K3G355-AM14-64

EC centrifugal module

backward curved, single inlet

with support plate

K3G355-AM14-64 ebmpapst Datasheet
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Limited partnership · Headquarters Mulfingen
County court Stuttgart · HRA 590344

General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen
County court Stuttgart · HRB 590142

ErP2015 EXCEEDS THE NORM

Nominal data

Type	**K3G355-AM14-64**
Motor	**M3G084-FA**

Phase		1~
Nominal voltage	VAC	230
Nominal voltage range	VAC	200 .. 277
Frequency	Hz	50/60
Type of data definition		ml
Speed	min^{-1}	1700
Power input	W	370
Current draw	A	1.6
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	40

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

Data according to ErP directive

Installation category	A
Efficiency category	Static
Variable speed drive	Yes
Specific ratio*	1.00

* Specific ratio = 1 + p_{fs} / 100 000 Pa

		Actual	Request 2013	Request 2015
Overall efficiency η_{es}		61.4	42.8	46.8
Efficiency grade N		76.6	58	62
Power input P_{ed}	kW	0.36		
Air flow q_v	m^3/h	2085		
Pressure increase p_{fs}	Pa	350		
Speed n	min^{-1}	1710		

Data established at point of optimum efficiency

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Technical features

Mass	8.96 kg
Size	355 mm
Surface of rotor	Coated in black
Material of electronics housing	Die-cast aluminium
Material of impeller	Aluminium sheet, coated in black
Material of mounting plate	Aluminium sheet
Material of distancing profiles	Aluminium
Number of blades	6
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 54
Insulation class	"B"
Humidity class	F5
Max. permissible ambient motor temp. (transp./ storage)	+80 °C
Min. permissible ambient motor temp. (transp./storage)	-40 °C
Mounting position	Shaft horizontal or rotor on top; rotor on bottom on request
Condensate discharge holes	None
Operation mode	S1
Motor bearing	Ball bearing
Technical features	- Operation and alarm display: Reversible voltage output 0 V / +15 V - Integrated PID controller - Motor current limit - PFC, active - RS485 ebmBUS - Soft start - Over-temperature protected electronics / motor - Line undervoltage / phase failure detection
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 61000-6-4 (industrial environment)
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	<= 3.5 mA
Motor protection	Thermal overload protector (TOP) wired internally
Cable exit	Variable
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 61800-5-1

