

S4D300-AS34-37

AC axial fan - HyBlade®

sickled blades (S series)

with guard grille for short nozzle

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Nominal data

Type	S4D300-AS34-37								
Motor	M4D068-CF								
Phase		3~	3~	3~	3~	3~	3~	3~	3~
Nominal voltage	VAC	230	230	266	277	400	400	460	480
Connection		Δ	Δ	Δ	Δ	Y	Y	Y	Y
Frequency	Hz	50	60	60	60	50	60	60	60
Type of data definition		ml	ml	ml	ml	ml	ml	ml	ml
Valid for approval / standard		CE	CE	CE	CE	CE	CE	CE	CE
Speed	min ⁻¹	1300	1400	1480	1510	1300	1400	1480	1510
Power input	W	68	90	102	105	68	90	102	105
Current draw	A	0.25	0.26	0.28	0.28	0.14	0.15	0.16	0.16
Max. back pressure	Pa	60	70	80	80	60	70	80	80
Min. ambient temperature	°C	-25	-25	-25	-25	-25	-25	-25	-25
Max. ambient temperature	°C	60	55	50	50	60	55	50	50

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	2.4 kg
Size	300 mm
Surface of rotor	Coated in black
Material of terminal box	ABS plastic
Material of blades	PP plastic
Material of guard grille	Steel, coated in black plastic (RAL9005)
Number of blades	5
Direction of air flow	"A"
Direction of rotation	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
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	< 0.75 mA
Electrical leads	Via terminal box
Cable exit	Axial
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1

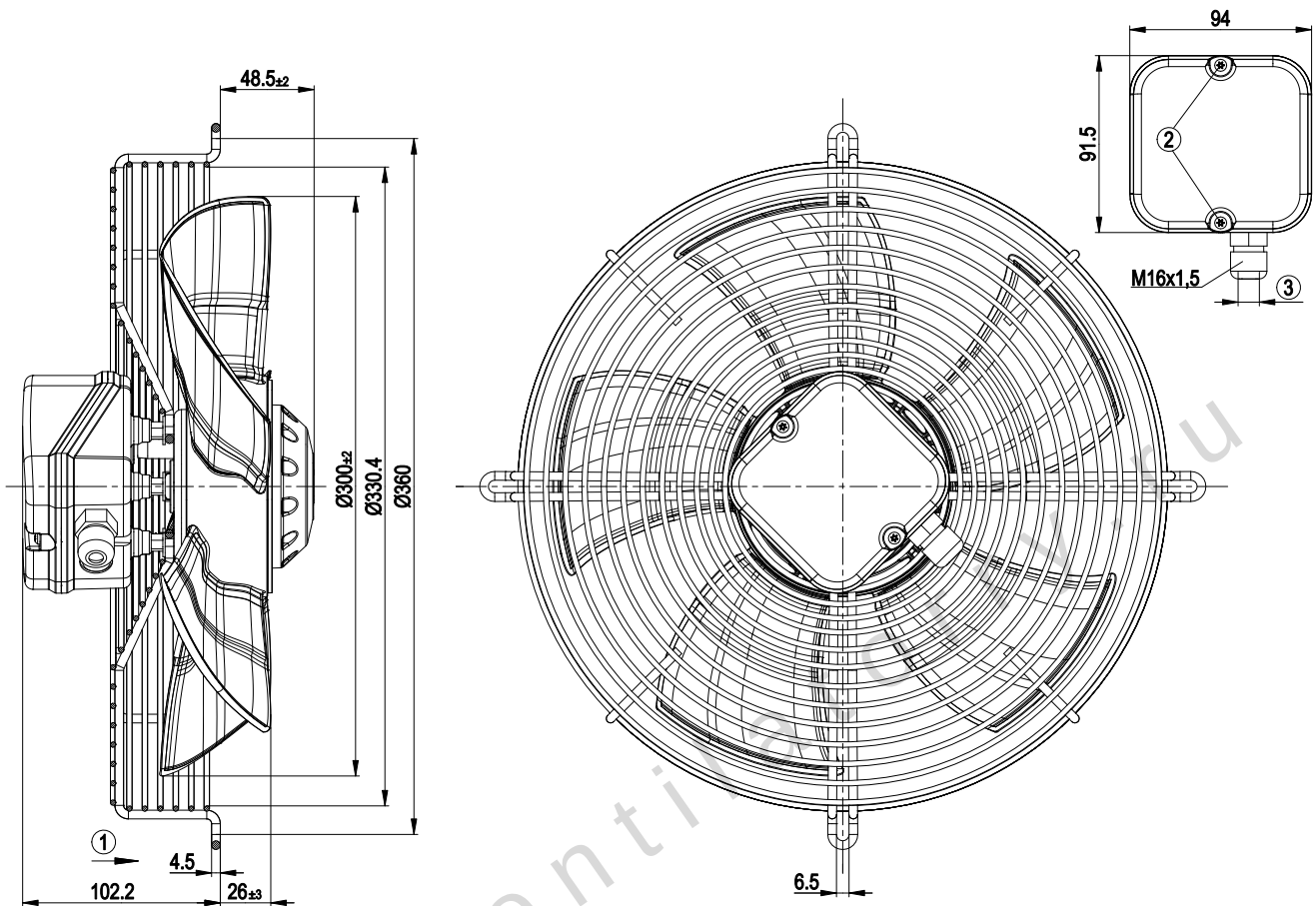
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Product drawing



