R3G133-AG07-05

EC centrifugal fan

backward curved

R3G133-AG07-05 ebmpapst Datasheet
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Nominal data

Type	**R3G133-AG07-05**
Motor	**M3G055-BD**

Phase		1~
Nominal voltage	VAC	230
Nominal voltage range	VAC	180 .. 264
Frequency	Hz	50/60
Type of data definition		ml
Speed	min^{-1}	4460
Power input	W	50
Current draw	A	0.37
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

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Technical features

Mass	0.78 kg
Size	133 mm
Surface of rotor	Coated in black
Material of impeller	Plastic PA66, fibreglass-reinforced
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 22
Insulation class	"B"
Humidity class	F0
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Any
Condensate discharge holes	Rotor-side
Operation mode	S1
Motor bearing	Ball bearing
Technical features	- Control input 0.5-9.5 VDC / PWM - Output 10 VDC, max. 1.1 mA - Tach output - Over-temperature protected motor - Motor current limit - Soft start
EMC interference immunity	Acc. to EN 61000-6-2
EMC harmonics	Acc. to EN 61000-3-2/3
EMC interference emission	Acc. to EN 61000-6-3 (household 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)

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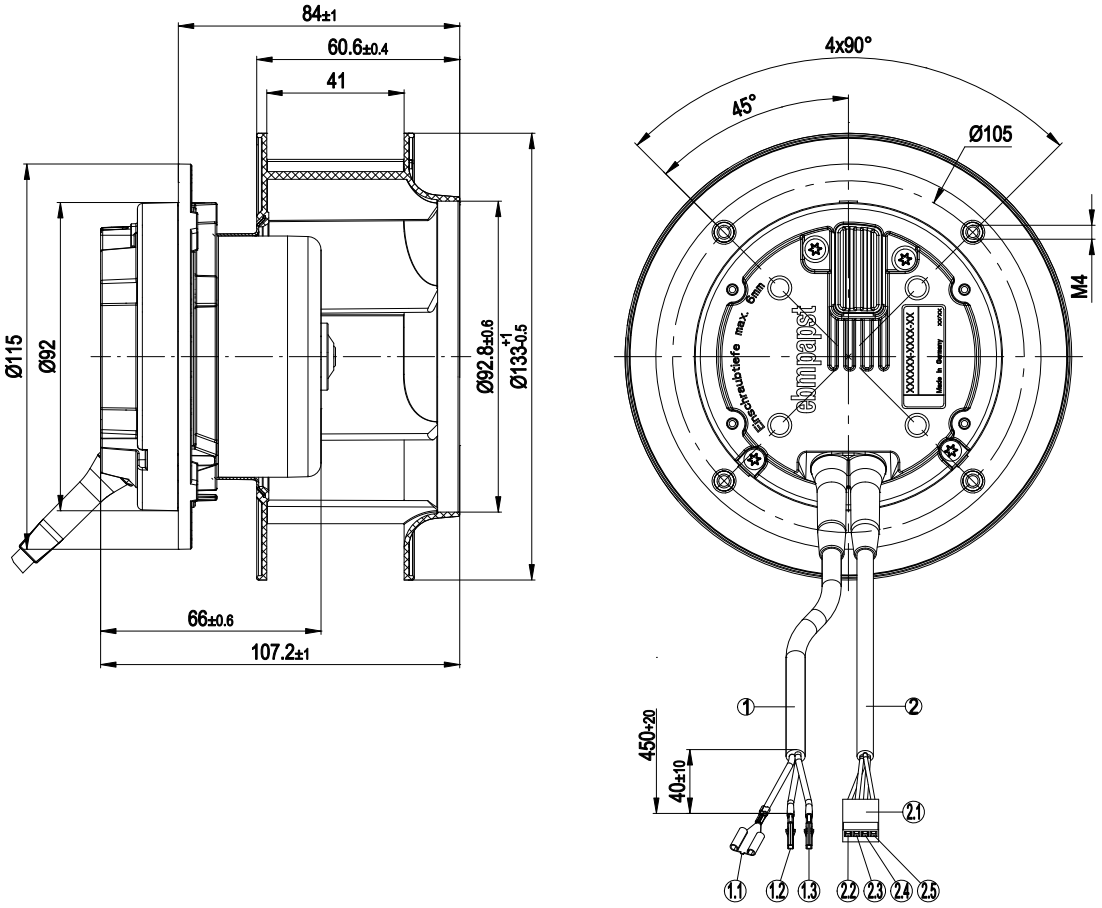
Product drawing



1	Plastic sheathed flexible cable
1.1	green/ yellow, receptacle for tabs AMP 160389 crimped
1.2	blue, plug pin Molex 39-00-0059 crimped
1.3	brown, plug pin Molex 39-00-0059 crimped
2	Plastic sheathed flexible cable
2.1	Connector housing Molex 10-11-2043
2.2	white
2.3	yellow
2.4	red
2.5	blue

