R2D225-AG02-10

AC hot-air circulation blower

backward curved, single inlet



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Nominal data

Type	**R2D225-AG02-10**
Motor	**M2D068-EC**

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}	2700	3000	2700	3000
Power input	W	165	250	165	250
Current draw	A	0.50	0.67	0.29	0.39
Min. back pressure	Pa	0	0	0	0
Min. ambient temperature	°C			-25	-25
Max. ambient temperature	°C	105	75	105	75
Starting current	A	1.75	1.65	1.0	0.95

ml = max. load · me = max. efficiency · fa = running at free air · cs = customer specs · cu = customer unit
Subject to alterations

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Technical features

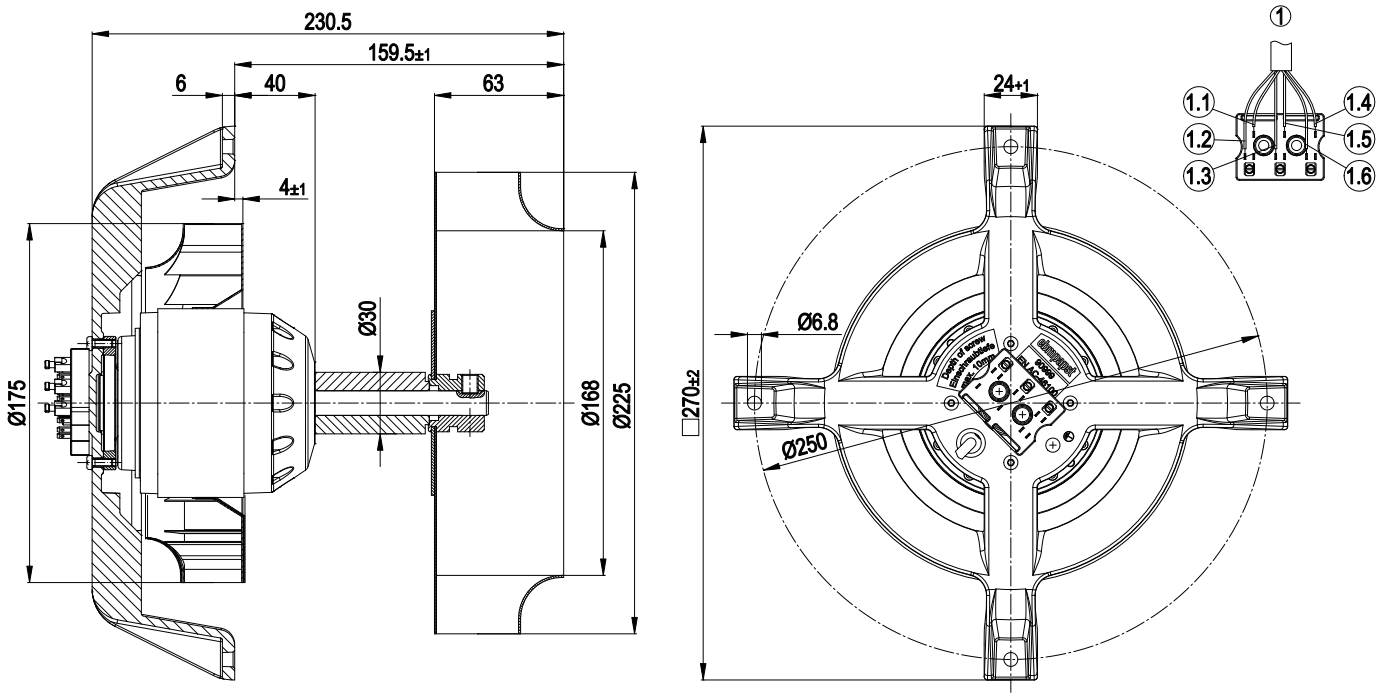
Mass	4.0 kg
Size	225 mm
Surface of rotor	Uncoated
Material of impeller	Sheet steel, stainless
Number of blades	16
Motor suspension	Motor mounted via brackets on one side
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 20
Insulation class	"F"
Humidity class	F1-1
Max. permissible ambient 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
Electrical leads	Via terminal strip
Cable exit	Axial
Protection class	I (if protective earth is connected by customer)

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Product drawing



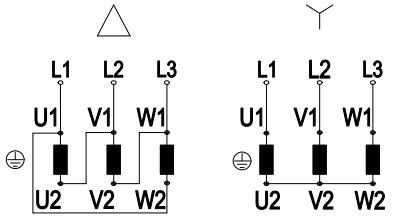
1	Connection line halogen- and silicone-free 6x 0.5 mm², 6x crimped receptacle for tabs 2.8 x 0.8 mm
1.1	yellow
1.2	black
1.3	light blue
1.4	white
1.5	green
1.6	brown

