AC axial fan

sickled blades (S series)

Nominal data

Type	**A4D300-AP34-11**
Motor	**M4D068-CF**

Phase		3~	3~	3~	3~	3~	3~	3~	3~	3~	3~
Nominal voltage	VAC	230	230	265	277	400	400	400	460	480	480
Connection		Δ	Δ	Δ	Δ	Y	Y	Y	Y	Y	Y
Frequency	Hz	50	60	60	60	50	60	60	60	60	60
Type of data definition		fa	fa	fa	fa	fa	fa	fa	fa	fa	fa
Valid for approval / standard		CE	CE	CE	CE	CE	CE	UL	CE	UL	CE
Speed	min^{-1}	1360	1520	1570	1610	1360	1520	1520	1570	1610	1610
Power input	W	56	73	80	84	56	73	73	80	84	84
Current draw	A	0.23	0.23	0.24	0.26	0.13	0.13	0.13	0.14	0.15	0.15
Max. back pressure	Pa	90	60	100	60	90	60	60	100	60	
Max. ambient temperature	°C	75	70	55	70	75	70	70	55	70	70
Starting current	A	0.6	0.61	0.4	0.4	0.34	0.35	0.35	0.4	0.4	0.4

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	2.1 kg
Size	300 mm
Surface of rotor	Coated in black
Material of blades	Sheet steel, coated in black
Number of blades	7
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	F2-2
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
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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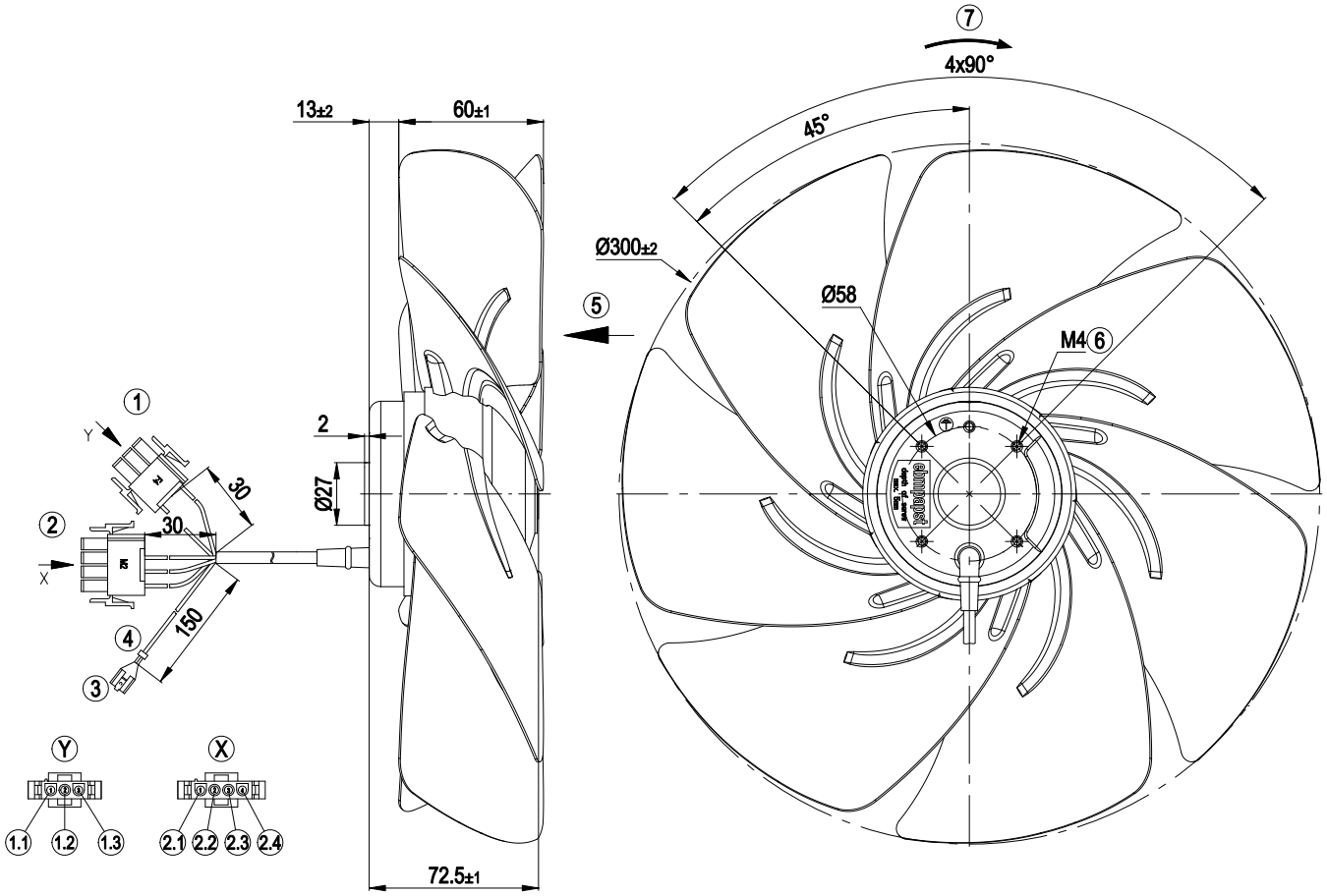
Product drawing



