D4D225-GH02-01

AC centrifugal fan

forward curved, dual inlet

with housing (large flange)

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Nominal data

Type	**D4D225-GH02-01**		
Motor	**M4D094-LA**		
Phase		3~	3~
Nominal voltage	VAC	400	400
Connection		Y	Y
Frequency	Hz	50	60
Type of data definition		fa	ml
Valid for approval / standard		CE	CE
Speed (rpm)	min^{-1}	1230	1360
Power input	W	1140	1280
Current draw	A	2.1	2.3
Min. back pressure	Pa	0	150
Min. ambient temperature	°C	-40	-40
Max. ambient temperature	°C	70	50
Starting current	A	4.6	4

ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit
Subject to alterations

Data in accordance with ecodesign regulation EU 327/2011 (EN 17166)

		Actual	Request 2015
01 Overall efficiency η_e	%	44.8	40.4
02 Measurement category		B	
03 Efficiency category		Total	
04 Efficiency grade N		53.4	49
05 Variable speed drive		No	

09 Power input P_e	kW	0.44
09 Air flow q_v	m^3/h	1920
09 Pressure increase p_f	Pa	371
10 Speed (rpm) n	min^{-1}	1420
11 Specific ratio*		1.00

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

* Specific ratio = 1 + p_f / 100 000 Pa

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Technical features

Mass	16.3 kg
Size	225 mm
Motor size	94
Material of impeller	Sheet steel, galvanised
Housing material	Sheet steel, galvanised
Motor suspension	Motor mounted vibration-free on both sides
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP20
Insulation class	"F"
Humidity (F) / environmental protection class (H)	H0 - dry environment
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Any
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, basic insulation
Cable exit	Axial
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60034-1 (2004); CE
Approval	CCC; EAC

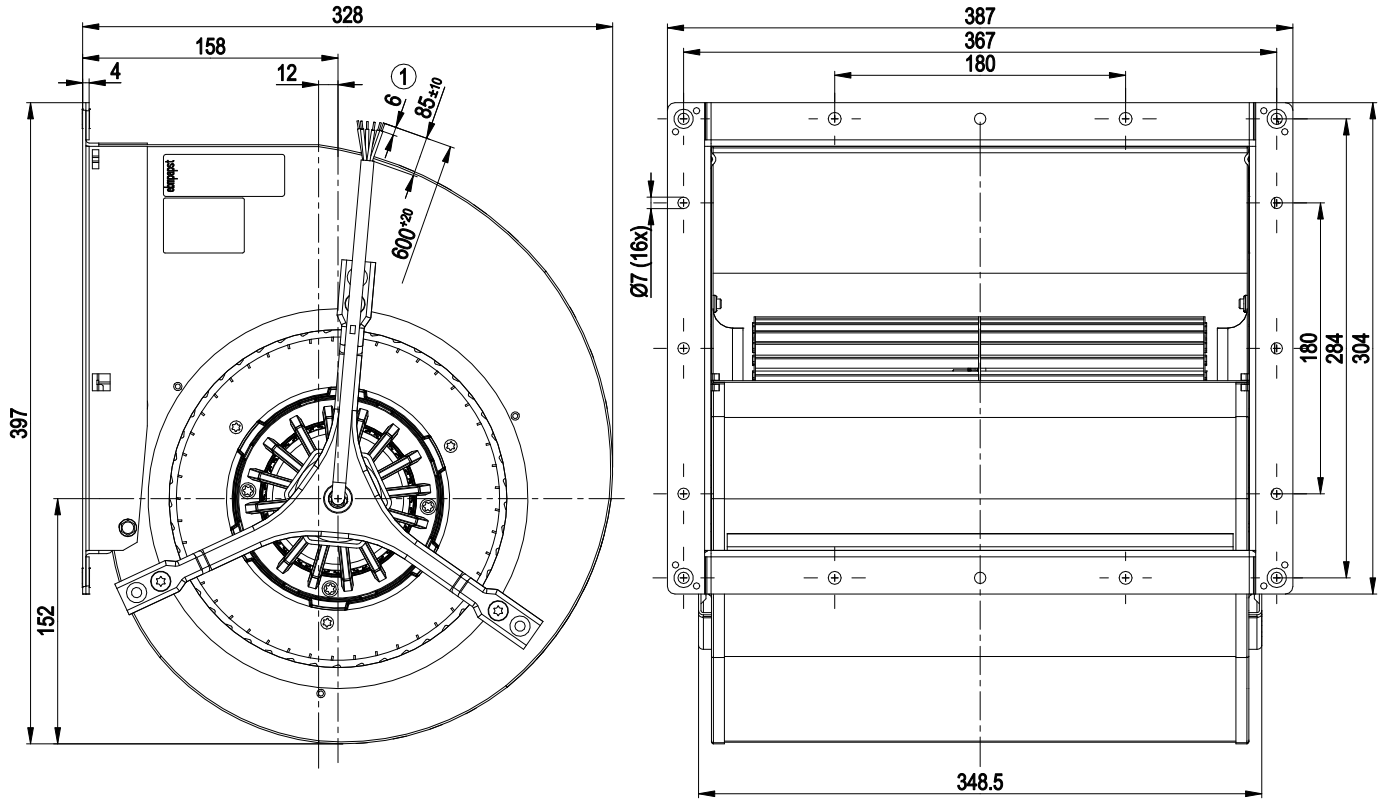
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Product drawing



1	Connection line ETFE AWG18, 6 x brass lead tips crimped

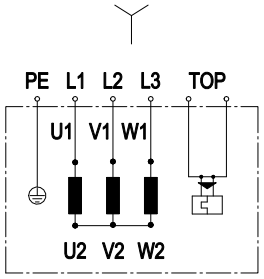
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Connection screen



