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info1@de.ebmpapst.comwww.ebmpapst.com**Nominal data**

Type	R3G190-RC05-03	
Motor	M3G055-BI	
Phase		1~
Nominal voltage	VAC	230
Nominal voltage range	VAC	200 .. 240
Frequency	Hz	50/60
Type of data definition		ml
Speed	min ⁻¹	3200
Power input	W	83
Current draw	A	0.75
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	+60

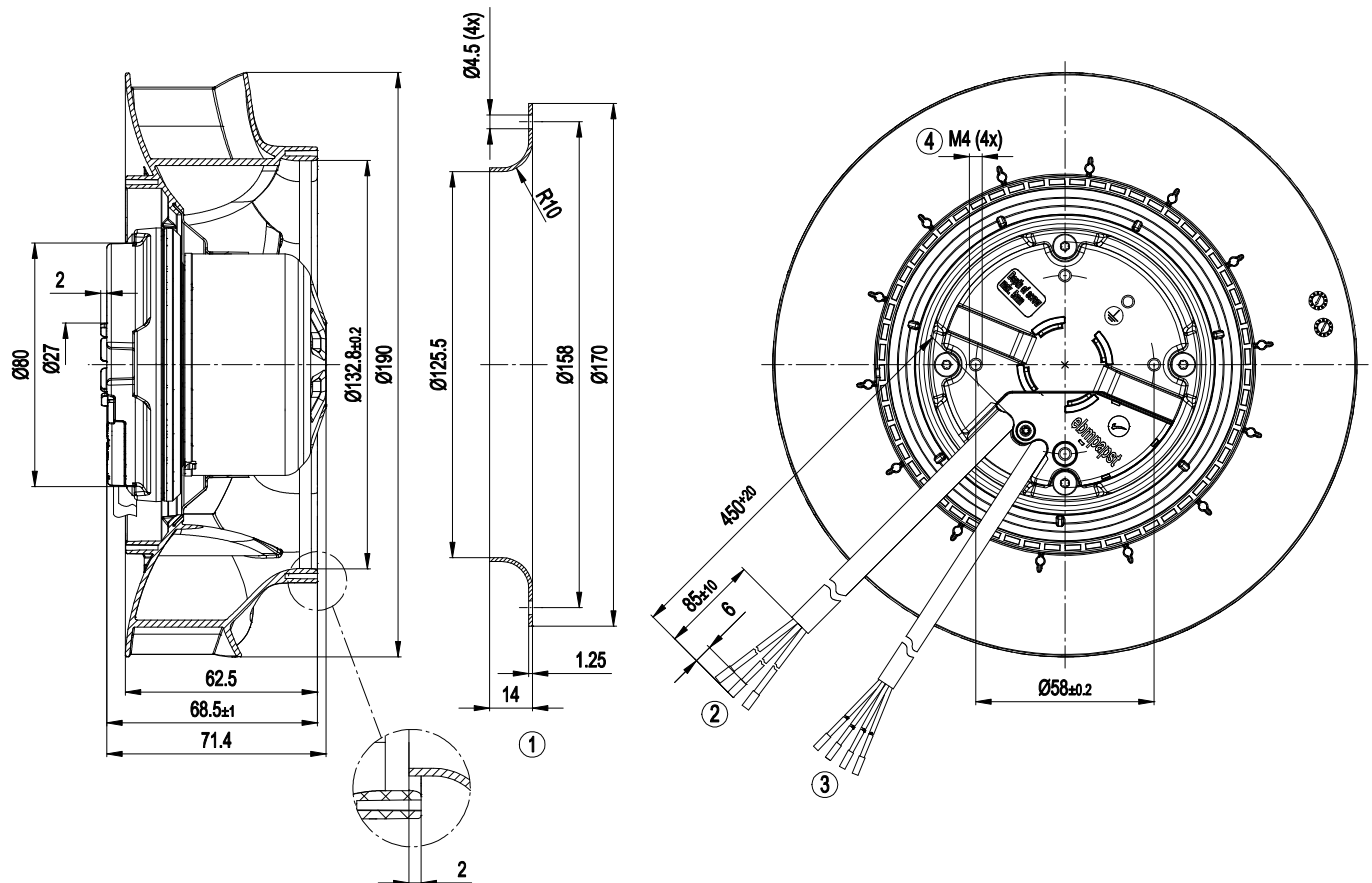
ml = max. load · me = max. efficiency · rfa = running at free air · cs = customer specs · cu = customer unit
Subject to alterations



