A6E450-AQ15-12

AC axial fan

sickle-shaped blades (S series)

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Nominal data

Type	**A6E450-AQ15-12**
Motor	**M6E074-EI**

Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50	60
Method of obtaining data		fa	fa
Valid for approval/standard		-	-
Speed (rpm)	min^{-1}	870	930
Power consumption	W	140	190
Current draw	A	0.62	0.83
Capacitor	µF	4	4
Capacitor voltage	VDB	400	400
Capacitor standard		S0 (CE)	S0 (CE)
Max. back pressure	Pa	43	43
Max. back pressure	inH2O	0.17	0.17
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	60	50
Starting current	A	0.92	0.92

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

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Technical description

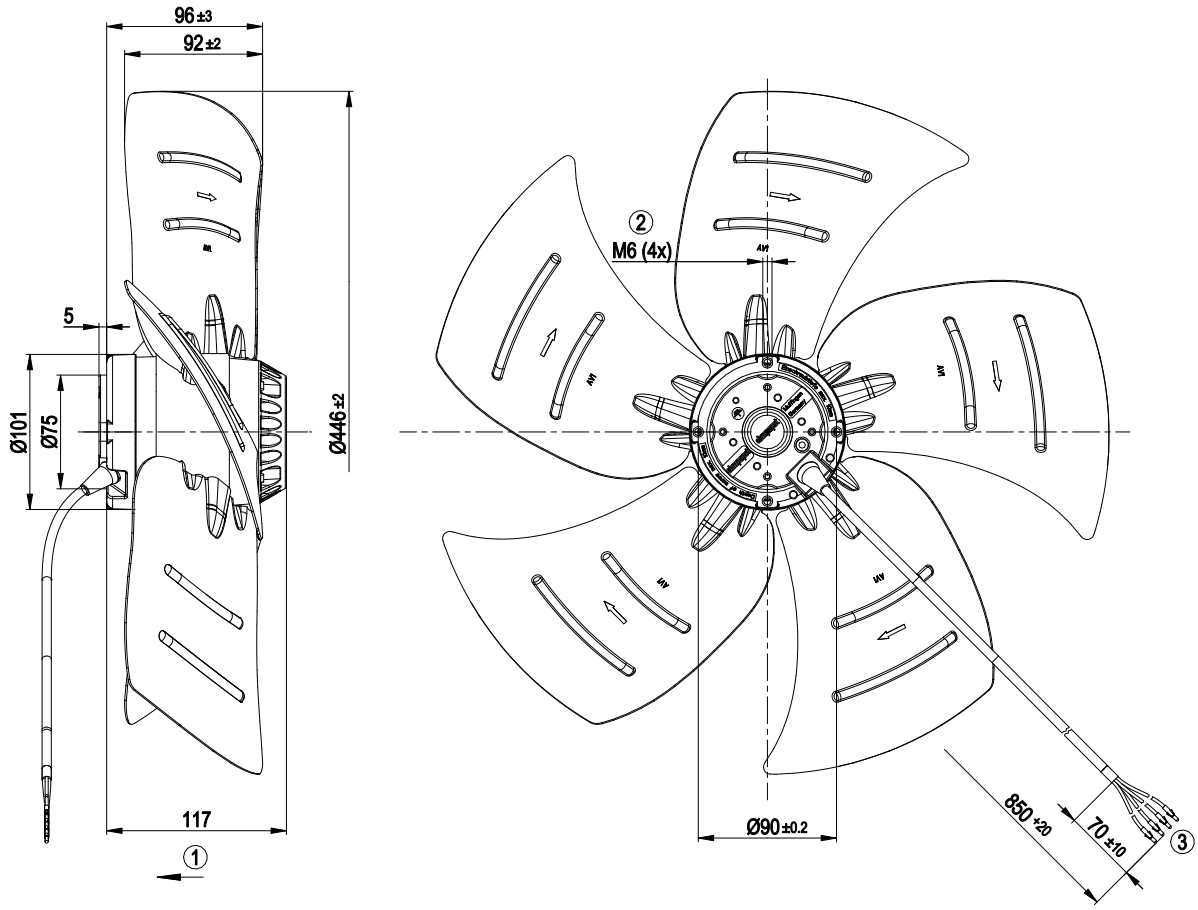
Weight	4.6 kg
Fan size	450 mm
Rotor surface	Painted black
Blade material	Sheet steel, galvanized
Number of blades	5
Airflow direction	"V"
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP44; installation- and position-dependent as per EN 60034-5
Insulation class	"F"
Moisture (F) / Environmental (H) protection class	F2-2
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
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	Variable
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1

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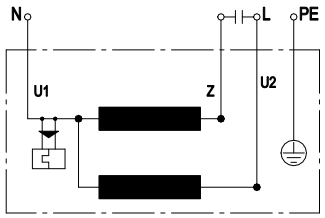
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Product drawing



1	Direction of air flow "V"
2	Max. clearance for screw 10 mm
3	Cable silicone 4G 0.75 mm², 4x plug pin AMP 350218-1 crimped

