D3G180-AB62-01

EC centrifugal fan

forward curved, dual inlet

with housing (flange)



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Nominal data

Type	**D3G180-AB62-01**
Motor	**M3G074-CF**

Phase		1~
Nominal voltage	VAC	230
Nominal voltage range	VAC	200 .. 277
Frequency	Hz	50/60
Type of data definition		ml
Speed (rpm)	min^{-1}	1130
Power input	W	170
Current draw	A	1.25
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	7.0 kg
Size	180 mm
Surface of rotor	Thick layer passivated
Material of electronics housing	Die-cast aluminum
Material of impeller	Sheet steel, sendzimir galvanized
Housing material	Sheet steel, sendzimir galvanized
Motor suspension	Motor mounted with anti-vibration on both sides
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 44
Insulation class	"B"
Humidity (F)/environmental protection class (H)	F3-1
Max. permissible ambient motor temp. (transp./ storage)	+80 °C
Min. permissible ambient motor temp. (transp./storage)	-40 °C
Mounting position	Shaft horizontal
Condensate discharge holes	None
Operation mode	S1
Motor bearing	Ball bearing
Technical features	- Control input 0-10 VDC / PWM - Output 10 VDC max. 1.1 mA - Speed output - Over-temperature protected electronics / motor
EMC interference immunity	Acc. to EN 61000-6-1
EMC harmonics	Acc. to EN 61000-3-2/3
EMC interference emission	Acc. to EN 61000-6-3
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 60950-1; EN 60335-1; EN 61800-5-1; CE

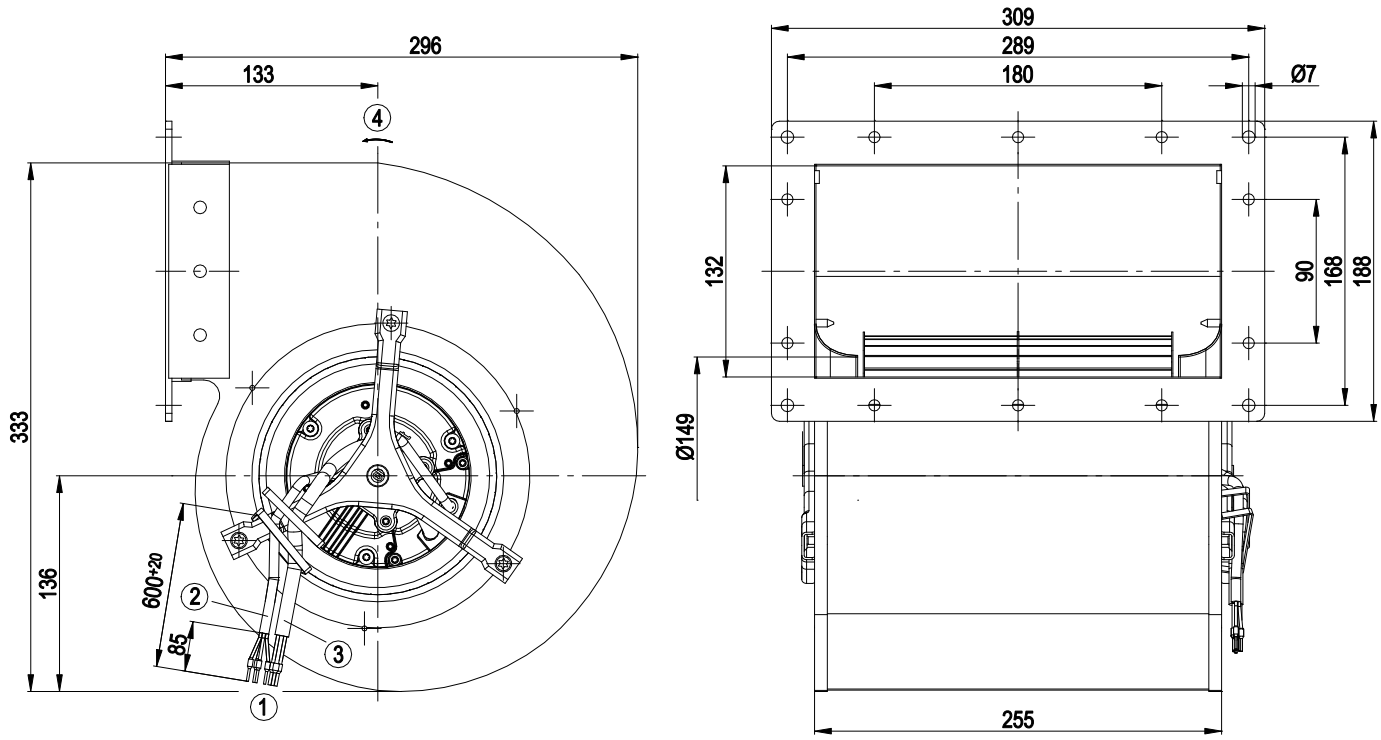
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Product drawing



