D4D225-CC01-23

AC centrifugal fan

forward curved, dual inlet

with housing (large flange)

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ErP2015 EXCEEDS THE NORM

Nominal data

Type	**D4D225-CC01-23**
Motor	**M4D074-LA**

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		ml	ml	ml	ml
Valid for approval / standard		CE	CE	CE	CE
Speed	min^{-1}	1040	1170	1040	1170
Power input	W	660	650	660	650
Current draw	A	2.08	2.08	1.2	1.2
Min. back pressure	Pa	80	200	80	200
Min. ambient temperature	°C	-25	-25	-25	-25
Max. ambient temperature	°C	60	60	60	60

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

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Technical features

Mass	12.1 kg
Size	225 mm
Surface of rotor	Uncoated
Material of impeller	Sheet steel, galvanised
Housing material	Sheet steel, galvanised
Motor suspension	Motor mounted anti-vibration on both sides
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP 22
Insulation class	"F"
Humidity class	F2-1
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Shaft horizontal
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
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

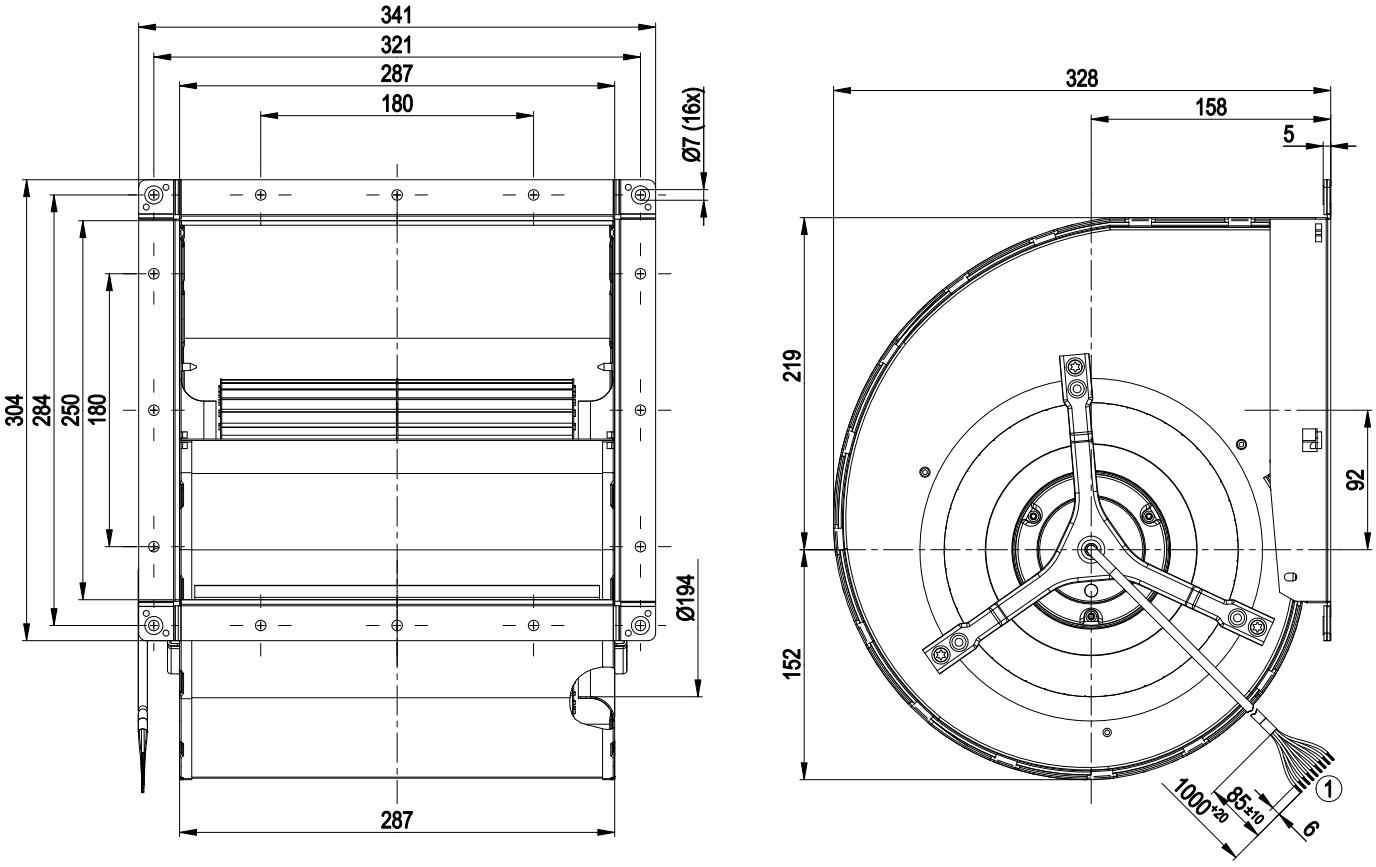
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Product drawing



