

R3G250-RO06-71

EC centrifugal fan - RadiCal

®

backward-curved

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Amtsgericht (court of registration) Stuttgart · HRB 590142



Nominal data

Type	R3G250-RO06-71	
Motor	M3G084-DF	
Phase		1~
Nominal voltage	VAC	230
Nominal voltage range	VAC	200 .. 277
Frequency	Hz	50/60
Method of obtaining data		ml
Speed (rpm)	min ⁻¹	3400
Power consumption	W	385
Current draw	A	2.5
Min. ambient temperature	°C	-25
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 ErP directive

Installation category	A
Efficiency category	Static
Variable speed drive	Yes
Specific ratio *	1.01

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

		Actual	Req. 2013	Req. 2015
Overall efficiency η_{eg}	%	56.9	43.1	47.1
Efficiency grade N		71.8	58	62
Power consumption P_{ed}	kW	0.38		
Air flow q_v	m ³ /h	1180		
Pressure increase p_{fs}	Pa	601		
Speed (rpm) n	min ⁻¹	3395		

Data obtained at optimum efficiency level.
The ErP data is determined using a motor-impeller combination in a standardized measurement setup.

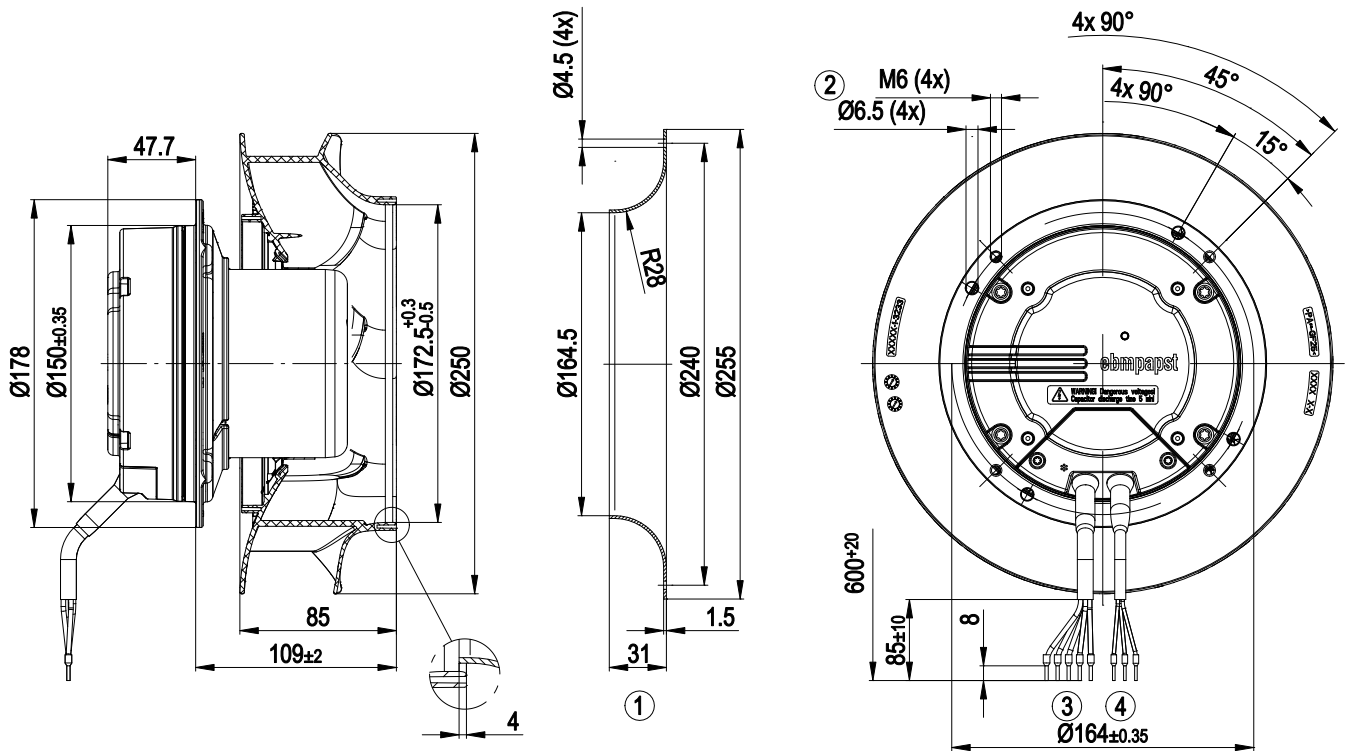
LU-130950



Technical description

Weight	3.9 kg
Motor size	250 mm
Rotor surface	Painted black
Electronics housing material	Die-cast aluminum
Impeller material	PA plastic
Number of blades	7
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP 54
Insulation class	«B»
Moisture protection class	F3-1
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	—
Mode	S1
Motor bearing for motor	Ball bearing
Technical features	- Output 10 VDC, max. 1.1 mA - Alarm relay - Motor current limitation - Soft start - Control input 0-10 VDC / PWM - Control interface with SELV - Thermal overload protection for electronics/motor - Line undervoltage detection
EMC immunity to interference	According to EN 61000-6-2 (industrial environment)
EMC circuit feedback	According to EN 61000-3-2/3
EMC interference emission	According to EN 61000-6-3 (household environment)
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	≤ 3.5 mA
Motor protection	Thermal overload protector (TOP) internally connected
With cable	Variable
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 61800-5-1; CE
Approval	CCC; EAC; UL 2111; CSA C22.2 №77