1	Direction of air flow "A"
2	Tightening torque 1.5 ± 0.2 Nm
3	Cable diameter: min. 6 mm, max. 12 mm, tightening torque: 2 ± 0.3 Nm

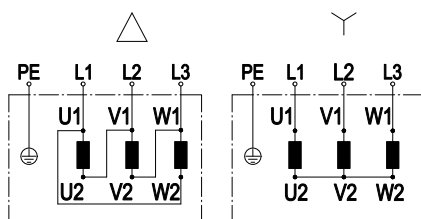
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Connection screen



Change direction of rotation by reversing two phases

	Three-phase motor	Δ	Delta connection	Y	Star connection
L1	= U1 = black	L2	= V1 = blue	L3	= W1 = brown
U2	green	V2	white	W2	yellow
PE	green/yellow				

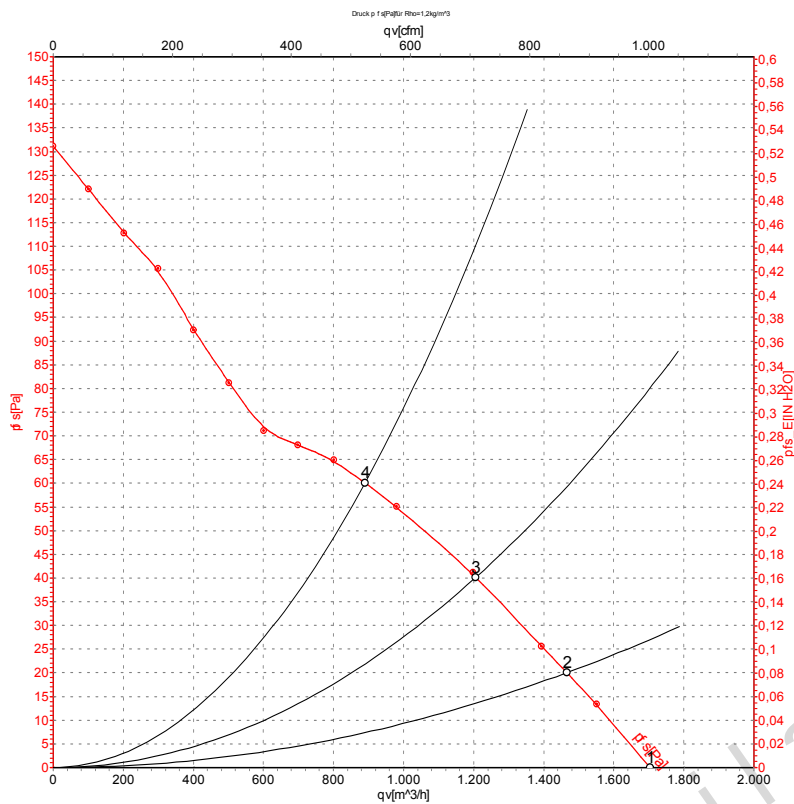
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Charts: Air flow 50 Hz



