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Nominal data

Type	R3G133-RA01-03	
Motor	M3G045-AI	
Phase		1~
Nominal voltage	VAC	230
Nominal voltage range	VAC	200 .. 240
Frequency	Hz	50/60
Type of data definition		ml
Speed	min ⁻¹	3770
Power input	W	27
Current draw	A	0.27
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	+60

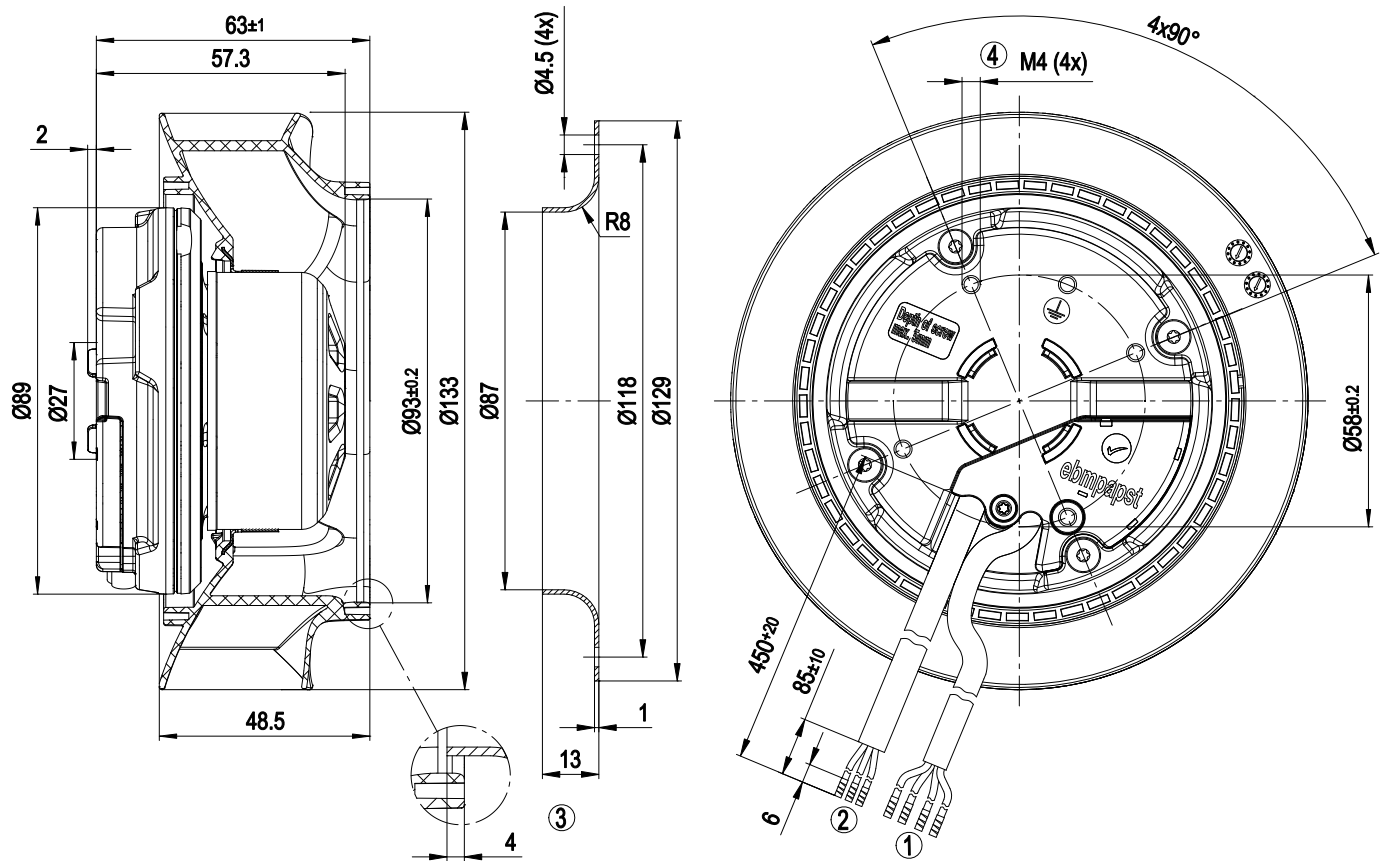
ml = max. load · me = max. efficiency · fa = running at free air · cs = customer specs · cu = customer unit
Subject to alterations



