

Nominal data

Type	K3G310-AJ38-67	
Motor	M3G084-DF	
Phase		1~
Nominal voltage	VAC	230
Nominal voltage range	VAC	200 .. 277
Frequency	Hz	50/60
Method of obtaining data		ml
Speed (rpm)	min ⁻¹	2260
Power consumption	W	380
Current draw	A	1.7
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	40

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

Data according to ErP Directive

		Actual	Req. 2015
01 Overall efficiency η_{es}	%	60.8	46.8
02 Measurement category		A	
03 Efficiency category		Static	
04 Efficiency grade N		76	62
05 Variable speed drive		Yes	

Data obtained at optimum efficiency level.

The ErP data is determined using a motor-impeller combination in a standardized measurement setup.

09 Power consumption P_{ed}	kW	0.36
09 Air flow q_v	m ³ /h	1770
09 Pressure increase p_{fs}	Pa	400
10 Speed (rpm) n	min ⁻¹	2210
11 Specific ratio*		1.00

* Specific ratio = $1 + p_{fs} / 100\,000\text{ Pa}$

LU-64612

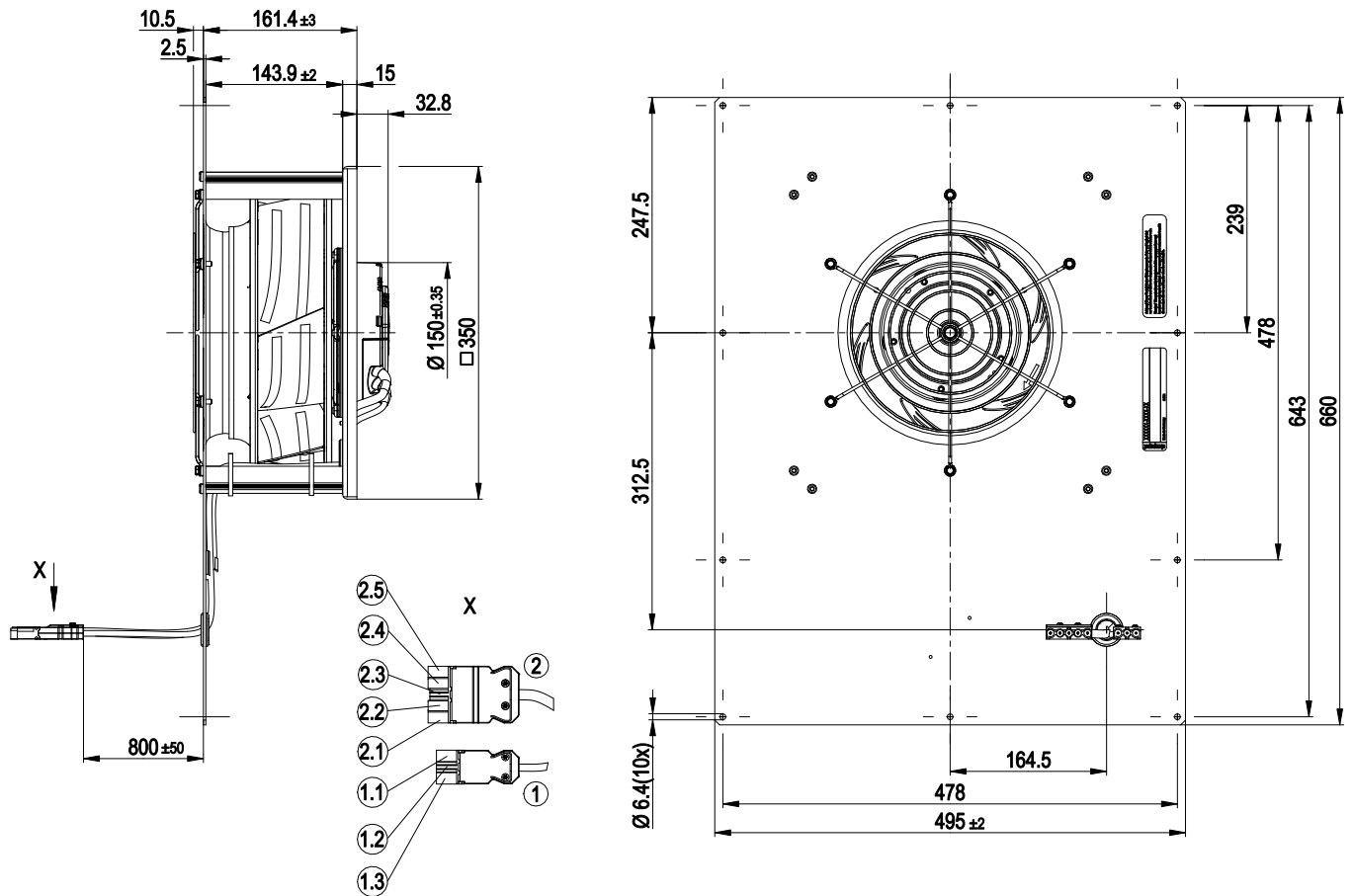
Technical description

Weight	7.8 kg
Fan size	310 mm
Rotor surface	Painted black
Electronics housing material	Die-cast aluminum
Impeller material	Sheet aluminum
Support plate material	Sheet aluminum
Spacer material	Aluminum
Inlet nozzle material	Sheet aluminum
Number of blades	6