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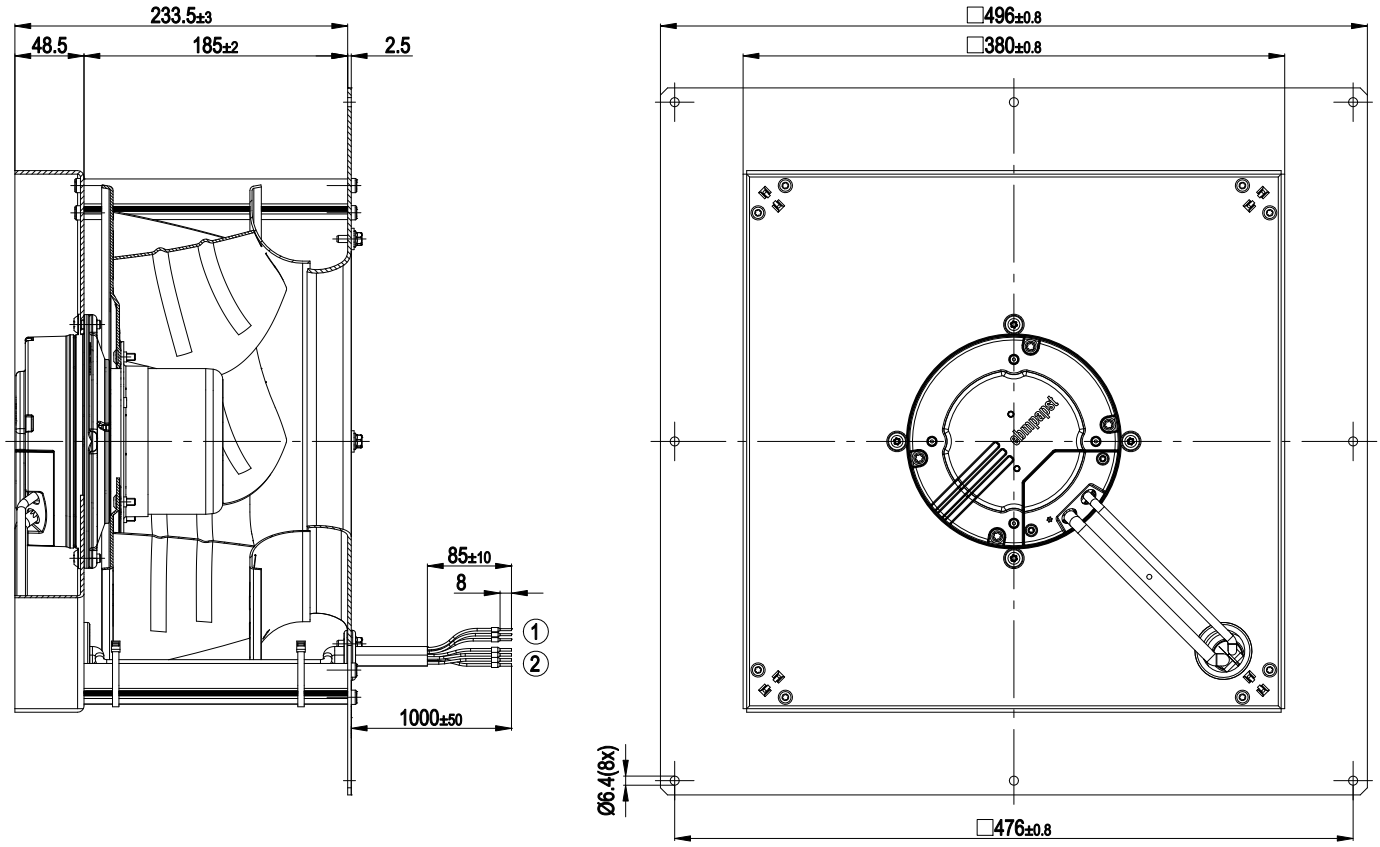
Product drawing



1	Connection line AWG18, 3x crimped core-end sleeves
2	Connection line AWG22, 4x crimped core-end sleeves

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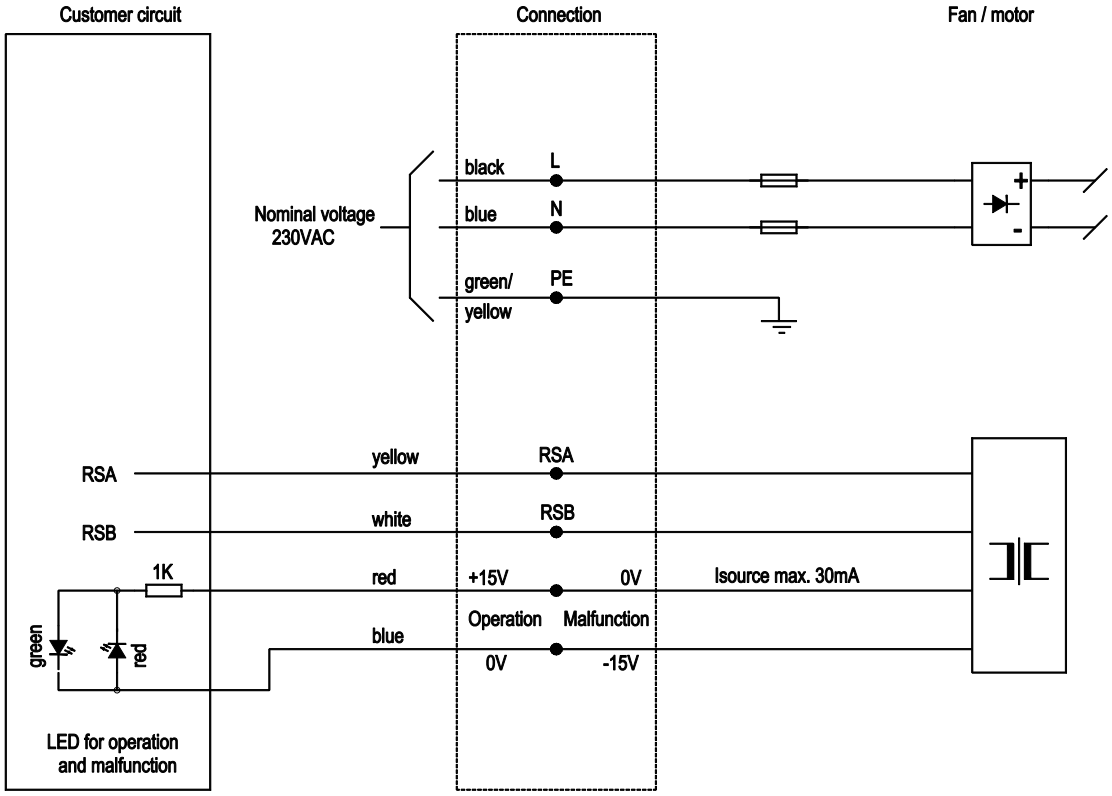
Connection screen