Technical features

Mass	0.5 kg
Size	133 mm
Surface of rotor	Thick layer passivated
Material of electronics housing	Die-cast aluminium
Material of impeller	Plastic PA6, fibreglass-reinforced
Number of blades	7
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 54; Depending on installation and position
Insulation class	"B"
Humidity class	F3-1
Max. permissible ambient motor temp. (transp./ storage)	+80 °C
Min. permissible ambient motor temp. (transp./storage)	-40 °C
Mounting position	Any
Condensate discharge holes	None, open rotor
Operation mode	S1
Motor bearing	Ball bearing
Technical features	- Output 10 VDC, max. 1.1 mA - Tach output - Soft start - Control input 0-10 VDC / PWM - Over-temperature protected electronics / motor
EMC interference immunity	Acc. to EN 61000-6-2 (industrial environment)
EMC harmonics	Acc. to EN 61000-3-2/3
EMC interference emission	Acc. to EN 61000-6-3 (household environment)
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	<= 3.5 mA
Motor protection	Locked-rotor protection
Cable exit	Variable
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1

Product drawing

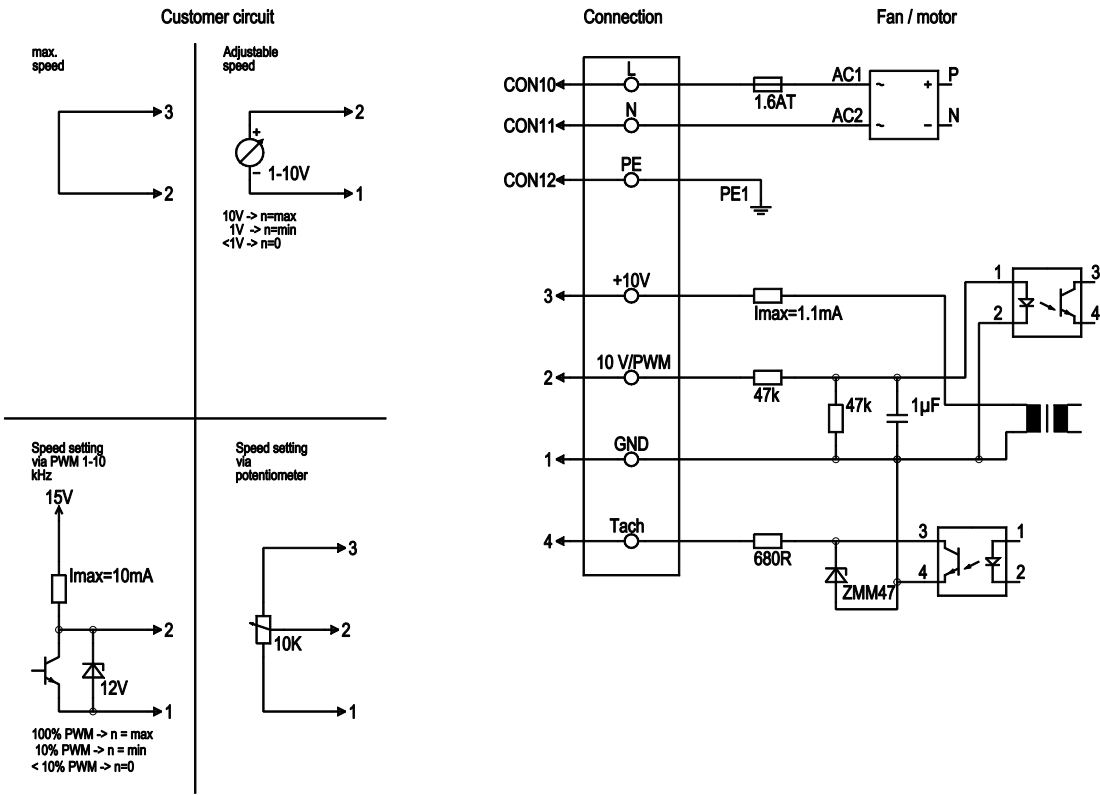


1	Control line PVC 4X AWG22, 4 x brass lead tips crimped
2	Connection line PVC 3G AWG20, 3x brass lead tips crimped
3	Accessory part: Inlet nozzle 09566-2-4013, not included in the standard scope of delivery
4	Depth of screw max. 5 mm