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Connection screen



Note: Direction of rotation changes when two phases are reversed

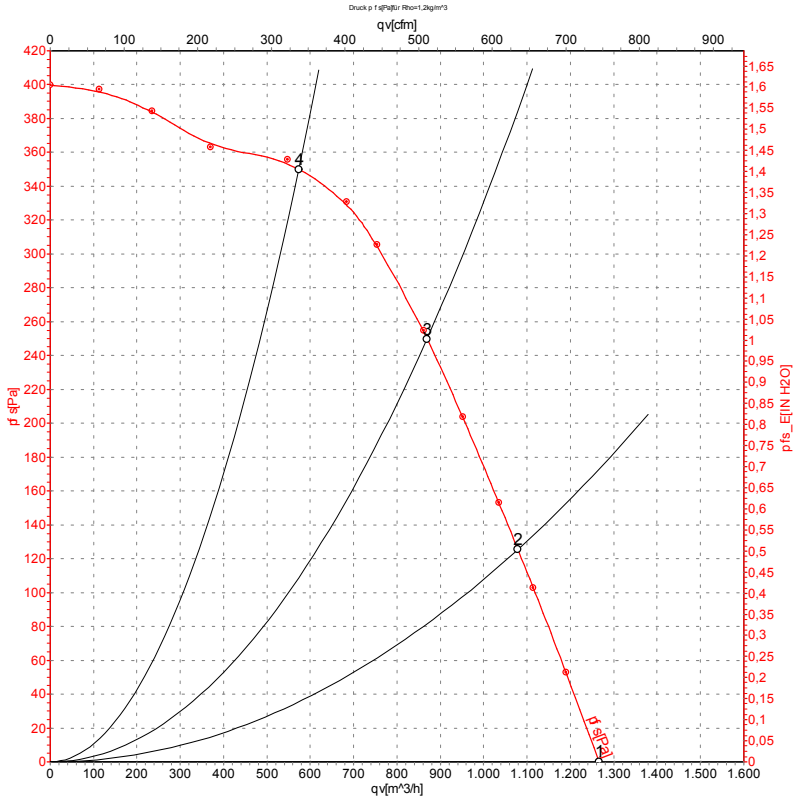
Δ	Delta connection	Y	Star connection	L1	black
L2	blue	L3	brown	U1	black
V1	blue	W1	brown	U2	green
V2	white	W2	yellow		

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Charts: Air flow 50 Hz



Measurement: LU-23648

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	2700	165	0.29	1265	0
2	400	50	2665	185	0.33	1080	125
3	400	50	2640	197	0.34	870	250
4	400	50	2660	188	0.33	575	350

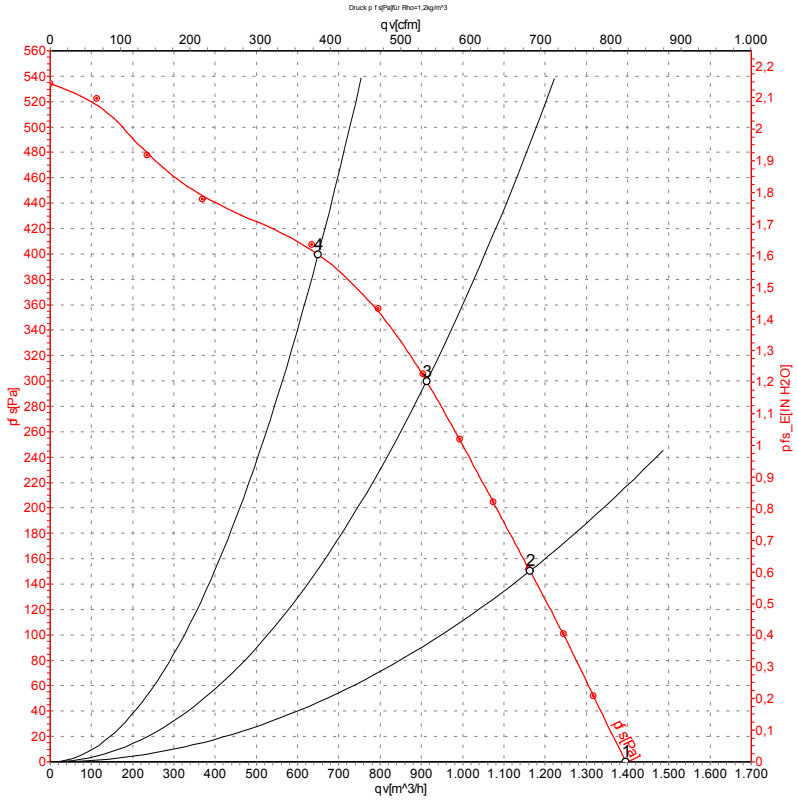
U = Supply voltage · f = Frequency · n = Speed · P_e = Power input · I = Current draw · qv = Air flow · p_{fs} = Pressure increase

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Charts: Air flow 60 Hz



Measurement: LU-23649

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	60	3000	250	0.39	1395	0
2	400	60	2890	275	0.43	1165	150
3	400	60	2830	290	0.45	915	300
4	400	60	2860	280	0.43	650	400

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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