1	Core-end sleeves
2	Connection line 4 x AWG22
3	Connection line 3 x AWG18
4	Direction of rotation clockwise, seen on rotor

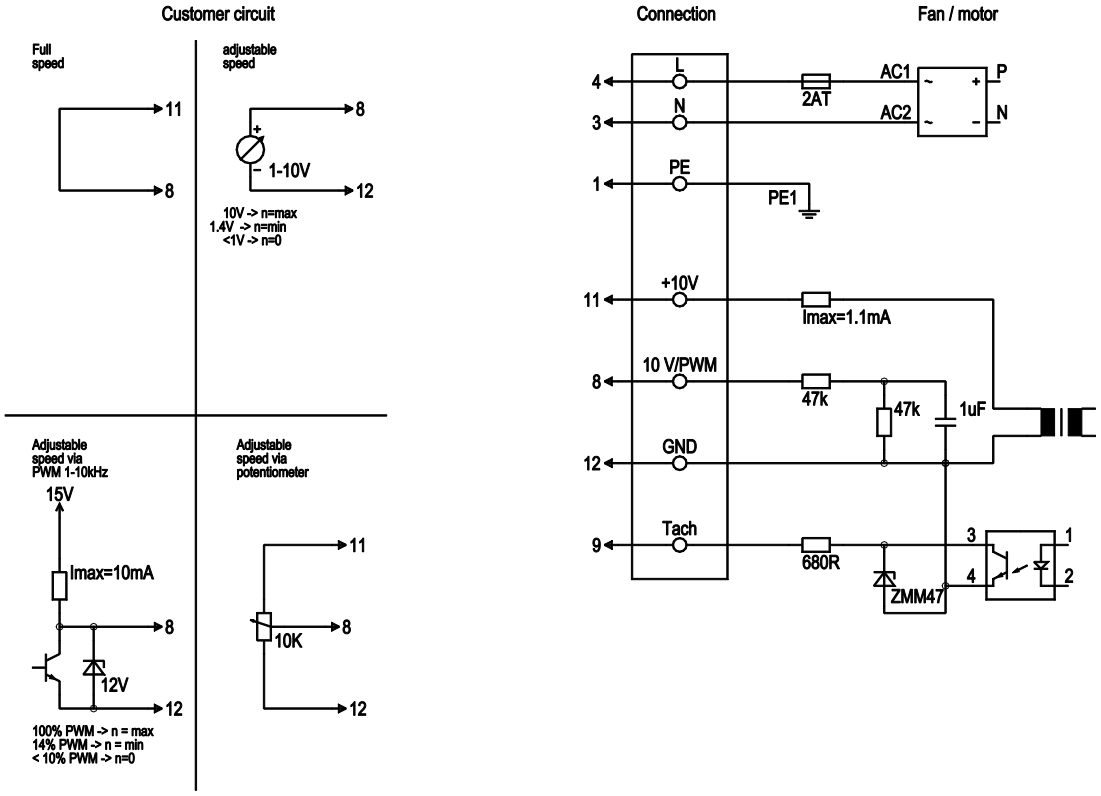
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Connection screen



