

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	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 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	%	44.8	33.4	40.4
Efficiency grade N		53.4	42	49
Power input P_e	kW	0.44		
Air flow q_v	m ³ /h	1920		
Pressure increase p_f	Pa	371		
Speed n	min ⁻¹	1420		

Data definition with optimum efficiency. LU-42109
The ErP data is determined using a motor-impeller combination in a standardised measurement configuration.



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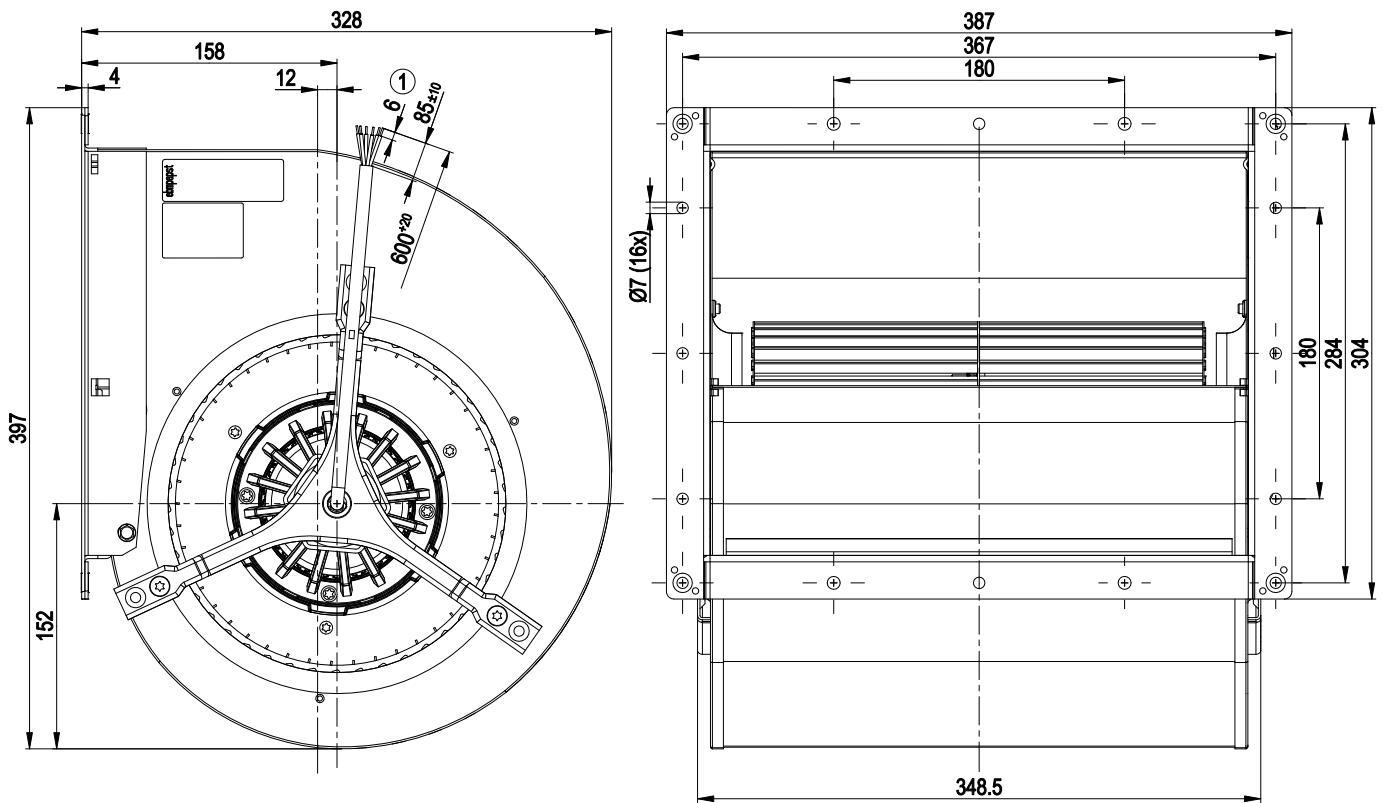
Technical features

Mass	16.3 kg
Size	225 mm
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	IP 20
Insulation class	"F"
Humidity class	F0
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
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

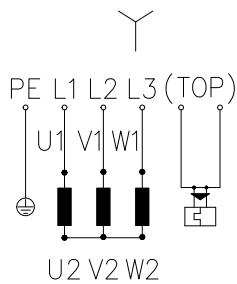


1	Connection line ETFE AWG18, 6 x brass lead tips crimped
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Connection screen



