

D3G180-AB62-10

EC centrifugal fan

forward-curved, dual-intake
with housing (flange)



D3G180-AB62-10 ebmpapst Datasheet
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Nominal data

Type	D3G180-AB62-10	
Motor	M3G074-CF	
Phase		1~
Nominal voltage	VAC	230
Nominal voltage range	VAC	200 .. 277
Frequency	Hz	50/60
Method of obtaining data		ml
Speed (rpm)	min ⁻¹	1130
Power consumption	W	170
Current draw	A	1.25
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	60

ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment
Subject to change



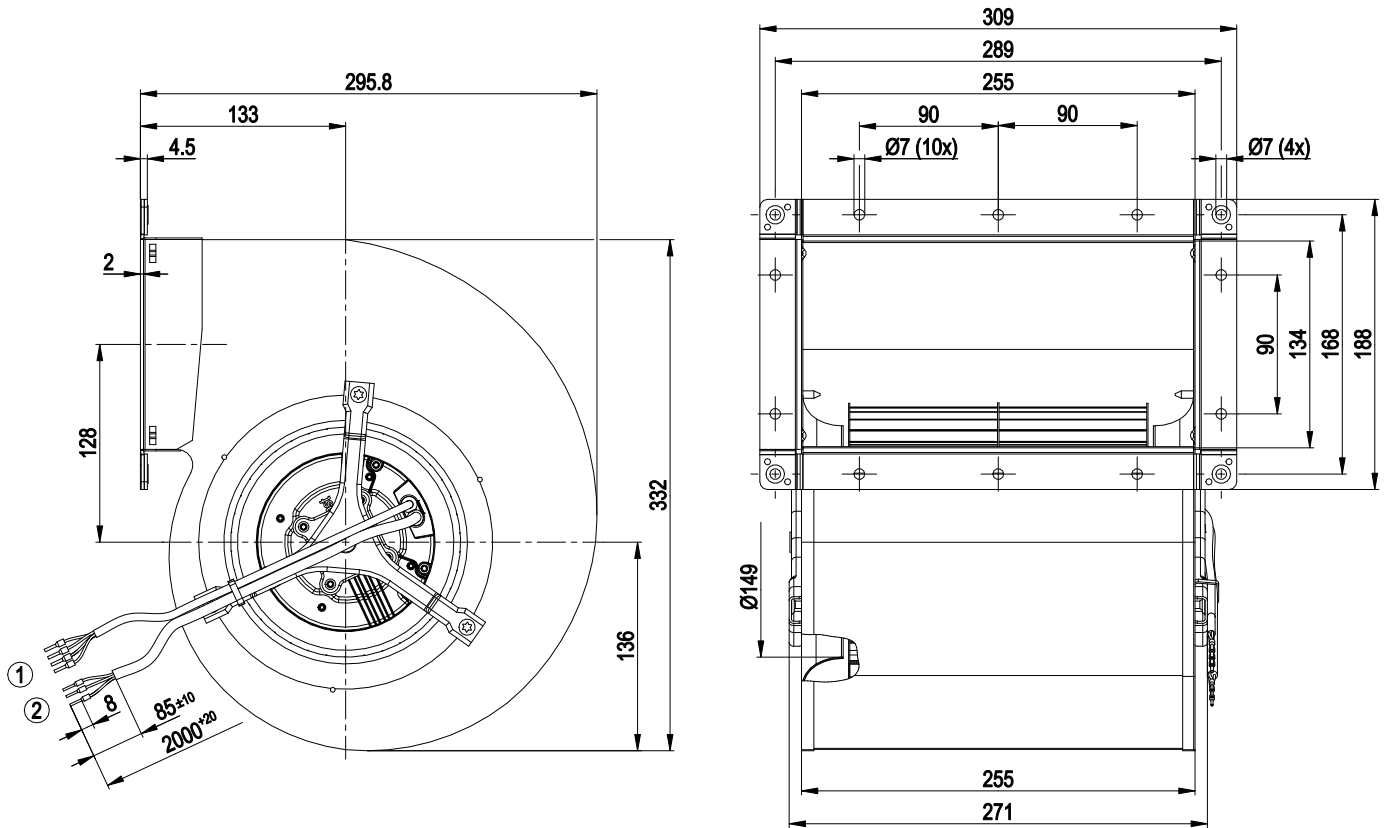
Technical description

Weight	6.98 kg
Size	180 mm
Motor size	74
Rotor surface	Thick-film passivated
Electronics housing material	Die-cast aluminum
Impeller material	Sheet steel, galvanized
Housing material	Sheet steel, galvanized
Motor suspension	Motor vibration-damped on both sides
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP44
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	H1
Max. permitted ambient temp. for motor (transport/storage)	+80 °C
Min. permitted ambient temp. for motor (transport/storage)	-40 °C
Installation position	Shaft horizontal
Condensation drainage holes	On rotor side
Mode	S1
Motor bearing	Ball bearing
Technical features	- Output 10 VDC, max. 1.1 mA - Tach output - Power limiter - Motor current limitation - Soft start - Control input 0-10 VDC / PWM - Control interface with SELV potential safely disconnected from the mains - Thermal overload protection for motor
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	< 3.5 mA mA
Motor protection	Thermal overload protector (TOP) internally connected
With cable	Variable
Protection class assignment	I; If a protective earth is connected by the customer This component for installation may have several local protection classes. This information relates to this component's basic design. The final protection class is based on the component's intended installation and connection.
Conformity with standards	EN 60034-1; EN 60204-1; EN 60335-1; EN 61800-5-1; EN 62368-1; CE

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Product drawing



- | | |
|---|--------------------------------------|
| 1 | Cable PVC AWG22, 4x crimped ferrules |
| 2 | Cable PVC AWG18, 3x crimped ferrules |

