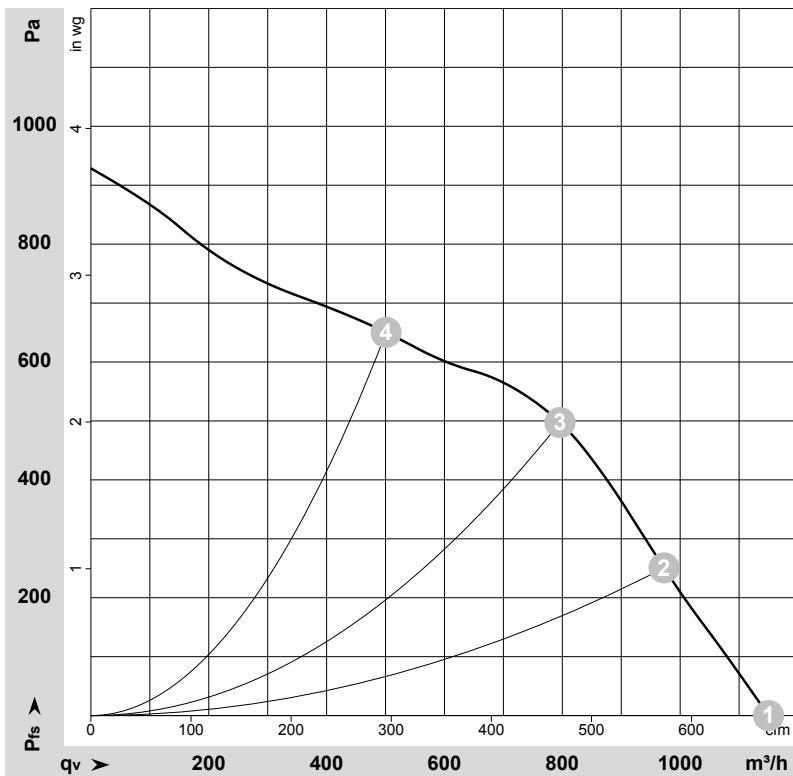
No.	Conn.	Designation	Color	Function/assignment
	1.1	+UB	black	Power supply
	1.2	GND	brown	Power supply GND, reference ground
	1.3	PWM/LIN	yellow	Control input Re > 100k

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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	13	3570	335	25.70	1150	0	675	0.00
2	13	3970	308	23.56	975	250	575	1.00
3	13	4405	304	23.20	795	500	470	2.01
4	13	4820	251	19.36	500	650	295	2.61

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