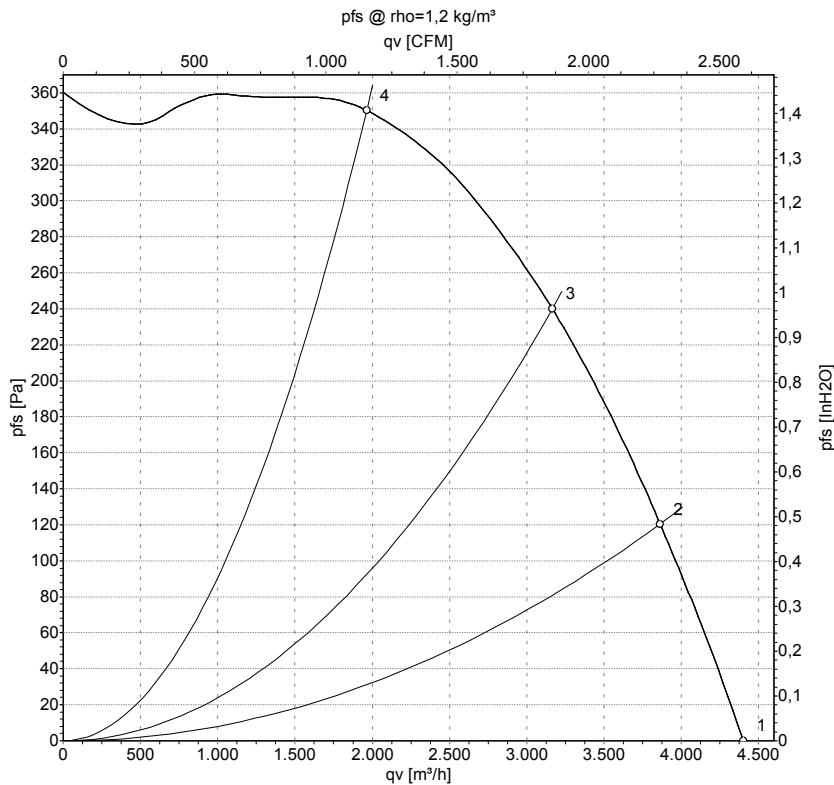
Y	Star connection	L1	black	L2	blue
L3	brown	U1	black	V1	blue
W1	brown	U2	green	V2	white
W2	yellow	TOP	grey		



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Charts: Air flow 50 Hz



Measurement: LU-42109

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	1230	1140	2.10	4405	0
2	400	50	1300	931	1.76	3865	120
3	400	50	1355	729	1.47	3165	240
4	400	50	1420	450	1.13	1965	350

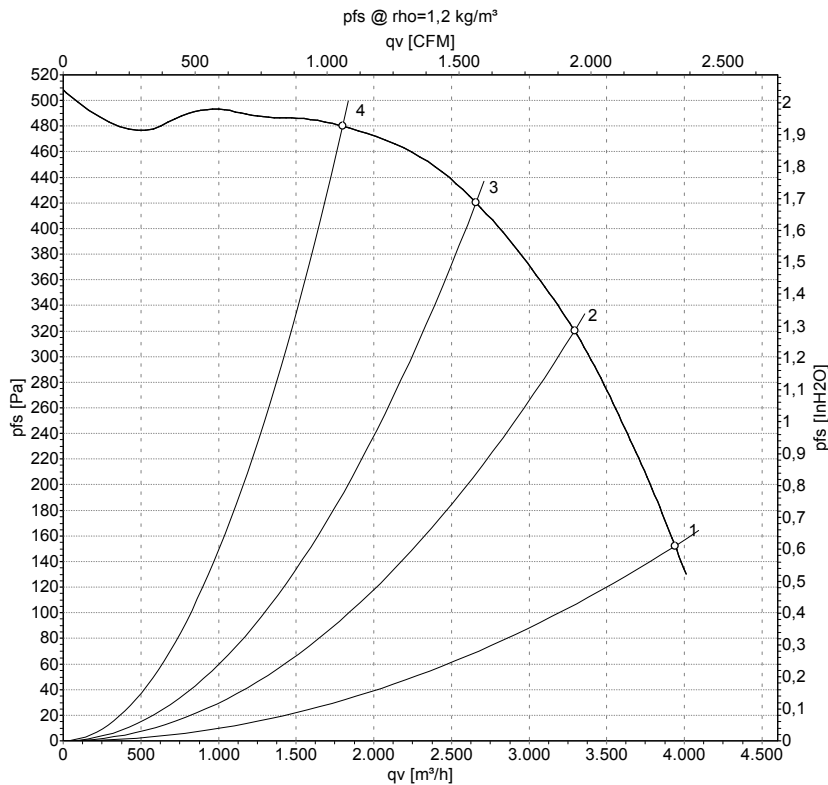
U = Supply voltage · f = Frequency · n = Speed · P_e = Power input · I = Current draw · qv = Air flow · p_{fs} = Pressure increase



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Charts: Air flow 60 Hz



Measurement: LU-42110

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	m³/h	Pa
1	400	60	1360	1280	2.30	3940	150
2	400	60	1500	1017	1.83	3290	320
3	400	60	1585	794	1.48	2655	420
4	400	60	1665	565	1.14	1800	480

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

