S4D300-AS34-50

AC axial fan - HyBlade®

sickled blades (S series)

with guard grille for short nozzle

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Nominal data

Type	**S4D300-AS34-50**
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

Size	300 mm
Surface of rotor	Coated in black
Material of terminal box	ABS plastic, black
Material of blades	PP-GF40 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
Cable exit	Axial
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1
Approval	CCC

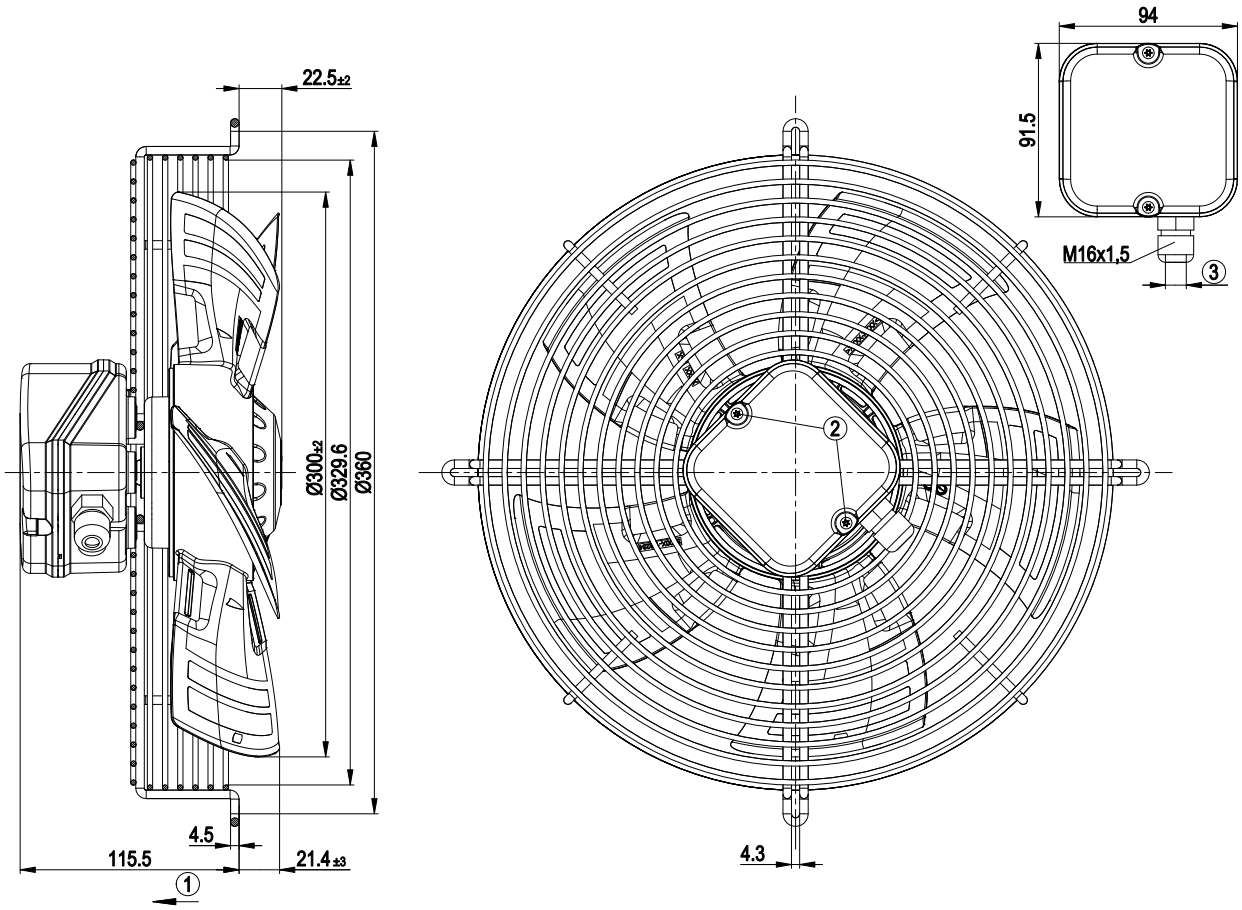
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Product drawing



1	Direction of air flow "V"
2	Tightening torque 0.8±0.15 Nm
3	Cable diameter: max. 7.5 mm; tightening torque 2±0.3 Nm

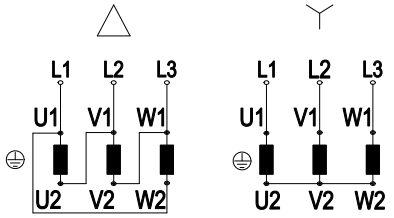
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Connection screen