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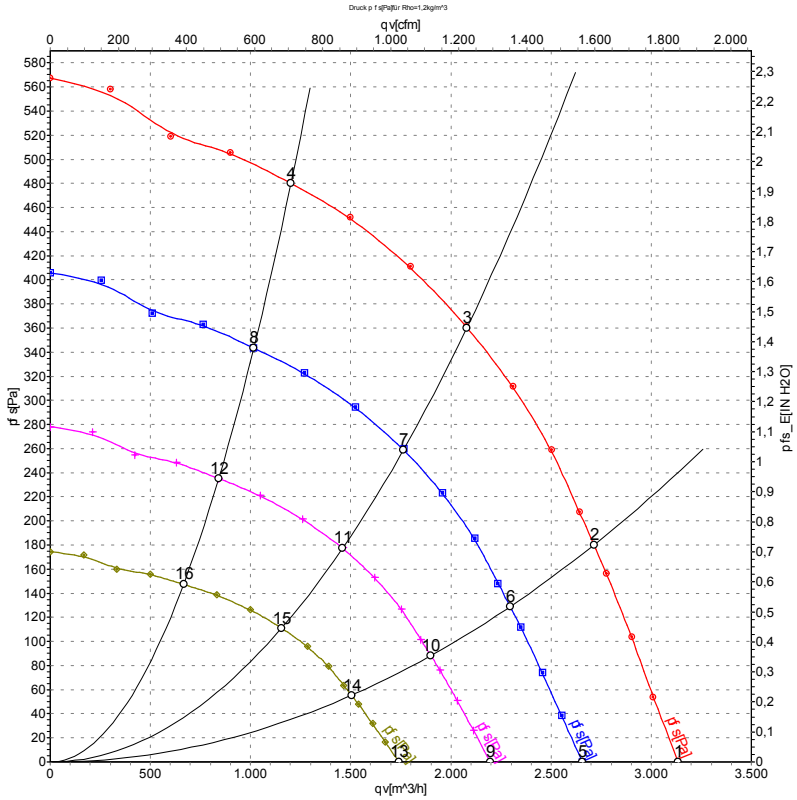
Charts: Air flow 50 Hz



Measurement: LU-110874

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	qv	p_{fs}
	V	Hz	min^{-1}	W	A	m^3/h	Pa
1	230	50	1700	244	1.07	3135	0
2	230	50	1700	319	1.40	2715	180
3	230	50	1700	370	1.60	2080	360
4	230	50	1700	328	1.43	1200	480
5	230	50	1450	148	0.65	2655	0
6	230	50	1450	193	0.85	2295	129
7	230	50	1450	224	0.98	1765	260
8	230	50	1450	198	0.86	1015	343
9	230	50	1200	84	0.37	2195	0
10	230	50	1200	110	0.48	1900	88
11	230	50	1200	127	0.56	1460	178
12	230	50	1200	112	0.49	840	235
13	230	50	950	42	0.18	1740	0
14	230	50	950	54	0.24	1505	55
15	230	50	950	63	0.28	1155	112
16	230	50	950	56	0.24	665	147

U = Supply voltage · f = Frequency · n = Speed · P_{ed} = Power input · I = Current draw · qv = Air flow · p_{fs} = Pressure increase

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