

KARTA KATALOGOWA

K3G400-PA27-62

Moduł wentylatora promieniowego EC RadiPac, łopatki zakrzywione do tyłu, jednostronnie ssący, z ramą wsporczą

Producent: ebm-papst



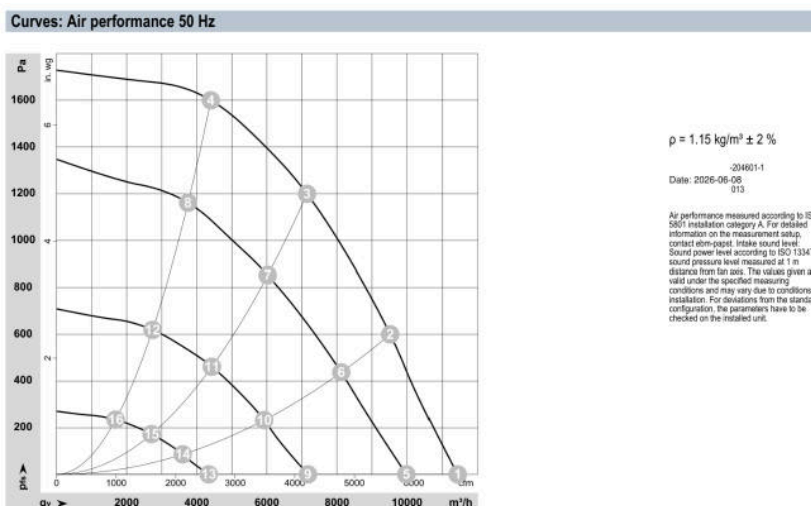
Zdjęcie poglądowe

Dane znamionowe	
Napięcie znamionowe	3~ 400 V (380...480 V)
Częstotliwość	50/60 Hz
Prędkość obrotowa	2800 obr/min
Pobór mocy	3650 W
Pobór prądu	5,5 A
Maks. wydajność	11400 m³/h
Maks. ciśnienie statyczne	1725 Pa
Temperatura otoczenia	-40...+55 °C
Regulacja obrotów	MODBUS RTU

Budowa	
Wielkość	400 mm
Silnik	M3G150-FF
Materiał wirnika	blacha aluminiowa
Obudowa elektroniki	odlew aluminiowy
Liczba łopatek	5
Kierunek obrotów	w prawo, patrząc na wirnik
Stopień ochrony	IP55
Klasa izolacji	F
Łożyskowanie	kulkowe
Podłączenie	skrzynka zaciskowa
Masa	30,04 kg

Dane ErP (UE 327/2011)	
Sprawność całkowita	69,1 %
Przepływ w pkt. optymalnym	6980 m³/h
Przyrost ciśnienia	1242 Pa
Regulacja prędkości (ErP)	tak

Charakterystyka przepływowa (50 Hz)



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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EC centrifugal module - RadiPac

backward-curved, single-intake
with support bracket

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Nominal data

Type	K3G400-PA27-62	
Motor	M3G150-FF	
Phase		3~
Nominal voltage	VAC	400
Nominal voltage range	VAC	380 .. 480
Frequency	Hz	50/60
Method of obtaining data		ml
Speed (rpm)	min ⁻¹	2800
Power consumption	W	3650
Current draw	A	5.5
Min. ambient temperature	°C	-40
Max. ambient temperature	°C	55

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 (prEN 17166)

		Actual	Req. 2015			
01 Overall efficiency η_{es}	%	69.1	57.4	09 Power consumption P_{ed}	kW	3.63
02 Measurement category		A		09 Air flow q_v	m³/h	6980
03 Efficiency category		Static		09 Pressure increase p_{fs}	Pa	1242
04 Efficiency grade N		73.7	62	10 Speed (rpm) n	min ⁻¹	2795
05 Variable speed drive		Yes		11 Specific ratio*		1.01

Data obtained at optimum efficiency level.

The efficiency values displayed for achieving conformity with the Ecodesign Regulation EU 327/2011 has been reached with defined air duct components (e.g. inlet rings).
The dimensions must be requested from ebm-papst. If other air conduction geometries are used on the installation side, the ebm-papst evaluation loses its validity/the conformity must be confirmed again.

The product does not fall within the scope of Regulation (EU) 2019/1781 due to the exception specified in Article 2 (2a) (motors completely integrated into a product).

