AC axial fan - HyBlade®

sickled blades (S series)

with guard grille for full nozzle

Nominal data

Type	S4E300-AS72-53			
Motor	M4E068-CF			
Phase		1~	1~	
Nominal voltage	VAC	230	230	
Frequency	Hz	50	60	
Type of data definition		cu	cu	
Valid for approval / standard		CE	CE	
Speed	min^{-1}	1350	1500	
Power input	W	70	90	
Current draw	A	0.32	0.40	
Motor capacitor	µF	2	2	
Capacitor voltage	VDB	400	400	
Capacitor standard		P0 (CE)	P0 (CE)	
Min. ambient temperature	°C	-30	-30	
Max. ambient temperature	°C	60	60	

ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit
Subject to alterations

S4E300-AS72-53

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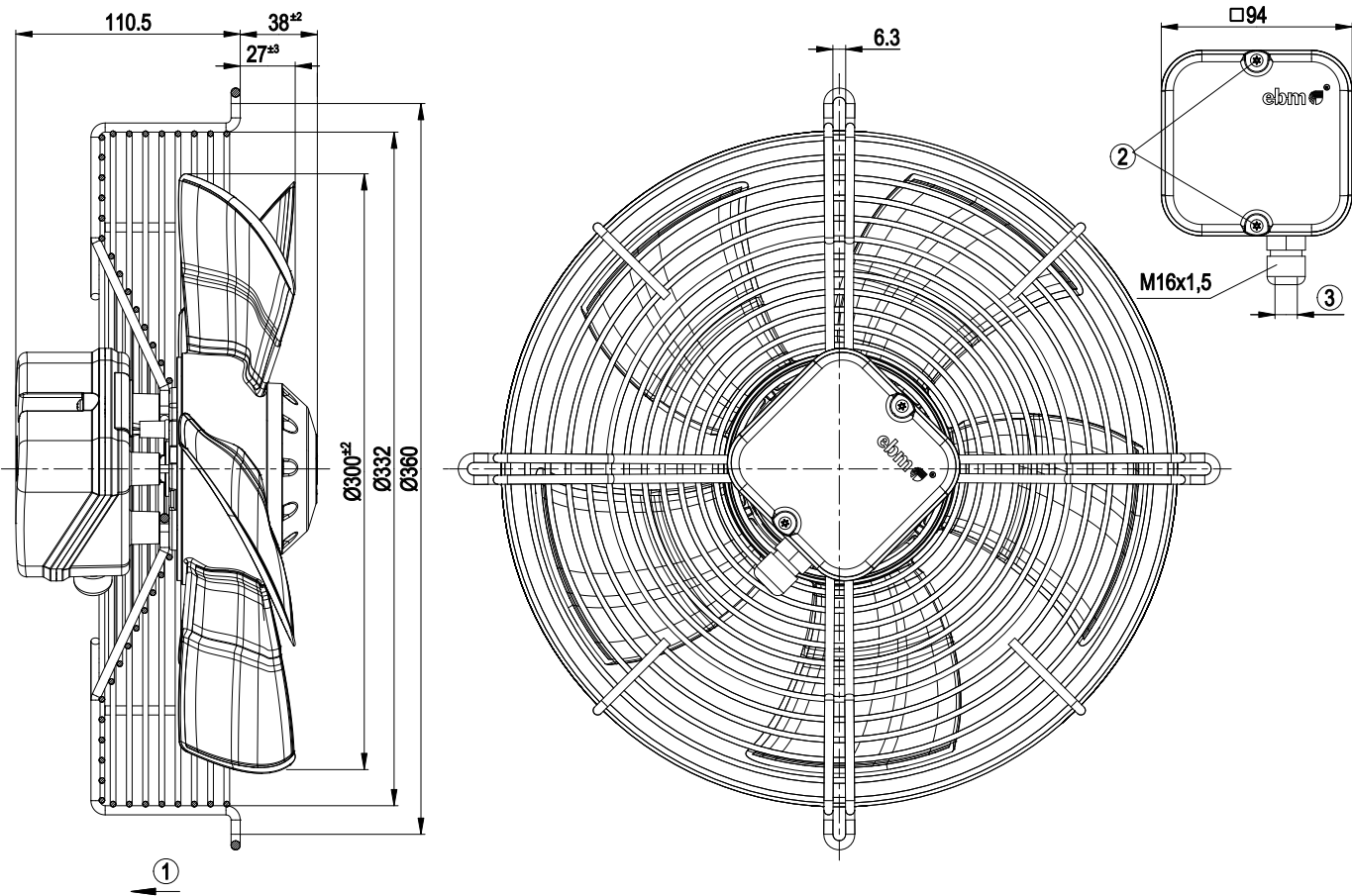with guard grille for full nozzle

Technical features

Mass	3 kg
Size	300 mm
Surface of rotor	Coated in black
Material of terminal box	ABS plastic, black
Material of impeller	PP plastic
Material of guard grille	Steel, phosphated and coated in black plastic
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
Insulation class	"B"
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
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
Approval	CCC

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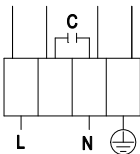sickled blades (S series)