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP54
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	F3-1
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 top; rotor on bottom on request
Condensation drainage holes	None
Mode	S1
Motor bearing	Ball bearing
Technical features	- Output 10 VDC, max. 10 mA - Alarm relay - Motor current limitation - PFC, active - Soft start - Control input 0-10 VDC / PWM - Control interface with SELV potential safely disconnected from the mains - Thermal overload protection for electronics/motor - Line undervoltage / phase failure detection
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 61000-6-4 (industrial environment)
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	<= 3.5 mA
Electrical hookup	With plug
Motor protection	Thermal overload protector (TOP) internally connected
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 61800-5-1; CE

EC centrifugal module

backward-curved
with support plate

Product drawing



1 Cable PVC AWG22, with 3-pole connector housing Wieland GST18i3 (92.932.3853)

1.1 +10 V (red)

1.2 0-10 V/PWM (yellow)

1.3 GND (blue)

2 Cable PVC AWG18, with 5-pole connector housing Wieland GST18i5 (92.954.4053.1)

2.1 L (black)

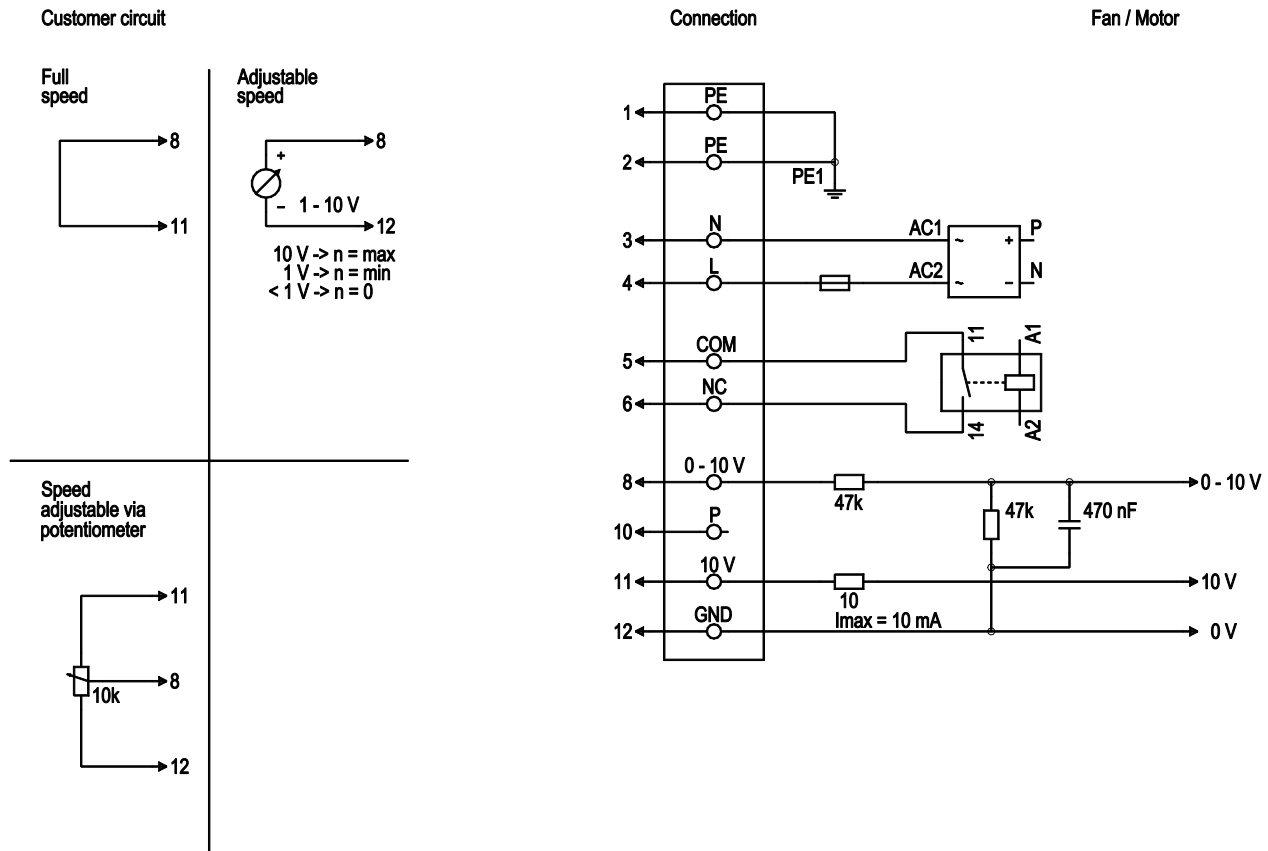
2.2 N (blue)