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

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Technical description

Weight	30.04 kg
Size	400 mm
Motor size	150
Rotor surface	Painted black
Electronics housing material	Die-cast aluminum
Impeller material	Sheet aluminum
Support plate material	Sheet steel, galvanized
Support bracket material	Steel, painted black
Inlet nozzle material	Sheet steel, galvanized
Number of blades	5
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP55
Insulation class	"F"
Moisture (F) / Environmental (H) protection class	H1
Ambient temperature note	Occasional start-up at temperatures between -40°C and -25°C is permitted. For continuous operation at ambient temperatures below -25°C (such as refrigeration applications), use must be made of a fan design with special low-temperature bearings.
Max. permitted ambient temp. for motor (transport/storage)	+80 °C
Min. permitted ambient temp. for motor (transport/storage)	-40 °C
Installation position	See legend on product drawing
Condensation drainage holes	On rotor side
Mode	S1
Motor bearing	Ball bearing
Technical features	- Operation and alarm display with LED - External 15-50 VDC input (parameterization) - Alarm relay - Integrated PI controller - Configurable inputs/outputs (I/O) - MODBUS V6.3 - Motor current limitation - RS-485 MODBUS-RTU - Soft start - Voltage output 3.3-24 VDC, Pmax = 800 mW - Control interface with SELV potential safely disconnected from the mains - Thermal overload protection for electronics/motor - Line undervoltage / phase failure detection
Power Factor Correction (PFC)	Passive (through low-capacitance DC link)
EMC immunity to interference	According to EN 61000-6-2 (industrial environment)
EMC interference emission	According to EN 61000-6-3 (household environment), except EN 61000-3-2 for professionally used equipment with a total rated power greater than 1 kW
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	<= 3.5 mA
Electrical hookup	Terminal box

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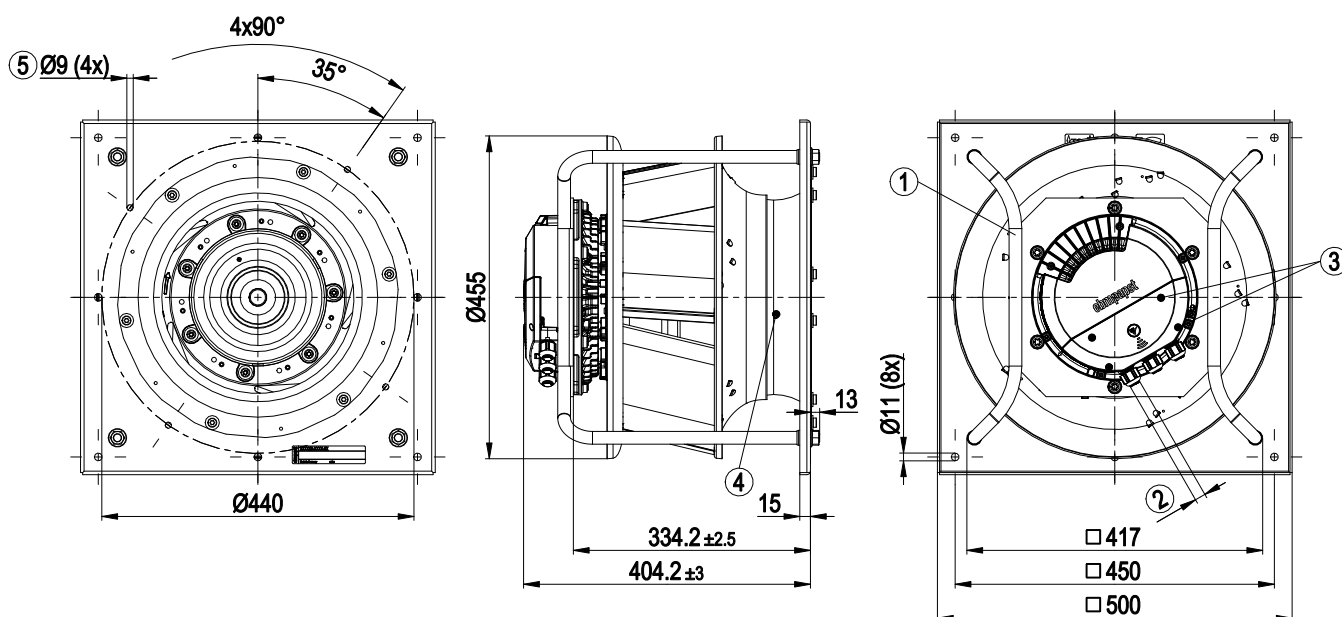
Protection class assignment	I; If a protective earth is connected. The built-in component has several local protection class assignments. The final protection class is determined by the intended installation.
Conformity with standards	EN 61800-5-1; CE; UKCA
Approval	EAC; UL 1004-7 + 60730-1; CSA C22.2 No. 77 + CAN/CSA-E60730-1