No.	Conn.	Designation	Colour	Function / assignment
	4	L	black	Power supply 230 VAC, 50-60 Hz, see type plate for voltage range
	3	N	blue	Neutral conductor
	1	PE	green/yellow	Protective earth
	8	0-10 V PWM	yellow	Control input 0 - 10 V or PWM, electrically isolated
	9	Tach	white	Tach output: open collector, 1 pulse per revolution, electrically isolated
	11	10V / max 1.1 mA	red	Voltage output 10 V / max. 1.1 mA, electrically isolated
	12	GND	blue	GND - Connection for control interface

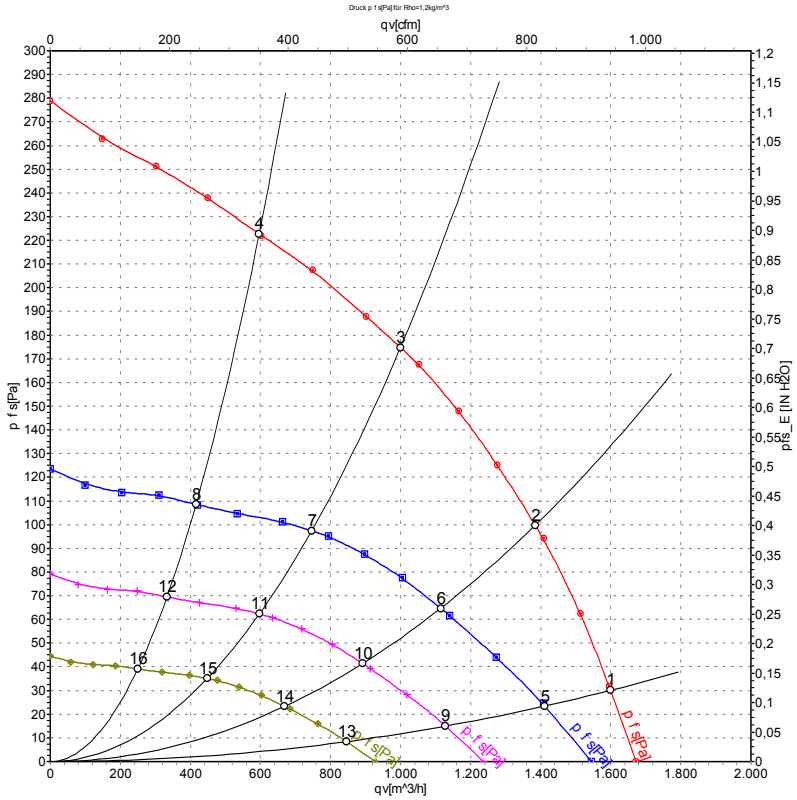
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Charts: Air flow 50 Hz



Measurement: LU-109566-1

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	q_V	p_{fs}	q_V	p_{fs}
	V	Hz	min^{-1}	W	A	m^3/h	Pa	cfm	inH2O
1	230	50	1130	170	1.25	1600	30	940	0.12
2	230	50	1245	160	1.19	1385	100	815	0.40
3	230	50	1340	123	0.92	1000	175	590	0.70
4	230	50	1435	86	0.65	595	225	350	0.90
5	230	50	1000	117	0.87	1410	24	830	0.10
6	230	50	1000	83	0.62	1115	65	655	0.26
7	230	50	1000	51	0.38	745	97	440	0.39
8	230	50	1000	29	0.22	415	108	245	0.43
9	230	50	800	60	0.44	1130	16	665	0.06
10	230	50	800	43	0.32	890	41	525	0.16
11	230	50	800	26	0.20	595	62	350	0.25
12	230	50	800	15	0.11	335	69	195	0.28
13	230	50	600	25	0.19	845	9	500	0.04
14	230	50	600	18	0.13	670	23	395	0.09
15	230	50	600	11	0.08	450	35	265	0.14
16	230	50	600	6.3	0.05	250	39	145	0.16

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

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