A4D300-AR34-10

AC axial fan

sickled blades (S series)

A4D300-AR34-10 ebmpapst Datasheet
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County court Stuttgart · HRA 590344

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Nominal data

Type	**A4D300-AR34-10**
Motor	**M4D068-CF**

Phase		3~	3~	3~
Nominal voltage	VAC	400	400	480
Connection		Y	Y	Y
Frequency	Hz	50	60	60
Type of data definition		fa	fa	fa
Valid for approval / standard		CE	CE	CE
Speed	min^{-1}	1360	1490	1600
Power input	W	56	75	85
Current draw	A	0.13	0.13	0.15
Max. back pressure	Pa	50	60	80
Max. ambient temperature	°C	95	90	75
Starting current	A			0.40

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	1.8 kg
Size	300 mm
Surface of rotor	Coated in black
Material of blades	Sheet steel, coated in black
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	"F"
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
Motor protection	Thermal overload protector (TOP) brought out
Cable exit	Lateral
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1; CE
Approval	UL 1004-1; CSA C22.2 Nr.100

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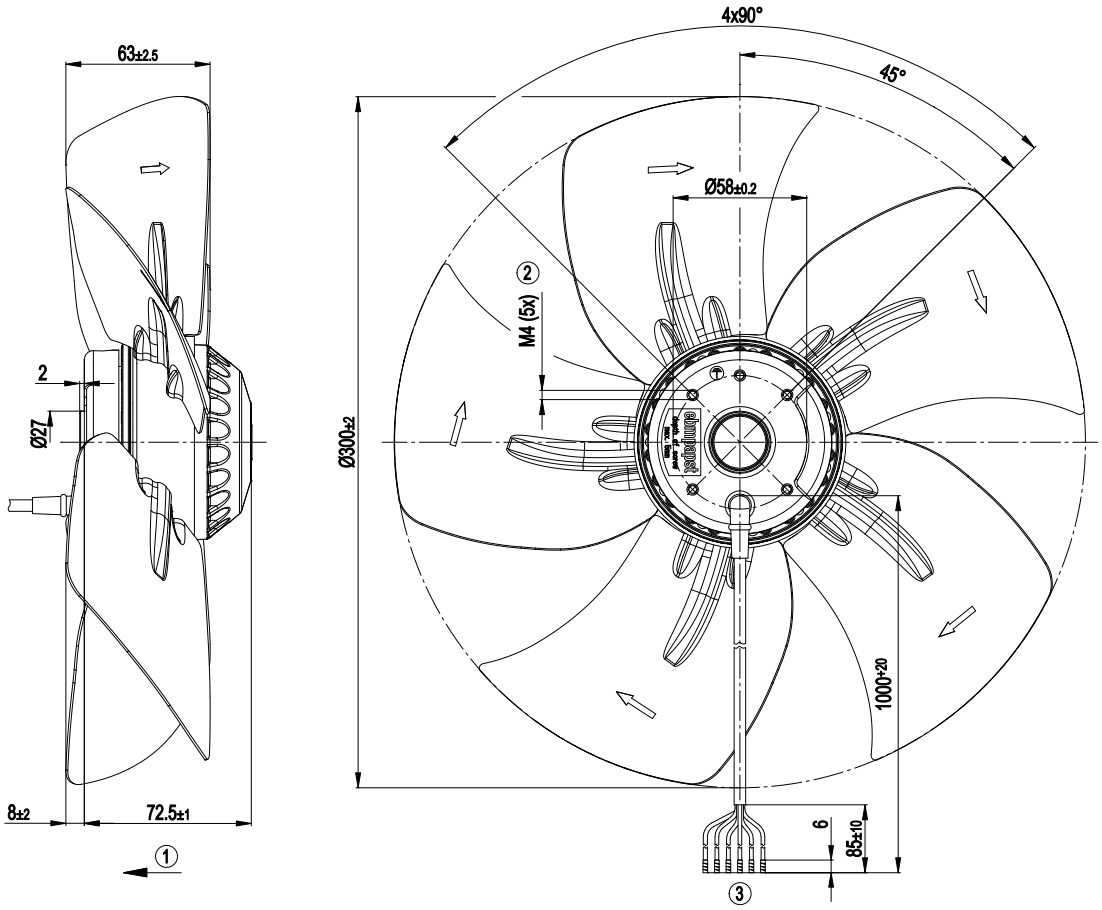
Product drawing



1	Direction of air flow "V"
2	Depth of screw max. 5 mm
3	Connecting line PFA 5x AWG20, 1x AWG18 (green/yellow); 6x brass lead tips crimped

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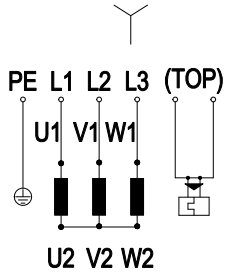
Connection screen



