

KARTA KATALOGOWA

R3G250-AK44-69

Wentylator promieniowy EC, łopatki zakrzywione do tyłu, jednostronnie ssący

Producent: ebm-papst


Dane znamionowe

Napięcie znamionowe	1~ 230 V
Częstotliwość	50/60 Hz
Prędkość obrotowa	3150 obr/min
Pobór mocy	380 W
Pobór prądu	1,65 A
Maks. wydajność	2075 m³/h
Maks. ciśnienie statyczne	750 Pa
Temperatura otoczenia	-25...+40 °C

Budowa

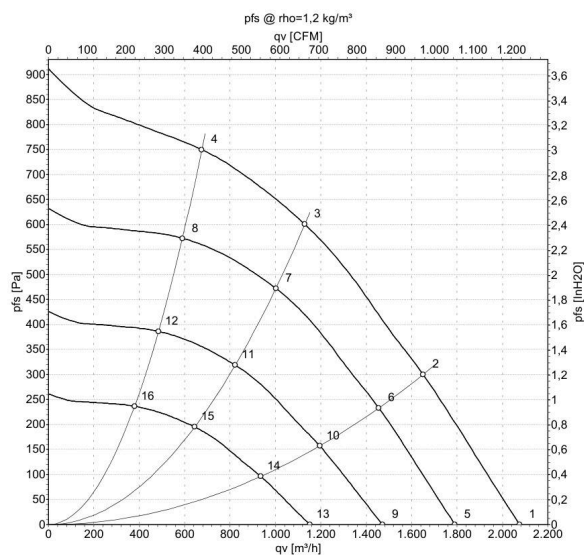
Średnica wirnika	250 mm
Materiał wirnika	stal ocynkowana
Liczba łopatek	11
Stopień ochrony	IP54
Klasa izolacji	B
Zabezpieczenie silnika	termik (TOP)
Masa	4,9 kg

Dane ErP (UE 327/2011)

Sprawność całkowita	53,9 %
Przepływ w pkt. optymalnym	1055 m³/h
Przyrost ciśnienia	606 Pa
Regulacja obrotów	tak (MODBUS)

Charakterystyka przepływowa

Curves: Air performance 50 Hz



Measurement: LU-78471-1

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.

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R3G250-AK44-69

EC centrifugal fan

backward-curved, single-intake


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General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen

Amtsgericht (court of registration) Stuttgart · HRB 590142

Nominal data

Type	R3G250-AK44-69	
Motor	M3G084-DF	
Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50/60
Method of obtaining data		ml
Speed (rpm)	min ⁻¹	3150
Power consumption	W	380
Current draw	A	1.65
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	40

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}	%	53.9	46.9	09 Power consumption P_{ed}	kW	0.36
02 Measurement category		A		09 Air flow q_v	m ³ /h	1055
03 Efficiency category		Static		09 Pressure increase p_{fs}	Pa	606
04 Efficiency grade N		69	62	10 Speed (rpm) n	min ⁻¹	3165
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-78471



