

R3G630-RB32-79 ebmpapst Datasheet

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## Nominal data

Type	R3G630-RB32-79	
Motor	M3G150-IF	
Phase		3~
Nominal voltage	VAC	400
Nominal voltage range	VAC	380 .. 480
Frequency	Hz	50/60
Method of obtaining data		ml
Speed (rpm)	min <sup>-1</sup>	1300
Power consumption	W	2800
Current draw	A	4.2
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 Commission Regulation (EU) 327/2011

		Actual	Req. 2015			
01 Overall efficiency $\eta_{es}$	%	65	56	09 Power consumption $P_{ed}$	kW	2.67
02 Measurement category		A		09 Air flow $q_v$	m <sup>3</sup> /h	11140
03 Efficiency category		Static		09 Pressure increase $p_{fs}$	Pa	531
04 Efficiency grade N		71	62	10 Speed (rpm) n	min <sup>-1</sup>	1300
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 =  $1 + p_{fs} / 100\,000\text{ Pa}$ 

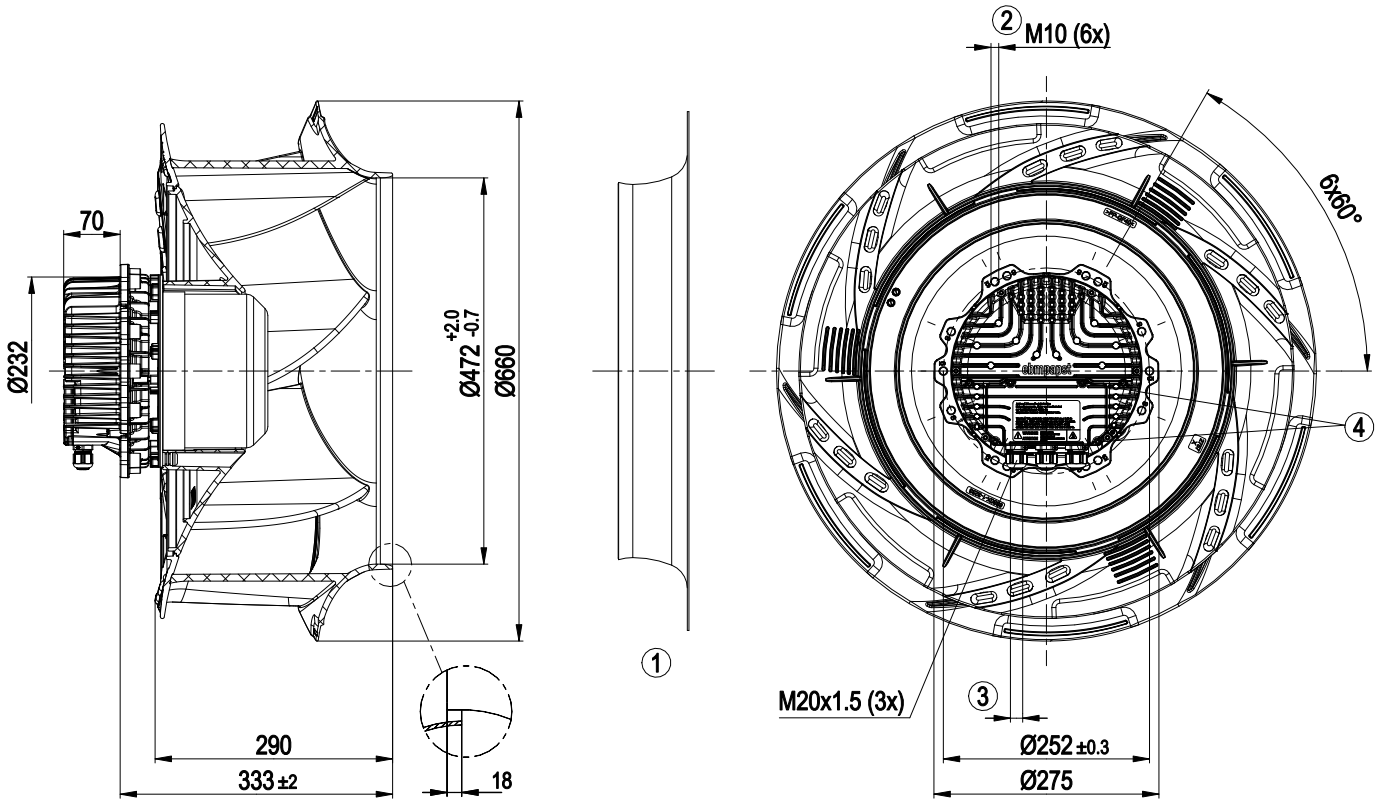
LU-146905



## Technical description

Weight	29 kg
Size	630 mm
Motor size	150
Rotor surface	Painted black
Electronics housing material	Die-cast aluminum
Impeller material	PP plastic
Number of blades	6
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP55
Insulation class	"F"
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 bottom; rotor on top on request