Note: Direction of rotation changes when two phases are reversed

Y	Star connection	L1	= U1 = black	L2	= V1 = blue
L3	= W1 = brown	PE	green/yellow	TOP	2x grey

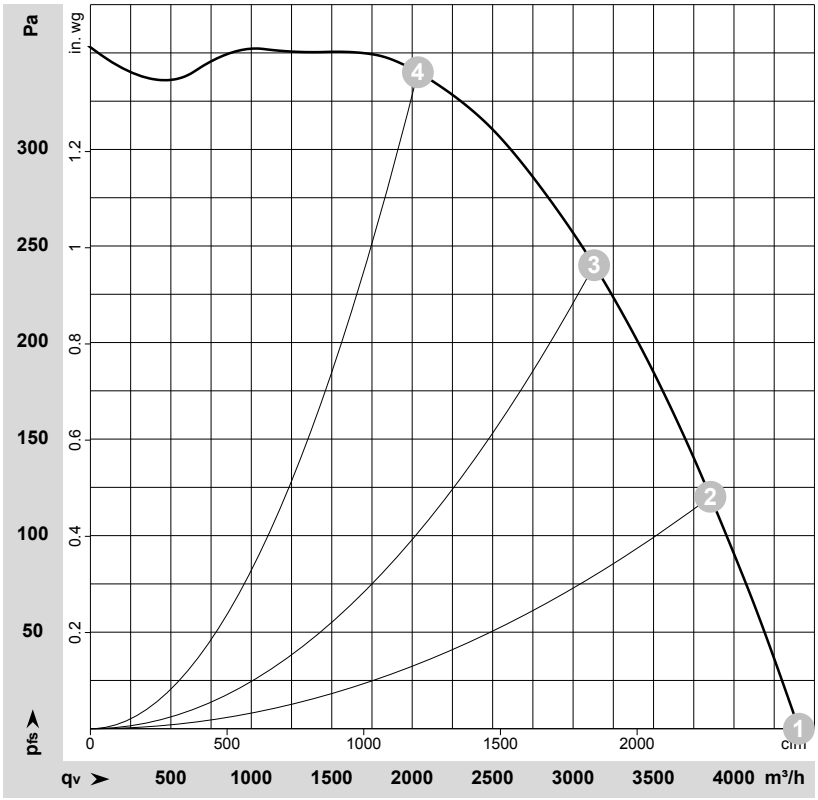
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Charts: Air flow 50 Hz



ρ = 1.177 kg/m³ ± 2 %

Measurement: LU-42109-1

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	q_V	p_{fs}	q_V	p_{fs}
		V	Hz	min^{-1}	W	A	m^3/h	Pa	cfm	in. wg
1	Y	400	50	1230	1140	2.10	4405	0	2590	0.00
2	Y	400	50	1300	928	1.76	3855	120	2270	0.48
3	Y	400	50	1355	721	1.46	3130	240	1845	0.96
4	Y	400	50	1415	464	1.15	2035	340	1200	1.36

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

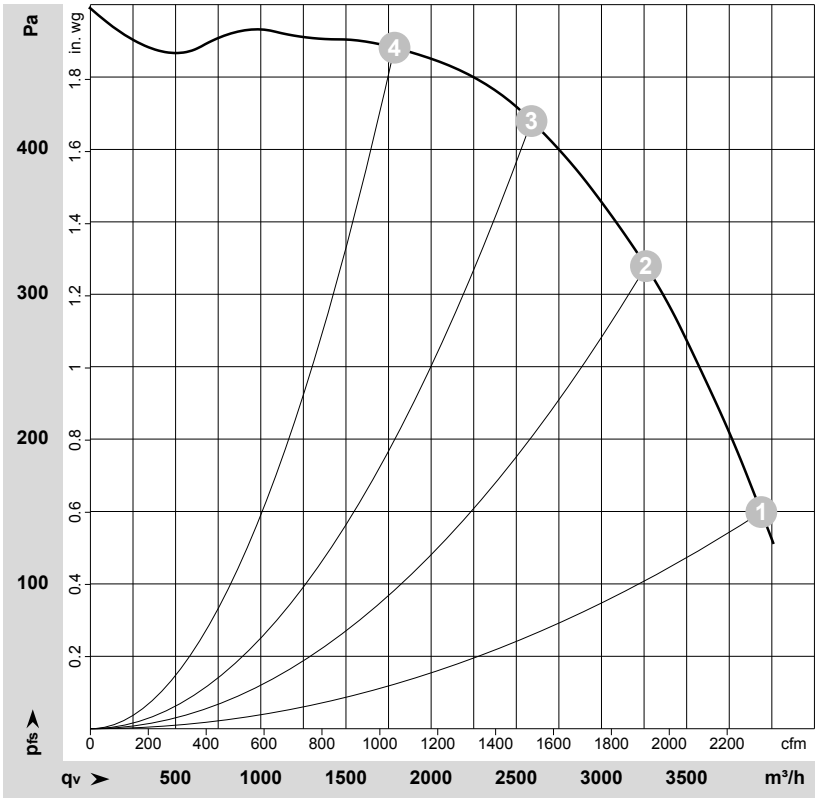
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Charts: Air flow 60 Hz



ρ = 1.176 kg/m³ ± 2 %

Measurement: LU-42110-1

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	q_V	p_{fs}	q_V	p_{fs}
	V	Hz	min^{-1}	W	A	m^3/h	Pa	cfm	in. wg
1	400	60	1360	1280	2.30	3940	150	2320	0.60
2	400	60	1505	1005	1.81	3260	320	1920	1.28
3	400	60	1590	774	1.45	2590	420	1525	1.69
4	400	60	1665	562	1.13	1785	470	1050	1.89

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

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