Y	Star connection	L1	black	L2	Blue
L3	brown	TOP	2x grey	PE	green/yellow

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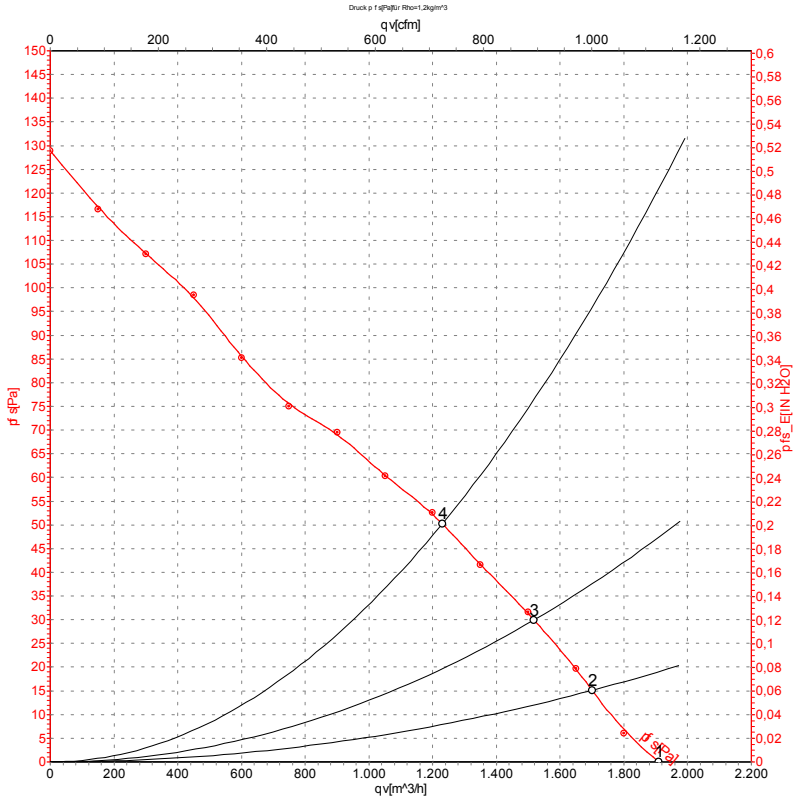
Charts: Air flow 50 Hz Y



Measurement: LU-111447

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

	Conn.	U	f	n	P_e	I	qv	p_{fs}
		V	Hz	min^{-1}	W	A	m^3/h	Pa
1	Y	400	50	1360	56	0.13	1910	0
2	Y	400	50	1340	60	0.13	1700	15
3	Y	400	50	1325	64	0.14	1520	30
4	Y	400	50	1300	69	0.14	1230	50

Conn. = Connection · 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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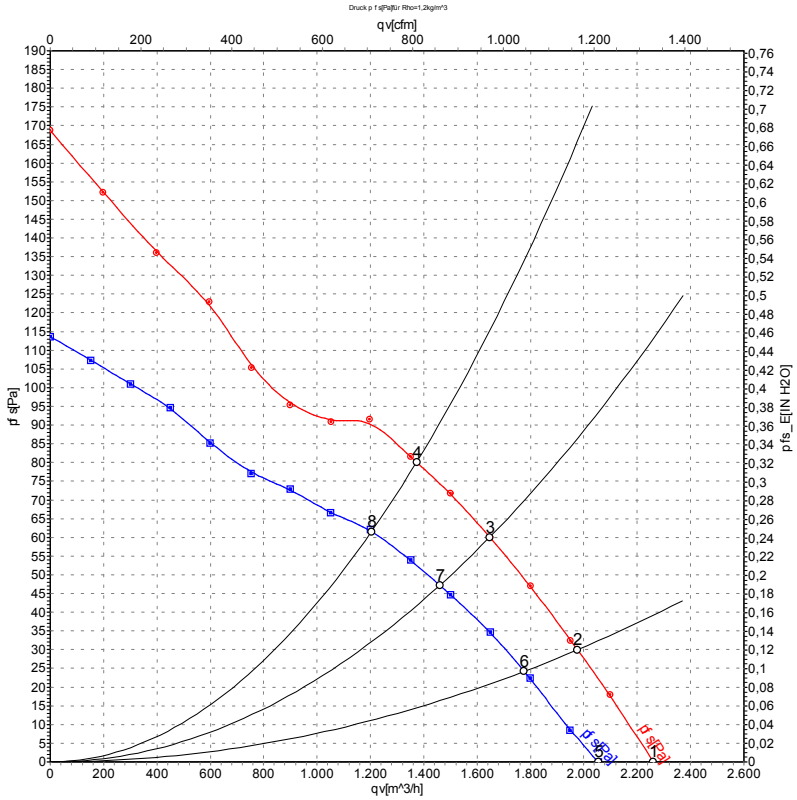
Charts: Air flow 60 Hz Y



Measurement: LU-122091
Measurement: LU-111449

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

	Conn.	U	f	n	P_e	I	qv	p_{fs}
		V	Hz	min^{-1}	W	A	m^3/h	Pa
1	Y	480	60	1600	85	0.15	2260	0
2	Y	480	60	1580	92	0.15	1975	30
3	Y	480	60	1540	102	0.16	1645	60
4	Y	480	60	1520	108	0.16	1375	80
5	Y	400	60	1490	75	0.13	2055	0
6	Y	400	60	1455	82	0.14	1775	24
7	Y	400	60	1415	89	0.15	1460	47
8	Y	400	60	1360	96	0.16	1205	60

Conn. = Connection · U = Supply voltage · f = Frequency · n = Speed · P_e = Power input · I = Current draw · qv = Air flow · p_{fs} = Pressure increase