

ASIA PACIFIC SHENGRUI LIMITED

Phone +00852 56261528

info@apacfan.com

www.apacfan.com

Nominal data

Type	A6E500-AJ03-05		
Motor	M6E110-EF		
Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50	60
Method of obtaining data		ml	ml
Valid for approval/standard		-	-
Speed (rpm)	min ⁻¹	915	1015
Power consumption	W	270	390
Current draw	A	1.18	1.72
Capacitor	μF	8	8
Capacitor voltage	VDB	400	400
Max. back pressure	Pa	70	90
Max. back pressure	inH ₂ O	0.28	0.36
Min. ambient temperature	°C	-40	-40
Max. ambient temperature	°C	65	65
Starting current	A	2.3	

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

AC axial fan - HyBlade

sickle-shaped blades (S series)

Technical description

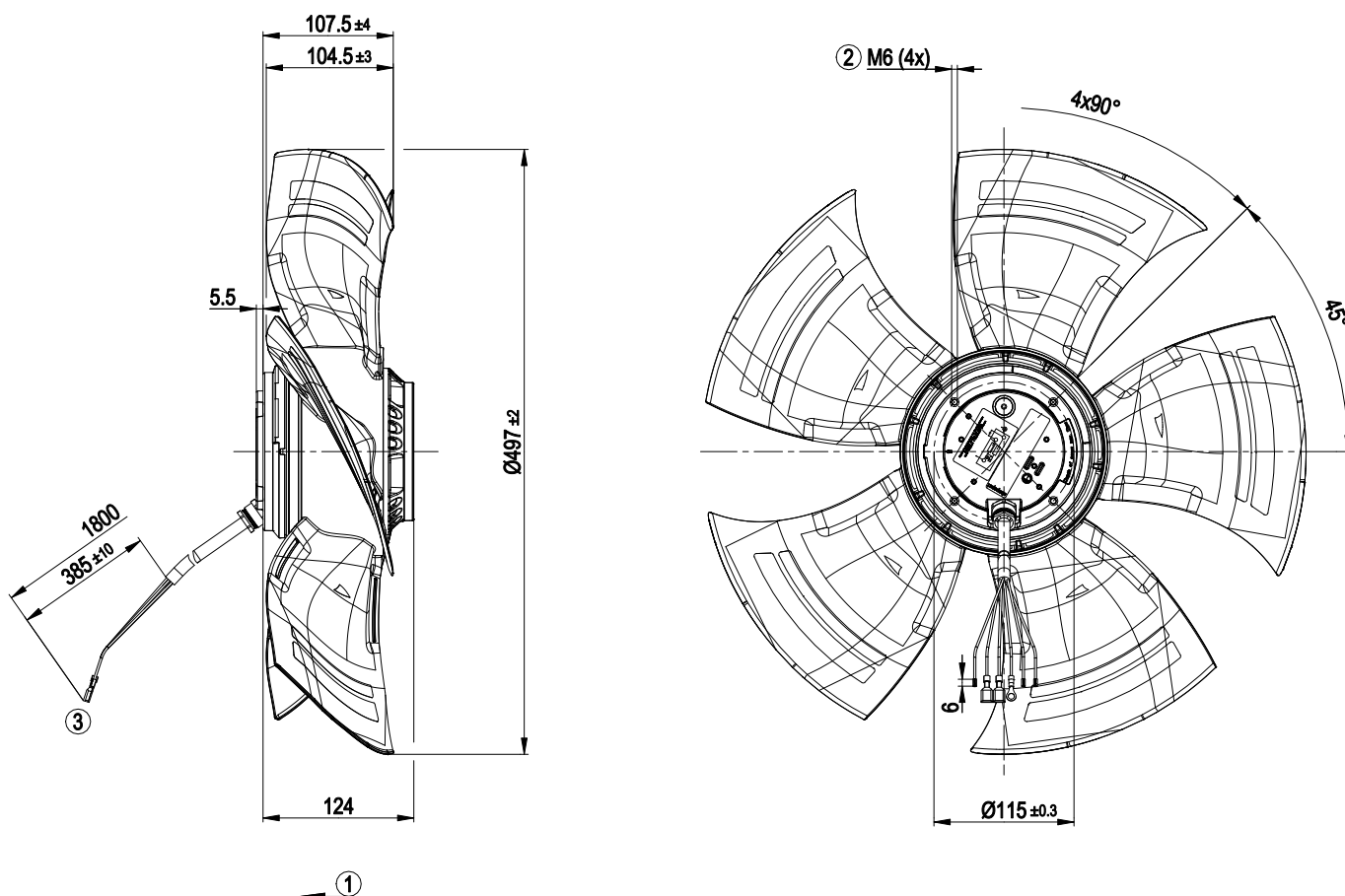
Weight	7.5 kg
Fan size	500 mm
Rotor surface	Painted black
Blade material	Press-fitted sheet steel blank, sprayed with PP plastic
Number of blades	5
Airflow direction	"V"
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP54
Insulation class	"F"
Moisture (F) / Environmental (H) protection class	F4-1
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)	<= 3.5 mA
Motor protection	Thermal overload protector (TOP) with basic insulation
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60034
Approval	EAC; VDE; UL 1004-1; CSA C22.2 No. 100



