S2D250-AI14-12

AC axial fan

straight blades (A series), single inlet
with guard grille for full nozzle

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County court Stuttgart · HRB 590142

Nominal data

Type	**S2D250-AI14-12**					
Motor	**M2D068-CF**					
Phase		3~	3~	3~	3~	3~
Nominal voltage	VAC	400	400	400	460	460
Connection		Y	Y	Y	Y	Y
Frequency	Hz	50	60	60	60	60
Type of data definition		fa	fa	fa	fa	fa
Valid for approval / standard		CE	UL 2111	CE	CE	UL 2111
Speed	min^{-1}	2460	2580	2580	2750	2750
Power input	W	110	140	140	160	180
Current draw	A	0.19	0.22	0.22	0.23	0.24
Max. back pressure	Pa	100	100	100	120	120
Min. ambient temperature	°C	-25	-25	-25	-25	-25
Max. ambient temperature	°C	60	60	60	60	60

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

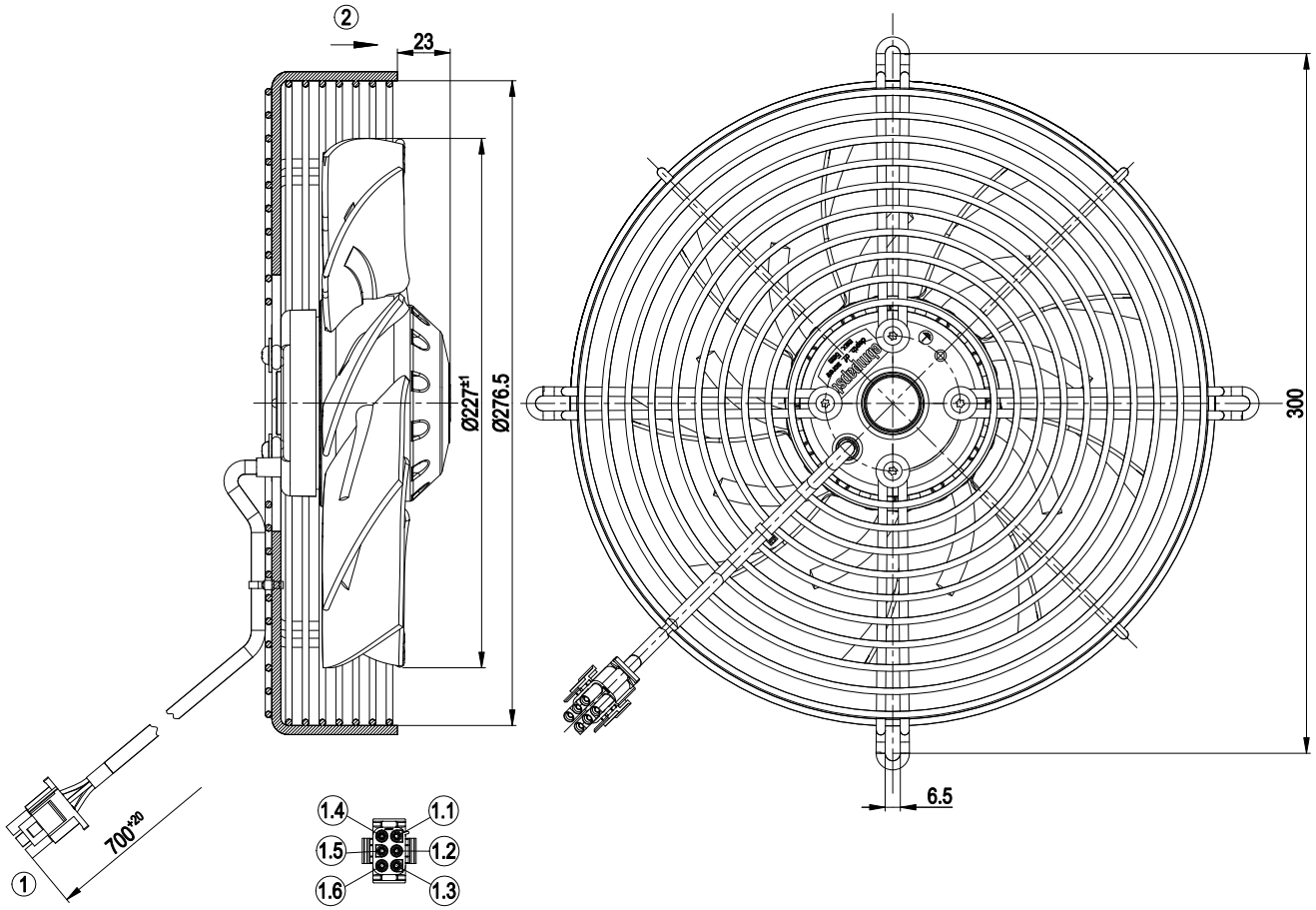
Mass	2.7 kg
Size	250 mm
Number of blades	9
Direction of air flow	"A"
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP 44; Depending on installation and position as per EN 60034-5
Insulation class	"F"
Humidity class	F2-2
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Shaft horizontal or rotor on bottom; rotor on top on request
Condensate discharge holes	Rotor-side
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	CE
Approval	CSA C22.2 Nr.100; UL 1004-1

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Product drawing



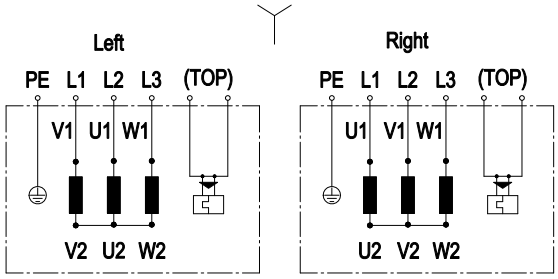
1	Connection line PFA 6G 0.5mm², 1x connector housing AMP and 6x female terminal AMP
1.1	black
1.2	blue
1.3	brown
1.4	green/yellow
1.5	grey
1.6	grey
2	Direction of air flow "A"

