

AC centrifugal fan

forward curved, dual inlet
with housing (large flange)

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Nominal data

Type	D4D200-CA01-02				
Motor	M4D068-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		fa	fa	fa	fa
Valid for approval / standard		CE	CE	CE	CE
Speed	min ⁻¹	1080	1200	1080	1200
Power input	W	480	500	480	500
Current draw	A	1.54	1.50	0.89	0.87
Min. back pressure	Pa	0	100	0	100
Max. ambient temperature	°C	30	35	30	35

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

	Actual	Request 2013	Request 2015
Overall efficiency η_e	40	31.6	38.6
Efficiency grade N	50.4	42	49
Power input P_e	kW	0.23	
Air flow q_v	m ³ /h	1410	
Pressure increase p_f	Pa	245	
Speed n	min ⁻¹	1305	

Data established at point of optimum efficiency



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Technical features

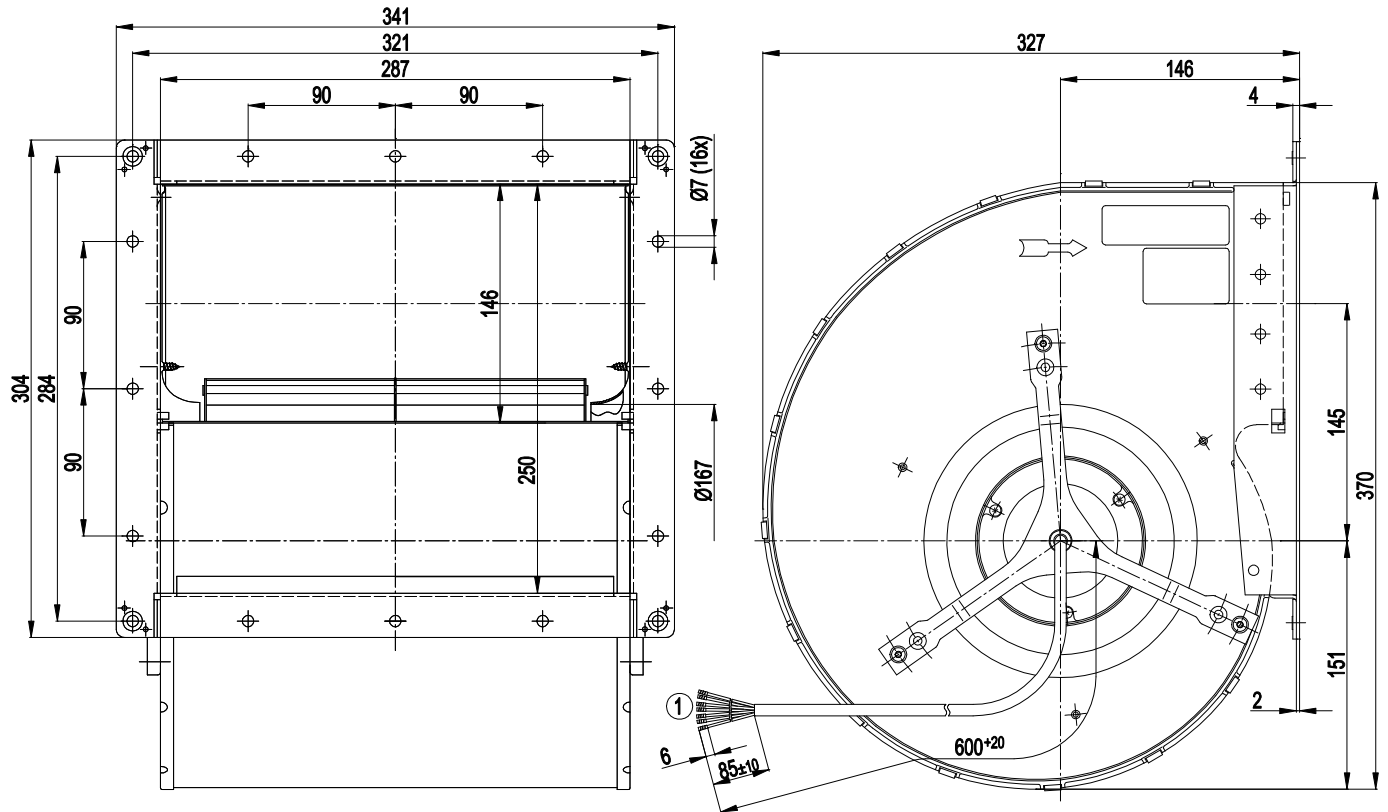
Mass	11 kg
Size	200 mm
Surface of rotor	Coated in black
Material of impeller	Sheet steel, hot-galvanised
Housing material	Sheet steel, hot-galvanised
Motor suspension	Motor anti-vibration mounted on both sides
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP 54
Insulation class	"B"
Humidity class	F3-1
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
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1



