G4D200-CL12-01

AC centrifugal fan

forward curved, single inlet

with housing (large flange)

G4D200-CL12-01 ebmpapst Datasheet
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ErP2015 EXCEEDS THE NORM

Nominal data

Type	**G4D200-CL12-01**
Motor	**M4D074-EI**

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	ml	fa	ml
Valid for approval / standard		CE	CE	CE	CE
Speed	min^{-1}	1300	1550	1300	1550
Power input	W	360	340	360	340
Current draw	A	1.14	1.07	0.66	0.62
Min. back pressure	Pa	0	250	0	250
Min. ambient temperature	°C	-25	-25	-25	-25
Max. ambient temperature	°C	45	30	45	30
Starting current	A	1.7	1.7	1.7	1.7

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	B
Efficiency category	Total
Variable speed drive	No
Specific ratio*	1.00

* Specific ratio = 1 + p_f / 100 000 Pa

		Actual	Request 2013	Request 2015
Overall efficiency η_e	%	37.8	30.8	37.8
Efficiency grade N		49	42	49
Power input P_e	kW	0.17		
Air flow q_v	m^3/h	800		
Pressure increase p_f	Pa	287		
Speed n	min^{-1}	1425		

Data definition with optimum efficiency. LU-105245
The ErP data is determined using a motor-impeller combination in a standardised measurement configuration.

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Technical features

Mass	7.4 kg
Size	200 mm
Surface of rotor	Coated in black
Material of impeller	Sendzimir galvanized sheet steel
Housing material	Sendzimir galvanized sheet steel
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 44; Depending on installation and position as per EN 60034-5
Insulation class	"B"
Humidity class	F1-2
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
Cable exit	Axial
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1
Approval	CCC

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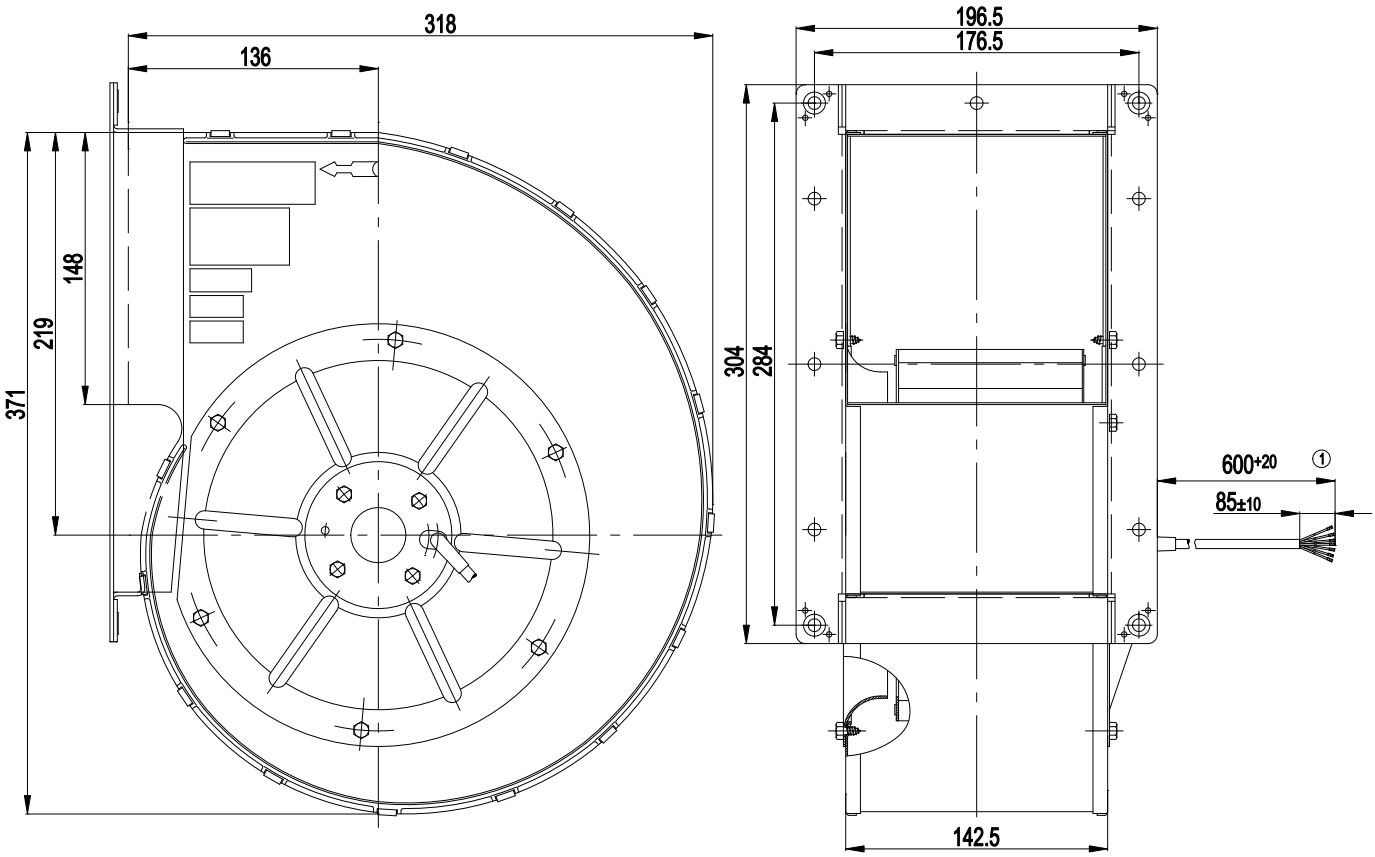
Product drawing