Technical features

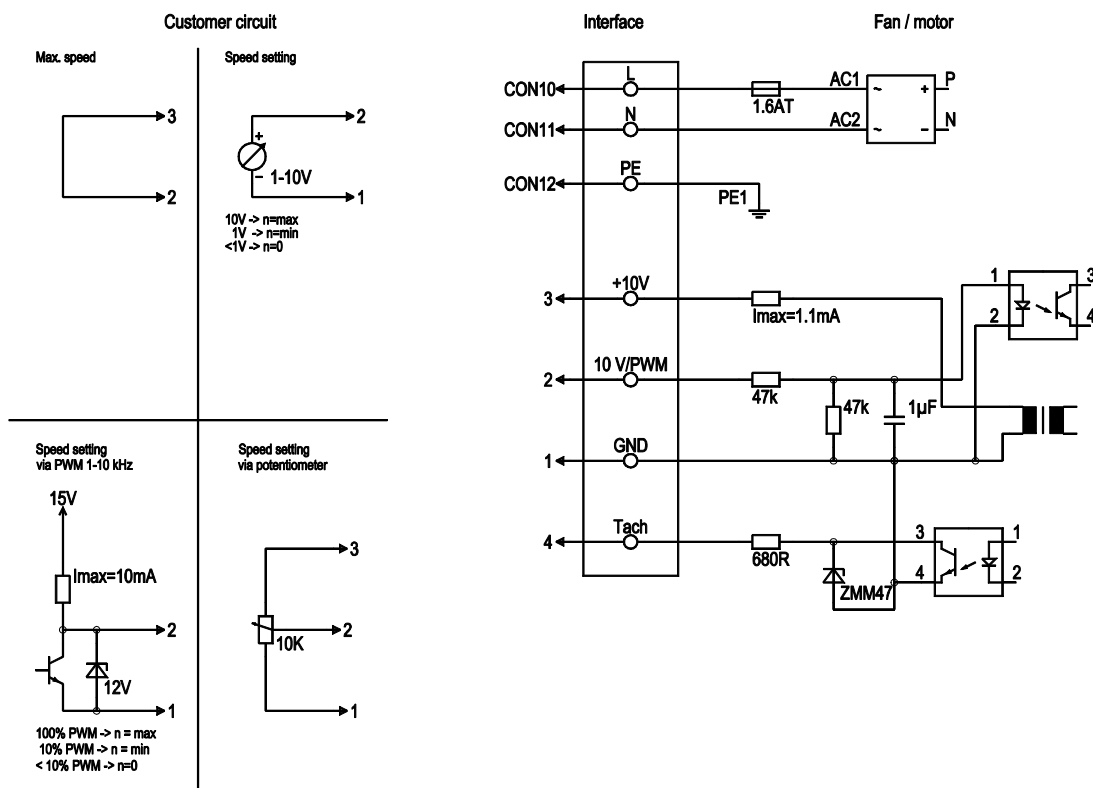
Leakage current	<= 3.5 mA
Size	190 mm
Operation mode	S1
Direction of rotation	Clockwise, seen on rotor
Mounting position	Any
EMC harmonics	Acc. to EN 61000-3-2/3
EMC interference emission	Acc. to EN 61000-6-3 (household environment)
EMC interference immunity	Acc. to EN 61000-6-2 (industrial environment)
Insulation class	"B"
Cable exit	Variable
Condensate discharge holes	None, open rotor
Motor bearing	Ball bearing
Mass	1.06 kg
Material of electronics housing	Die-cast aluminium
Material of impeller	Plastic PA6, fibreglass-reinforced
Motor protection	Locked-rotor protection
Product conforming to standard	EN 60335-1
Surface of rotor	Thick layer passivated
Number of blades	7
Type of protection	IP 44; Depending on installation and position
Protection class	I
Technical features	- Output 10 VDC, max. 1.1 mA - Tach output - Soft start - Control input 0-10 VDC / PWM - Over-temperature protected motor
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C

