

G3G190-RG19-11 ebmpapst Datasheet

sales@fansco.com

www.fansco.com

Nominal data

Type	G3G190-RG19-11	
Motor	M3G055-CF	
Phase		1~
Nominal voltage	VAC	230
Nominal voltage range	VAC	200 .. 240
Frequency	Hz	50/60
Method of obtaining data		ml
Speed (rpm)	min ⁻¹	3650
Power consumption	W	115
Current draw	A	0.9
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	60

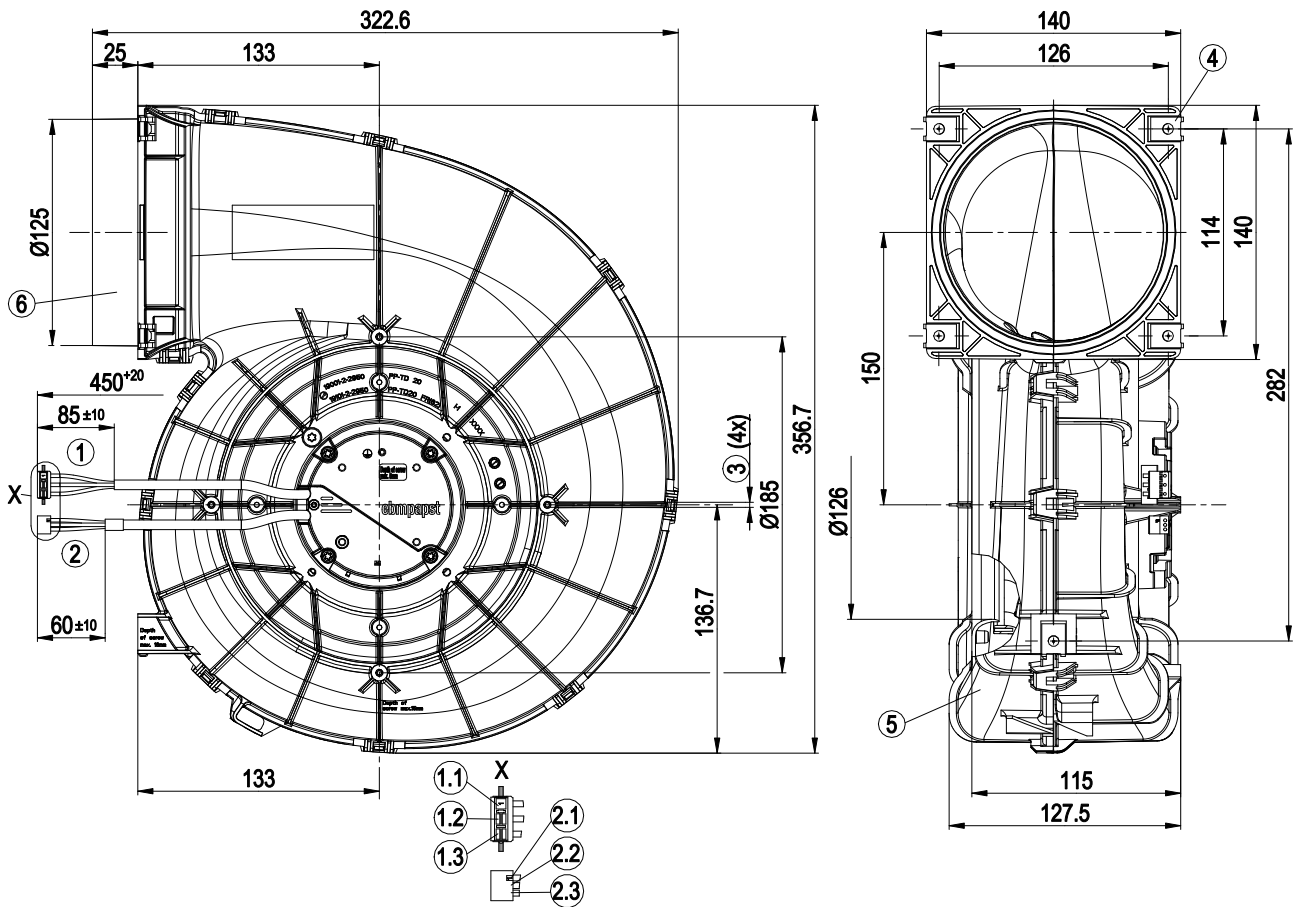
ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment
Subject to change