Condensation drainage holes	On rotor side
Mode	S1
Motor mounting	Ball bearing
Technical features	<ul style="list-style-type: none"> <li>- Output 10 VDC, max. 10 mA</li> <li>- Operation and alarm display</li> <li>- External 24 V input (parameter setting)</li> <li>- External release input</li> <li>- Alarm relay</li> <li>- Integrated PID controller</li> <li>- Motor current limitation</li> <li>- PFC, passive</li> <li>- RS-485 MODBUS-RTU</li> <li>- Soft start</li> <li>- EEPROM write cycles: 100,000 maximum</li> <li>- Control input 0-10 VDC / PWM</li> <li>- Control interface with SELV potential safely disconnected from the mains</li> <li>- Thermal overload protection for electronics/motor</li> <li>- Line undervoltage detection</li> </ul>
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
Motor protection	Reverse polarity and locked-rotor protection
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 61800-5-1; CE
Approval	EAC

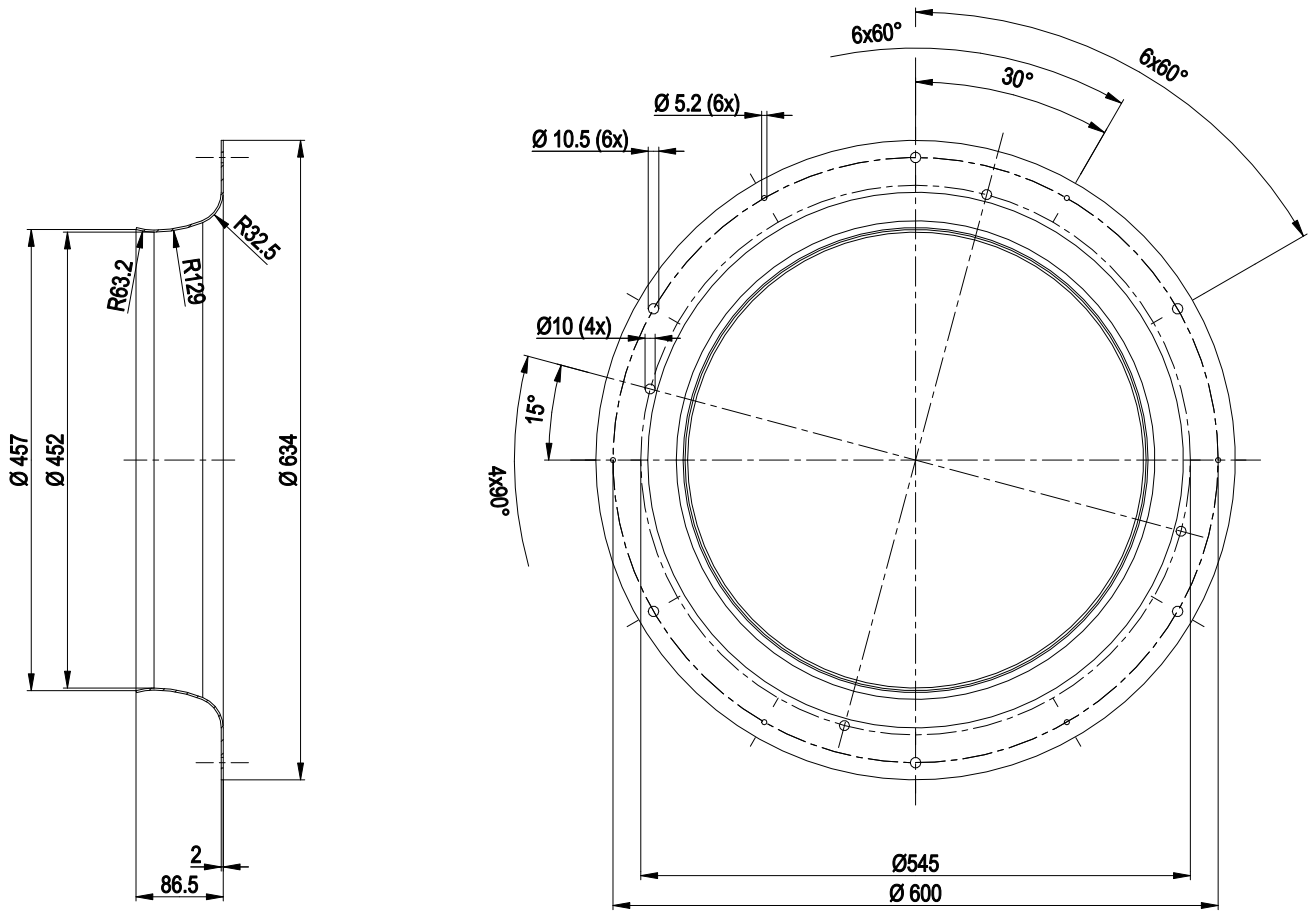
Product drawing



1	Accessory part: inlet ring 63300-2-4013 not included in scope of delivery
2	Max. clearance for screw 25 mm
3	Cable diameter min. 4 mm, max. 10 mm, tightening torque $4 \pm 0.6$ Nm
4	Tightening torque $3.5 \pm 0.5$ Nm