1	Connector housing AMP 350766-4, plug pin 926885-1 (2x)
1.1	grey
1.2	free
1.3	grey
2	Connector housing AMP 350799-4, plug pin 926885-1 (3x)
2.1	free
2.2	brown
2.3	blue
2.4	black
3	Receptacle for tabs AMP 160389-3
4	green/yellow
5	Direction of air flow "V"
6	Depth of screw max. 5 mm
7	Direction of rotation counterclockwise, seen on rotor

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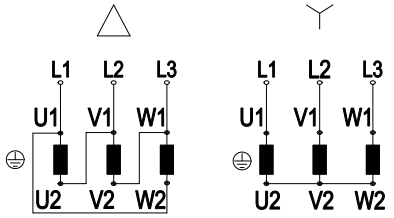
Connection screen



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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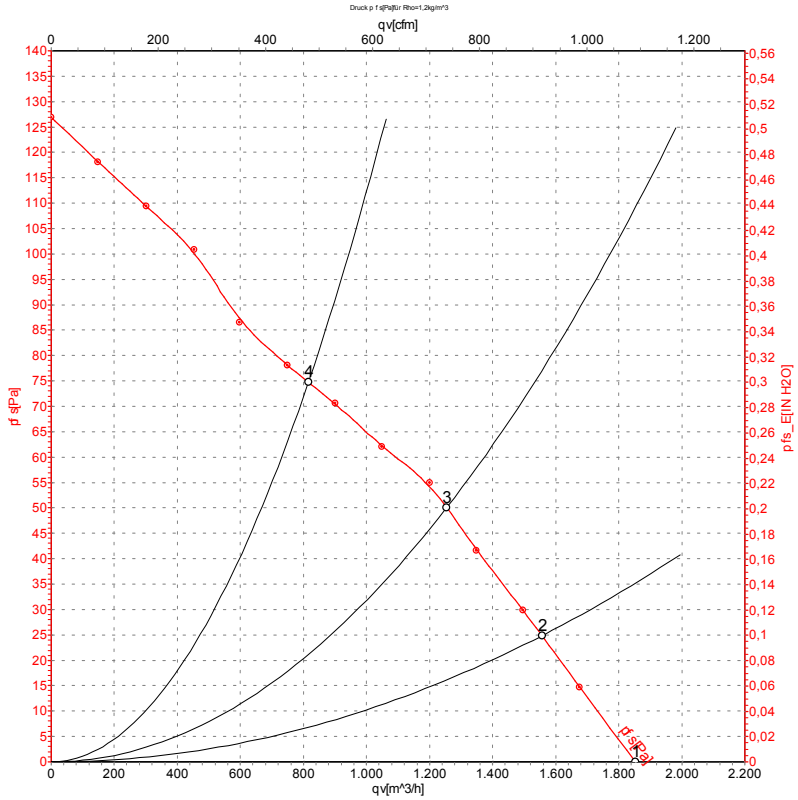
Charts: Air flow 50 Hz



Measurement: LU-112231

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	1850	0
2	Y	400	50	1330	62	0.14	1555	25
3	Y	400	50	1305	67	0.14	1255	50
4	Y	400	50	1230	82	0.16	815	75

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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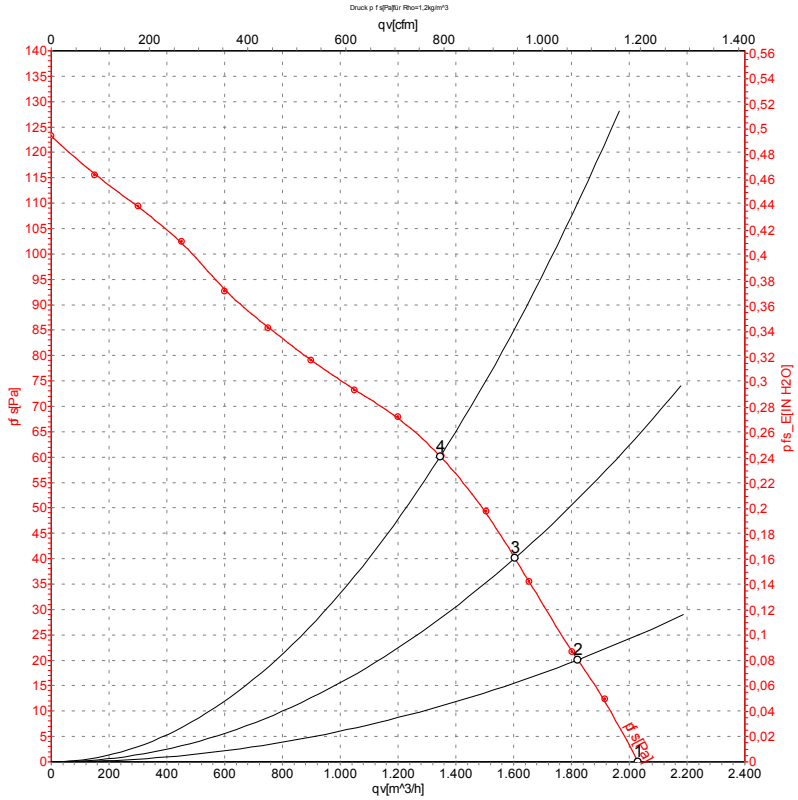
Charts: Air flow 60 Hz



Measurement: LU-112233

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	60	1520	73	0.13	2030	0
2	Y	400	60	1465	80	0.14	1820	20
3	Y	400	60	1440	84	0.15	1605	40
4	Y	400	60	1400	90	0.15	1345	60

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