

AC axial fan

sickled blades (S series)
with guard grille for short nozzle

S4E300-AR26-91 ebmpapst Datasheet

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Nominal data

Type	S4E300-AR26-91		
Motor	M4E068-CF		
Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50	60
Type of data definition		fa	fa
Valid for approval / standard		CE	CE
Speed	min ⁻¹	1380	1570
Power input	W	70	95
Current draw	A	0.32	0.42
Motor capacitor	μF	2	2
Capacitor voltage	VDB	400	400
Max. back pressure	Pa	60	70
Min. ambient temperature	°C	-40	-40
Max. ambient temperature	°C	55	45
Starting current	A	0.64	0.64

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

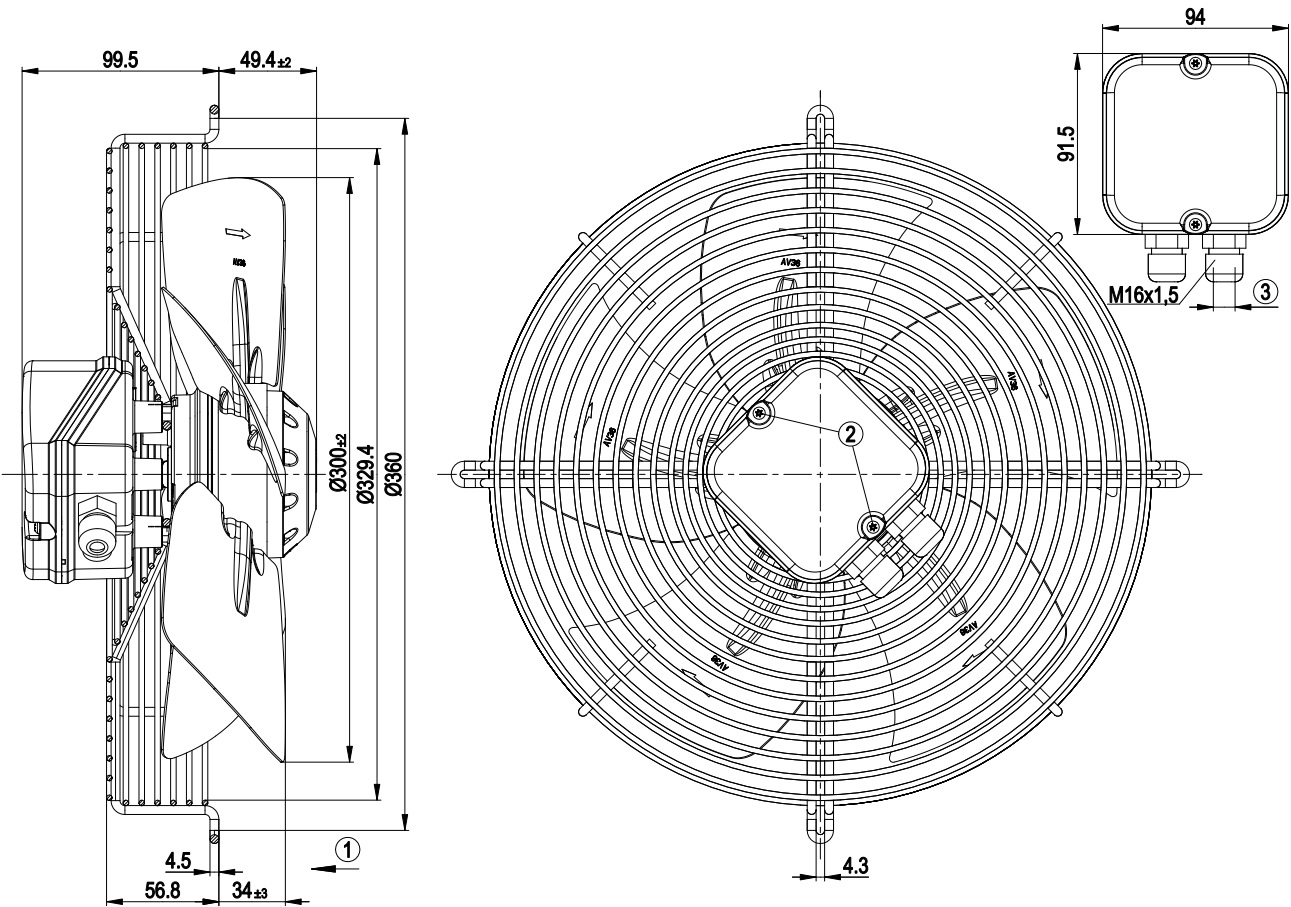
Mass	3 kg
Size	300 mm
Surface of rotor	Coated in black
Material of terminal box	ABS plastic
Material of blades	Sheet steel, coated in black
Material of guard grille	Steel, phosphated and coated in black plastic (RAL9005)
Number of blades	5
Direction of air flow	"V"
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP 44; Depending on installation and position as per EN 60034-5
Insulation class	"B"
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
Operation mode	S1
Motor bearing	Ball bearing with anti-freezing grease
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	< 0.75 mA
Electrical leads	Via terminal box, integrated capacitor connected via terminal box
Motor protection	Thermal overload protector (TOP) wired internally
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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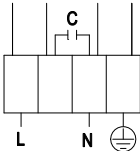
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Product drawing



