

G4D180-GF20-01

AC centrifugal fan

forward curved, single inlet
with housing (large flange)

ebm-papst Mulfingen GmbH & Co. KG

Bachmühle 2 · D-74673 Mulfingen

Phone +49 7938 81-0

Fax +49 7938 81-110

info1@de.ebmpapst.com

www.ebmpapst.com

Limited partnership · Headquarters Mulfingen

County court Stuttgart · HRA 590344

General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen

County court Stuttgart · HRB 590142

Nominal data

Type	G4D180-GF20-01				
Motor	M4D074-DF				
Phase		3~	3~	3~	3~
Nominal voltage	VAC	230	230	400	400
Connection		Δ	Δ	Y	Y
Frequency	Hz	50	60	50	60
Type of data definition		fa	fa	fa	fa
Valid for approval / standard		CE	CE	CE	CE
Speed	min ⁻¹	1290	1370	1290	1370
Power input	W	195	265	195	265
Current draw	A	0.70	0.82	0.40	0.47
Min. back pressure	Pa	0	0	0	0
Max. ambient temperature	°C	60	40	60	40
Starting current	A	1.8	1.65	1.1	0.95

ml = max. load · me = max. efficiency · fa = running at free air · cs = customer specs · cu = customer unit
Subject to alterations



G4D180-GF20-01

AC centrifugal fan

forward curved, single inlet
with housing (large flange)

Technical features

Mass	6.1 kg
Size	180 mm
Surface of rotor	Coated in black
Material of impeller	Sheet steel, galvanized
Housing material	Sheet steel, galvanized
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 44
Insulation class	"B"
Humidity class	F5
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
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	< 0.75 mA
Cable exit	Variable
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1
Approval	CCC



AC centrifugal fan

Product drawing

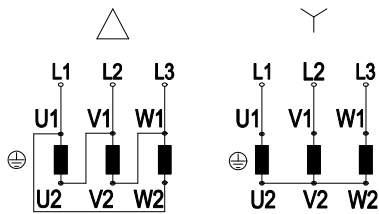


G4D180-GF20-01

AC centrifugal fan

forward curved, single inlet
with housing (large flange)

Connection screen



Note: Direction of rotation changes when two phases are reversed

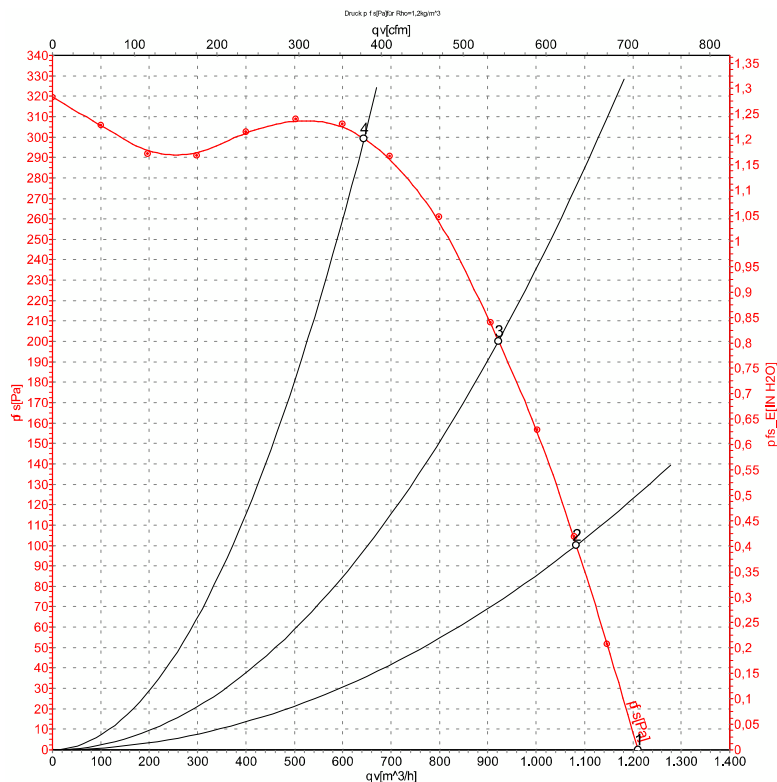
Δ	Delta connection	Y	Star connection	L1	black
L2	blue	L3	brown	U1	black
V1	blue	W1	brown	U2	green
V2	white	W2	yellow		



AC centrifugal fan

forward curved, single inlet
with housing (large flange)

Charts: Air flow 60 Hz



Measurement: LU-105226

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: L_{WA} measured as per ISO 13347 / L_{pA} 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

	Conn.	U	f	n	P _e	I	q _v	p _{ts}
		V	Hz	min ⁻¹	W	A	m³/h	Pa
1	Y	400	60	1370	265	0.47	1210	0
2	Y	400	60	1425	246	0.44	1085	100
3	Y	400	60	1525	201	0.37	920	200
4	Y	400	60	1635	135	0.29	645	300

Conn. = Connection · U = Supply voltage · f = Frequency · n = Speed · P_e = Power input · I = Current draw · q_v = Air flow · p_{ts} = Pressure increase