1	Connection line ETFE AWG20, 9x lead tips crimped

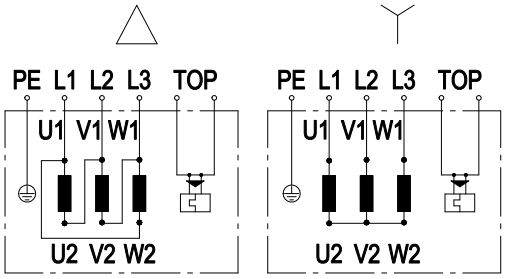
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Connection screen



	Three-phase motor	Y	Star connection	Δ	Delta connection
L1	= U1 = black 1	L2	= V1 = black 2	L3	= W1 = black 3
V2	= black 4	U2	= black 5	W2	= black 6
TOP	2x white	PE	green/yellow		

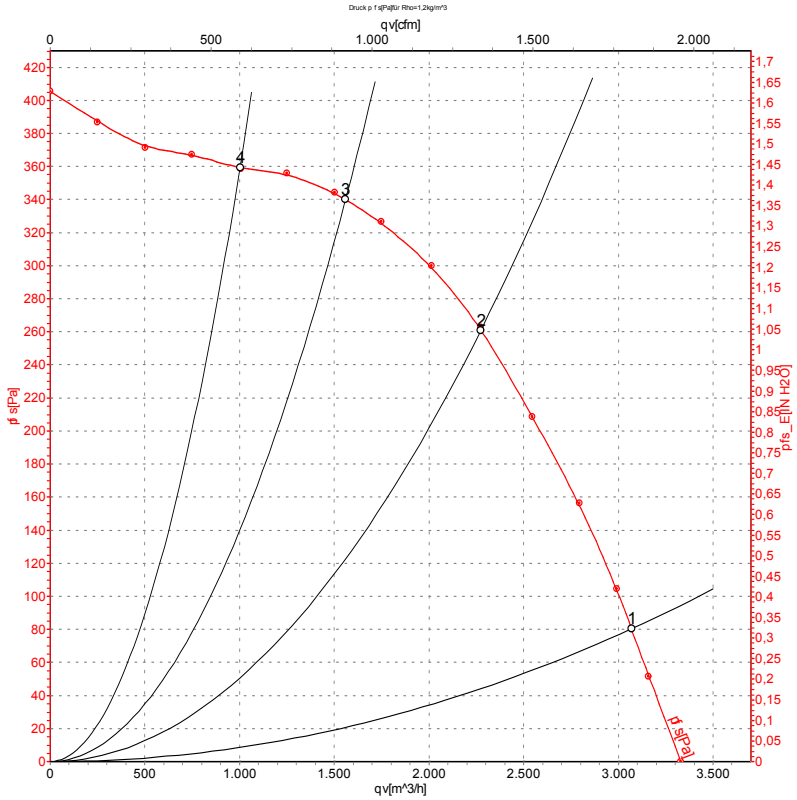
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Charts: Air flow 50 Hz



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	P_e	I	qv	p_{fs}
		V	Hz	min^{-1}	W	A	m^3/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 · P_e = Power input · I = Current draw · qv = Air flow · p_{fs} = Pressure increase

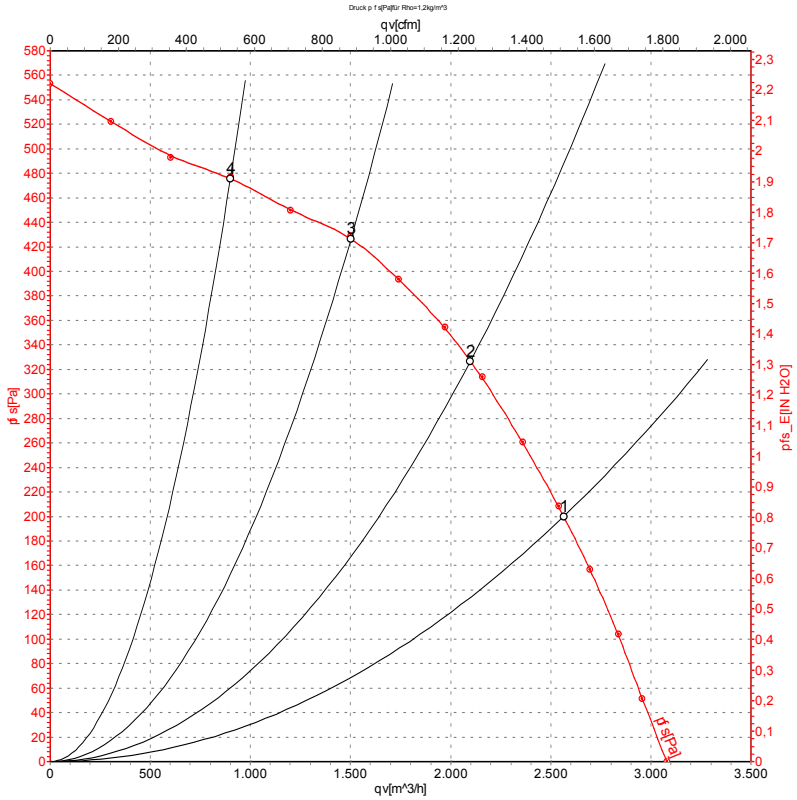
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Charts: Air flow 60 Hz



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: 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. 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

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