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Connection screen



Note: Direction of rotation changes when two phases are reversed

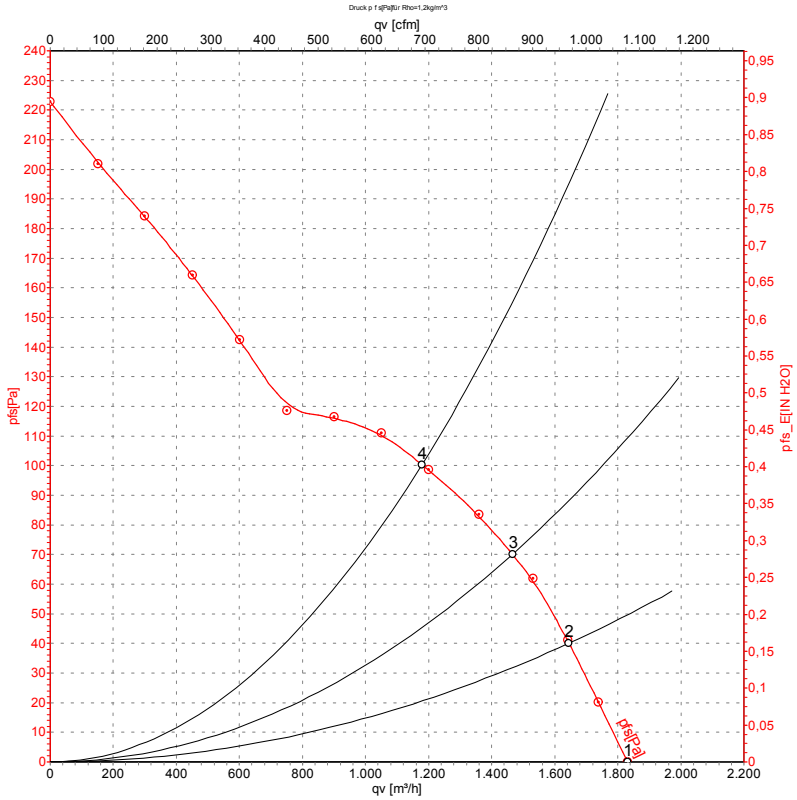
Y	Star connection	L1	= U1 = black	L2	= V1 = blue
L3	= W1 = brown	TOP	2 x grey	PE	green/yellow

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Charts: Air flow 50 Hz Y



Measurement: LU-76487

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	400	50	2460	110	0.19	1830	0
2	Y	400	50	2395	113	0.20	1645	40
3	Y	400	50	2350	120	0.21	1465	70
4	Y	400	50	2290	126	0.22	1180	100

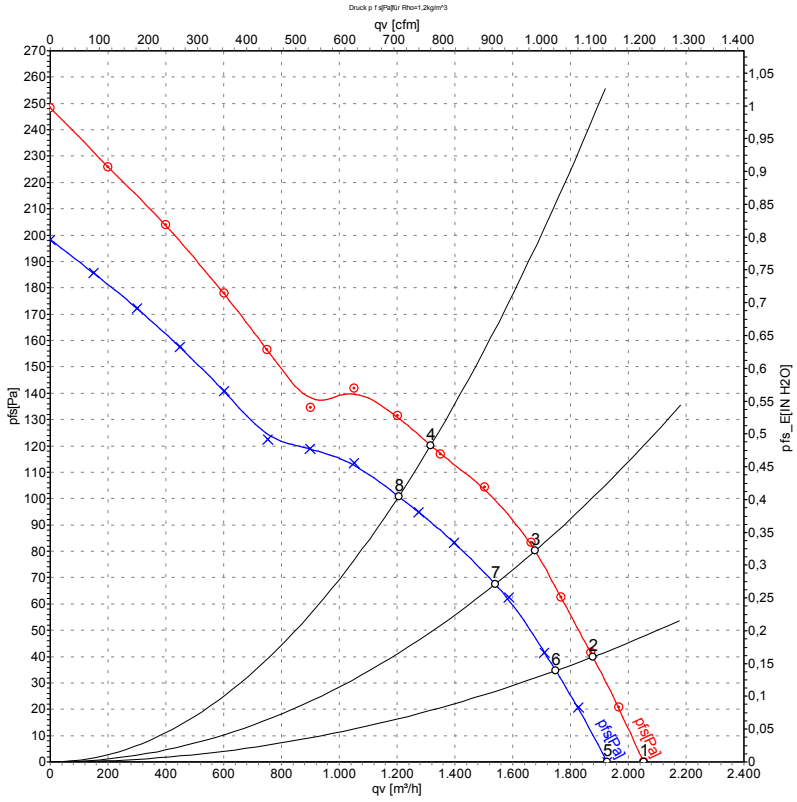
Conn. = Connection · U = Supply voltage · f = Frequency · n = Speed · P_e = Power input · I = Current draw · qv = Air flow · p_{fs} = Pressure increase

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Charts: Air flow 60 Hz Y



Measurement: LU-76489
Measurement: LU-76488

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	460	60	2750	160	0.23	2055	0
2	Y	460	60	2690	165	0.24	1875	40
3	Y	460	60	2600	177	0.25	1675	80
4	Y	460	60	2515	187	0.26	1315	120
5	Y	400	60	2580	140	0.22	1925	0
6	Y	400	60	2500	145	0.23	1750	35
7	Y	400	60	2405	154	0.24	1540	68
8	Y	400	60	2310	161	0.26	1205	100

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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