Product drawing

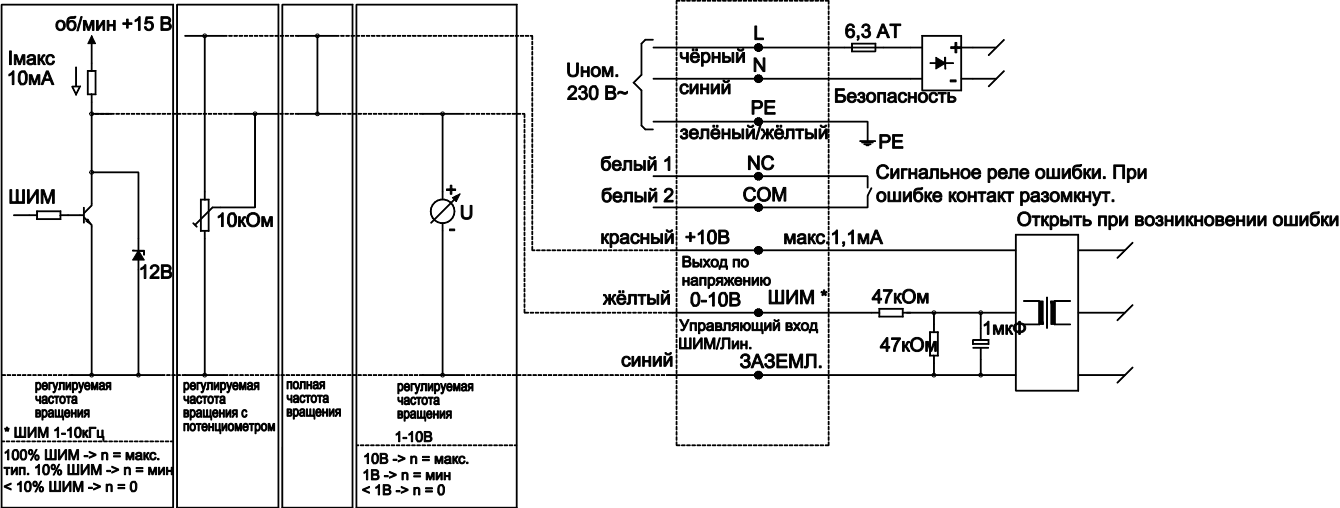


- | | |
|---|---|
| 1 | Accessory part: inlet ring 96359-2-4013 not included in scope of delivery |
| 2 | Max. clearance for screw 10 mm |
| 3 | Cable PVC AWG 18, 5x crimped ferrules |
| 4 | Cable PVC AWG 22, 3x crimped ferrules |

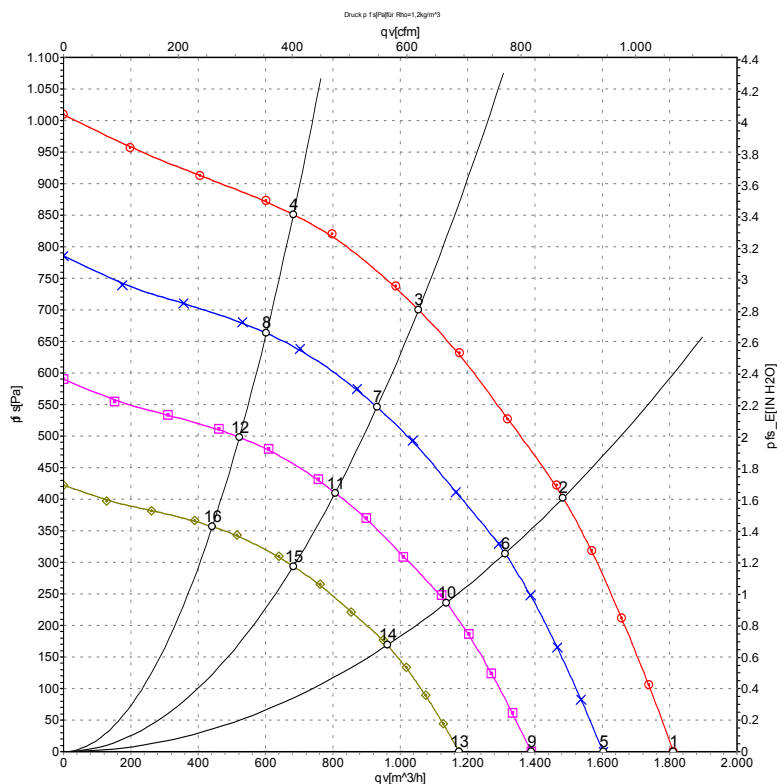
Connection diagram

Варианты управления

Указания по применению для различных вариантов управления



Curves: Air performance 50 Hz



Measurement: LU-130950

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 must be checked in the installed unit.

Measured values

	U	f	n	P _{ed}	I	qv	P _{fs}
	V	Hz	min ⁻¹	W	A	m³/h	Pa
1	230	50	3400	302	1.98	1810	0
2	230	50	3400	360	2.36	1485	400
3	230	50	3400	385	2.50	1055	700
4	230	50	3400	346	2.27	680	850
5	230	50	3000	209	1.37	1605	0
6	230	50	3000	249	1.63	1310	315
7	230	50	3000	262	1.71	930	546
8	230	50	3000	238	1.56	600	663
9	230	50	2600	136	0.89	1390	0
10	230	50	2600	162	1.06	1135	237
11	230	50	2600	171	1.11	805	410
12	230	50	2600	155	1.01	520	498
13	230	50	2200	83	0.54	1175	0
14	230	50	2200	98	0.64	960	170
15	230	50	2200	103	0.67	685	294
16	230	50	2200	94	0.61	440	357

U = Power supply · f = Frequency · n = Speed (rpm) · P

ed = Power consumption · I = Current draw · qv = Air flow · p

fs = Pressure increase