2.3 PE (green/yellow)

2.4 COM (white 2)

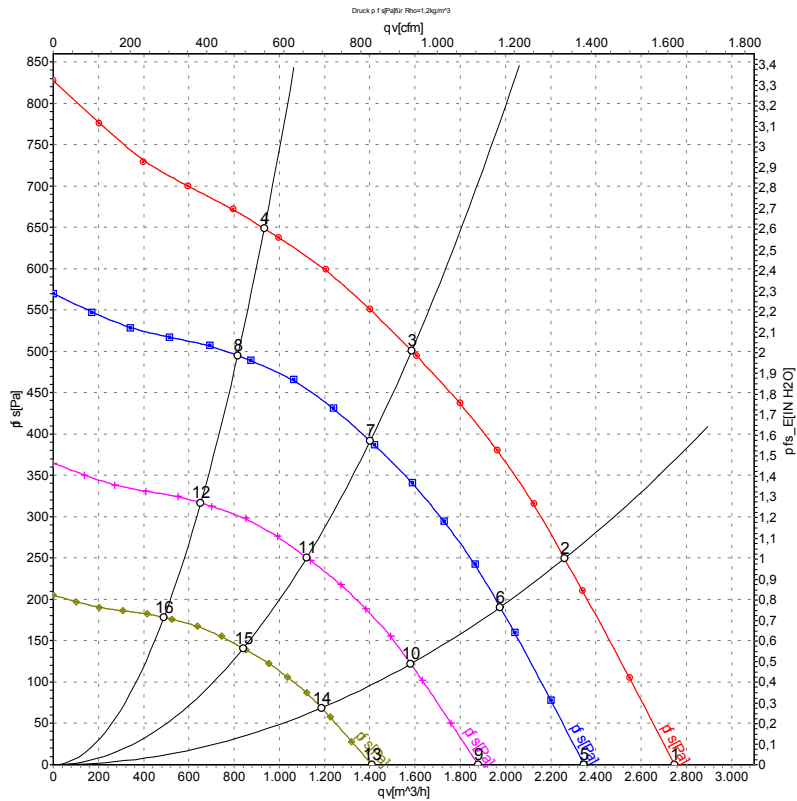
2.5 NC (white 1)

Connection diagram



No.	Conn.	Designation	Color	Function/assignment
1	1, 2	PE	green/yellow	Protective earth
1	3	N	blue	Power supply, neutral conductor, see nameplate for voltage range, 50/60 Hz
1	4	L	black	Power supply, phase, see nameplate for voltage range, 50/60 Hz
1	5	COM	white 1	Floating status contact, break for failure (2 A, max. 250 VAC, min. 10 mA)
1	6	NC	white 2	Floating status contact, break for failure
2	8	0 -10 V	yellow	Control input, set value 0-10 VDC, impedance 100 kOhm, SELV
2	10	P	orange	not used
2	11	10 VDC	red	Voltage output 10 VDC ($\pm 3\%$), max. 10 mA, power supply for external devices (e.g. potentiometers), SELV
2	12	GND	blue	Reference ground for control interface, SELV

Curves: Air performance 50 Hz



Measurement: LU-115788-1

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	qv	p _{fs}	qv	p _{fs}
	V	Hz	min ⁻¹	W	A	m³/h	Pa	CFM	inH ₂ O
1	230	50	2340	282	1.23	2750	0	1615	0.00
2	230	50	2290	343	1.50	2260	250	1330	1.00
3	230	50	2260	380	1.70	1585	500	935	2.01
4	230	50	2290	349	1.53	935	650	550	2.61
5	230	50	2000	176	0.77	2350	0	1380	0.00
6	230	50	2000	229	1.00	1975	191	1165	0.77
7	230	50	2000	260	1.14	1400	392	825	1.57
8	230	50	2000	233	1.02	815	495	480	1.99
9	230	50	1600	90	0.39	1880	0	1105	0.00
10	230	50	1600	117	0.51	1580	122	930	0.49
11	230	50	1600	133	0.58	1120	251	660	1.01
12	230	50	1600	119	0.52	650	317	385	1.27
13	230	50	1200	38	0.17	1410	0	830	0.00
14	230	50	1200	49	0.22	1185	69	700	0.28
15	230	50	1200	56	0.25	840	141	495	0.57
16	230	50	1200	50	0.22	490	178	290	0.71

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