

AC centrifugal fan

forward curved, single inlet

with housing (flange)

ebm-papst Mulfingen GmbH & Co. KG

Bachmühle 2

D-74673 Mulfingen

Phone: +49(0)7938/81-0

Fax: +49(0)7938/81-110

info1@de.ebmpapst.com

www.ebmpapst.com

Nominal data

Type	G4D180-FF20-01				
Motor	M4D074-DF				
Phase		3~	3~	3~	3~
Nominal voltage	[V]	230	230	400	400
Connection		D	D	Y	Y
Frequency	[Hz]	50	60	50	60
Type of data definition		rfa	rfa	rfa	rfa
Valid for approval / standard		CE	CE	CE	CE
Speed	[min ⁻¹]	1330	1440	1330	1440
Power input	[W]	175	240	175	240
Current draw	[A]	0.68	0.75	0.39	0.43
Min. back pressure	[Pa]	0	0	0	0
Max. ambient temperature	[°C]	60	45	60	45

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

G4D180-FF20-01

AC centrifugal fan

forward curved, single inlet
with housing (flange)

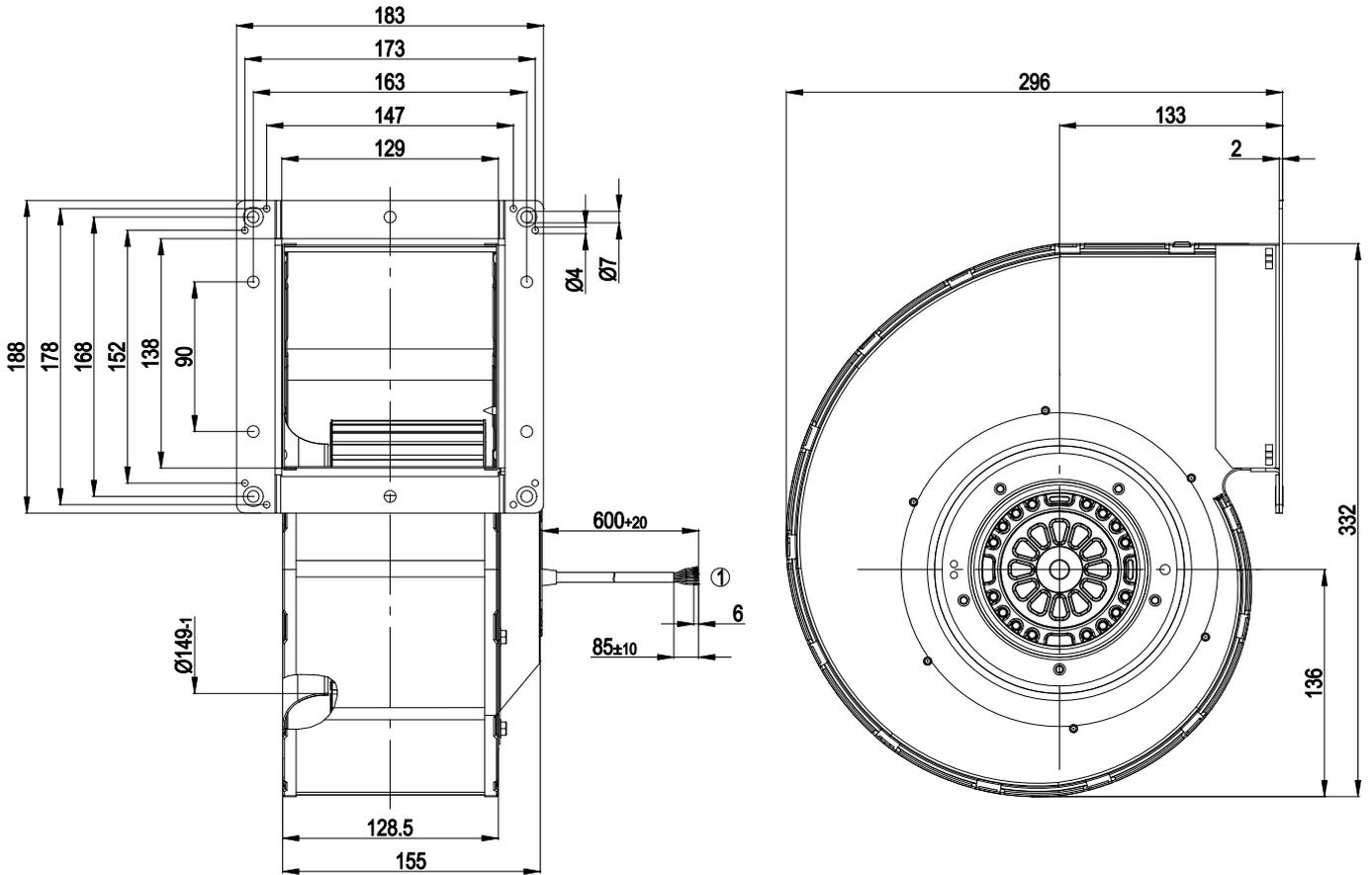
Technical features

Leackage current	< 0.75 mA
Size	180 mm
Operation mode	S1
Direction of rotation	Clockwise, seen on rotor
Mounting position	Any
Humidity class	F5
Insulation class	"B"
Cable exit	Variable
Condensate discharge holes	Rotor-side
Bearing motor	Ball bearing
Mass	6 kg
Housing material	Sheet steel, galvanized
Material of impeller	Sheet steel, galvanized
Product conforming to standard	EN 60335-1
Surface of rotor	Coated in black
Type of protection	IP 44
Protection class	I
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Approval	CCC

AC centrifugal fan

forward curved, single inlet
with housing (flange)

