

D4D225-CC01-02

AC centrifugal fan

forward curved, dual inlet
with housing (large flange)



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Nominal data

Type	D4D225-CC01-02			
Motor	M4D074-LA			
Phase		3~	3~	3~
Nominal voltage	VAC	230	230	400
Connection		Δ	Δ	Y
Frequency	Hz	50	60	60
Type of data definition		ml	ml	ml
Valid for approval / standard		CE	CE	CE
Speed	min ⁻¹	1040	1170	1040
Power input	W	660	650	660
Current draw	A	2.08	2.08	1.2
Min. back pressure	Pa	80	200	80
Min. ambient temperature	°C	-25	-25	-25
Max. ambient temperature	°C	40	40	40

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 = $1 + p_f / 100\,000\text{ Pa}$

	Actual	Request 2013	Request 2015
Overall efficiency η_e	46.8	32.5	39.5
Efficiency grade N	56.3	42	49
Power input P_e	kW	0.31	
Air flow q_v	m ³ /h	1505	
Pressure increase p_f	Pa	350	
Speed n	min ⁻¹	1340	

Data established at point of optimum efficiency



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Technical features

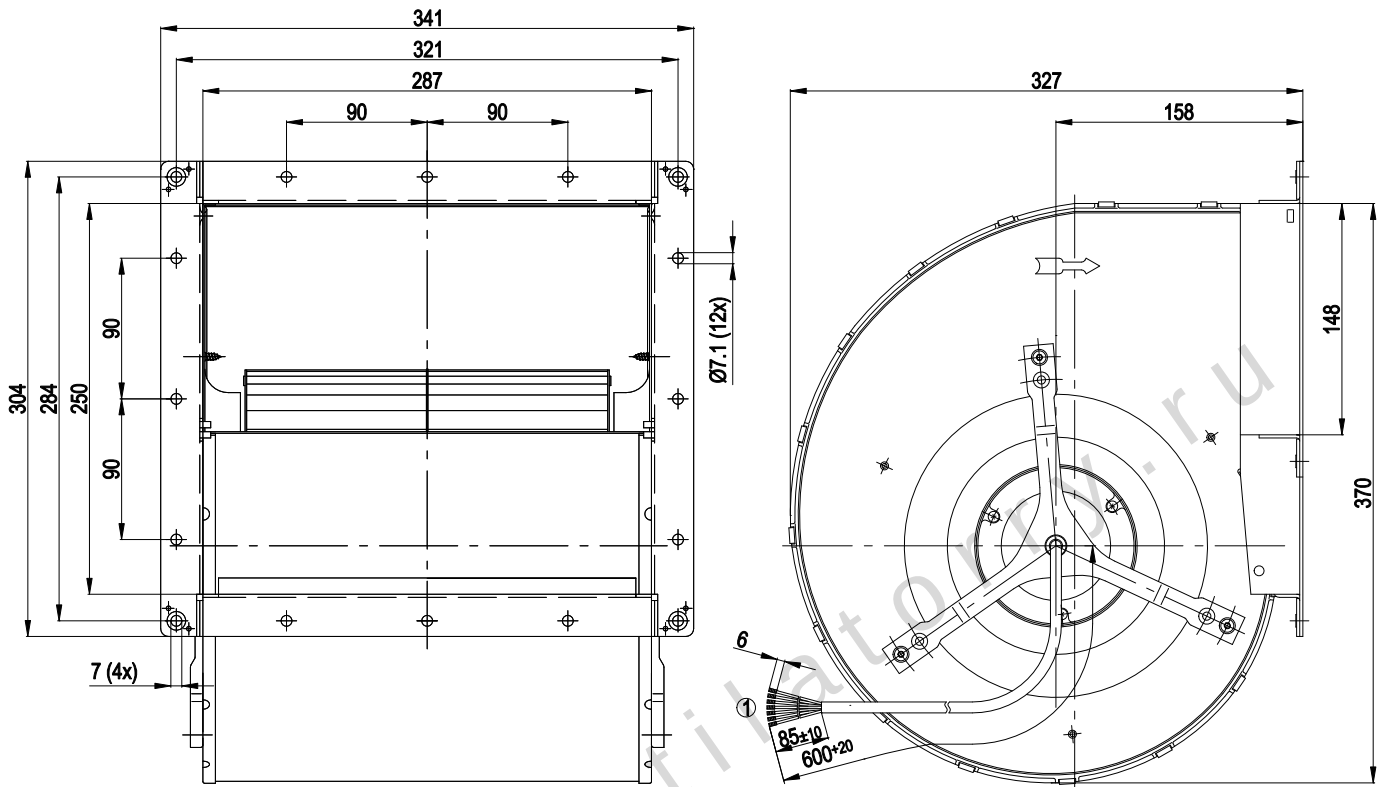
Mass	12.5 kg
Size	225 mm
Surface of rotor	Coated in black
Material of impeller	Sheet steel, hot-galvanised
Housing material	Sheet steel, hot-galvanised
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP 22
Insulation class	"B"
Humidity class	F2-1
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Any
Condensate discharge holes	None
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)
Approval	CCC

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Product drawing



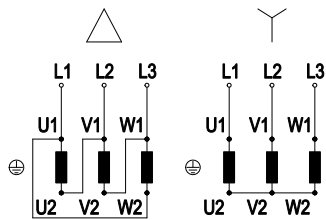
1 Connection line AWG20, 7x brass lead tips crimped