## Accessory part



Accessory part: inlet ring 63300-2-4013 not included in scope of delivery

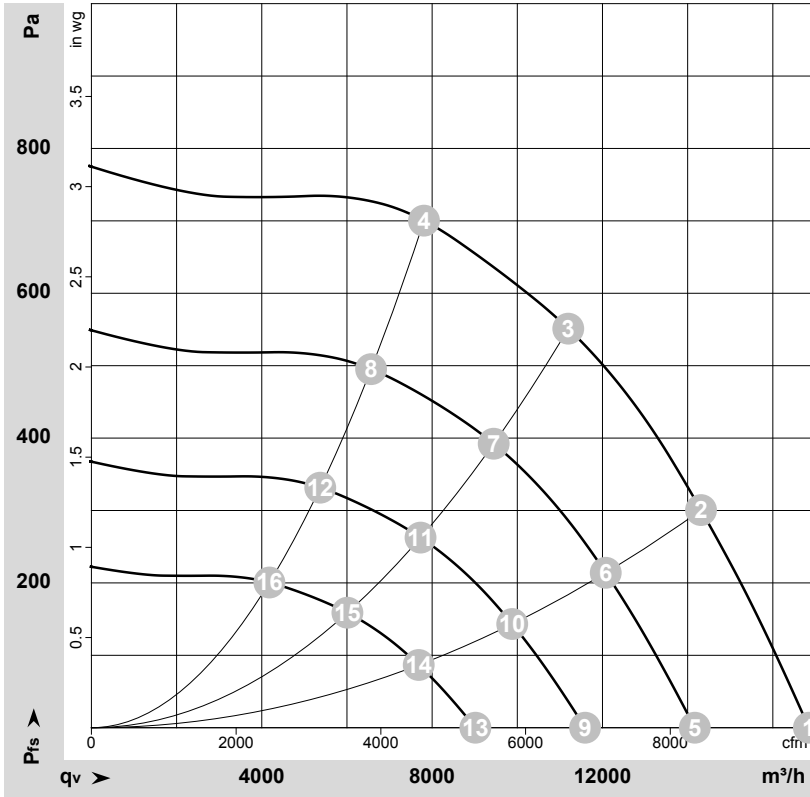




No.	Conn.	Designation	Function/assignment
KL3	8	Din1	Digital input 1: enable electronics; SELV Enable -> 5-50 VDC / 5-24 VAC Disable -> 0-1 VDC / 0-0.5 VAC or bridge to GND or open



## Curves: Air performance 50 Hz



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

Measurement: LU-164207-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebmpapst. 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 <sub>ed</sub>	I	LpA <sub>in</sub>	LwA <sub>in</sub>	LwA <sub>out</sub>	q <sub>v</sub>	p <sub>fs</sub>	q <sub>v</sub>	p <sub>fs</sub>
		V	Hz	min <sup>-1</sup>	W	A	dB(A)	dB(A)	dB(A)	m <sup>3</sup> /h	Pa	cfm	in. wg
1	Y	400	50	1300	1820	2.86	80	88	92	16845	0	9915	0.00
2	Y	400	50	1300	2455	3.79	74	81	87	14315	300	8425	1.20
3	Y	400	50	1300	2800	4.20	70	78	83	11195	550	6590	2.21
4	Y	400	50	1300	2711	4.17	72	79	84	7810	700	4595	2.81
5	Y	400	50	1100	1082	1.70	76	83	88	14170	0	8340	0.00
6	Y	400	50	1100	1478	2.28	70	77	82	12075	216	7110	0.87
7	Y	400	50	1100	1679	2.58	65	73	79	9445	395	5560	1.59
8	Y	400	50	1100	1611	2.48	68	75	80	6565	498	3865	2.00
9	Y	400	50	900	593	0.93	71	78	83	11590	0	6825	0.00
10	Y	400	50	900	809	1.25	65	72	77	9880	145	5815	0.58
11	Y	400	50	900	920	1.41	60	68	74	7730	264	4550	1.06
12	Y	400	50	900	882	1.36	62	70	75	5375	333	3160	1.34
13	Y	400	50	700	279	0.44	64	72	76	9015	0	5305	0.00
14	Y	400	50	700	381	0.59	58	66	71	7685	88	4525	0.35
15	Y	400	50	700	433	0.66	54	62	67	6010	160	3540	0.64
16	Y	400	50	700	415	0.64	56	63	69	4180	201	2460	0.81

Wired = Wiring · U = Power supply · f = Frequency · n = Speed (rpm) · P<sub>ed</sub> = Power consumption · I = Current draw · LpA<sub>in</sub> = Sound pressure level intake side · LwA<sub>in</sub> = Sound power level intake side  
 LwA<sub>out</sub> = Sound power level outlet side · q<sub>v</sub> = Air flow · p<sub>fs</sub> = Pressure increase

