K3G310-AJ23-81

EC centrifugal module

backward curved, single inlet

with support plate

Limited partnership · Headquarters Mulfingen
County court Stuttgart · HRA 590344

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

Nominal data

Type	**K3G310-AJ23-81**
Motor	**M3G084-DF**

Phase		1~
Nominal voltage	VAC	115
Nominal voltage range	VAC	100 .. 130
Frequency	Hz	50/60
Type of data definition		ml
Speed	min^{-1}	2170
Power input	W	360
Current draw	A	4.1
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	55

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

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Technical features

Mass	7.5 kg
Size	310 mm
Surface of rotor	Coated in black
Material of electronics housing	Die-cast aluminium
Material of impeller	Aluminium sheet
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	F3-1
Mounting position	Shaft horizontal or rotor on top; rotor on bottom on request
Operation mode	S1
Motor bearing	Ball bearing
Technical features	- Output 10 VDC, max. 1.1 mA - Alarm relay - Motor current limit - Soft start - Control input 0-10 VDC / PWM - Line undervoltage 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
Approval	CCC; UL 2111; CSA C22.2 Nr.77

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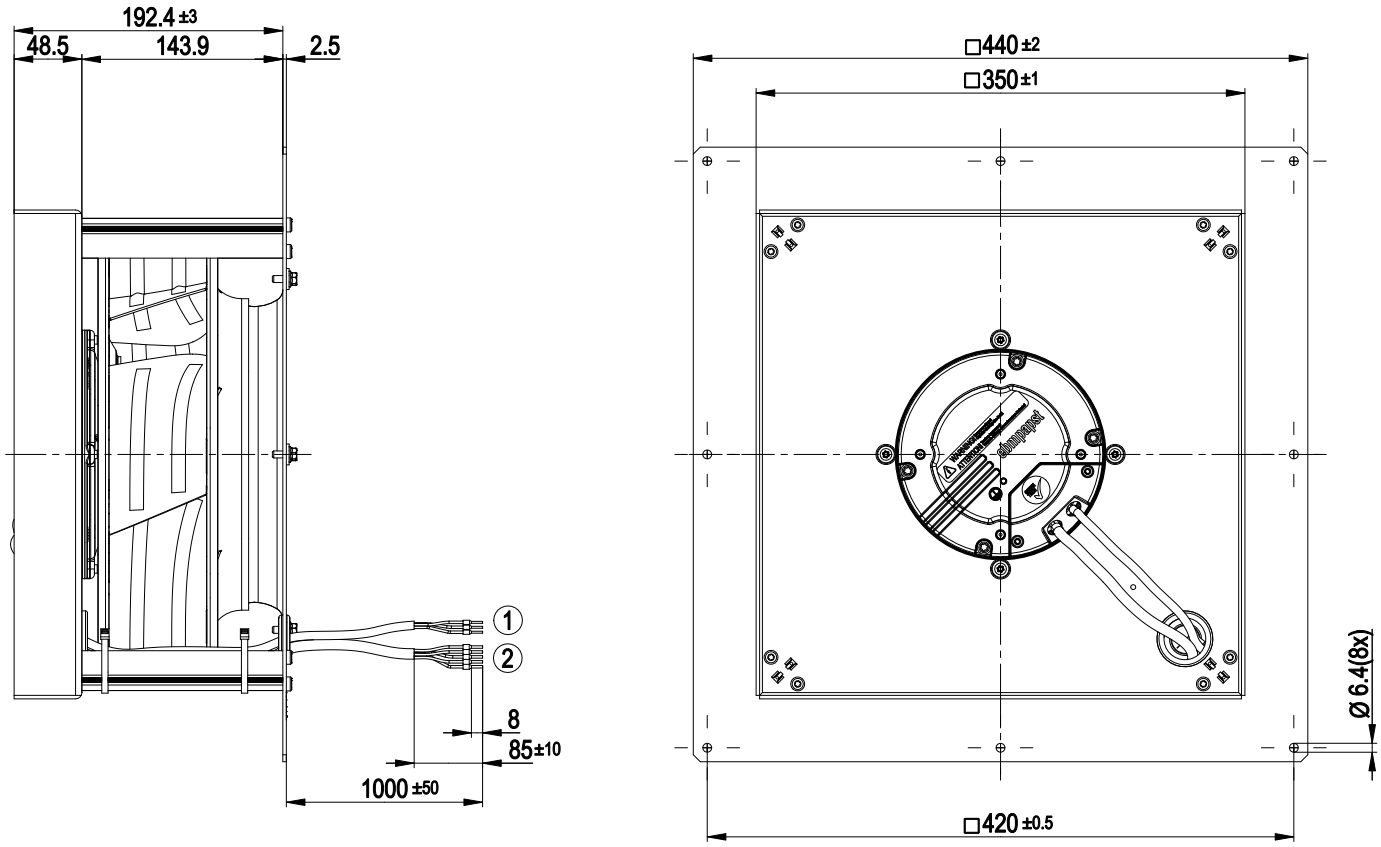
Product drawing



