S2E250-AM08-15

AC axial fan

sickled blades (S series)

with guard grille for short nozzle

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County court Stuttgart · HRB 590142

Nominal data

Type	**S2E250-AM08-15**
Motor	**M2E068-CF**

Phase		1~	1~
Nominal voltage	VAC	115	115
Frequency	Hz	50	60
Type of data definition		fa	fa
Valid for approval / standard		CE	CE
Speed	min^{-1}	2550	2700
Power input	W	120	165
Current draw	A	1.05	1.45
Motor capacitor	µF	12	12
Capacitor voltage	VDB	220	220
Capacitor standard		P2 (CE)	P2 (CE)
Max. ambient temperature	°C	65	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
Surface of rotor	Coated in black
Material of terminal box	ABS plastic, black
Material of blades	Sheet steel, coated in black
Material of guard grille	Steel, phosphated and coated in black plastic
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
Insulation class	"F"
Humidity class	F1-2
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
Motor protection	Thermal overload protector (TOP) brought out
Cable exit	Variable
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1; CE

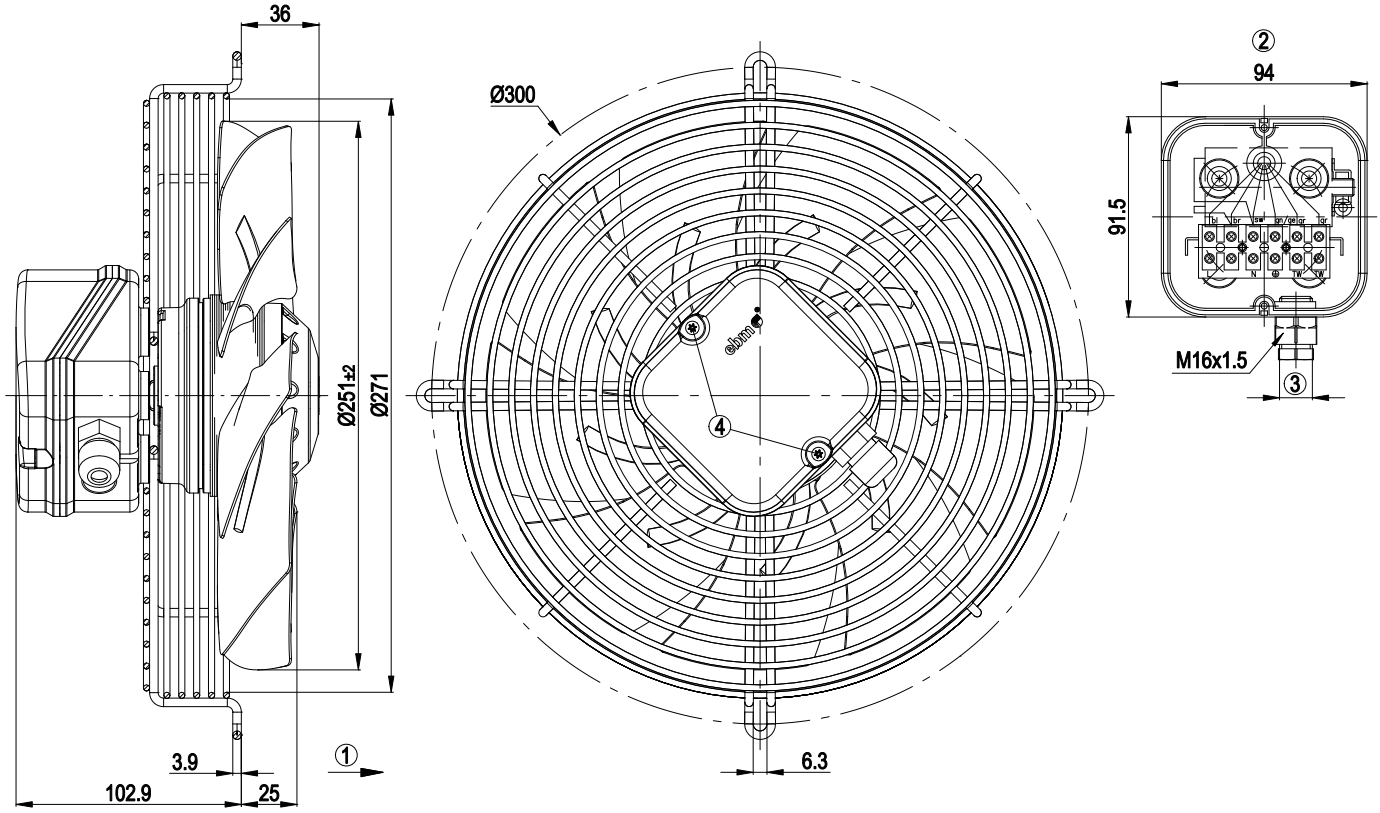
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Product drawing



1	Direction of air flow "A"
2	Illustration without terminal box cover
3	Cable diameter: max. 7.5 mm; tightening torque 1.3±0.2 Nm
4	Tightening torque 0.7±0.2 Nm

