

K3G400-AC30-63 ebmpapst Datasheet

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Nominal data

Type	K3G400-AC30-63	
Motor	M3G084-FA	
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	1304
Power consumption	W	370
Current draw	A	1.8 (200V)
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	30

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

Data according to Commission Regulation (EU) 327/2011

		Actual	Req. 2015
01 Overall efficiency η_{es}	%	58.2	46.4
02 Measurement category		A	
03 Efficiency category		Static	
04 Efficiency grade N		73.8	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	0.33
09 Air flow q_v	m ³ /h	2080
09 Pressure increase p_{fs}	Pa	300
10 Speed (rpm) n	min ⁻¹	1310
11 Specific ratio*		1.00

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

LU-70774



K3G400-AC30-63

EC centrifugal module

backward-curved, single-intake

with support plate

Technical description

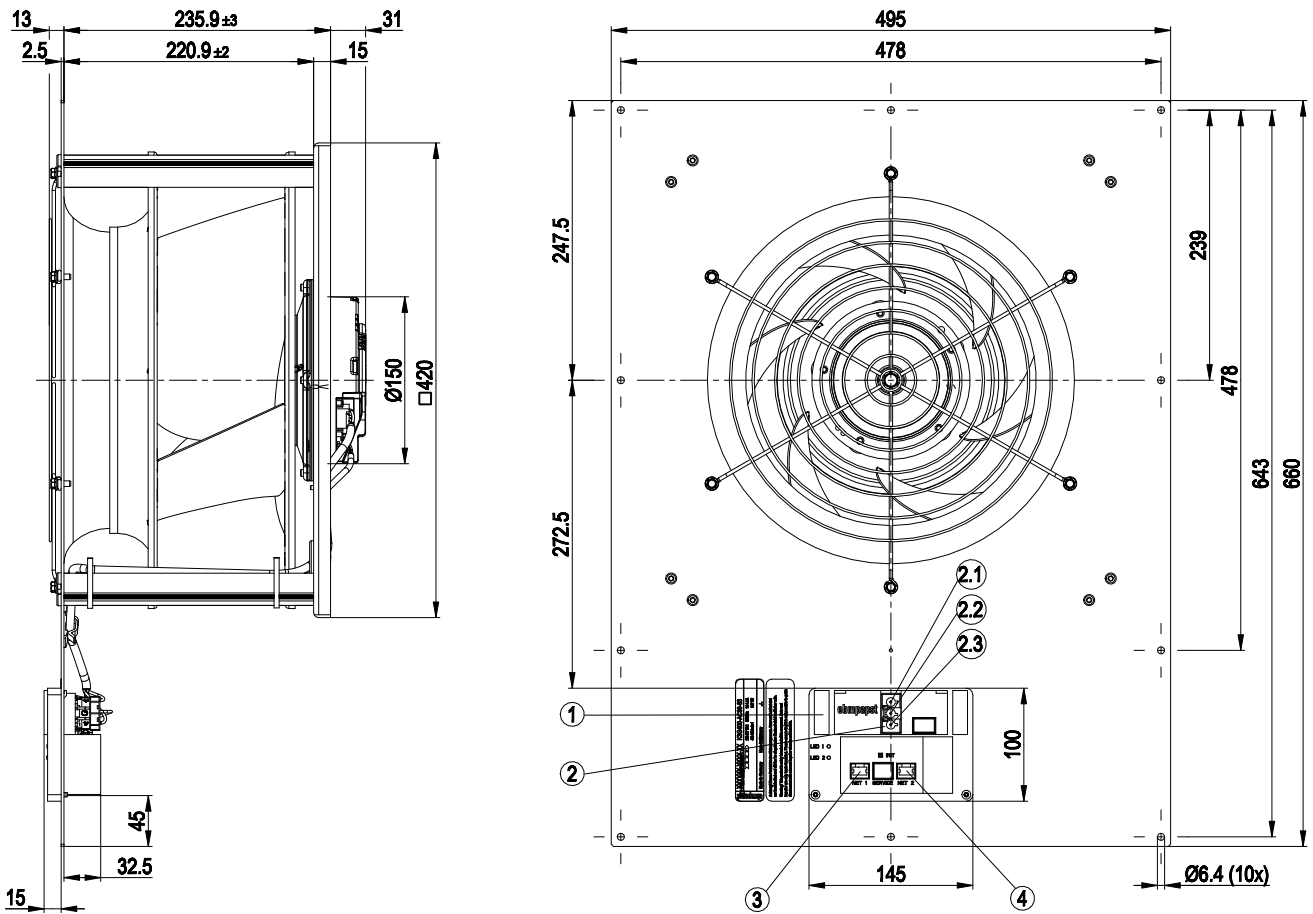
Weight	9.9 kg
Fan size	400 mm
Rotor surface	Painted black
Electronics housing material	Die-cast aluminum
Impeller material	Sheet aluminum
Support plate material	Sheet aluminum
Spacer material	Aluminum
Inlet nozzle material	Sheet aluminum
Number of blades	6
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP20
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	F0
Max. permitted ambient temp. for motor (transport/storage)	+80 °C
Min. permitted ambient temp. for motor (transport/storage)	-40 °C
Installation position	Rotor on top
Condensation drainage holes	None
Mode	S1
Motor bearing	Ball bearing
Technical features	<ul style="list-style-type: none">- Operation and alarm display with LED- Integrated PID controller- LON / RS485 with DCI function- Motor current limitation- PFC, active- Soft start- Control interface with SELV potential safely disconnected from supply- Thermal overload protection for electronics/motor- Line undervoltage / phase failure detection
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
With cable	Variable
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 61800-5-1; CE
Approval	C22.2 No.77 + CAN/CSA-E60730-1; UL1004-3 +60730