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Product drawing

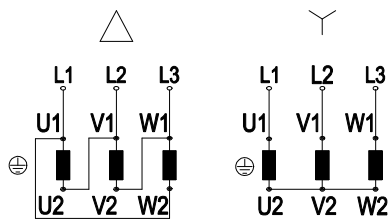


1 Connection line ETFE AWG20, 7 x brass lead tips crimped

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Connection screen



Note: Direction of rotation changes when two phases are reversed

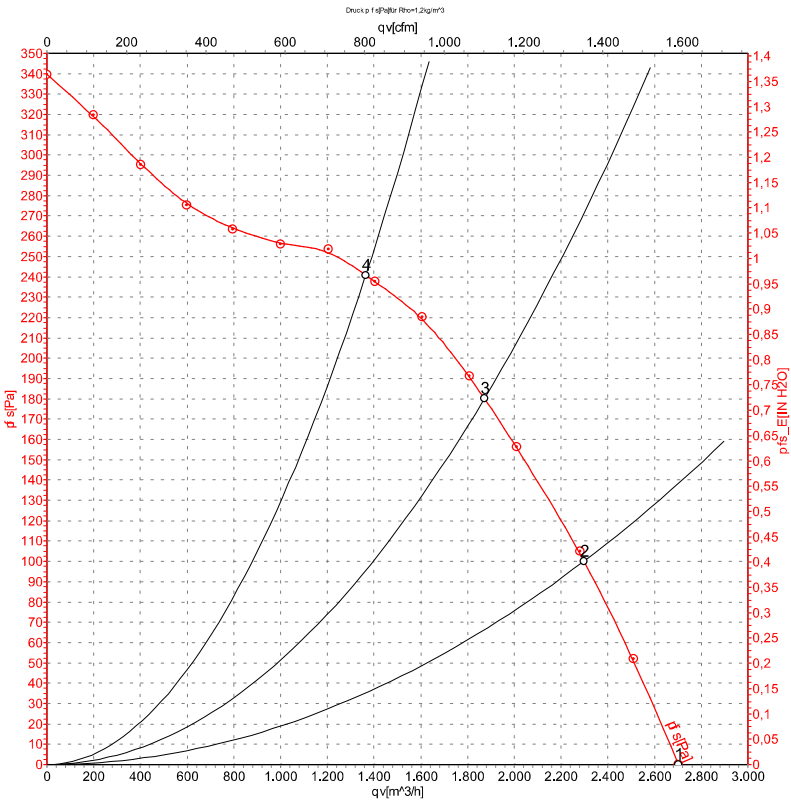
Δ	Delta connection	Y	Star connection	L1	black
L2	blue	L3	brown	U1	black
V1	blue	W1	brown	U2	green
V2	white	W2	yellow		



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Charts: Air flow 50 Hz



Measurement: LU-105309

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	50	1080	480	0.89	2705	0
2	Y. aus	400	50	1155	373	0.73	2300	100
3	Y. aus	400	50	1235	302	0.64	1870	180
4	Y. aus	400	50	1310	234	0.58	1365	240

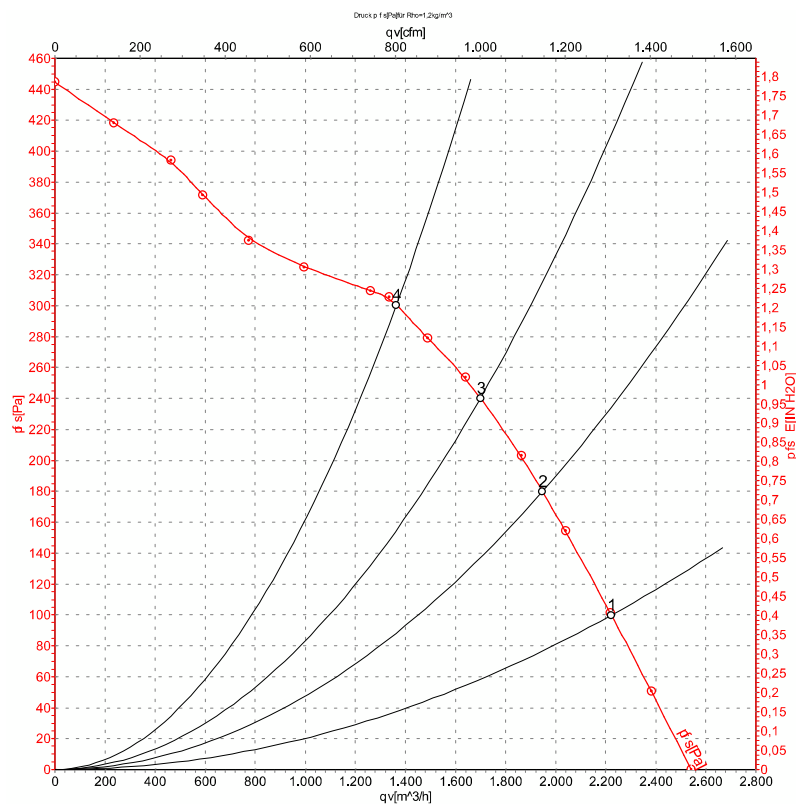
Conn. = Connection · U = Supply voltage · f = Frequency · n = Speed · P_e = Power input · I = Current draw · qv = Air flow · p_{fs} = Pressure increase



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Charts: Air flow 60 Hz



Measurement: LU-16389

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

	U	f	n	P _e	I	qv	p _{ts}
	V	Hz	min ⁻¹	W	A	m³/h	Pa
1	400	60	1200	500	0.87	2225	100
2	400	60	1280	439	0.78	1945	180
3	400	60	1355	394	0.71	1700	240
4	400	60	1445	332	0.63	1365	300

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

