A6E450-AF13-15

AC axial fan

sickle-shaped blades (S series)

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Nominal data

Type	**A6E450-AF13-15**
Motor	**M6E074-EI**

Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50
Method of obtaining data		fa
Valid for approval/standard		CE
Speed (rpm)	min^{-1}	840
Power consumption	W	115
Current draw	A	0.51
Capacitor	µF	3
Capacitor voltage	VDB	400
Capacitor standard		S0 (CE)
Max. back pressure	Pa	40
Max. back pressure	inH2O	0.16
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	60
Starting current	A	0.7

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

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Technical description

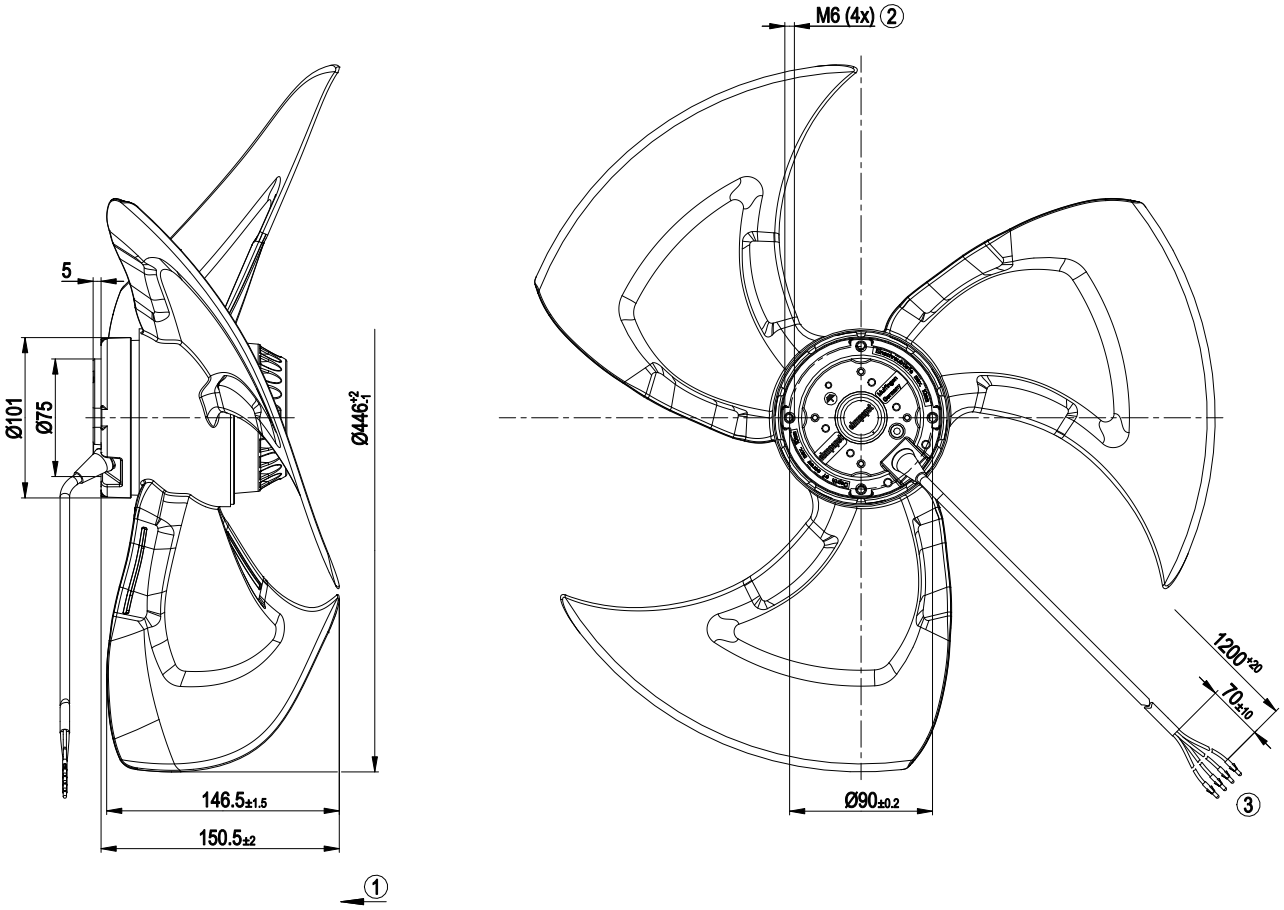
Weight	3.7 kg
Fan size	450 mm
Rotor surface	Painted black
Blade material	PP plastic
Number of blades	3
Airflow direction	"V"
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP44; installation- and position-dependent as per EN 60034-5
Insulation class	"F"
Moisture (F) / 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; 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	Variable
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1; CE

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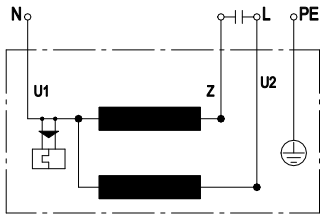
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Product drawing



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

Connection diagram



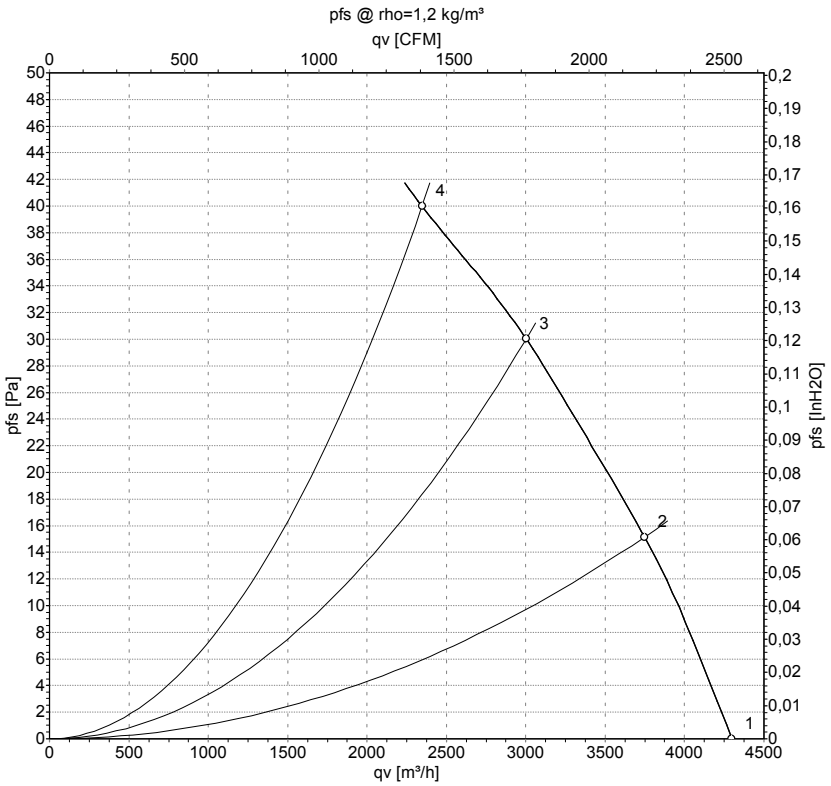
U1	gray	Z	brown	U2	black
PE	Green/yellow				

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Curves: Air performance 50 Hz



Measurement: LU-143950-1

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	840	115	0.51	4295	0	2530	0.00
2	230	50	815	118	0.51	3745	15	2205	0.06
3	230	50	785	123	0.53	3000	30	1765	0.12
4	230	50	755	125	0.55	2345	40	1380	0.16

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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