AC axial fan - HyBlade

sickle-shaped blades (S series)

Product drawing

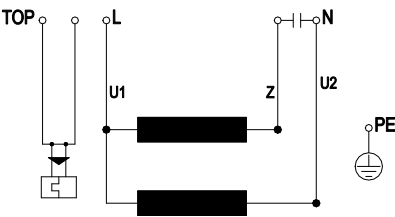


1	Direction of air flow "V"
2	Max. clearance for screw 12 mm
3	Cable silicone 6G 0.5 mm², 2x flat push-on receptacle tyco 2-520405-2, 1x ring terminal tyco 2-34149-1, 3x wire-end splice

AC axial fan - HyBlade

sickle-shaped blades (S series)

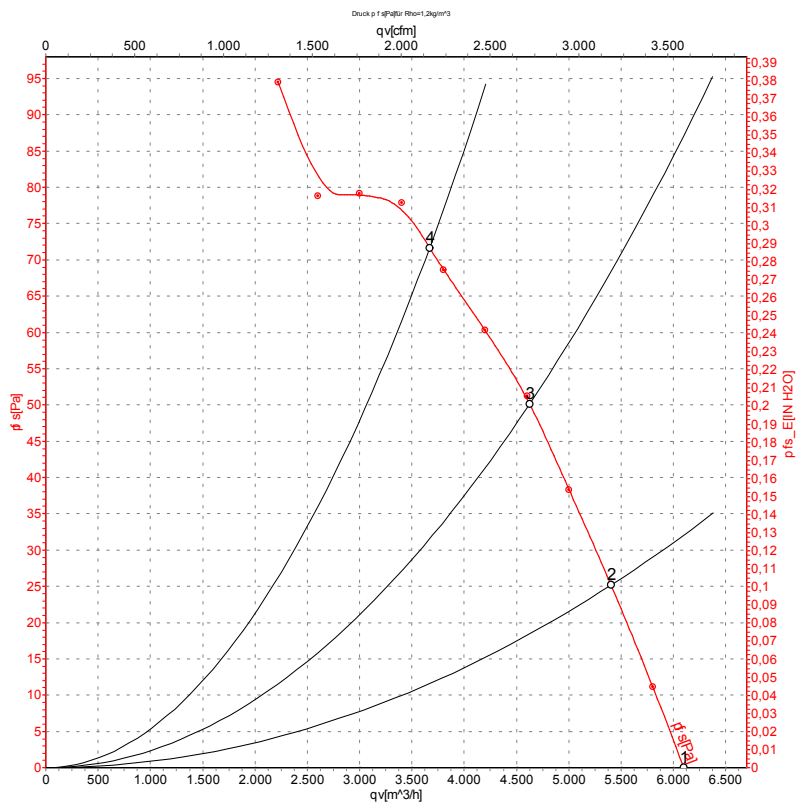
Connection diagram



TOP	2x gray	U1	blue	Z	brown
U2	black	PE	green/yellow		



Curves: Air performance 50 Hz



Measurement: LU-105735-1

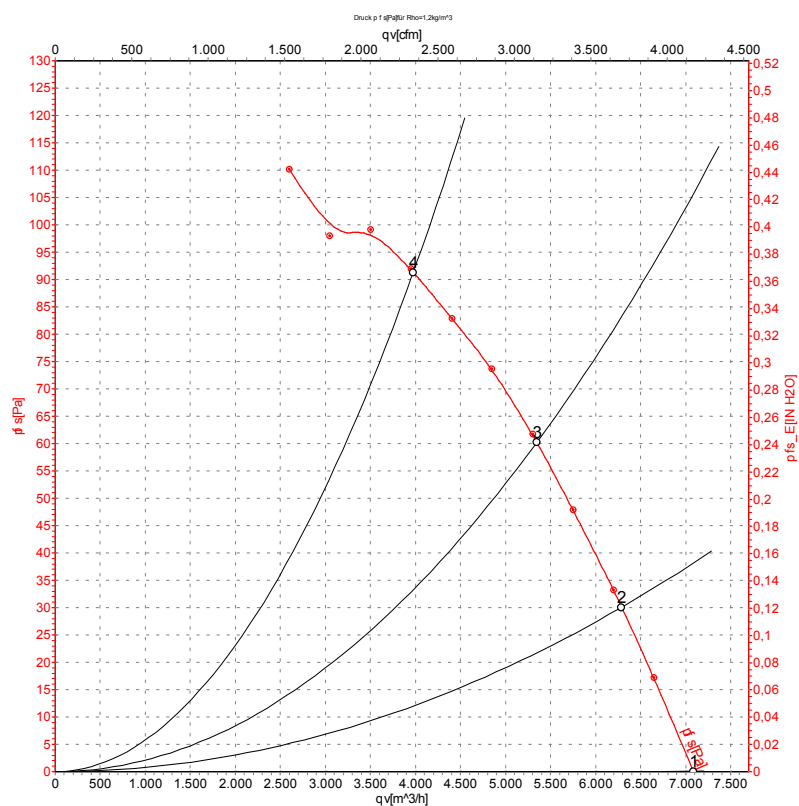
Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the 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	LpA _{in}	LwA _{in}	LwA _{out}	qv	p _{fs}	qv	p _{fs}
	V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	dB(A)	m³/h	Pa	CFM	inH2O
1	230	50	945	220	0.97	61	67	67	6100	0	3590	0.00
2	230	50	935	235	1.03	58	64	65	5405	25	3180	0.10
3	230	50	925	251	1.10	56	62	63	4625	50	2720	0.20
4	230	50	915	270	1.18	56	63	63	3670	70	2160	0.28

U = Power supply · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · LpA_{in} = Sound pressure level intake side · LwA_{in} = Sound power level intake side
 LwA_{out} = Sound power level outlet side · qv = Air flow · p_{fs} = Pressure increase

Curves: Air performance 60 Hz



Measurement: LU-105744-1

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	LpA _{in}	LwA _{in}	LwA _{out}	qv	p _{fs}	qv	p _{fs}
	V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	dB(A)	m ³ /h	Pa	CFM	inH ₂ O
1	230	60	1095	340	1.53	63	70	70	7085	0	4170	0.00
2	230	60	1075	360	1.59	60	67	67	6290	30	3700	0.12
3	230	60	1050	375	1.65	58	65	65	5345	60	3145	0.24
4	230	60	1015	390	1.72	58	65	65	3975	90	2340	0.36

U = Power supply · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · LpA_{in} = Sound pressure level intake side · LwA_{in} = Sound power level intake side
 LwA_{out} = Sound power level outlet side · qv = Air flow · p_{fs} = Pressure increase