Connection diagram



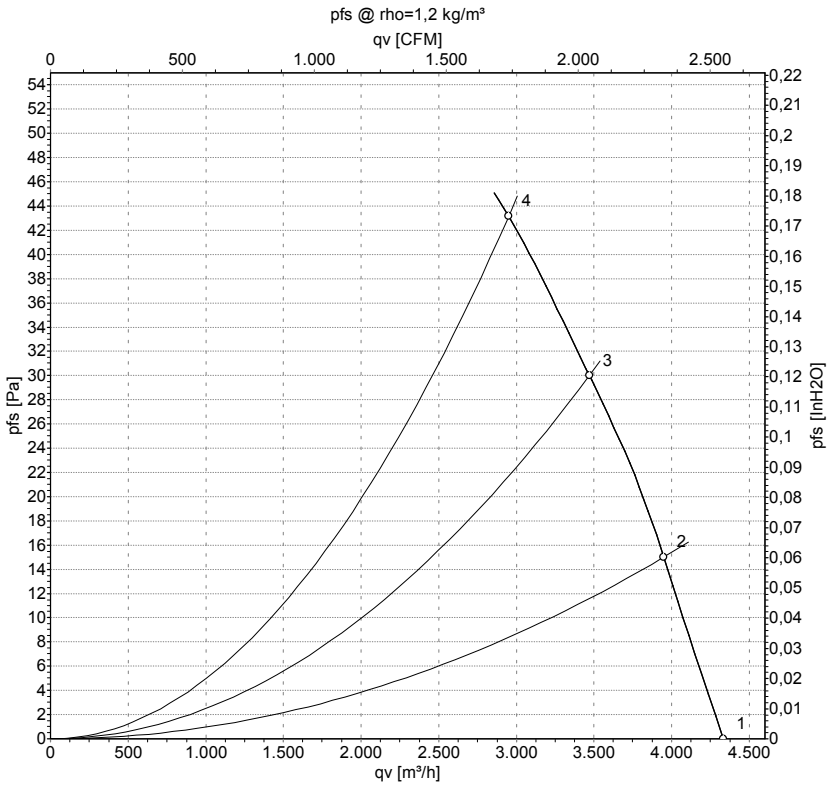
U1	gray	Z	brown	U2	black
PE	Green/yellow				

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AC axial fan

sickle-shaped blades (S series)

Curves: Air performance 50 Hz



Measurement: LU-78318-1

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

	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	inH2O
1	230	50	870	140	0.62	4330	0	2550	0.00
2	230	50	855	145	0.63	3950	15	2325	0.06
3	230	50	840	149	0.65	3470	30	2040	0.12
4	230	50	825	154	0.67	2950	43	1735	0.17

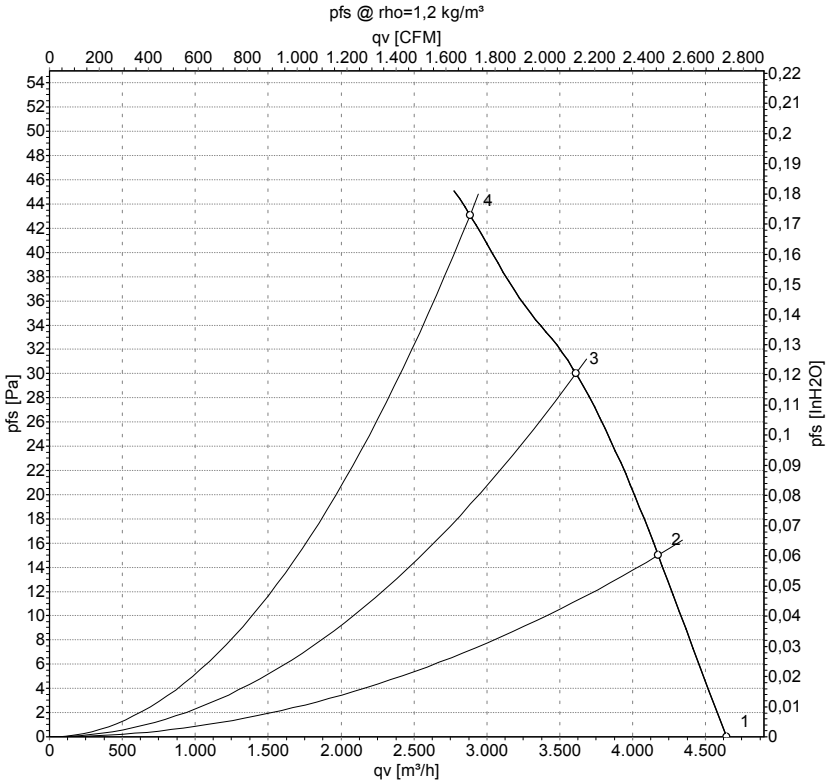
U = Power supply · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · q_V = Air flow · p_{fs} = Pressure increase

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AC axial fan

sickle-shaped blades (S series)

Curves: Air performance 60 Hz



Measurement: LU-78319-1

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

	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	inH2O
1	230	60	930	190	0.83	4640	0	2730	0.00
2	230	60	895	191	0.83	4175	15	2455	0.06
3	230	60	860	194	0.84	3610	30	2125	0.12
4	230	60	810	195	0.85	2885	43	1700	0.17

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

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