EC centrifugal fan

single-intake

Nominal data

Type	**G3G150-DA03-05**
Motor	**M3G055-AI**

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}	3611
Power consumption	W	42
Current draw	A	0.35
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	50

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

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Technical description

Weight	1.85 kg
Size	150 mm
Motor size	55
Rotor surface	Thick-film passivated
Terminal box material	PA plastic
Impeller material	Sheet steel, rust- and acid-resistant
Housing material	Sheet steel, aluminized
Number of blades	6
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 - Motor current limitation - Soft start - Control input 0-10 VDC / PWM - Control interface with SELV potential safely disconnected from the mains - Thermal overload protection for motor
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
Electrical hookup	Plug
Motor protection	Electronic motor protection
With cable	Variable
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1; CE
Comment on CE	Ecodesign Directive 2009/125/EC + Fan Directive (EC) No. 327/2011 does not apply, as power consumption <125W.

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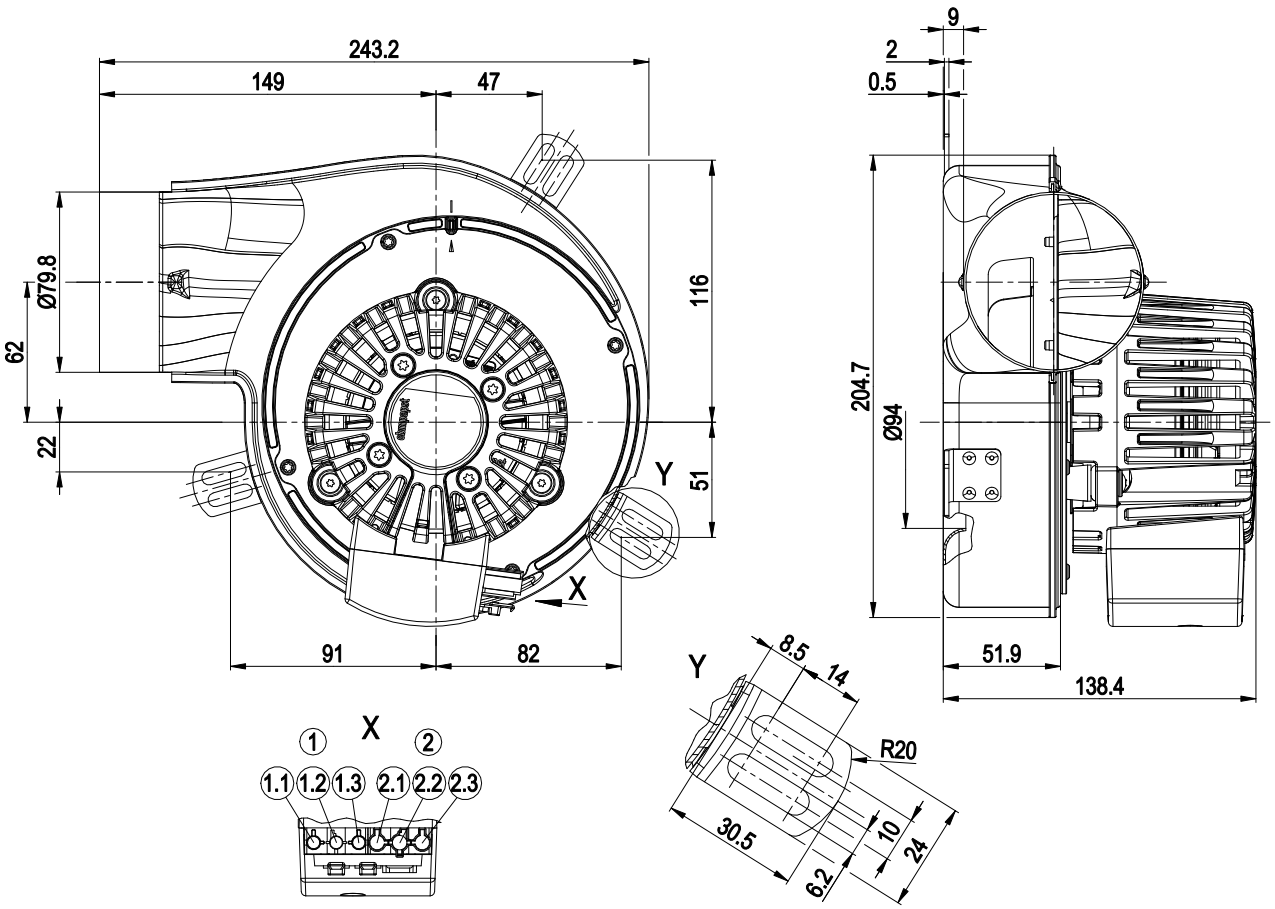
Product drawing



