EC centrifugal fan

forward curved, single inlet

with housing (without flange)

Limited partnership · Headquarters Mulfingen
County court Stuttgart · HRA 590344

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

Nominal data

Type	**G3G180-EU73-01**
Motor	**M3G074-CF**

Phase		1~
Nominal voltage	VAC	115
Nominal voltage range	VAC	100 .. 130
Frequency	Hz	50/60
Type of data definition		ml
State		prelim.
Speed	min^{-1}	1320
Power input	W	175
Current draw	A	2.2
Min. back pressure	Pa	0
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	60

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	4.9 kg
Size	180 mm
Surface of rotor	Coated in black
Material of impeller	Sheet steel, hot-galvanised
Housing material	Sheet steel, hot-galvanised
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 44; Depending on installation and position
Insulation class	"B"
Humidity class	F3-1
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Any
Condensate discharge holes	None
Operation mode	S1
Motor bearing	Ball bearing
Technical features	- Output 10 VDC, max. 1.1 mA - Tach output - Motor current limit - Soft start - Control input 0-10 VDC / PWM - Control interface with SELV potential safely disconnected from the mains - Over-temperature protected electronics / motor
EMC interference immunity	Acc. to EN 61000-6-2 (industrial environment)
EMC interference emission	Acc. to EN 55022 (Class B)
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 60335-1
Approval	CSA C22.2 Nr.77; UL 2111

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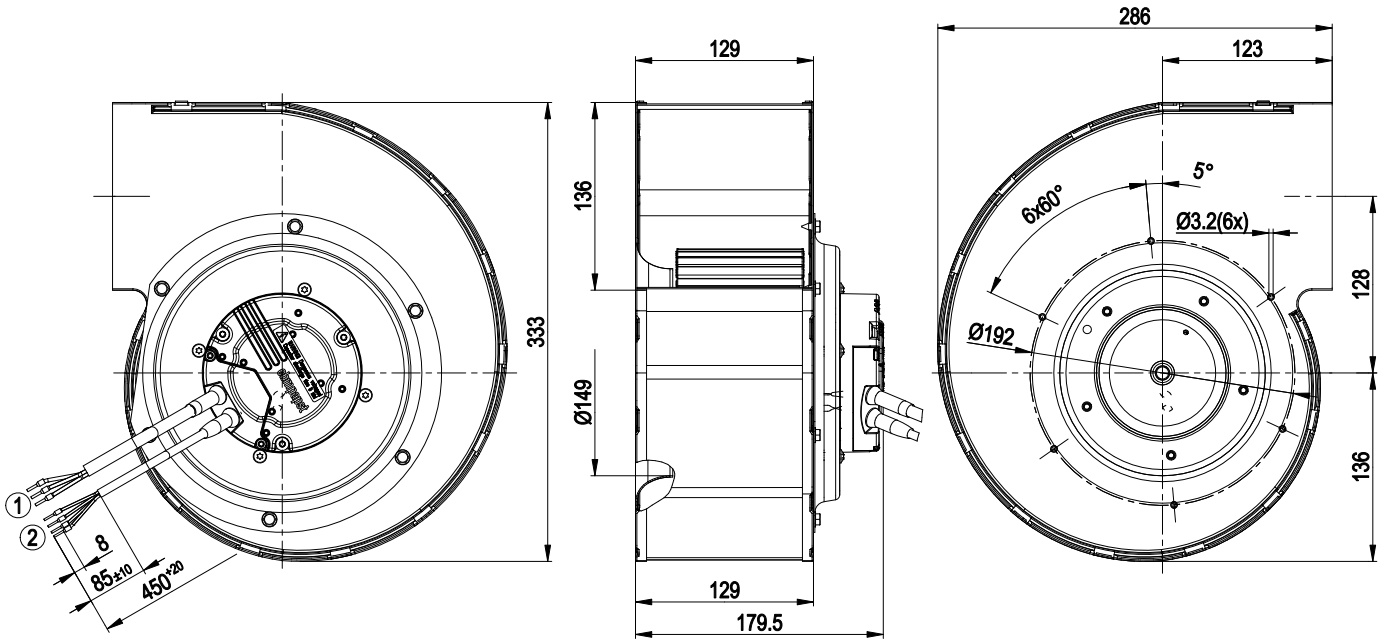
Product drawing