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Product drawing



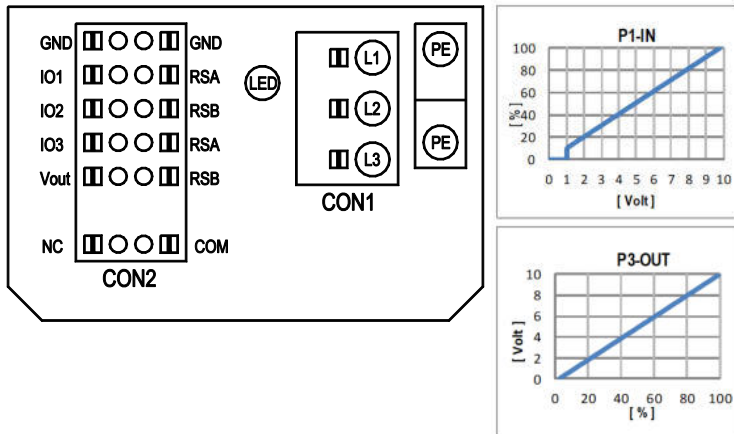
1	Installed position: shaft horizontal (install support struts only vertically as illustrated) or rotor on bottom; rotor on top on request
2	Cable diameter min. 4 mm, max. 10 mm, tightening torque 4 ± 0.6 Nm (The tightening torque is designed for PVC cables. If the cable materials are different, the tightening torque may have to be adjusted)
3	Tightening torque 1.5 ± 0.2 Nm
4	Inlet ring with pressure tap (k-factor: 188)
5	Attachment holes for FlowGrid 35505-2-2957 (not included in scope of delivery)

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Connection diagram



No.	Conn.	Designation	Function/assignment
	CON1	L1, L2, L3	Power supply, phase, see nameplate for voltage range
	PE	PE	Protective earth
	CON2	RSA	RS485 interface for MODBUS, RSA; SELV
	CON2	RSB	RS485 interface for MODBUS, RSB; SELV
	CON2	GND	Reference ground for control interface, SELV
	CON2	IO1	Function parameterizable (see "Optional interface functions" table) Factory setting: Digital input - high active, function: Disable input, SELV - inactive: Pin open or applied voltage < 1.5 VDC - active: applied voltage 3.5-50 VDC Reset function: Triggering of error reset on change of state from "enabled" to "disabled"
	CON2	IO2	Function parameterizable (see "Optional interface functions" table) Factory setting: Analog input 0-10 V / PWM, Ri=100 kΩ, function: Set value Characteristic curve parameterizable (see input characteristic curve P1-IN), SELV
	CON2	IO3	Function parameterizable (see "Optional interface functions" table) Factory setting: Analog output 0-10 V, max. 5 mA, function: Fan modulation level Characteristic curve parameterizable (see output characteristic curve P3-OUT), SELV
	CON2	Vout	Voltage output 3.3-24 VDC ±5%, Pmax=800 mW, voltage parameterizable Factory setting: 10 VDC short-circuit-proof, supply for external devices, SELV alternatively: 15-50 VDC input for parameterization via MODBUS without line voltage
	CON2	COM	Status relay, floating status contact, common connection, contact rating 250 VAC / 2 A (AC1) / min. 10 mA, reinforced insulation on supply side and on control interface side
	CON2	NC	Status relay, floating status contact, break for failure
		LED	green: status = good, ready for operation orange: status = warning red: status = failure
		P1-IN	Input characteristic curve
		P3-OUT	Output characteristic curve

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Terminal/plug assignment

configurable IO functions: normal/inverse	MODBUS Register for IO mode configuration	electrical specification	configurable IO mode												CON2											
			Din1 (active high): digital input	active: applied voltage 3.5-50VDC, SELV not active: pin open or applied voltage < 1.5VDC											D158 [0]											
IO1		Ain1 0-10V/PWM: analog input Tach out (open collector output) Diagnostics out (open collector output)	RI = 100K, characteristic curve parameterizable, f _{PWM} = 1k...10KHz SELV Umax = 50VDC, Imax = 20mA SELV Umax = 50VDC, Imax = 20mA SELV											D158 [2] D158 [5] D158 [6]												
			Din2 (active high): digital input	active: applied voltage 3.5-50VDC, SELV not active: pin open or applied voltage < 1.5VDC											D159 [0]											
				Ain2 0-10V/PWM: analog input Ain2 4-20mA: analog input	RI = 100K, characteristic curve parameterizable, f _{PWM} = 1k...10KHz SELV RI = 125R, characteristic curve parameterizable, SELV											D159 [2] D159 [3]										
					Din3 (active high): digital input	active: applied voltage 3.5-50VDC, SELV not active: pin open or applied voltage < 1.5VDC											D15A [0]									
IO3		Din3 (active low): digital input PWMIn3: digital input, idle level high PWMIn3: digital input, idle level low	active: applied voltage < 1.5VDC, SELV not active: pin open or applied voltage 3.5-50VDC PWM = 40Hz - 10KHz, characteristics parameterizable active: pin open or applied voltage 3.5-50VDC not active: applied voltage < 1.5VDC, SELV 40Hz - 10KHz, characteristics parameterizable active: applied voltage 3.5-50VDC											D15A [1] D15A [7] D15A [8]												
			Aout3 0-10V: analog output Tacho out (pulses): analog output Diagnostics out (pulses)	function parameterizable, max. 5mA, max output frequency 300Hz SELV 0-10V max. 5mA, max output frequency 300Hz SELV 0-10V max. 5mA, max output frequency 300Hz SELV											D15A [4] D15A [5] D15A [6]											
				MODBUS RTU, specification V6.3, SELV																						
				RSA RSB	RS485 bus connection, voltage output	voltage parameterizable 3.3...24VDC +/- 5%, Pmax=800mW, short-circuit-proof, supply for external devices, SELV											D16E [-.]									
Vout	alternatively: Input auxiliary power supply for parameterization via RS485/MODBUS RTU without line voltage	15...50VDC																								