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 _{ts}
	V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	m³/h	Pa
1	400	50	1350	55	0.13	52	59	1705	0
2	400	50	1350	57	0.13	51	58	1465	20
3	400	50	1335	61	0.13	51	58	1205	40
4	400	50	1300	68	0.14	56	64	890	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_{ts} = Pressure increase

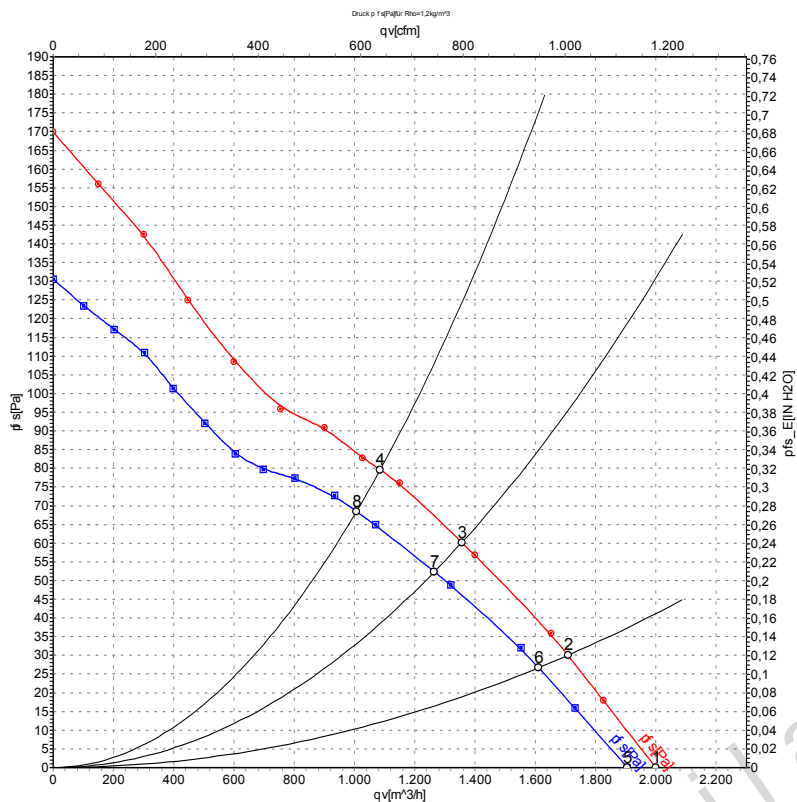
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Charts: Air flow 60 Hz



Air performance measured as per ISO 5801
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levels: LwA measured as per ISO 13347 /
LpA measured with 1m distance to fan axis.
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Measured values

	U	f	n	P _e	I	LpA _{in}	LwA _{in}	qv	p _{ts}
	V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	m³/h	Pa
1	480	60	1600	80	0.15	56	64	2000	0
2	480	60	1580	86	0.15	56	64	1710	30
3	480	60	1560	92	0.15	56	64	1355	60
4	480	60	1510	105	0.16	56	64	1085	80
5	400	60	1500	70	0.13	55	62	1905	0
6	400	60	1495	75	0.14	54	61	1610	27
7	400	60	1460	80	0.14	54	61	1265	52
8	400	60	1400	90	0.15	58	66	1005	68

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