EC centrifugal fan - RadiCal

backward curved, single inlet

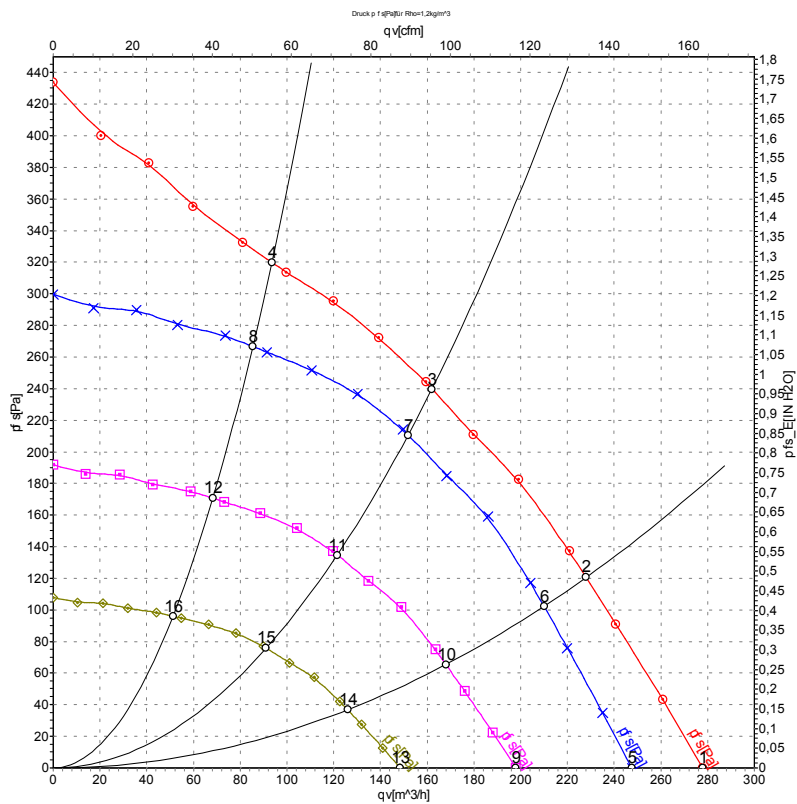
Connection screen



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	Tach	white	Tach output: open collector, 1 pulse per revolution, electrically isolated



Charts: Air flow 50 Hz



Measurement: LU-131806

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 _{ed}	I	LpA _{in}	LwA _{in}	qv	p _{fs}
	V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	m ³ /h	Pa
1	230	50	3930	24	0.23	58	66	280	0
2	230	50	3800	26	0.26	54	63	230	120
3	230	50	3770	27	0.27	52	61	160	240
4	230	50	3835	26	0.25	56	65	95	320
5	230	50	3500	17	0.16	55	64	250	0
6	230	50	3500	20	0.20	53	61	210	102
7	230	50	3500	22	0.22	51	59	150	211
8	230	50	3500	19	0.19	54	63	85	267
9	230	50	2800	8.5	0.08	50	59	200	0
10	230	50	2800	10	0.10	48	57	170	66
11	230	50	2800	11	0.11	46	55	120	135
12	230	50	2800	9.9	0.10	49	59	70	171
13	230	50	2100	3.6	0.04	44	53	150	0
14	230	50	2100	4.4	0.04	42	50	125	37
15	230	50	2100	4.8	0.05	39	48	90	76
16	230	50	2100	4.2	0.04	43	52	50	96

U = Supply voltage · f = Frequency · n = Speed · P_{ed} = Power input · I = Current draw · LpA_{in} = Sound pressure level inlet side · LwA_{in} = Sound power level inlet side · qv = Air flow
p_{fs} = Pressure increase