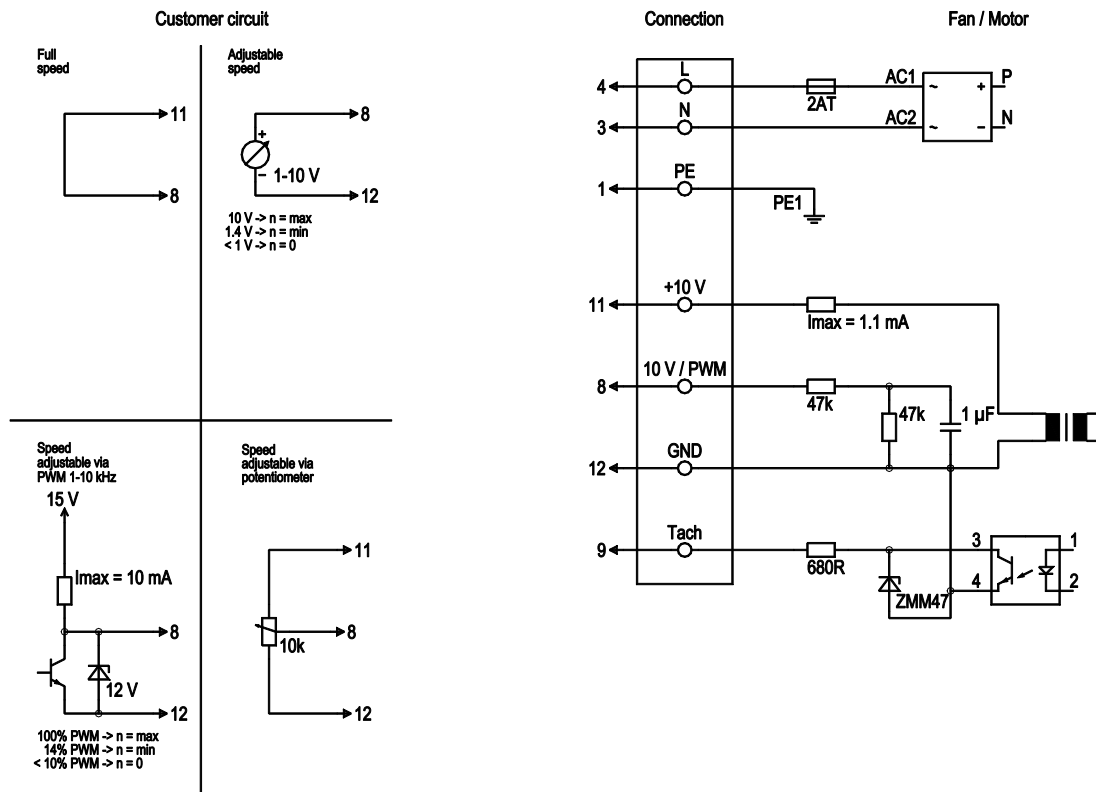


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Connection diagram

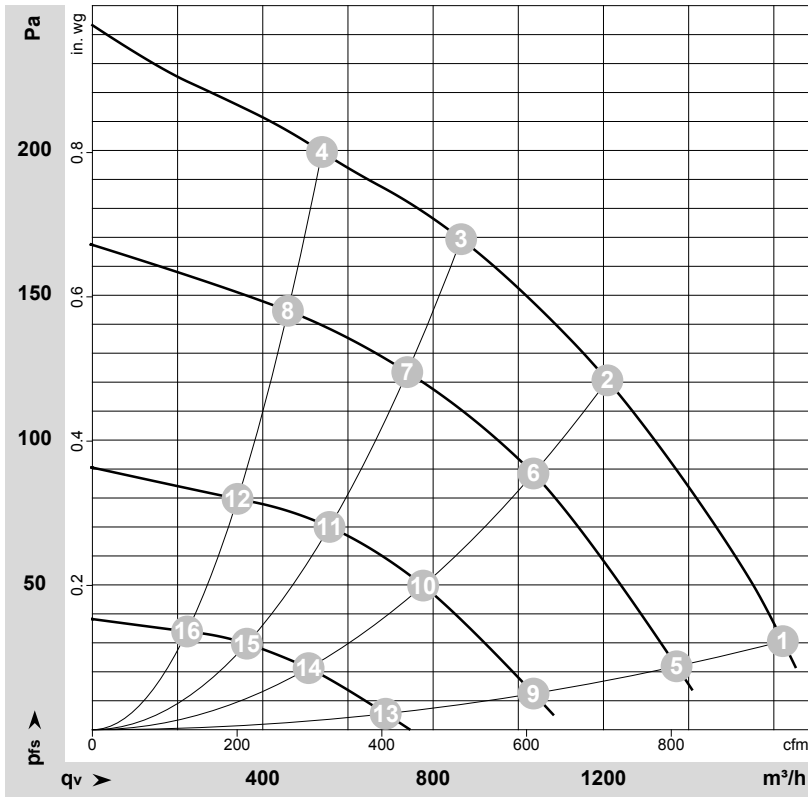


No.	Conn.	Designation	Color	Function/assignment
	4	L	black	Power supply 230 VAC, 50-60 Hz, see nameplate for voltage range
	3	N	blue	Neutral conductor
	1	PE	green/yellow	Protective earth
	8	0-10 V PWM	yellow	Control input 0-10 V or PWM, electrically isolated
	9	Tach	white	Tach output: open collector, 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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Curves: Air performance 50 Hz



$$\rho = 1.15 \text{ kg/m}^3 \pm 2 \%$$

Measurement: LU-186983-1
Measurement: LU-187671-1
Measurement: LU-187673-1
Measurement: LU-187675-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters have to be checked on the installed unit.

Measured values

	Wired	U	f	n	P _{ed}	I	LpA _{in}	LwA _{in}	q _V	p _{fs}	q _V	p _{fs}
		V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	m³/h	Pa	cfm	in. wg