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Product drawing



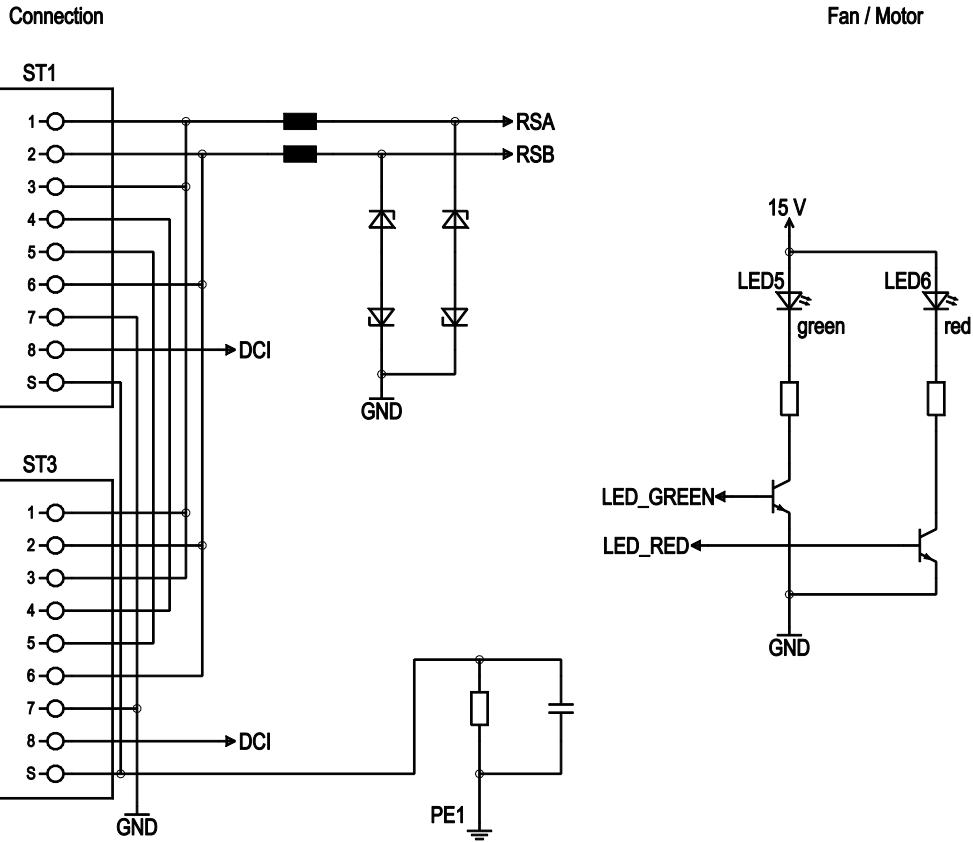
1	Terminal box
2	Connector housing 3-pole GST18/3 Wieland 92.032.9058.1
2.1	N
2.2	PE
2.3	L
3	8-pole socket housing tyco 100616-2
4	8-pole socket housing tyco 100616-2



