G2D180-CB01-11

AC centrifugal fan

forward curved, single inlet

with housing (flange)

G2D180-CB01-11 ebmpapst Datasheet
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Limited partnership · Headquarters Mulfingen
County court Stuttgart · HRA 590344

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ErP2015 EXCEEDS THE NORM

Nominal data

Type	**G2D180-CB01-11**	
Motor	**M2D074-EI**	
Phase		1~
Nominal voltage	VAC	400
Connection		Y
Frequency	Hz	50
Type of data definition		fa
Valid for approval / standard		CE
Speed	min^{-1}	2150
Power input	W	400
Current draw	A	0.64
Min. back pressure	Pa	0
Max. ambient temperature	°C	80

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

Data according to ErP directive

Installation category	A
Efficiency category	Static
Variable speed drive	No
Specific ratio*	1.01

* Specific ratio = 1 + p_{fs} / 100 000 Pa

		Actual	Request 2013	Request 2015
Overall efficiency η_{es}		36.4	26.1	33.1
Efficiency grade N		47.3	37	44
Power input P_e	kW	0.19		
Air flow q_v	m^3/h	405		
Pressure increase p_{fs}	Pa	647		
Speed n	min^{-1}	2650		

Data established at point of optimum efficiency

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Technical features

Mass	5.5 kg
Size	180 mm
Surface of rotor	Coated in black
Material of impeller	Sheet steel, hot-dip galvanised
Housing material	Die-cast aluminium
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 44; Depending on installation and position as per EN 60034-5
Insulation class	"F"
Humidity class	F5
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Shaft horizontal or rotor on bottom; rotor on top on request
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
Motor protection	Thermal overload protector (TOP) brought out
Cable exit	Axial
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1; CE

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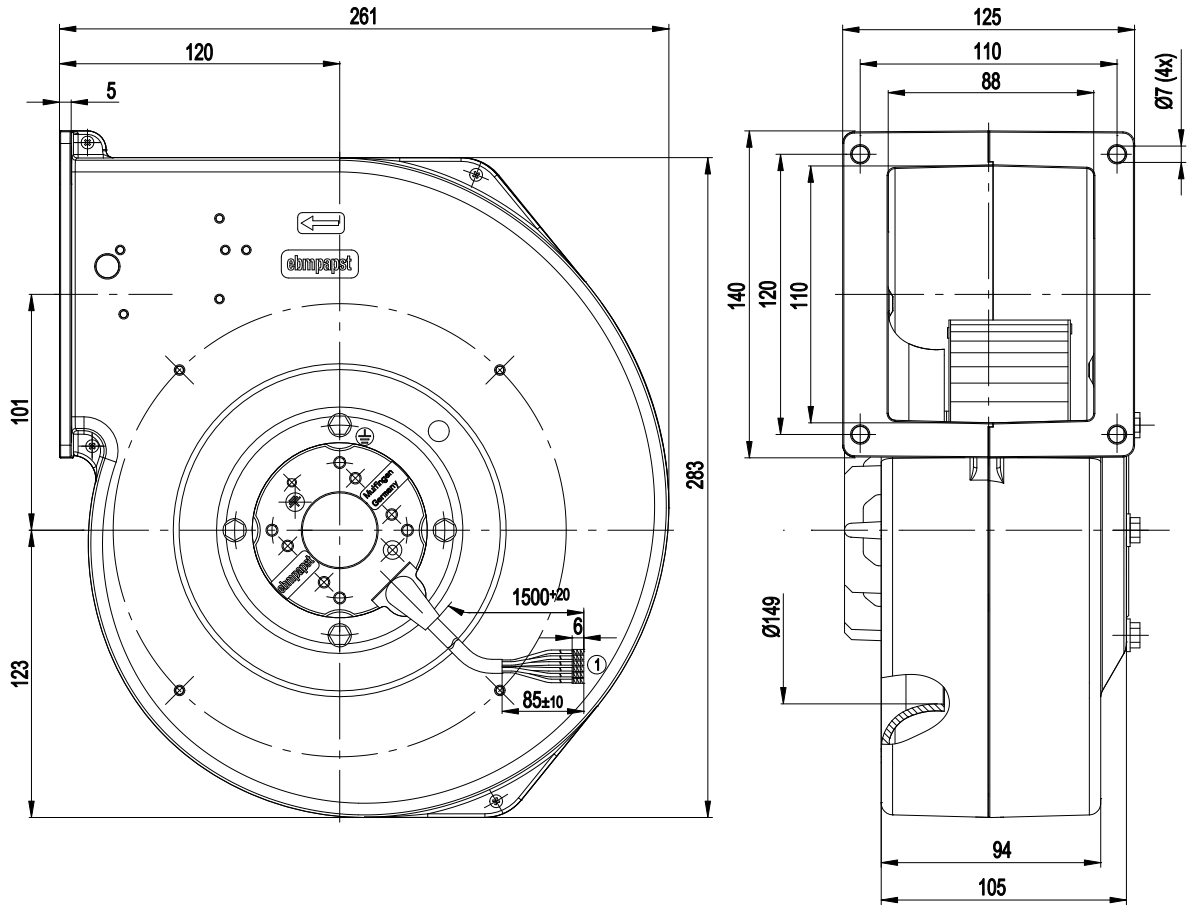
Product drawing