1	1~	230	50	1130	170	1.25	59	71	1620	30	955	0.12
2	1~	230	50	1255	131	1.07	55	67	1210	120	710	0.48
3	1~	230	50	1330	100	0.84	53	65	865	170	510	0.68
4	1~	230	50	1385	75	0.65	52	64	540	200	315	0.80
5	1~	230	50	980	103	0.86	55	67	1370	22	810	0.09
6	1~	230	50	1070	82	0.71	51	63	1035	89	610	0.36
7	1~	230	50	1125	59	0.53	49	60	740	124	435	0.50
8	1~	230	50	1165	42	0.38	48	59	460	145	270	0.58
9	1~	230	50	740	46	0.42	48	60	1035	13	610	0.05
10	1~	230	50	805	37	0.35	44	56	775	50	455	0.20
11	1~	230	50	840	27	0.26	41	53	555	70	330	0.28
12	1~	230	50	860	20	0.20	40	52	340	80	200	0.32
13	1~	230	50	490	16	0.16	37	49	690	6	405	0.02
14	1~	230	50	520	13	0.14	33	44	510	21	300	0.08
15	1~	230	50	545	11	0.11	32	42	365	30	215	0.12
16	1~	230	50	560	9.0	0.10	32	41	220	34	130	0.14

Wired = Wiring · U = Voltage · f = Frequency · n = Speed (rpm) · P_{ed} = Power consumption · I = Current draw · LpA_{in} = Sound pressure level intake side · LwA_{in} = Sound power level intake side
q_V = Air flow · p_{fs} = Pressure increase

