A4E300-AT30-10

AC axial fan - HyBlade

sickle-shaped blades (S series)

A4E300-AT30-10 ebmpapst Datasheet
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Nominal data

Type	**A4E300-AT30-10**
Motor	**M4E068-DF**

Phase		1~	1~	1~
Nominal voltage	VAC	115	115	115
Frequency	Hz	50	60	60
Method of obtaining data		ml	ml	ml
Valid for approval/standard		CE	UL 1004-3	CE
Speed (rpm)	min^{-1}	1390	1590	1590
Power consumption	W	77	107	102
Current draw	A	0.74	0.91	0.9
Capacitor	µF	10	10	10
Capacitor voltage	VDB	250	250	250
Capacitor standard		S0 (CE)	UL	S0 (CE)
Max. back pressure	Pa	55	75	75
Max. back pressure	in. wg	0.22	0.3	0.3
Min. ambient temperature	°C	-25	-25	-25
Max. ambient temperature	°C	60	70	70
Starting current	A	2.02	1.92	1.92

ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment
Subject to change

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Technical description

Weight	2.3 kg
Size	300 mm
Motor size	68
Rotor surface	Painted black
Blade material	Press-fitted sheet steel blank, sprayed with PP plastic
Number of blades	5
Airflow direction	A
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP44; installation- and position-dependent as per EN 60034-5
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	H1
Max. permitted ambient temp. for motor (transport/storage)	+ 80 °C
Min. permitted ambient temp. for motor (transport/storage)	- 40 °C
Installation position	Shaft horizontal or rotor on bottom; rotor on top on request
Condensation drainage holes	On rotor side
Mode	S1
Motor bearing	Ball bearing
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	< 0.75 mA
Motor protection	Thermal overload protector (TOP) internally connected
With cable	Axial
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1; CE
Approval	CSA C22.2 No. 77; UL 1004-3

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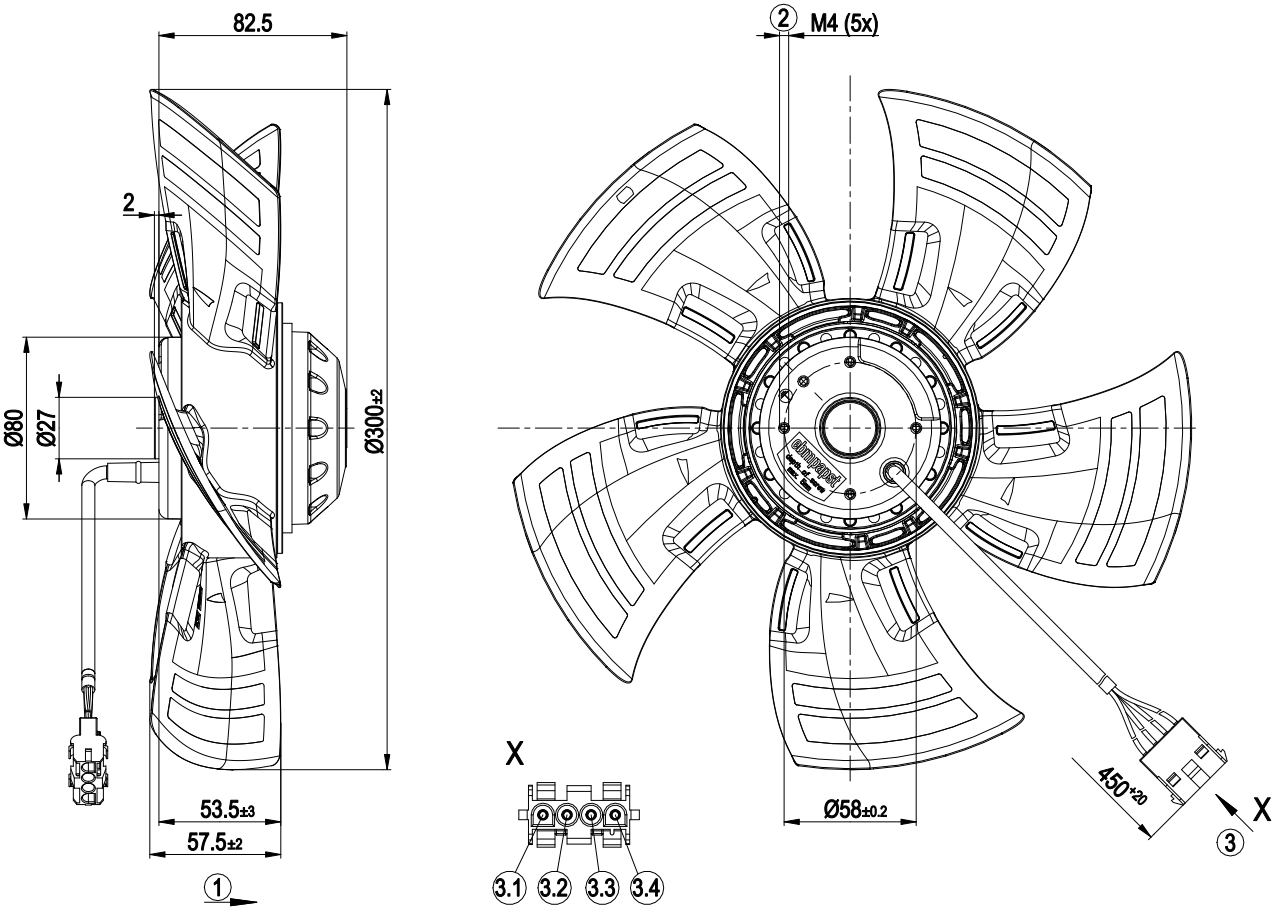
Product drawing



