

AC centrifugal fan

forward-curved, single-intake

with housing (flange)

G4D180-AC04-16 ebmpapst Datasheet

sales@fansco.com

www.fansco.com

Nominal data

Type	G4D180-AC04-16	
Motor	M4D068-DF	
Phase		3~
Nominal voltage	VAC	460
Wiring		Y
Frequency	Hz	60
Method of obtaining data		fa
Valid for approval/standard		CE
Speed (rpm)	min ⁻¹	1450
Power consumption	W	150
Current draw	A	0.23
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	95

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



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Technical description

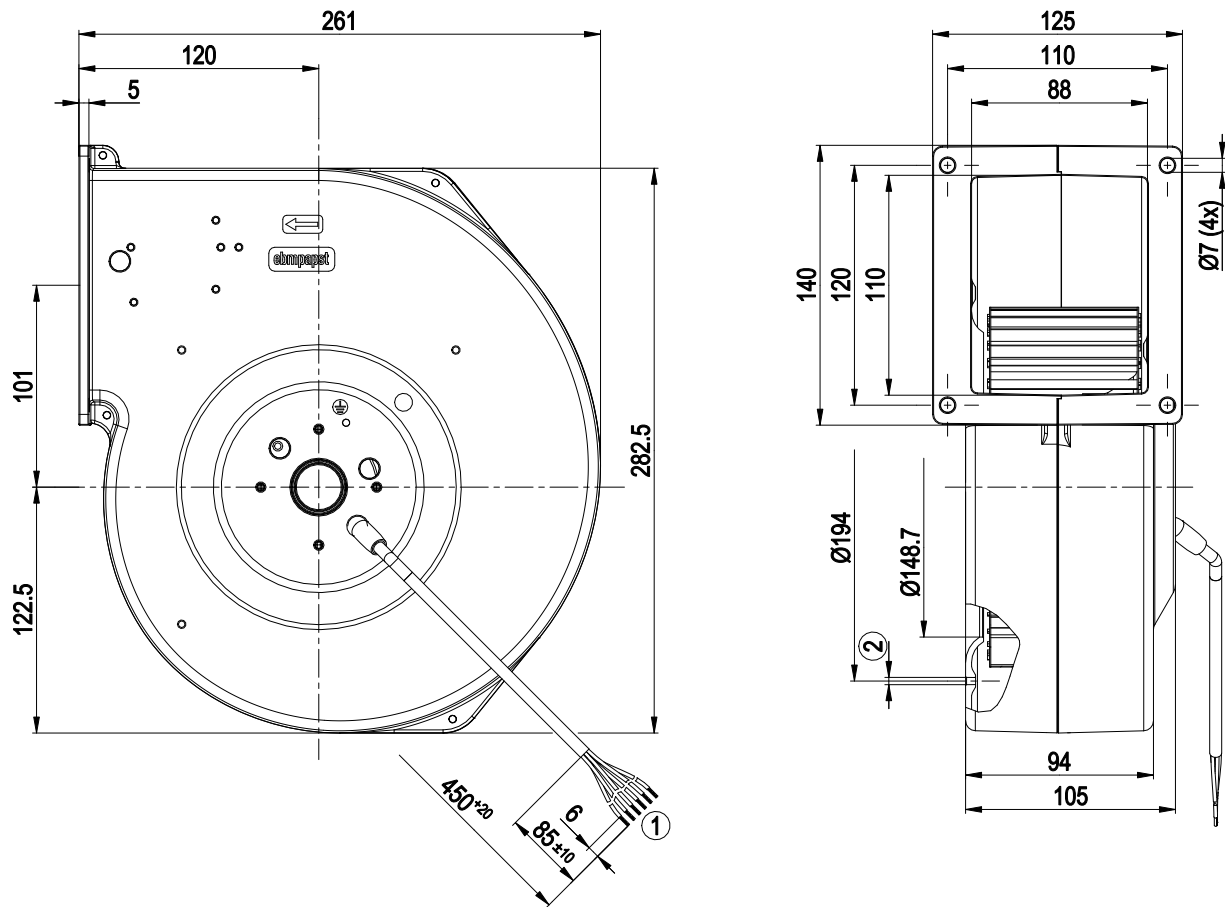
Weight	3.9 kg
Size	180 mm
Motor size	68
Rotor surface	Painted black
Impeller material	Sheet steel, painted black
Housing material	Die-cast aluminum
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP44; installation- and position-dependent as per EN 60034-5
Insulation class	"F"
Moisture (F) / Environmental (H) protection class	F2-2; 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 or rotor on bottom; rotor on top on request
Condensation drainage holes	On rotor side
Mode	S1
Motor bearing	Ball bearing
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	< 0.75 mA
Motor protection	Thermal overload protector (TOP) with basic insulation
With cable	Axial
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1; CE