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Technical description

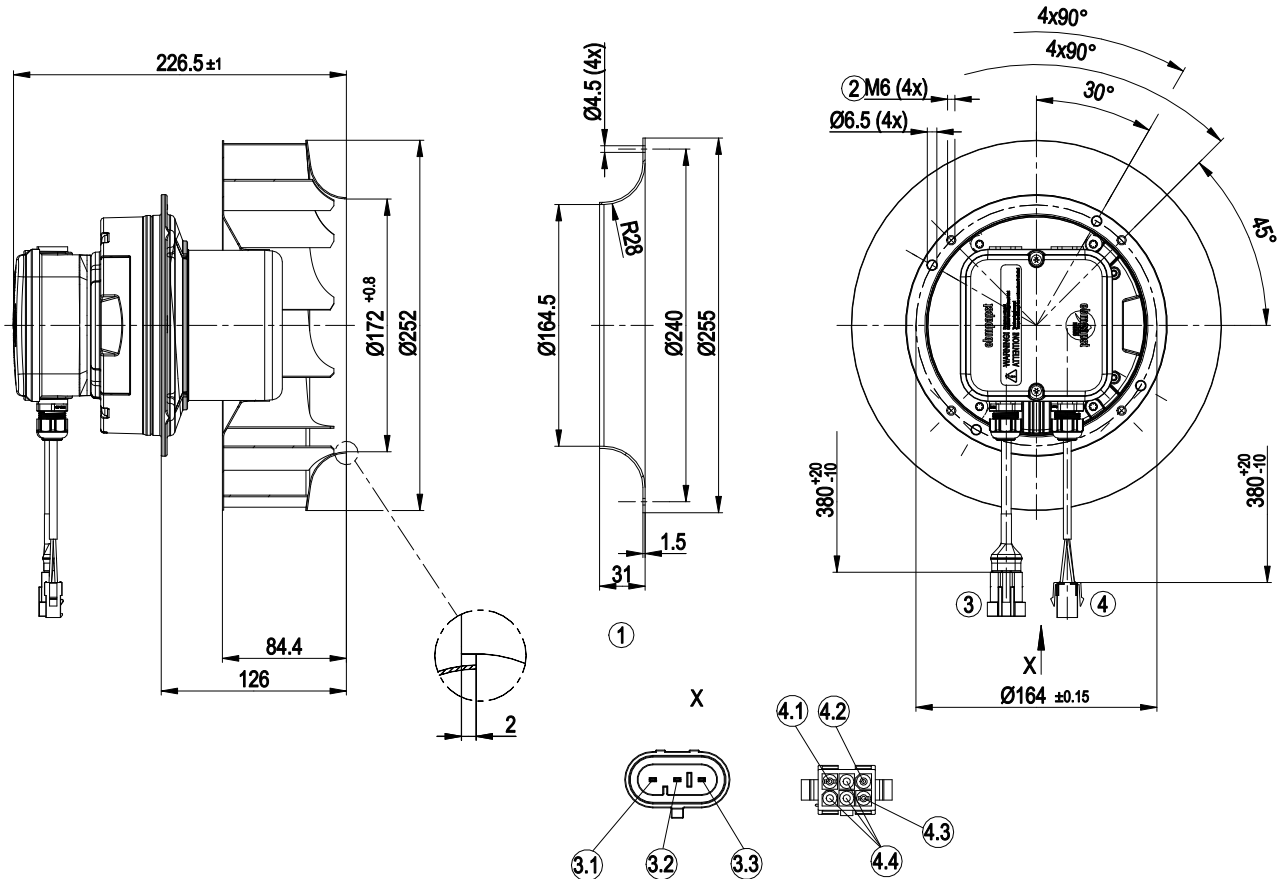
Weight	4.9 kg
Size	250 mm
Motor size	84
Rotor surface	Painted black
Electronics housing material	Die-cast aluminum
Impeller material	Sheet steel, galvanized
Number of blades	11
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP54
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	H1
Max. permitted ambient temp. for motor (transport/storage)	+80 °C
Min. permitted ambient temp. for motor (transport/storage)	-40 °C
Installation position	Shaft horizontal or rotor on top; rotor on bottom on request
Condensation drainage holes	None
Mode	S1
Motor bearing	Ball bearing
Technical features	- Power limiter - Motor current limitation - Emergency operation, standstill on cable break - PFC, active - RS-485 MODBUS-RTU, 38,400 baud, no parity - Soft start - Control interface with SELV potential safely disconnected from the mains - Thermal overload protection for electronics/motor - Line undervoltage / phase failure detection
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	<= 3.5 mA
Electrical hookup	Connector with cable
Motor protection	Thermal overload protector (TOP) internally connected
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 61800-5-1