1	Connection line AWG18 -300V, 3x crimped core-end sleeves
2	Connection line AWG22 -300V, 4x crimped core-end sleeves

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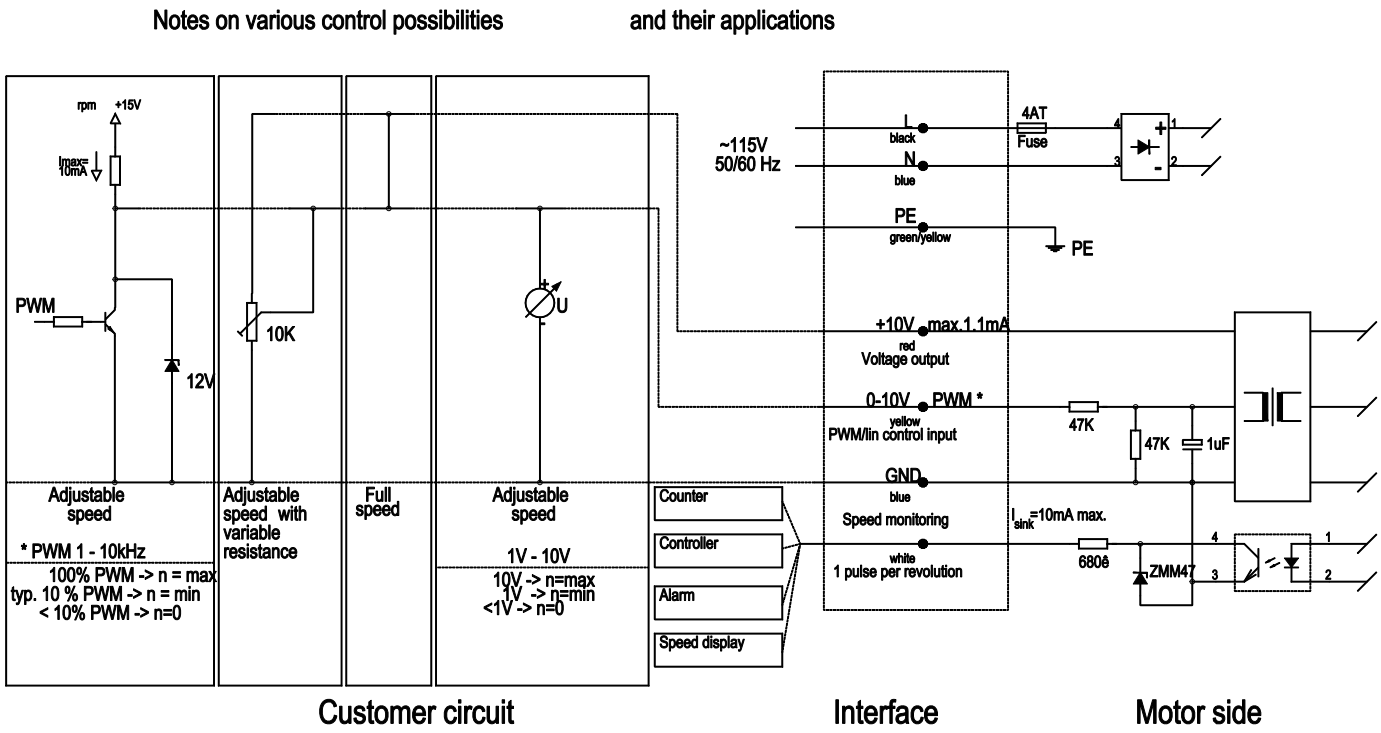
Connection screen



Not switchable via the supply voltage. Restart only after 5 minute delay via input voltage.

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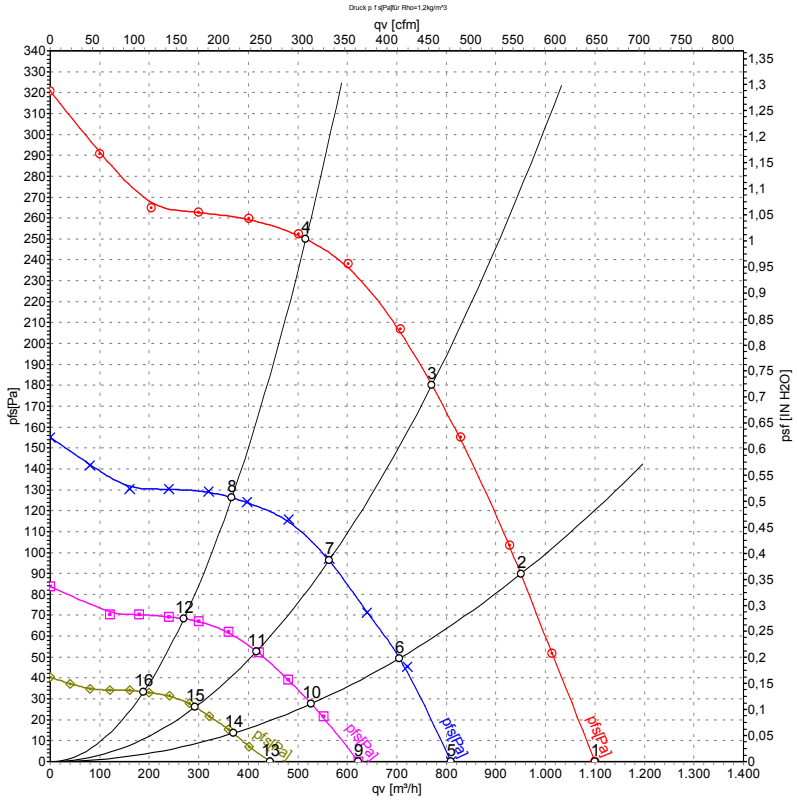
Charts: Air flow 50 Hz



Measurement: LU-75044
Measurement: LU-76128
Measurement: LU-76129
Measurement: LU-76130

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	1320	175	2.20	1100	0
2	115	50	1390	145	1.84	950	90
3	115	50	1450	120	1.56	770	180
4	115	50	1535	87	1.15	515	250
5	115	50	990	69	0.94	810	0
6	115	50	1040	63	0.86	705	51
7	115	50	1070	50	0.70	565	97
8	115	50	1115	35	0.51	365	126
9	115	50	765	35	0.50	620	0
10	115	50	790	29	0.43	525	28
11	115	50	805	24	0.37	415	53
12	115	50	825	17	0.27	270	68
13	115	50	555	16	0.25	445	0
14	115	50	565	13	0.21	370	14
15	115	50	575	11	0.19	295	26
16	115	50	585	8.8	0.15	190	33

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