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Product drawing



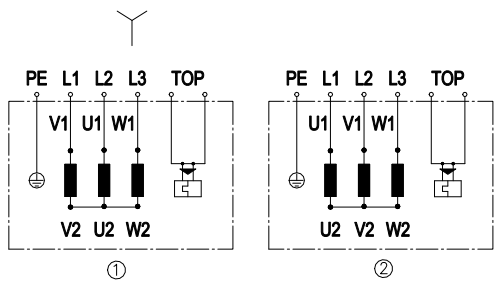
- | | |
|---|---|
| 1 | Cable silicone-free 6G 0.5 mm ² , 6x crimped splices |
| 2 | For self-tapping M4 screws |



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Connection diagram



Change of rotation direction by reversing two phases

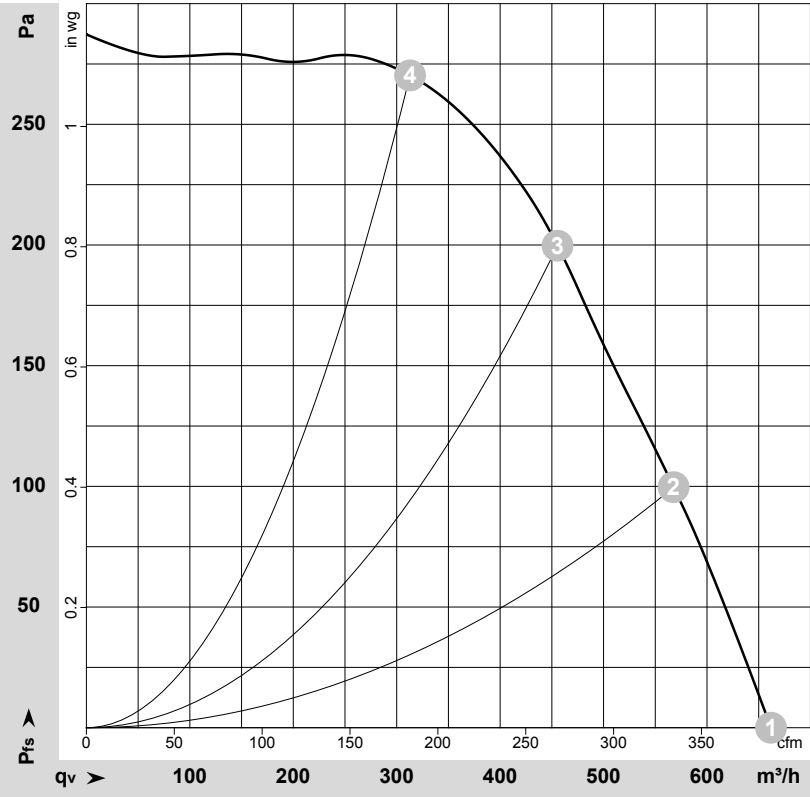
	Three-phase motor
Y	Star connection
1	Counterclockwise operation
L1	= V1 = blue
L2	= U1 = black
L3	= W1 = brown
2	Clockwise operation
L1	= U1 = black
L2	= V1 = blue
L3	= W1 = brown
PE	Green/yellow
TOP	2x gray



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Curves: Air performance 60 Hz



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

Measurement: LU-183240-1

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 _e	I	q _v	P _{fs}	q _v	P _{fs}
		V	Hz	min ⁻¹	W	A	m³/h	Pa	cfm	in. wg
1	Y	460	60	1450	150	0.23	660	0	390	0.00
2	Y	460	60	1525	122	0.19	570	100	335	0.40
3	Y	460	60	1600	96	0.17	455	200	270	0.80
4	Y	460	60	1675	70	0.15	315	270	185	1.08

Wired = Wiring · U = Voltage · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · q_v = Air flow · p_{fs} = Pressure increase