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Product drawing

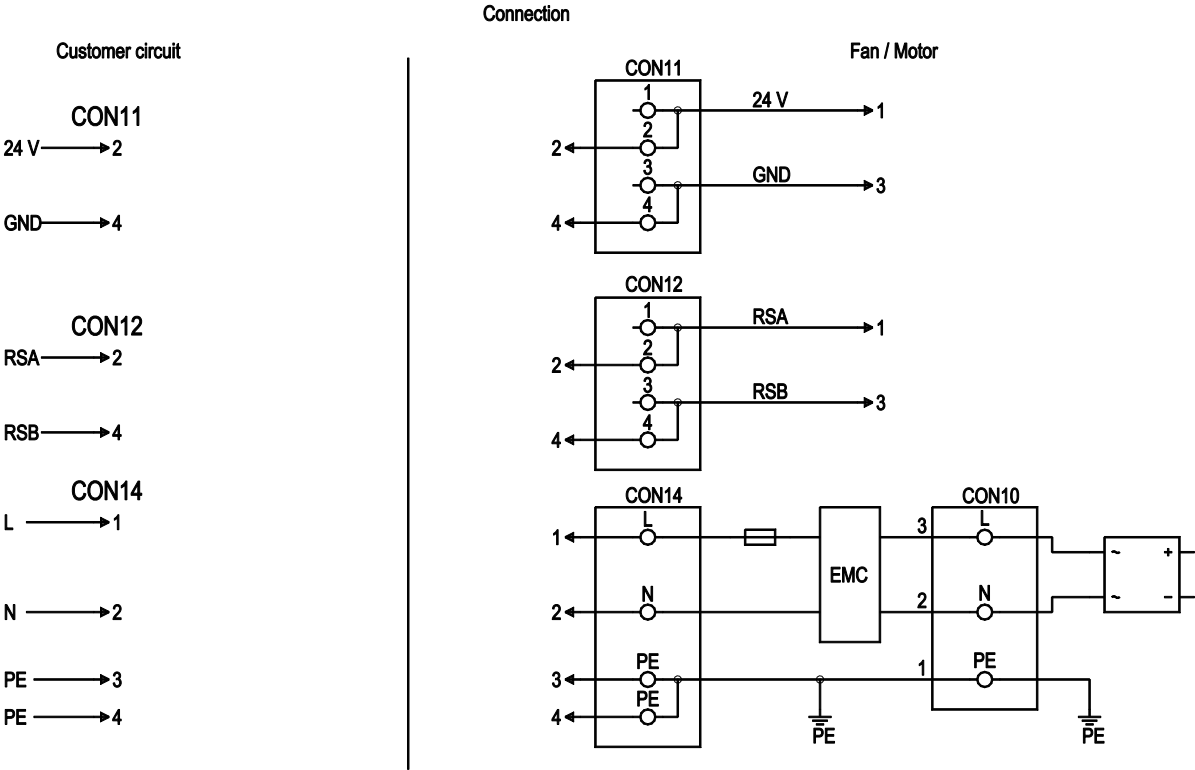


No.	Conn.	Designation	Function/assignment
		1	Accessory part: Inlet ring 96359-2-4013, not included in scope of delivery
		2	Max. clearance for screw 10 mm
		3	Cable PVC AWG18, connector housing AMP 282105-1 and 3x flat plug 282109-1 with seal 281934-2 crimped.
		3.1	L
		3.2	N (blue)
		3.3	PE (green/yellow)
		4	Cable PVC AWG22, connector housing AMP 794940-1, 3x plug pin 170360-3 with seal 794758-1 and 3x dummy plug 794995-1 crimped.
		4.1	RSA (yellow)
		4.2	GND (blue)
		4.3	RSB (red)
		4.4	Dummy plug

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Connection diagram



No.	Conn.	Designation	Function/assignment
CON 14	1, 2	L, N	Power supply 50/60 Hz
CON 14	3, 4	PE	Protective earth terminal
CON 12	2	RSA	RS485 interface for MODBUS, RSA
CON 12	4	RSB	RS485 interface for MODBUS, RSB
CON 11	2	+24 V	Parameter-setting input 24 VDC ±15%, Isink max. 40 mA, external feed
CON 11	4	GND	Reference ground for interface, SELV

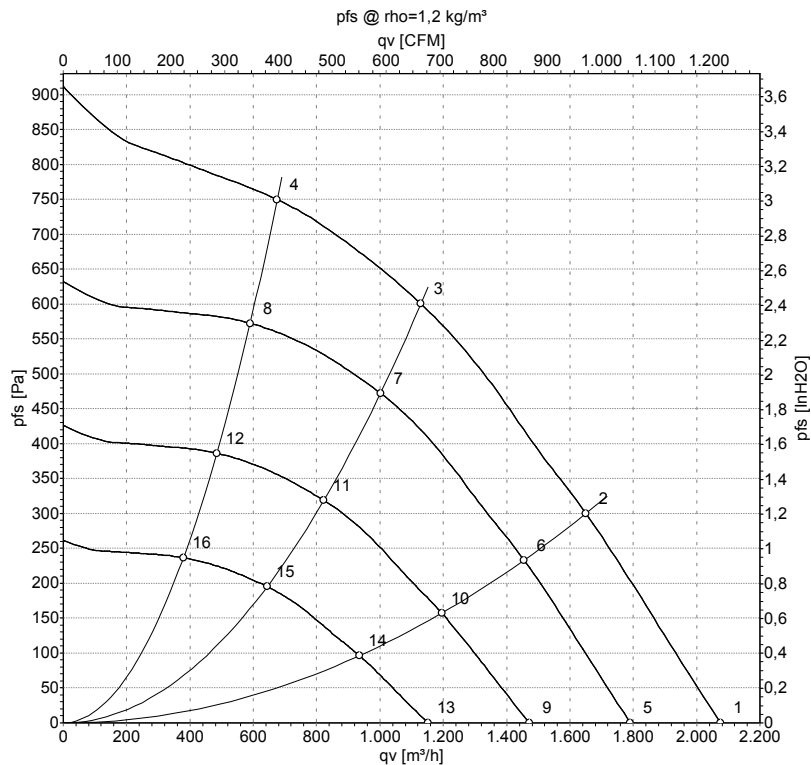


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Measured values

	U	f	n	P _{ed}	I	q _v	p _{fs}	q _v	p _{fs}
	V	Hz	min ⁻¹	W	A	m³/h	Pa	cfm	in. wg
1	230	50	3245	259	1.13	2075	0	1220	0.00
2	230	50	3175	335	1.46	1650	300	970	1.20
3	230	50	3150	380	1.65	1130	600	665	2.41
4	230	50	3205	330	1.44	675	750	395	3.01
5	230	50	2800	166	0.73	1790	0	1055	0.00
6	230	50	2800	230	1.00	1455	234	855	0.94
7	230	50	2800	260	1.13	1000	472	590	1.89
8	230	50	2800	220	0.96	590	572	345	2.30
9	230	50	2300	92	0.40	1470	0	865	0.00
10	230	50	2300	127	0.56	1195	158	705	0.63
11	230	50	2300	144	0.63	825	319	485	1.28
12	230	50	2300	122	0.53	485	386	285	1.55
13	230	50	1800	44	0.19	1150	0	675	0.00
14	230	50	1800	61	0.27	935	97	550	0.39
15	230	50	1800	69	0.30	645	195	380	0.78
16	230	50	1800	59	0.25	380	237	225	0.95

U = Voltage · f = Frequency · n = Speed (rpm) · P_{ed} = Power consumption · I = Current draw · q_v = Air flow · p_{fs} = Pressure increase

