AC axial fan - HyBlade

sickle-shaped blades (S series)

A6D800-AD07-07 ebmpapst Datasheet
sales@fansco.com
www.fansco.com

Nominal data

Type	**A6D800-AD07-07**		
Motor	**M6D138-LA**		
Phase		3~	3~
Nominal voltage	VAC	500	500
Wiring		Δ	Y
Frequency	Hz	50	50
Method of obtaining data		cs	cs
Valid for approval/standard		CE	CE
Speed (rpm)	min^{-1}	900	705
Power consumption	W	1700	1140
Current draw	A	3.0	1.75
Max. back pressure	Pa	100	60
Max. back pressure	inH2O	0.4	0.24
Min. ambient temperature	°C	-40	-40
Max. ambient temperature	°C	60	60
Starting current	A	11	5.4

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)

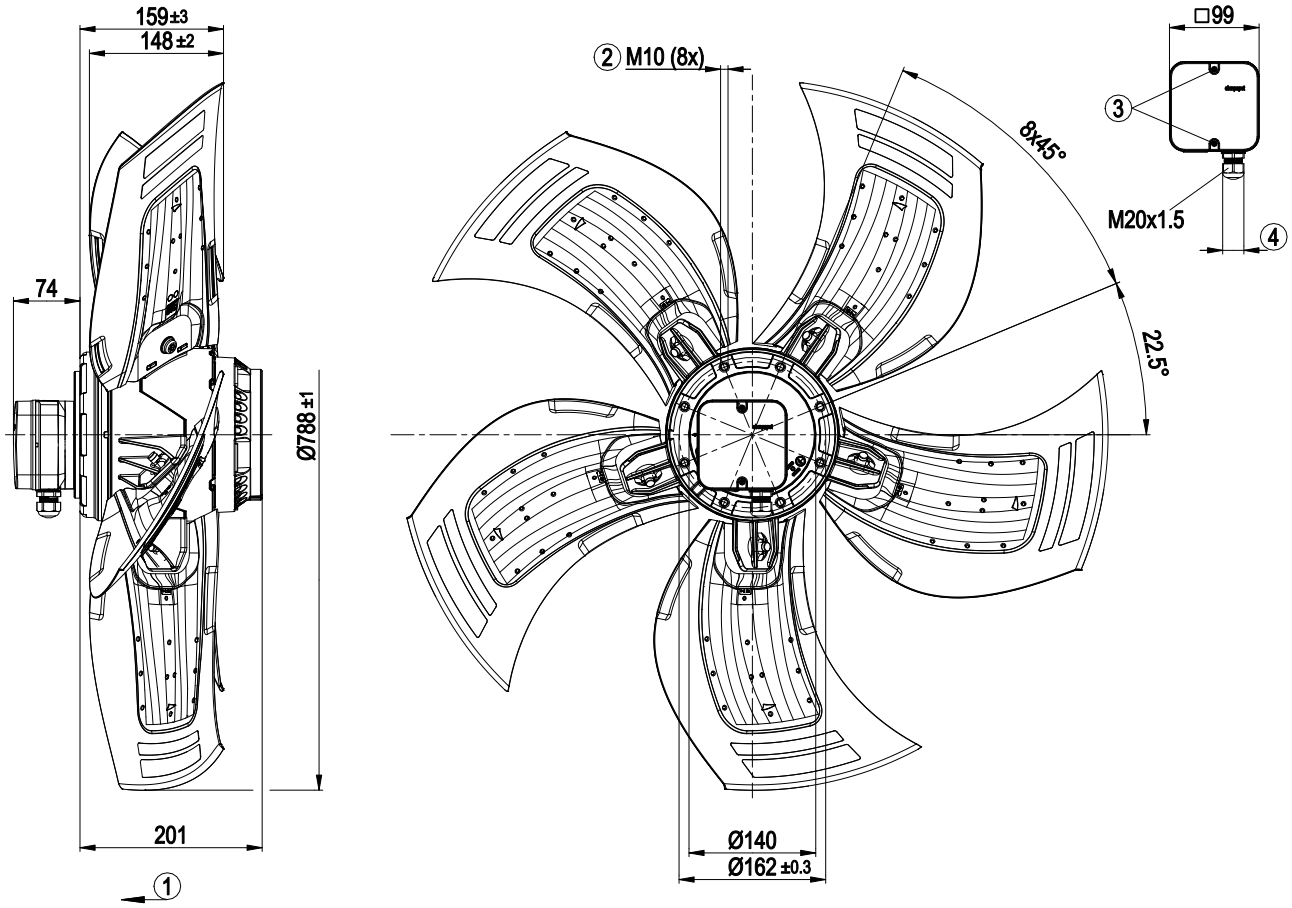
Technical description

Weight	24.4 kg
Fan size	800 mm
Rotor surface	Cast in aluminum
Terminal box material	PP plastic
Blade material	Sheet aluminum insert, sprayed with PP plastic
Number of blades	5
Blade pitch	0°
Airflow direction	"V"
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP54
Insulation class	"F"
Moisture (F) / Environmental (H) protection class	F3-1
Max. permitted ambient temp. for motor (transport/storage)	+ 80 °C
Min. permitted ambient temp. for motor (transport/storage)	- 40 °C
Installation position	Any
Condensation drainage holes	On rotor and stator sides
Mode	S1
Motor bearing	Ball bearing
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	<= 3.5 mA
Electrical hookup	Via terminal box
Motor protection	Thermal overload protector (TOP) with basic insulation
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60034-1 (2010); EN 61800-5-1; CE
Approval	VDE; EAC