1	Direction of air flow "A"
2	Max. clearance for screw 5 mm
3	Cable PVC AWG20
	4-pole connector housing TE 926305-7, 4x socket TE 926882-3
3.1	L (blue)
3.2	PE (green/yellow)
3.3	N (black)
3.4	Z (brown)

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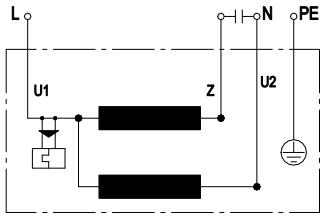
Connection diagram



U1	blue	Z	brown	U2	black
PE	green/yellow				

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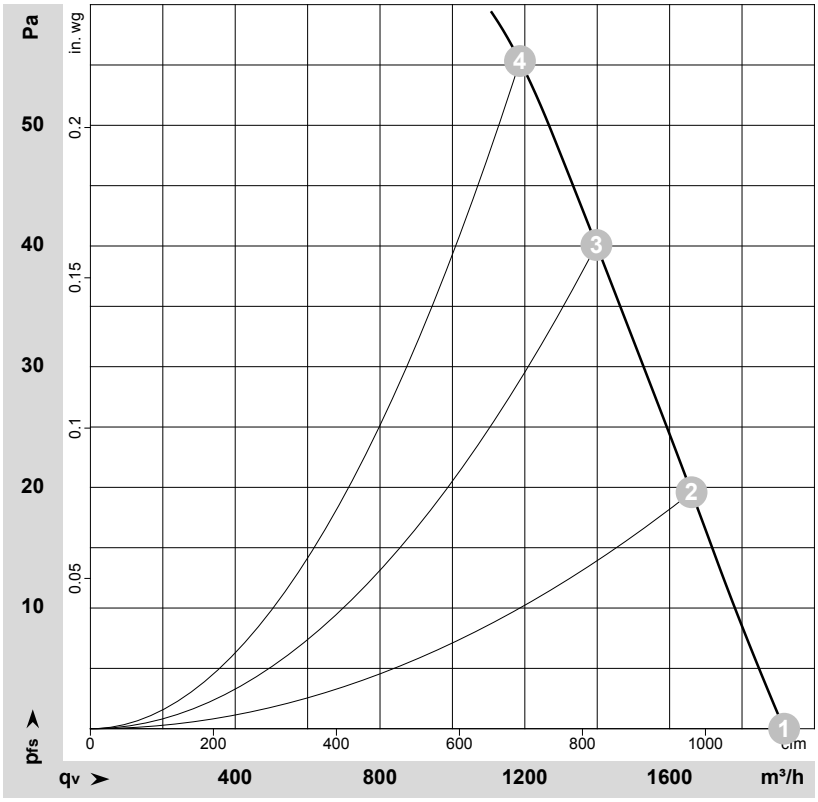
Curves: Air performance 50 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-136907-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters have to be checked on the installed unit.