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Product drawing
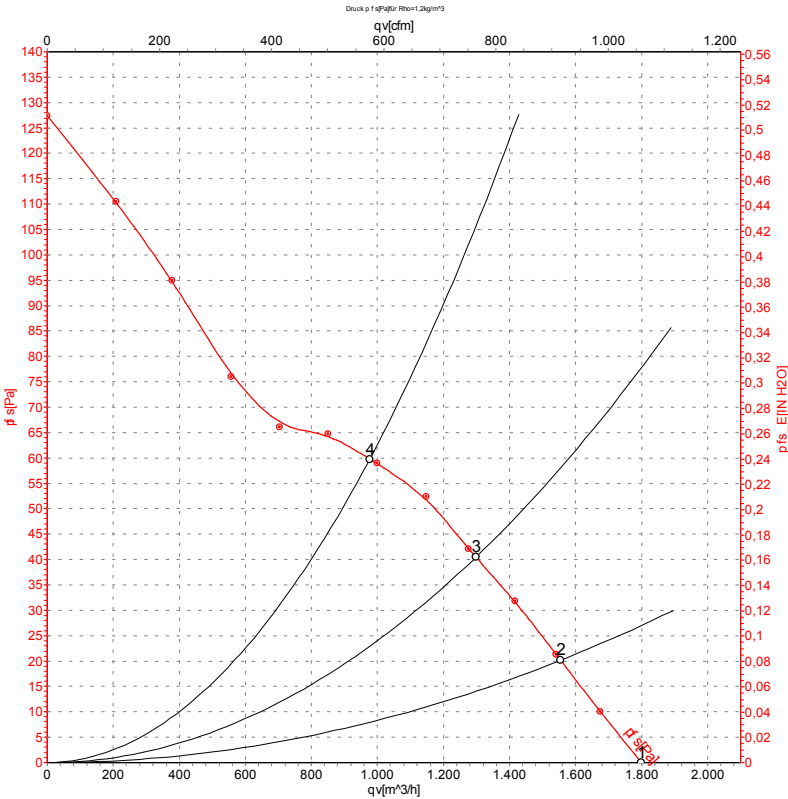

1	Direction of air flow "V"
2	Tightening torque 1.3±0.2 Nm
3	Cable diameter: 7.5 mm, tightening torque 2±0.3 Nm

Connection screen

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

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Charts: Air flow 50 Hz

Druck p f s[Pa]für Rho=1,2kg/m³
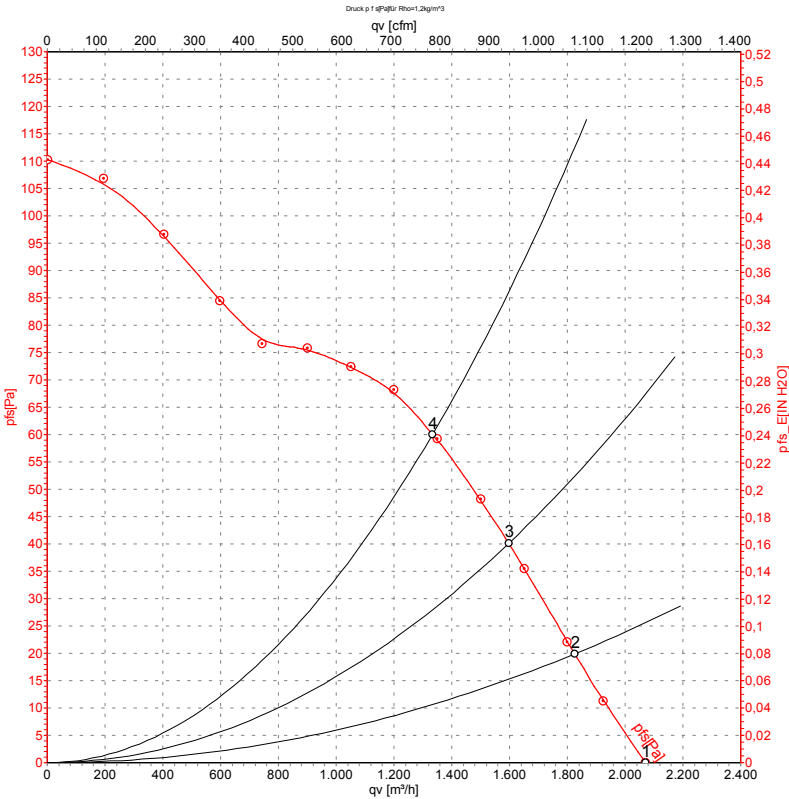

Measurement: LU-112383

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}	LwA_{in}	qv	p_{fs}
	V	Hz	min^{-1}	W	A	dB(A)	dB(A)	m^3/h	Pa
1	230	50	1380	62	0.28	53	60	1800	0
2	230	50	1370	63	0.28	52	59	1555	20
3	230	50	1355	66	0.29	51	58	1300	40
4	230	50	1320	72	0.32	53	61	975	60

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

p_{fs} = Pressure increase

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Charts: Air flow 60 Hz

Measurement: LU-112387

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}	LwA_{in}	qv	p_{fs}
	V	Hz	min⁻¹	W	A	dB(A)	dB(A)	m³/h	Pa
1	230	60	1590	80	0.36	56	63	2070	0
2	230	60	1560	83	0.36	55	62	1825	20
3	230	60	1535	86	0.37	55	62	1595	40
4	230	60	1500	90	0.40	55	62	1335	60

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