configurable option
For further information and additional functions see EC Control Software, Fan-Set-App, or MODBUS Parameter Specification V6.3

◦ configurable option

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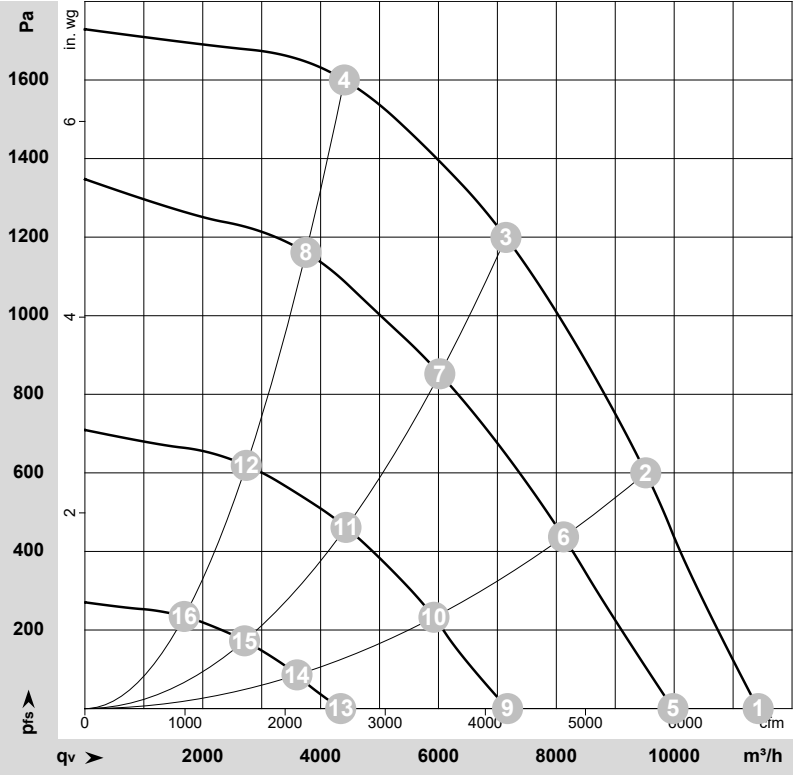
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Curves: Air performance 50 Hz



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

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Date: 2026-06-08
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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

	Wired	U	f	n	P _{ed}	I	LpA _{in}	LwA _{in}	LwA _{out}	q _v	P _{fs}	q _v	P _{fs}
		V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	dB(A)	m³/h	Pa	cfm	in. wg
1	3~	400	50	2800	2291	3.54	91	98	100	11425	0	6725	0.00
2	3~	400	50	2800	3219	4.92	83	91	96	9520	600	5600	2.41
3	3~	400	50	2800	3650	5.50	78	86	93	7145	1200	4205	4.82
4	3~	400	50	2800	3429	5.23	82	89	95	4405	1600	2590	6.42
5	3~	400	50	2455	1579	2.51	87	94	96	9980	0	5875	0.00
6	3~	400	50	2375	2009	3.13	79	87	91	8120	441	4780	1.77
7	3~	400	50	2360	2200	3.42	73	81	88	6025	855	3545	3.43
8	3~	400	50	2380	2133	3.32	77	84	89	3750	1163	2210	4.67
9	3~	400	50	1770	665	1.24	78	85	88	7175	0	4220	0.00
10	3~	400	50	1745	846	1.48	70	78	83	5925	236	3485	0.95
11	3~	400	50	1735	931	1.59	65	73	80	4430	463	2610	1.86
12	3~	400	50	1740	891	1.54	68	75	81	2740	620	1610	2.49
13	3~	400	50	1090	199	0.56	65	73	75	4340	0	2555	0.00
14	3~	400	50	1075	237	0.62	58	66	72	3600	87	2120	0.35
15	3~	400	50	1070	256	0.66	54	62	68	2710	173	1595	0.69
16	3~	400	50	1070	248	0.64	55	62	69	1685	235	990	0.94

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