Measured values

	Wired	U	f	n	P_e	I	q_V	p_{fs}	q_V	p_{fs}
		V	Hz	min^{-1}	W	A	m^3/h	Pa	cfm	in. wg
1	1~	115	50	1430	65	0.67	1915	0	1130	0.00
2	1~	115	50	1420	70	0.70	1660	20	980	0.08
3	1~	115	50	1410	74	0.72	1400	40	825	0.16
4	1~	115	50	1390	77	0.74	1185	55	700	0.22

Wired = Wiring · U = Voltage · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · q_V = Air flow · p_{fs} = Pressure increase

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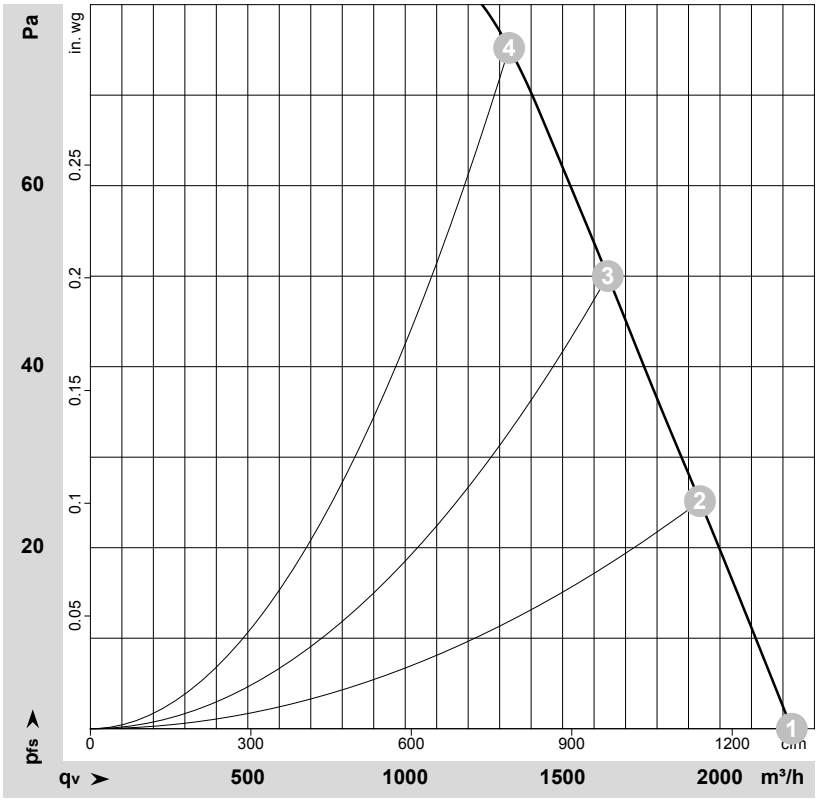
Curves: Air performance 60 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-136908-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters have to be checked on the installed unit.

Measured values

	Wired	U	f	n	P_e	I	q_V	p_{fs}	q_V	p_{fs}
		V	Hz	min^{-1}	W	A	m^3/h	Pa	cfm	in. wg
1	1~	115	60	1670	83	0.72	2230	0	1310	0.00
2	1~	115	60	1645	90	0.78	1935	25	1140	0.10
3	1~	115	60	1625	95	0.83	1645	50	965	0.20
4	1~	115	60	1590	102	0.90	1330	75	785	0.30

Wired = Wiring · U = Voltage · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · q_V = Air flow · p_{fs} = Pressure increase