Product drawing



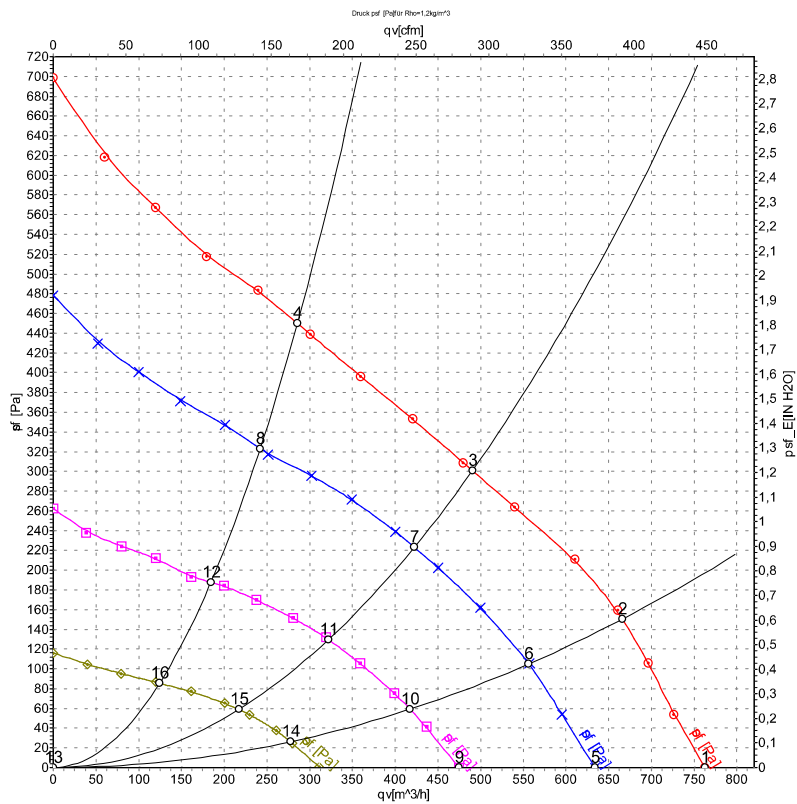
1	Accessory part: Inlet nozzle 09576-2-4013, not included in the standard scope of delivery
2	Connection line PVC AWG20, 3x brass lead tips crimped
3	Connection line PVC AWG22, 4 x brass lead tips crimped
3	Depth of screw max. 5 mm

Connection screen



Line	No.	Signal	Colour	Function / assignment
	CON10	L	black	Power supply 230 VAC, 50-60 Hz, see type plate for voltage range
	CON11	N	blue	Neutral conductor
	CON12	PE	green/yellow	Protective earth
	1	GND	blue	GND - Connection for control interface
	2	0- 10V PWM	yellow	Control input 0 - 10 V or PWM, electrically isolated
	3	10V/ max 1.1mA	red	Voltage output 10V/ 1.1mA, electrically isolated, not short-circuit-proof.
	4	Tacho	white	Tach output: open collector, 1 pulse per revolution, electrically isolated

Charts: Air flow 50 Hz



Measurement: LU-128651
Measurement: LU-128660
Measurement: LU-128662
Measurement: LU-128663

Air performance measured as per ISO 5801 Installation Category A. For detailed information on the measuring set-up, please contact ebm-papst. Suction-side noise levels: LwA measured as per ISO 13347 / LpA measured with 1m distance to fan axis. The values given are valid under the measuring conditions mentioned above and may vary according to the actual installation situation. With any deviation from the standard set-up, the specific values have to be checked and reviewed with the unit installed.

Measured values

	U	f	n	P _e	I	LwA _{in}	qv	P _{st}
	V	Hz	min ⁻¹	W	A	dB(A)	m³/h	Pa
1	230	50	3435	80	0.69	73	765	0
2	230	50	3365	84	0.71	68	665	150
3	230	50	3200	85	0.75	66	490	300
4	230	50	3310	85	0.73	70	285	450
5	230	50	2905	49	0.46		635	0
6	230	50	2860	51	0.46		555	107
7	230	50	2775	57	0.52		420	223
8	230	50	2815	54	0.49		240	323
9	230	50	2200	24	0.25		475	0
10	230	50	2170	25	0.25		415	59
11	230	50	2125	28	0.28		320	130
12	230	50	2155	26	0.26		185	188
13	230	50	1470	10.0	0.11		310	0
14	230	50	1465	11	0.12		280	26
15	230	50	1445	12	0.12		215	59
16	230	50	1460	11	0.13		125	86