1	Connection line halogen-free, 6x brass lead tips crimped

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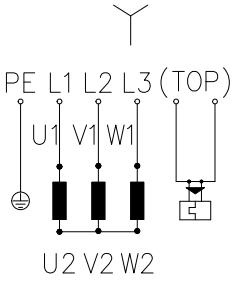
Connection screen



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

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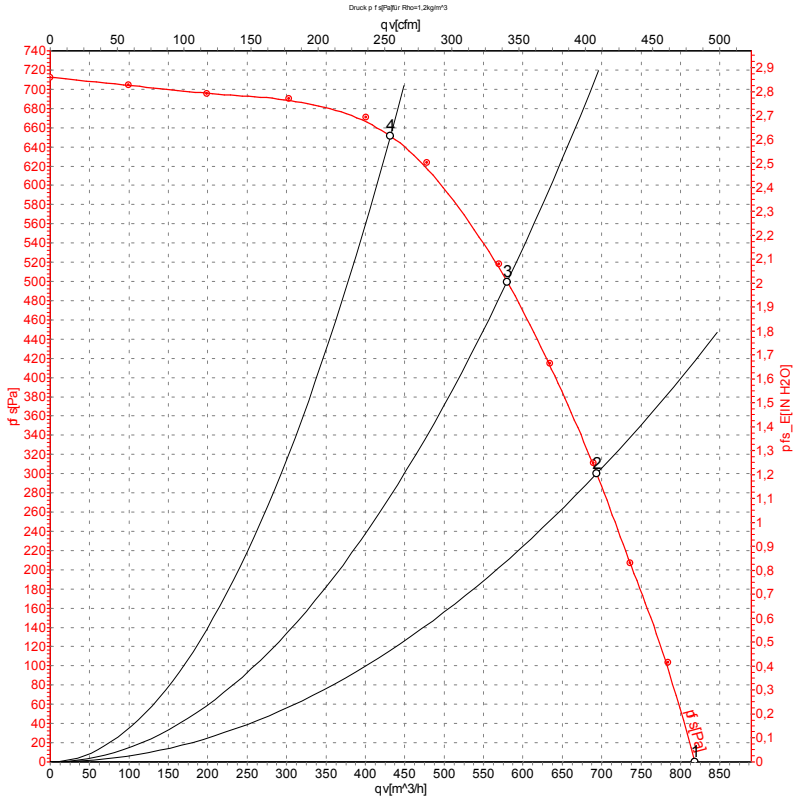
Charts: Air flow 50 Hz Y



Measurement: LU-68753

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

	Conn.	U	f	n	P_e	I	qv	p_{fs}
		V	Hz	min^{-1}	W	A	m^3/h	Pa
1	Y	400	50	2150	400	0.64	815	0
2	Y	400	50	2340	333	0.55	695	300
3	Y	400	50	2475	278	0.47	580	500
4	Y	400	50	2625	211	0.38	430	650

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