1	3-pole connector housing Wieland 93.032.3357.0
1.1	N
1.2	PE
1.3	L
2	3-pole connector housing Wieland 93.031.3257.0
2.1	0-10 V PWM
2.2	GND
2.3	Tach

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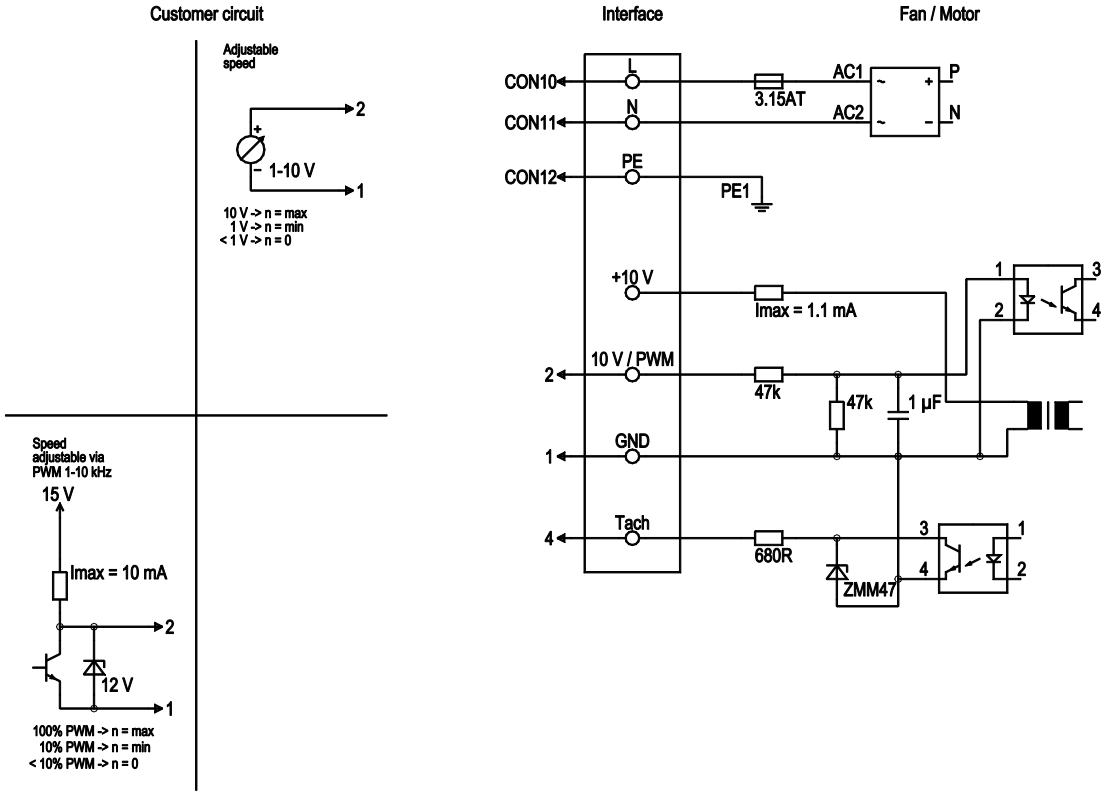
Connection diagram