Note: Direction of rotation changes when two phases are reversed

Δ	Delta connection	Y	Star connection	L1	black
L2	blue	L3	brown	U1	black
V1	blue	W1	brown	U2	green
V2	white	W2	yellow		

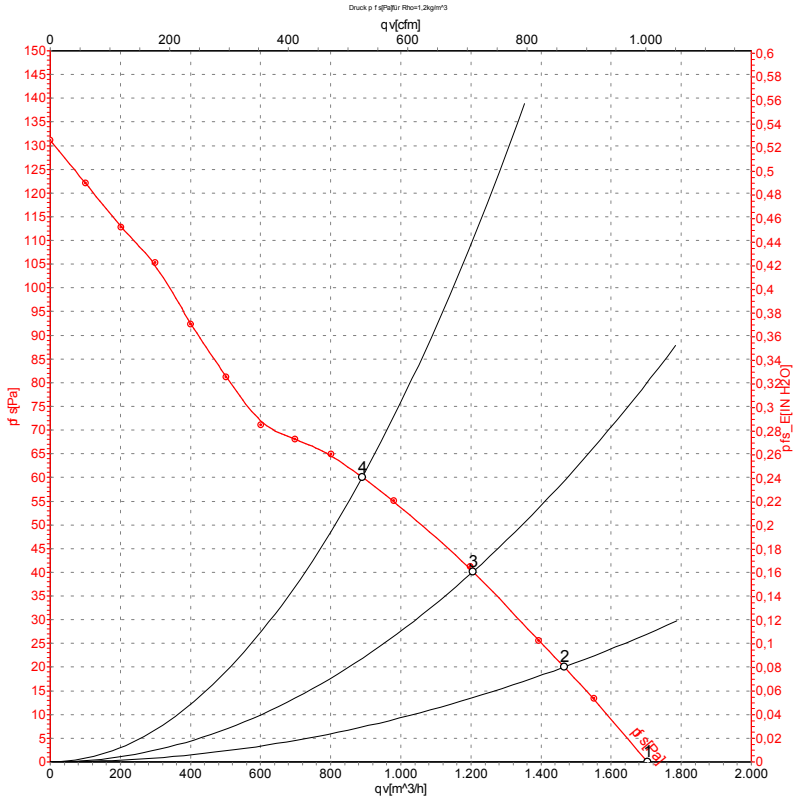
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Charts: Air flow 50 Hz



Measurement: LU-114649

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	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_{fs} = Pressure increase

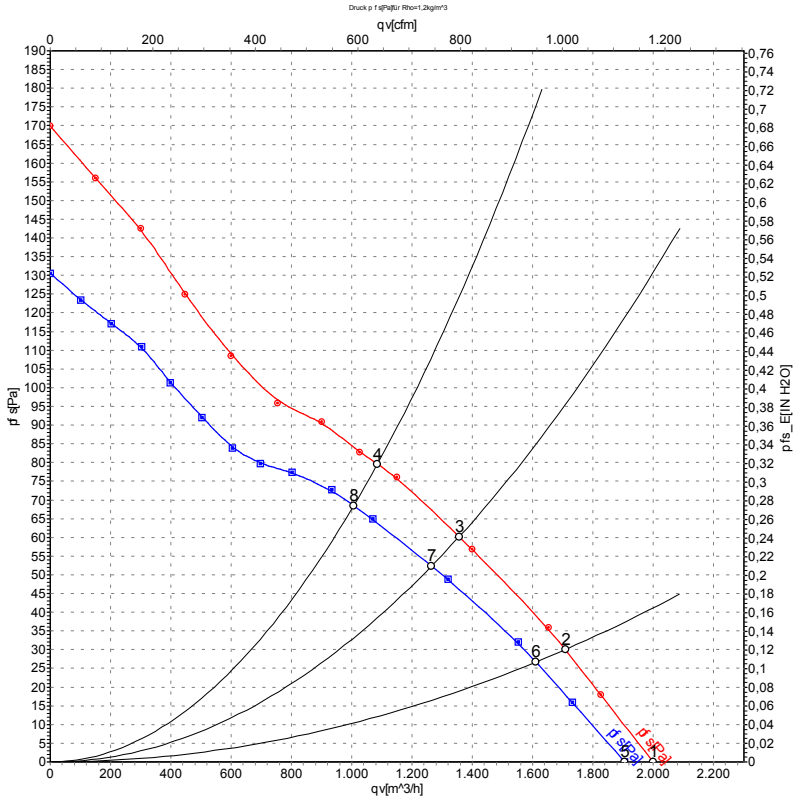
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Charts: Air flow 60 Hz



Measurement: LU-114654
Measurement: LU-114653

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	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

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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