Product drawing

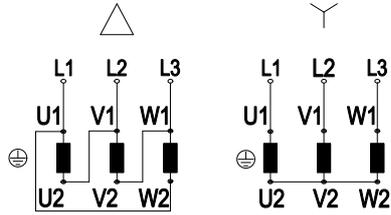


1 Connection line PVC, 7x brass lead tips crimped

AC centrifugal fan

forward curved, single inlet
with housing (flange)

Connection screen



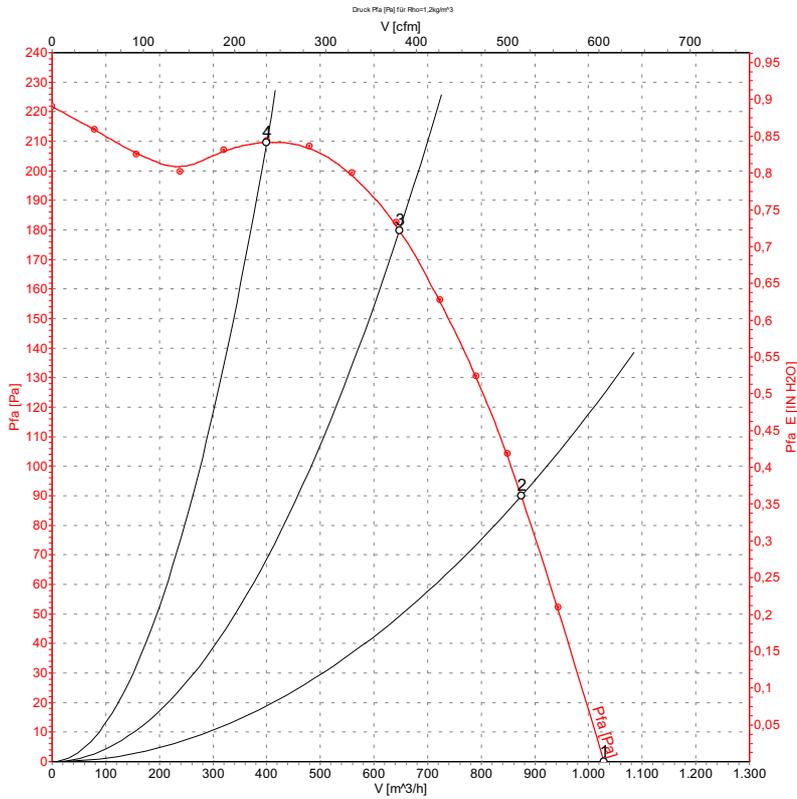
Note: Direction of rotation changes when two phases are reversed

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 (flange)

Charts: Air flow 50 Hz

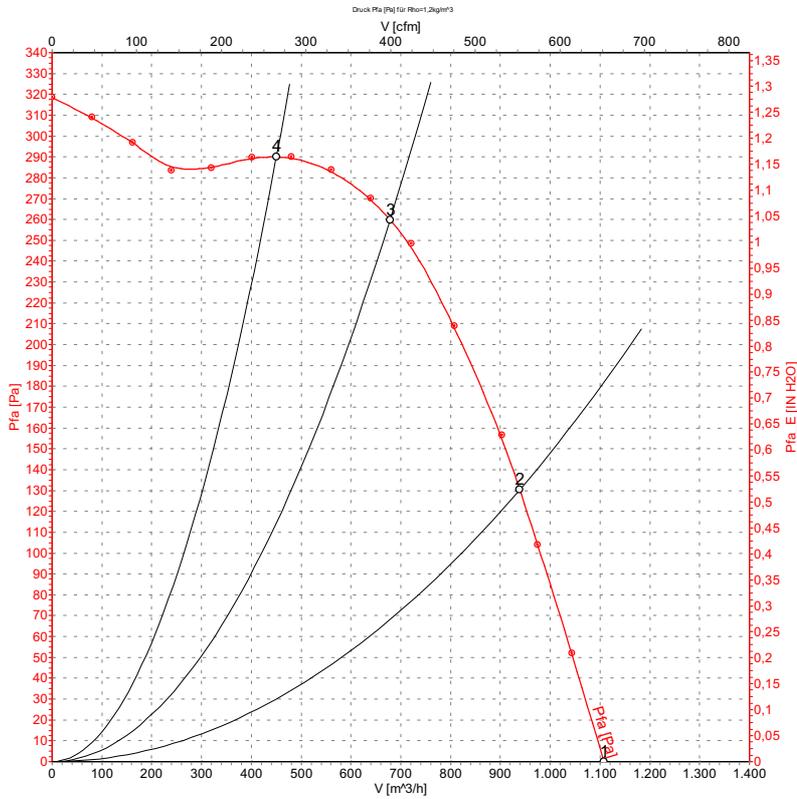


Measurement: LU-105219

Measured values

	Conn.	U	f	n	P ₁	I	\hat{V}	p _{fa}
		[V]	[Hz]	[min ⁻¹]	[W]	[A]	[m ³ /h]	[Pa]
1	Y	400	50	1330	175	0.39	1030	0
2	Y	400	50	1360	153	0.36	875	90
3	Y	400	50	1410	116	0.34	650	180
4	Y	400	50	1445	87	0.33	400	210

Charts: Air flow 60 Hz



Measurement: LU-105221

Measured values

	Conn.	U	f	n	P ₁	I	\hat{V}	P _{fa}
		[V]	[Hz]	[min ⁻¹]	[W]	[A]	[m ³ /h]	[Pa]
1	Y	400	60	1440	240	0.43	1110	0
2	Y	400	60	1515	204	0.38	940	130
3	Y	400	60	1625	143	0.30	680	260
4	Y	400	60	1690	102	0.26	450	290