1	Direction of air flow "V"
2	Tightening torque 1.3±0.2 Nm
3	Cable diameter: 7.5 mm, tightening torque 2±0.3 Nm

Connection screen



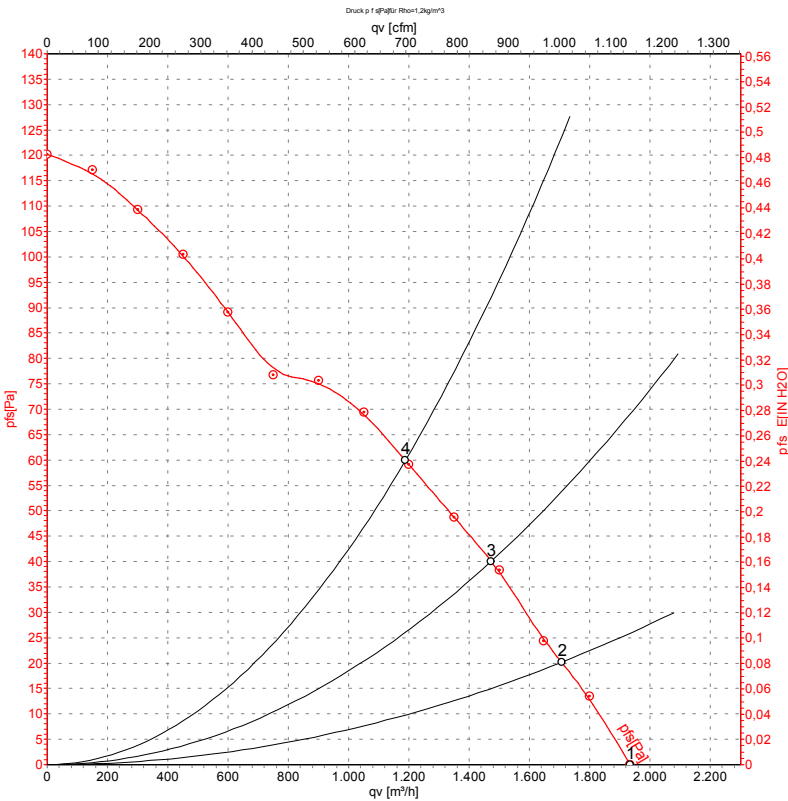
L	= U1 = blue	Z	brown	N	= U2 = black
PE	green/yellow				



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Charts: Air flow 50 Hz



Measurement: LU-74683

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

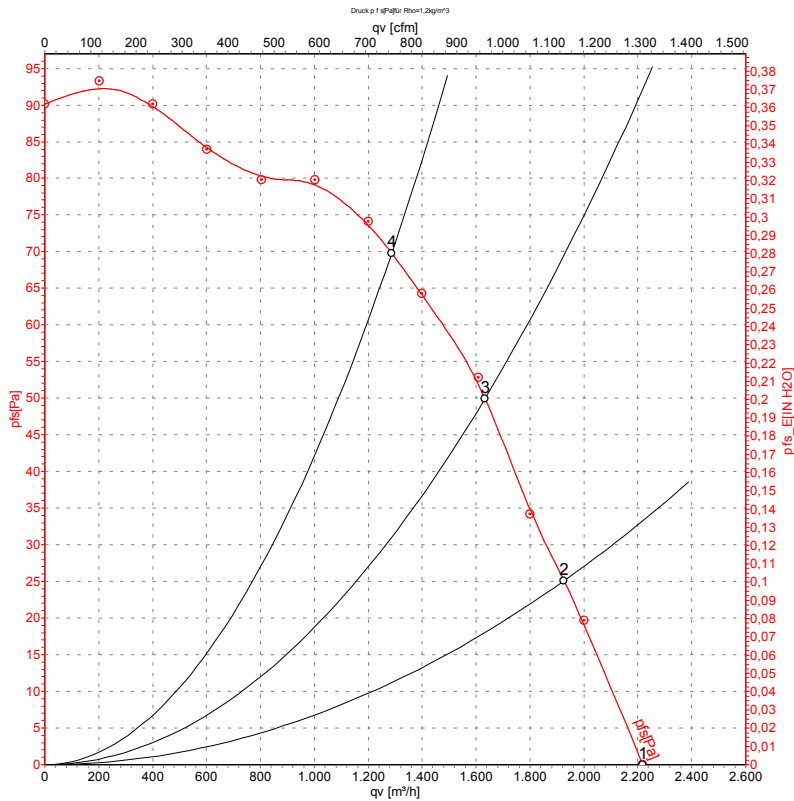
	U	f	n	P _e	I	LpA _{in}	qv	p _{fs}
	V	Hz	min ⁻¹	W	A	dB(A)	m ³ /h	Pa
1	230	50	1380	70	0.32	57	1935	0
2	230	50	1370	72	0.32	57	1705	20
3	230	50	1355	76	0.33	55	1470	40
4	230	50	1335	79	0.35	52	1190	60

U = Supply voltage · f = Frequency · n = Speed · P_e = Power input · I = Current draw · LpA_{in} = Sound pressure level inlet side · qv = Air flow · p_{fs} = Pressure increase



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Charts: Air flow 60 Hz



Measurement: LU-74684

Air performance measured as per ISO 5801
Installation category A. For detailed
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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	LpA _{in}	qv	p _{fs}
	V	Hz	min ⁻¹	W	A	dB(A)	m³/h	Pa
1	230	60	1570	95	0.42	61	2215	0
2	230	60	1545	99	0.43	60	1925	25
3	230	60	1500	103	0.45	58	1635	50
4	230	60	1440	108	0.47	55	1285	70

U = Supply voltage · f = Frequency · n = Speed · P_e = Power input · I = Current draw · LpA_{in} = Sound pressure level inlet side · qv = Air flow · p_{fs} = Pressure increase