AC axial fan - HyBlade

sickle-shaped blades (S series)

Product drawing

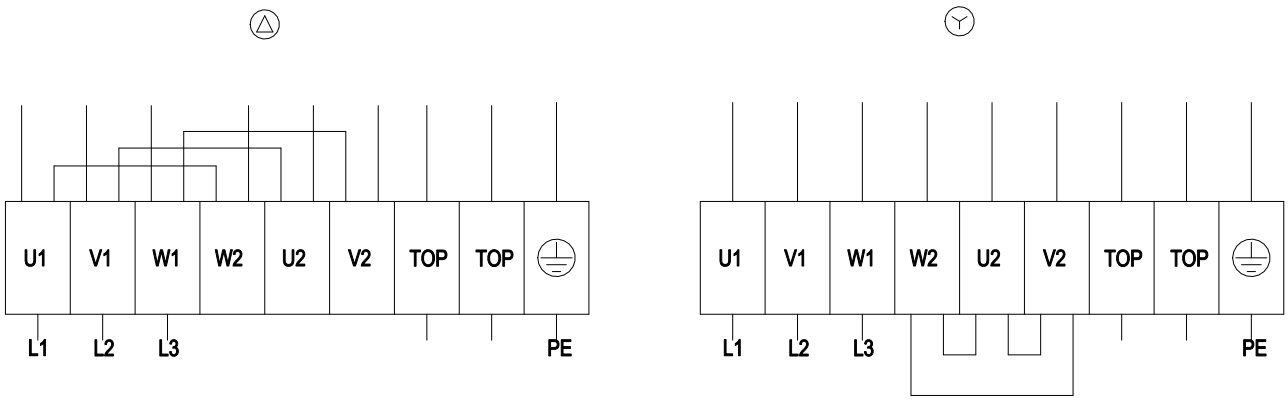


1	Airflow direction "V"
2	Max. clearance for screw 18 mm
3	Tightening torque 1.5 ± 0.2 Nm
4	Cable diameter: min. 7 mm, max. 14 mm, tightening torque 2±0.3 Nm

AC axial fan - HyBlade

sickle-shaped blades (S series)

Connection diagram

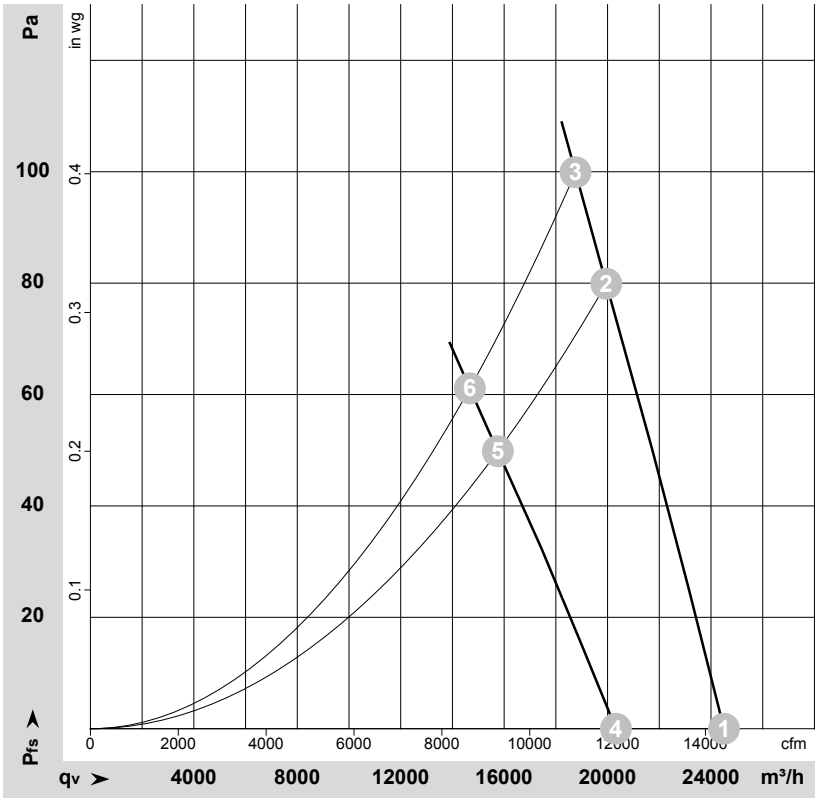


Δ	Delta connection	Y	Star connection	L1	= U1 = black
L2	= V1 = blue	L3	= W1 = brown	W2	yellow
U2	green	V2	white	TOP	2x gray
PE	green/yellow				

AC axial fan - HyBlade

sickle-shaped blades (S series)

Curves: Air performance 50 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-134964-1
Measurement: LU-134970-1

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	LpA_{in}	LwA_{in}	LwA_{out}	q_V	p_{fs}	q_V	p_{fs}
		V	Hz	min^{-1}	W	A	dB(A)	dB(A)	dB(A)	m^3/h	Pa	cfm	inH2O
1	Δ	500	50	925	1391	2.71	65	72	72	24505	0	14420	0.00
2	Δ	500	50	910	1646	2.94	64	71	71	19950	80	11740	0.32
3	Δ	500	50	900	1700	3.00	65	72	71	18760	100	11040	0.40
4	Y	500	50	770	1004	1.53	61	68	68	20325	0	11960	0.00
5	Y	500	50	715	1119	1.71	59	66	65	15755	50	9275	0.20
6	Y	500	50	705	1138	1.74	59	66	65	14675	61	8635	0.24

Wired = Wiring · 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 · q_V = Air flow · p_{fs} = Pressure increase