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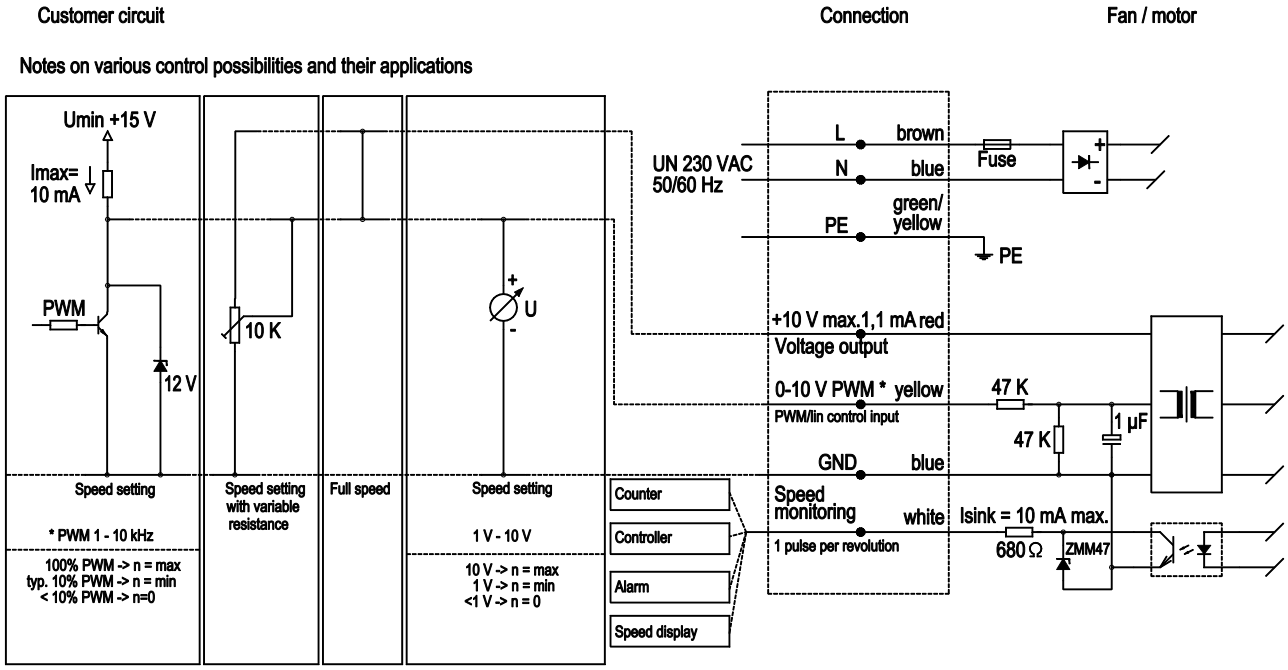
Connection screen



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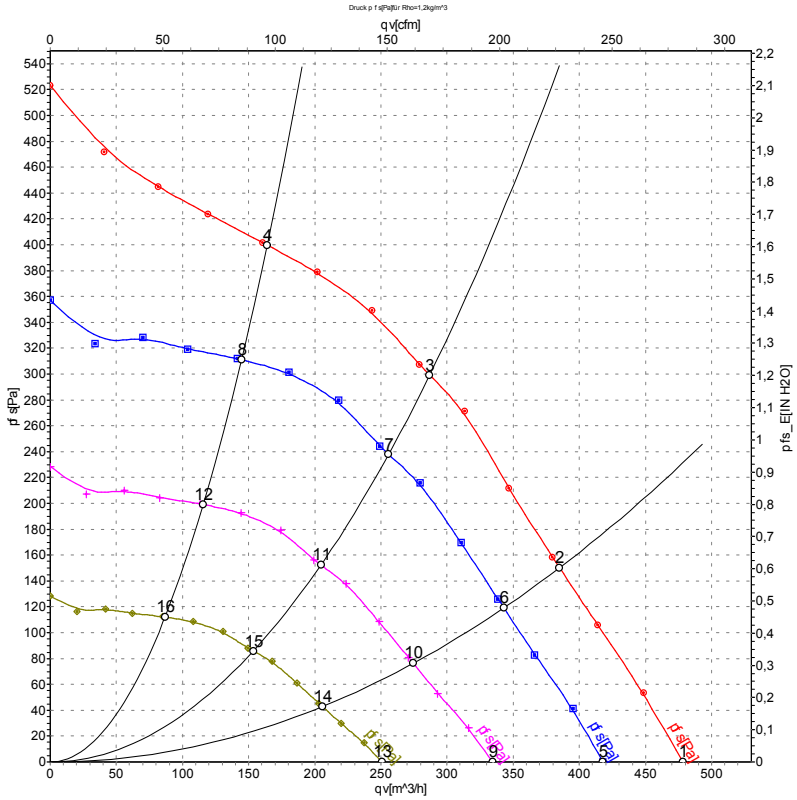
Charts: Air flow 50 Hz



Measurement: LU-113465

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	4575	43	0.32	480	0
2	230	50	4490	49	0.35	385	150
3	230	50	4460	50	0.37	285	300
4	230	50	4530	48	0.36	165	400
5	230	50	4000	29	0.21	420	0
6	230	50	4000	35	0.25	345	119
7	230	50	4000	36	0.27	255	238
8	230	50	4000	33	0.25	145	311
9	230	50	3200	15	0.11	335	0
10	230	50	3200	18	0.13	275	76
11	230	50	3200	18	0.14	205	152
12	230	50	3200	17	0.13	115	199
13	230	50	2400	6.2	0.05	250	0
14	230	50	2400	7.5	0.05	205	43
15	230	50	2400	7.8	0.06	155	86
16	230	50	2400	7.2	0.05	85	112

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