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Connection diagram



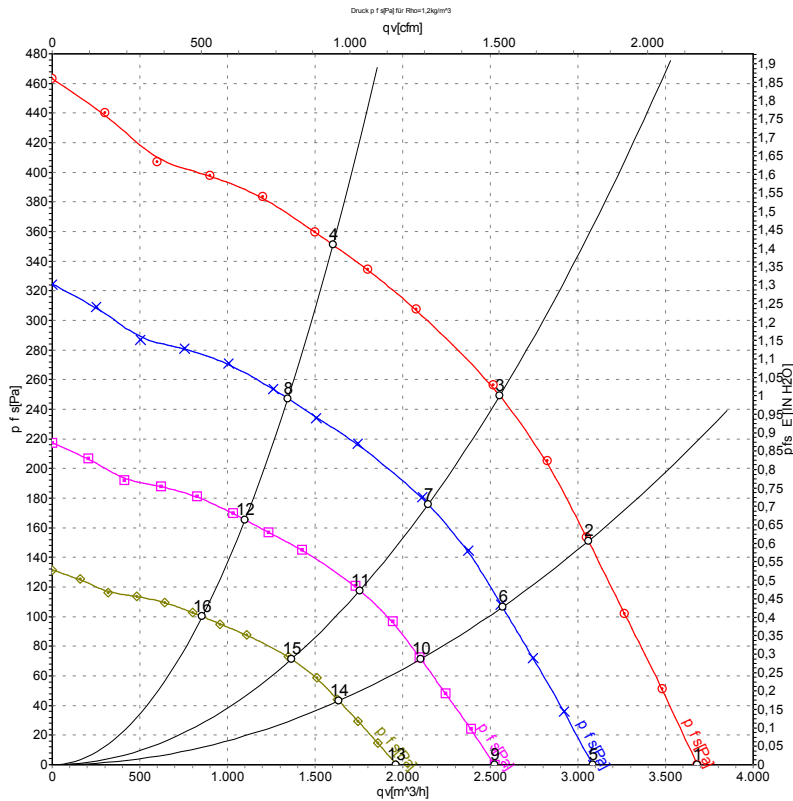
LED1 / LED2

Status	Priority	Address S/N	Speed	LED red	LED green
General malfunction	1	S/N any	n any	Flashing 1 Hz	OFF
Signal function	2	S/N $\lt; 1/1$	n any	OFF	Flashing 10 Hz
As-delivered condition	3	S/N = 1/1	n > 0	Always ON	OFF
After initializing	3	S/N $\lt; 1/1$	n > 0	OFF	Always ON
Fan to speed 0	3	S/N $\lt; 1/1$	n = 0	OFF	Flashing 1 Hz
As-delivered condition	3	S/N = 1/1	n = 0	Always ON	Flashing 1 Hz

No.	Conn.	Designation	Function/assignment
ST1/ST3 1	LON_A	LON_A	Bus connection RS485, LON_A
ST1/ST3 2	LON_B	LON_B	Bus connection RS485, LON_B
ST1/ST3 3	LON_A	LON_A	Bus connection RS485, LON_A
ST1/ST3 4	-	-	Bridge ST1 – ST3
ST1/ST3 5	-	-	Bridge ST1 – ST3
ST1/ST3 6	LON_B	LON_B	Bus connection RS485, LON_B
ST1/ST3 7	GND	GND	Reference ground
ST1/ST3 8	DCI	DCI	Daisy chain signal
ST1/ST3 S	Schirm	Schirm	Shield for RJ45 CAT5 wire



Curves: Air performance 50 Hz



Measurement: LU-70774-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebmpapst. 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	200	50	1305	284	1.44	3680	0	2165	0.00
2	200	50	1305	330	1.67	3060	150	1800	0.60
3	200	50	1305	350	1.80	2555	250	1505	1.00
4	200	50	1305	314	1.59	1600	350	945	1.41
5	200	50	1100	167	0.85	3085	0	1815	0.00
6	200	50	1100	196	0.99	2570	107	1515	0.43
7	200	50	1100	207	1.05	2145	177	1260	0.71
8	200	50	1100	186	0.94	1345	247	790	0.99
9	200	50	900	91	0.46	2525	0	1485	0.00
10	200	50	900	107	0.54	2105	71	1240	0.29
11	200	50	900	114	0.57	1755	118	1035	0.47
12	200	50	900	102	0.51	1100	166	645	0.67
13	200	50	700	43	0.22	1965	0	1155	0.00
14	200	50	700	50	0.26	1635	43	960	0.17
15	200	50	700	53	0.27	1365	72	805	0.29
16	200	50	700	48	0.24	855	100	505	0.40

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