1	Connection line PVC, AWG22, 3x crimped core-end sleeves
2	Connection line PVC, AWG18, 5x crimped core-end sleeves

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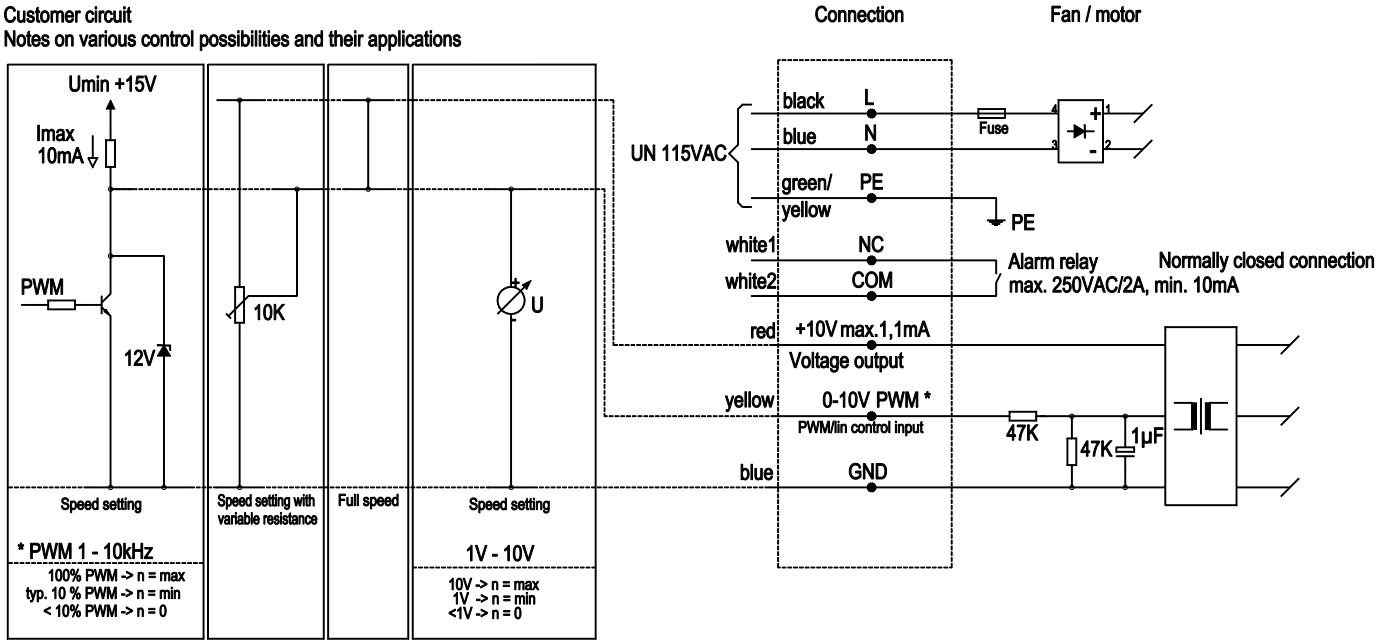
Connection screen



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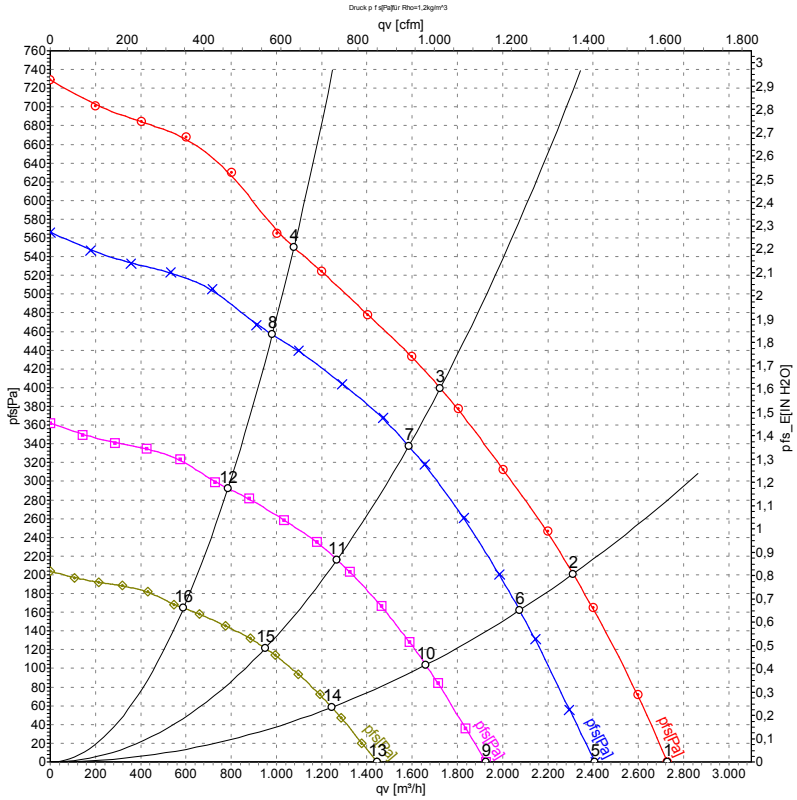
Charts: Air flow 50 Hz



Measurement: LU-137416

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	115	50	2265	273	3.22	2730	0
2	115	50	2230	331	3.84	2310	200
3	115	50	2170	360	4.10	1725	400
4	115	50	2195	350	4.05	1075	550
5	115	50	2000	187	2.21	2410	0
6	115	50	2000	239	2.78	2075	162
7	115	50	2000	280	3.24	1585	338
8	115	50	2000	265	3.07	980	457
9	115	50	1600	96	1.13	1925	0
10	115	50	1600	122	1.42	1660	104
11	115	50	1600	143	1.66	1270	216
12	115	50	1600	136	1.57	785	292
13	115	50	1200	40	0.48	1445	0
14	115	50	1200	52	0.60	1245	58
15	115	50	1200	60	0.70	950	122
16	115	50	1200	57	0.66	590	164

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