Technical description

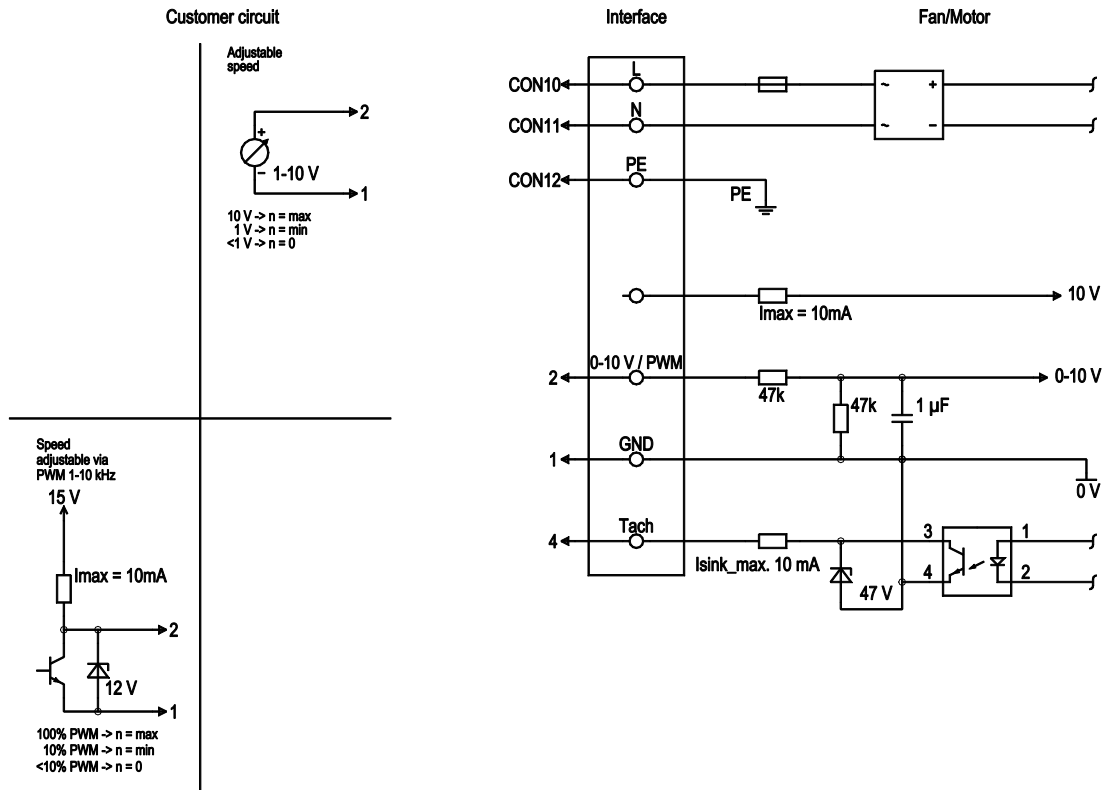
Weight	2 kg
Size	190 mm
Motor size	55
Rotor surface	Thick-film passivated
Impeller material	PA plastic
Housing material	PP plastic
Number of blades	7
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP54
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	H1
Max. permitted ambient temp. for motor (transport/storage)	+ 80 °C
Min. permitted ambient temp. for motor (transport/storage)	- 40 °C
Installation position	Any
Condensation drainage holes	None, open rotor
Mode	S1
Motor bearing	Ball bearing
Technical features	- Tach output - Power limiter - Motor current limitation - Soft start - Control input 0-10 VDC / PWM - Control interface with SELV potential safely disconnected from the mains - Overvoltage detection - Thermal overload protection for electronics/motor - Line undervoltage detection
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	<= 3.5 mA
Motor protection	Electronic motor protection
With cable	Variable
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1; CE