No.	Conn.	Designation	Color	Function/assignment
	CON10	L	black	Power supply 230 VAC, 50-60 Hz, see nameplate 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
	4	Tach	white	Tach output: open collector, 1 pulse per revolution, electrically isolated

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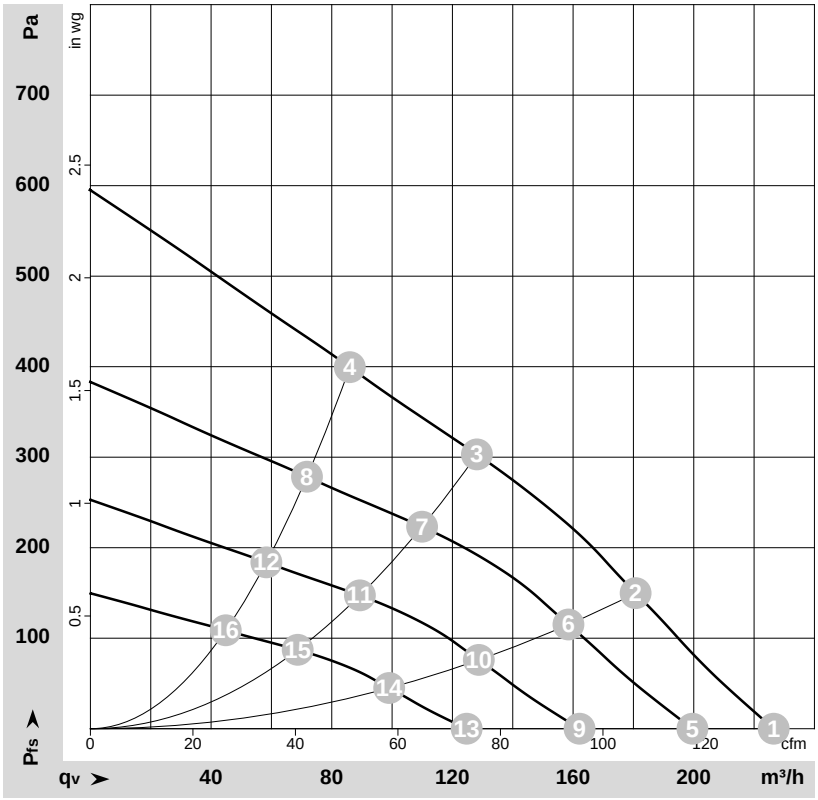
Curves: Air performance 50 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-170090-1

Date: 2026-06-13

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	q_V	p_{fs}	q_V	p_{fs}
	V	Hz	min^{-1}	W	A	m^3/h	Pa	cfm	in. wg
1	230	50	3610	42	0.35	225	0	135	0.00
2	230	50	3650	42	0.35	180	150	105	0.60
3	230	50	3730	39	0.34	130	300	75	1.20
4	230	50	3835	36	0.30	85	400	50	1.61
5	230	50	3200	29	0.25	200	0	120	0.00
6	230	50	3200	28	0.24	160	115	95	0.46
7	230	50	3200	25	0.21	110	223	65	0.90
8	230	50	3200	21	0.18	70	278	40	1.12
9	230	50	2600	16	0.13	160	0	95	0.00
10	230	50	2600	15	0.13	130	76	75	0.31
11	230	50	2600	13	0.11	90	147	50	0.59
12	230	50	2600	11	0.09	60	184	35	0.74
13	230	50	2000	7.0	0.06	125	0	75	0.00
14	230	50	2000	7.0	0.06	100	45	60	0.18
15	230	50	2000	6.0	0.05	70	87	40	0.35
16	230	50	2000	5.0	0.04	45	109	25	0.44

U = Voltage · f = Frequency · n = Speed (rpm) · P_{ed} = Power consumption · I = Current draw · q_V = Air flow · p_{fs} = Pressure increase