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Connection screen



Note: Direction of rotation changes when two phases are reversed

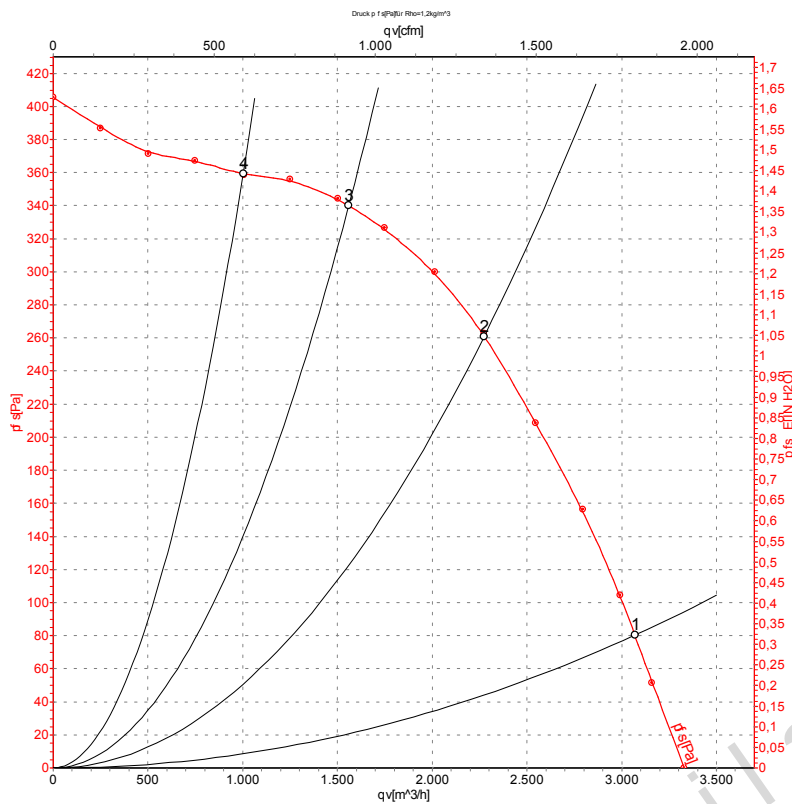
Δ	Delta connection	Y	Star connection	L1	= U1 = black
L2	= V1 = blue	L3	= W1 = brown		

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Charts: Air flow 50 Hz



Measurement: LU-105303

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	Pe	I	qv	pfs
		V	Hz	min ⁻¹	W	A	m³/h	Pa
1	Y. aus	400	50	1040	660	1.20	3070	80
2	Y. aus	400	50	1225	473	0.91	2275	260
3	Y. aus	400	50	1330	323	0.71	1560	340
4	Y. aus	400	50	1385	240	0.63	1000	360

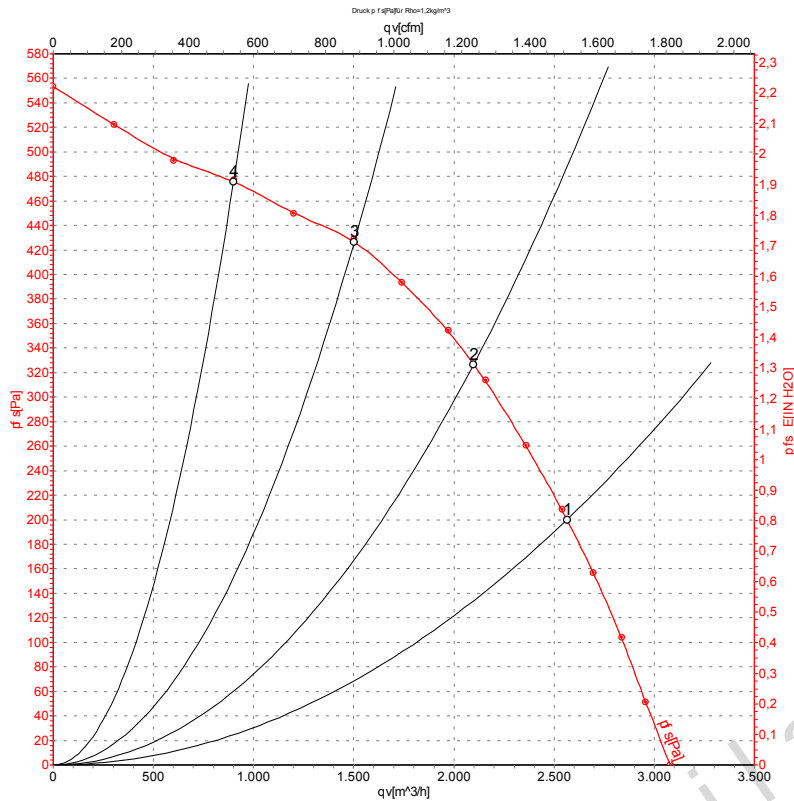
Conn. = Connection · U = Supply voltage · f = Frequency · n = Speed · Pe = Power input · I = Current draw · qv = Air flow · pfs = Pressure increase

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Charts: Air flow 60 Hz



Measurement: LU-105306

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	qv	p _{fs}
		V	Hz	min ⁻¹	W	A	m³/h	Pa
1	Y. aus	400	60	1170	650	1.20	2565	200
2	Y. aus	400	60	1325	554	1.01	2100	325
3	Y. aus	400	60	1495	415	0.78	1500	425
4	Y. aus	400	60	1590	316	0.64	900	480

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