A6E450-AQ02-05

AC axial fan

sickle-shaped blades (S series)

A6E450-AQ02-05 ebmpapst Datasheet
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Nominal data

Type	**A6E450-AQ02-05**	
Motor	**M6E074-EI**	
Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50
Method of obtaining data		ml
Valid for approval/standard		-
Speed (rpm)	min^{-1}	830
Power consumption	W	170
Current draw	A	0.78
Capacitor	µF	4
Capacitor voltage	VDB	450
Capacitor standard		S0 (CE)
Max. back pressure	Pa	40
Max. back pressure	inH2O	0.16
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	35
Starting current	A	2.35

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	4.5 kg
Fan size	450 mm
Rotor surface	Painted black
Blade material	Sheet steel, painted black
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	H0+
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

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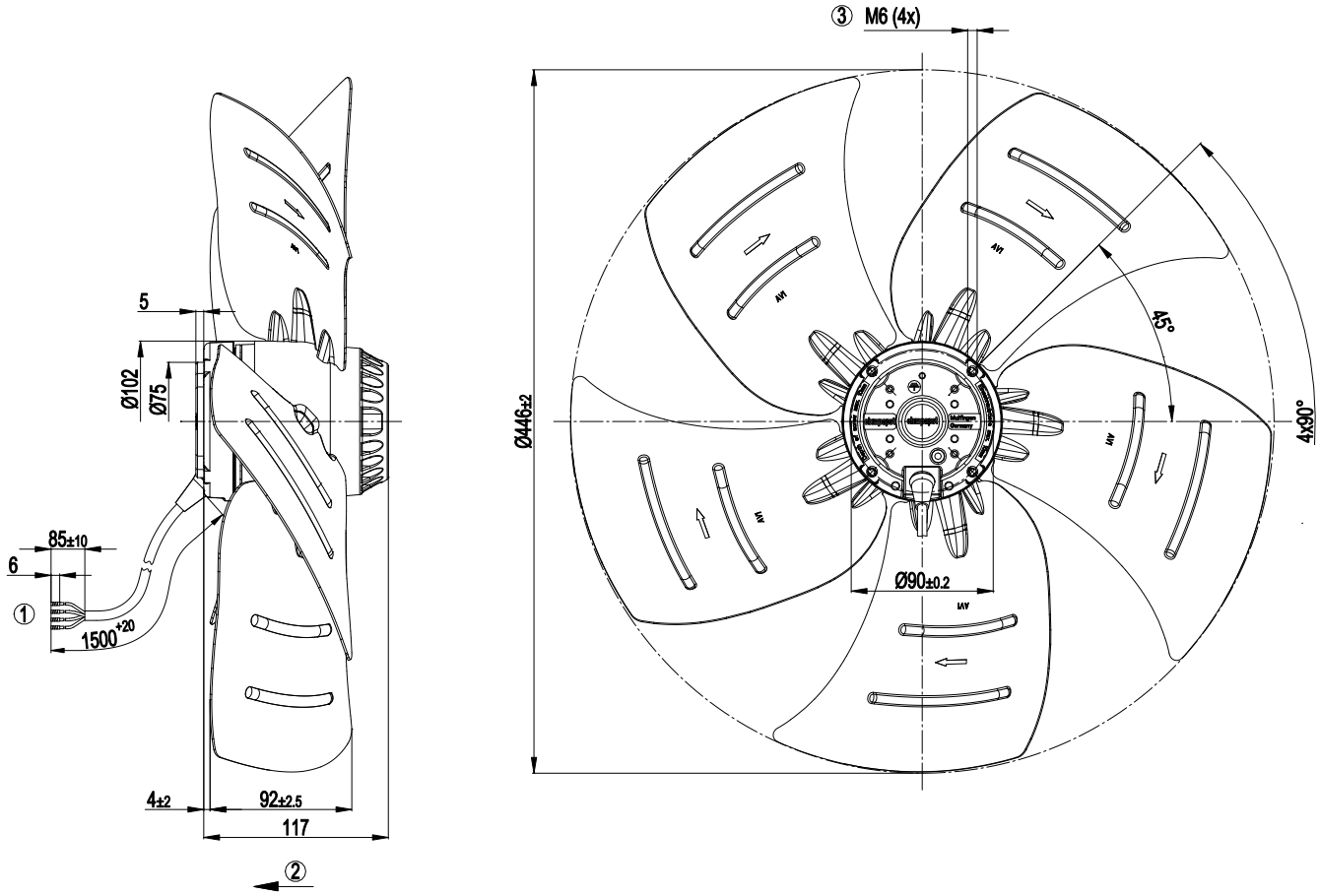
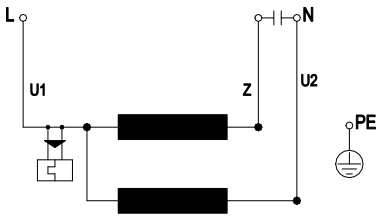
Product drawing



1	Cable silicone 4G 0.5 mm², 4x crimped splices
2	Direction of air flow "V"
3	Max. clearance for screw 10 mm

Connection diagram



U1	blue	Z	brown	U2	black
PE	green/yellow				

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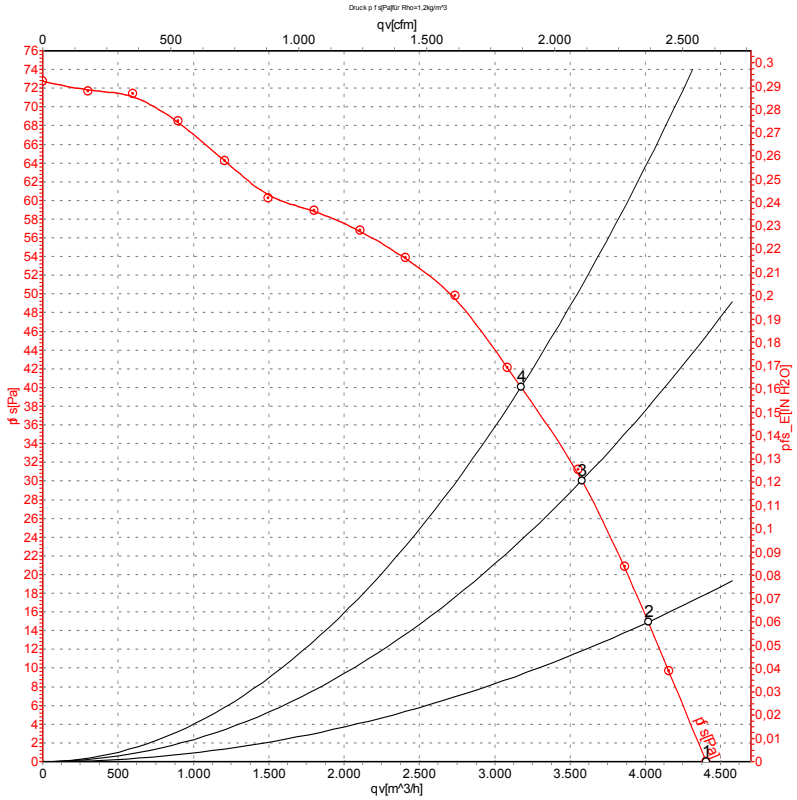
Curves: Air performance 50 Hz



Measurement: LU-114511-1

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	890	153	0.72	4405	0	2590	0.00
2	230	50	875	159	0.74	4020	15	2365	0.06
3	230	50	855	164	0.76	3575	30	2105	0.12
4	230	50	830	170	0.78	3175	40	1870	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