1	Connection line PVC 7G 0.5 mm², 7x brass lead tips crimped

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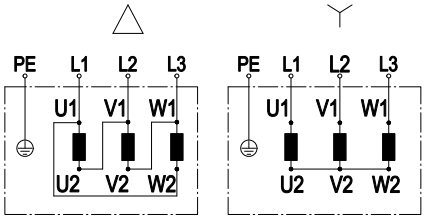
Connection screen



Change direction of rotation by reversing two phases

	Three-phase motor	Δ	Delta connection	Y	Star connection
L1	= U1 = black	L2	= V1 = blue	L3	= W1 = brown
U2	green	V2	white	W2	yellow
PE	green/yellow				

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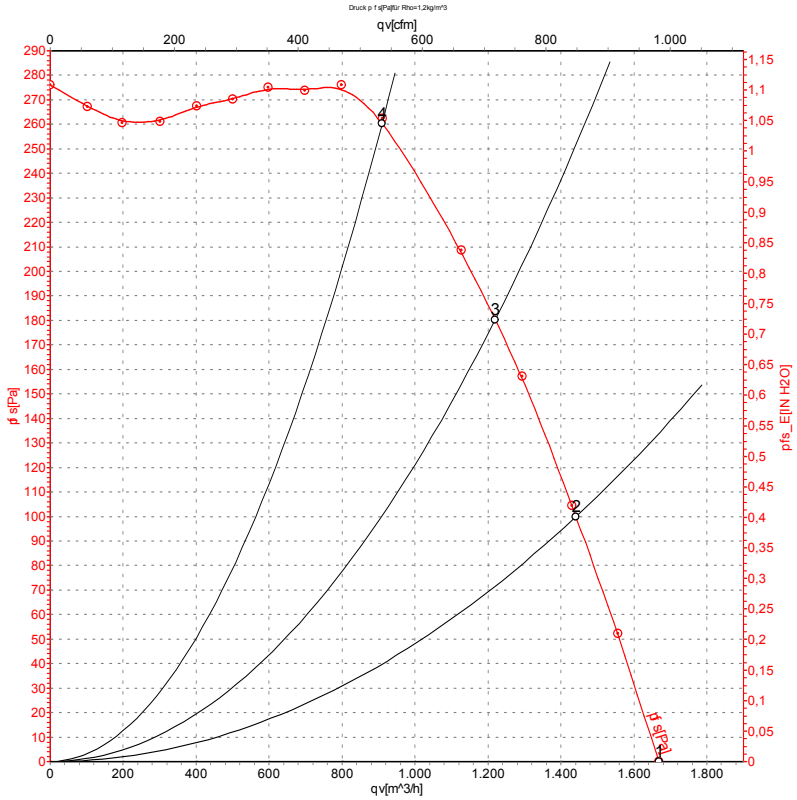
Charts: Air flow 50 Hz



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

	U	f	n	P_e	I	qv	p_{fs}
	V	Hz	min^{-1}	W	A	m^3/h	Pa
1	400	50	1300	360	0.66	1670	0
2	400	50	1335	299	0.58	1440	100
3	400	50	1370	251	0.53	1220	180
4	400	50	1410	195	0.48	910	260

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

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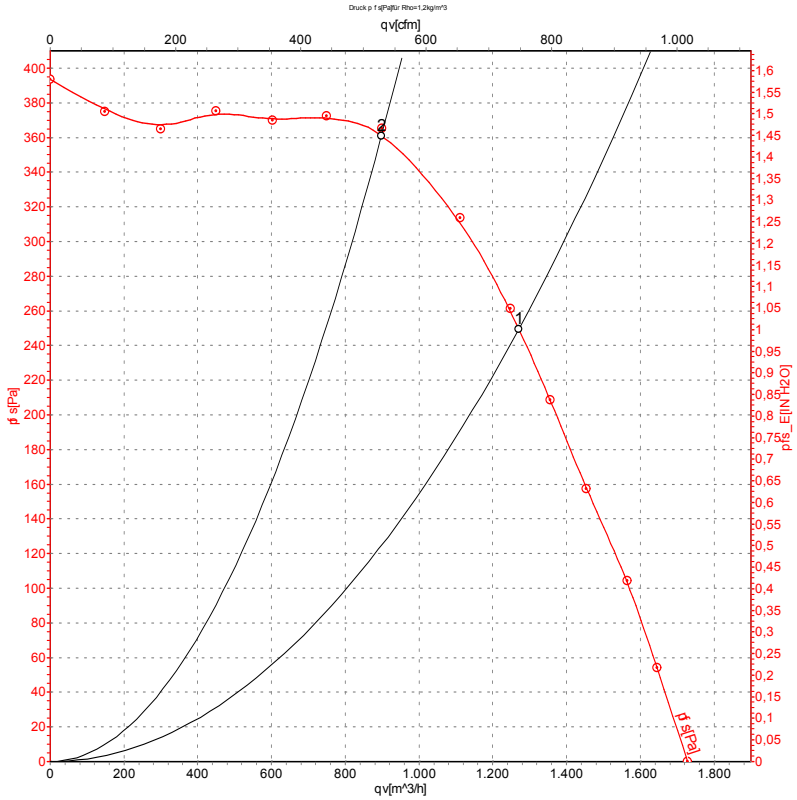
Charts: Air flow 60 Hz



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

	U	f	n	P_e	I	qv	p_{fs}
	V	Hz	min^{-1}	W	A	m^3/h	Pa
1	400	60	1550	340	0.62	1270	250
2	400	60	1635	239	0.45	900	365

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