Product drawing



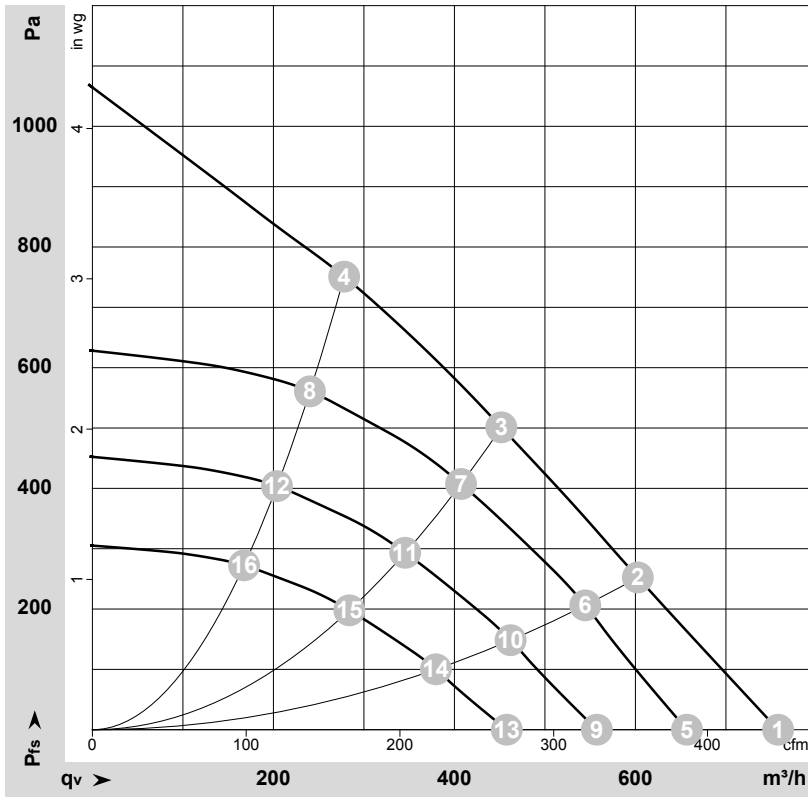
1	Cable PVC 3G 0.5 mm ²
	3-pole connector housing Stocko MFMP 7262-003-002-960-000-00-G
1.1	N (blue)
1.2	PE (green/yellow)
1.3	L (brown)
2	Cable PVC 3x 0.25 mm ²
	3-pole connector Lumberg 3510 03 K06 M12
2.1	GND (blue)
2.2	Tach (white)
2.3	0-10 V/PWM (yellow)

Connection diagram



No.	Conn.	Designation	Color	Function/assignment
	CON10	L	brown	Supply connection, power supply, phase, see nameplate for voltage range
	CON11	N	blue	Supply connection, power supply, neutral conductor, see nameplate for voltage range
	CON12	PE	green/yellow	Ground connection
	2	0- 10V PWM	yellow	0-10 V / PWM control input, $R_i=100\text{ k}\Omega$, SELV
	4	Tach	white	Tach output, open collector, 1 pulse per revolution, $I_{sink\ max} = 10\text{ mA}$, SELV
	1	GND	blue	Reference ground for control interface, SELV

Curves: Air performance 50 Hz



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

Measurement: LU-184313-1

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.

Measured values

	U	f	n	P _{ed}	I	LpA _{in}	LwA _{in}	q _v	p _{fs}	q _v	p _{fs}
	V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	m³/h	Pa	cfm	in. wg
1	230	50	3805	115	0.90	70	76	760	0	445	0.00
2	230	50	3650	115	0.90	65	71	605	250	355	1.00
3	230	50	3660	115	0.90	63	70	450	500	265	2.01
4	230	50	3815	115	0.90	67	73	280	750	165	3.01
5	230	50	3300	77	0.63	66	72	655	0	385	0.00
6	230	50	3300	89	0.74	63	69	545	208	320	0.84
7	230	50	3300	89	0.74	60	67	405	408	240	1.64
8	230	50	3300	74	0.62	63	69	240	563	140	2.26
9	230	50	2800	47	0.39	62	68	555	0	330	0.00
10	230	50	2800	54	0.45	58	64	460	150	270	0.60
11	230	50	2800	54	0.45	56	63	345	294	205	1.18
12	230	50	2800	45	0.38	59	65	205	405	120	1.63
13	230	50	2300	26	0.21	57	63	460	0	270	0.00
14	230	50	2300	30	0.25	53	60	380	101	225	0.41
15	230	50	2300	30	0.25	51	58	285	198	165	0.79
16	230	50	2300	25	0.21	54	60	170	273	100	1.10

U = Voltage · f = Frequency · n = Speed (rpm) · P_{ed} = Power consumption · I = Current draw · LpA_{in} = Sound pressure level intake side · LwA_{in} = Sound power level intake side
q_v = Air flow · p_{fs} = Pressure increase