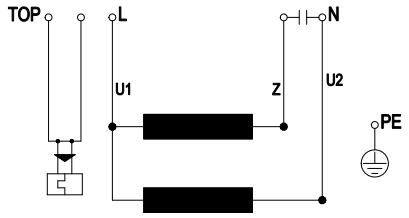
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Connection screen



TOP	2 x grey	U1	blue	Z	brown
U2	black	PE	green / yellow		

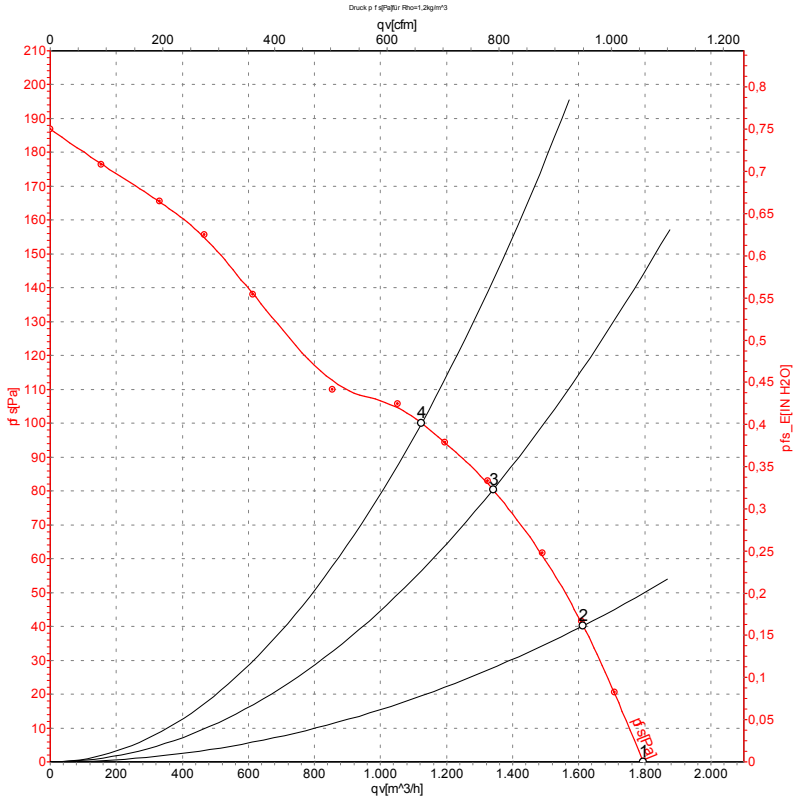
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Charts: Air flow 50 Hz



Measurement: LU-34395

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	115	50	2550	120	1.05	1795	0
2	115	50	2485	128	1.11	1615	40
3	115	50	2395	138	1.19	1340	80
4	115	50	2350	142	1.23	1125	100

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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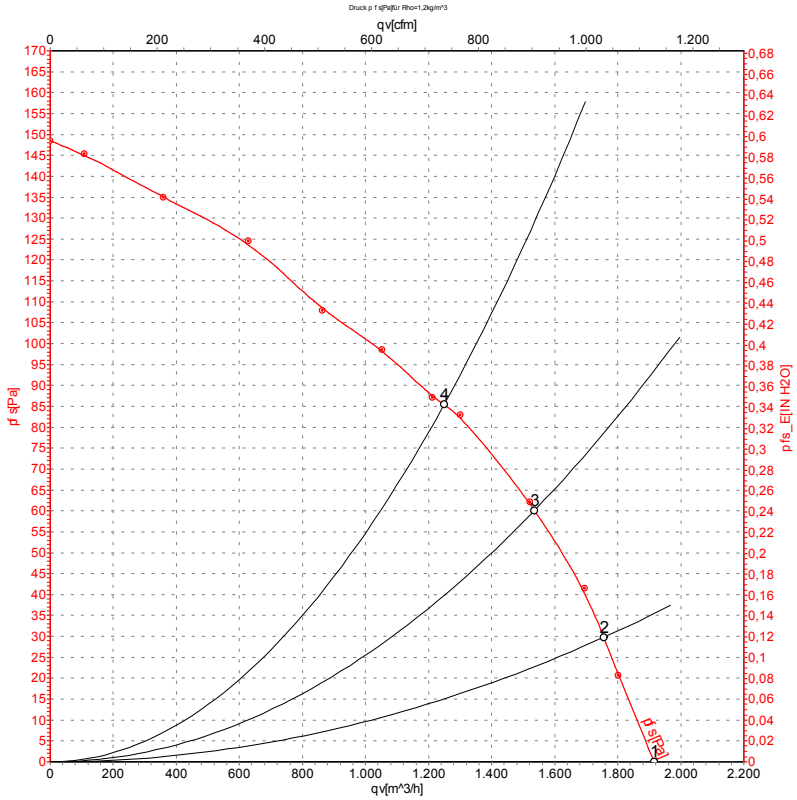
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Charts: Air flow 60 Hz



Measurement: LU-34394

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	115	60	2725	165	1.45	1915	0
2	115	60	2610	170	1.48	1755	30
3	115	60	2485	174	1.52	1535	60
4	115	60	2340	181	1.57	1250	85

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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