

A6D990-AE17-05 ebmpapst Datasheet

sales@fansco.com

www.fansco.com

Nominal data

Type	A6D990-AE17-05		
Motor	M6D138-LA		
Phase		3~	3~
Nominal voltage	VAC	400	400
Wiring		Δ	Y
Frequency	Hz	50	50
Method of obtaining data		ml	ml
Valid for approval/standard		-	-
Speed	min ⁻¹	750	570
Power consumption	W	1850	1050
Current draw	A	3.8	1.85
Max. back pressure	Pa	100	55
Min. ambient temperature	°C	-40	-40
Max. ambient temperature	°C	55	55
Starting current	A	7.75	2.38

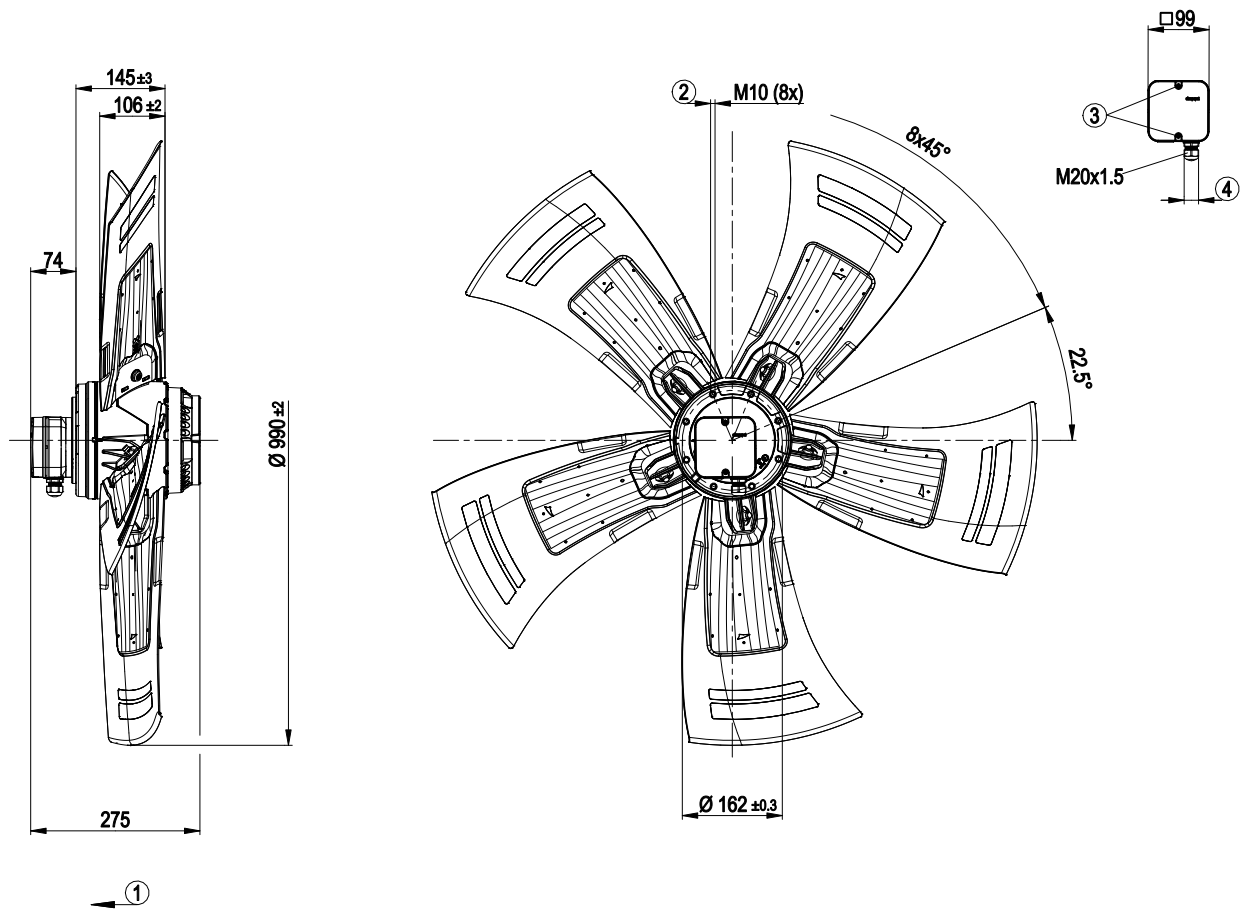
ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · oe = Customer equipment
Subject to change



Technical description

Weight	25.1 kg
Fan size	990 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	-5°
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
Approval	EAC; VDE

Product drawing

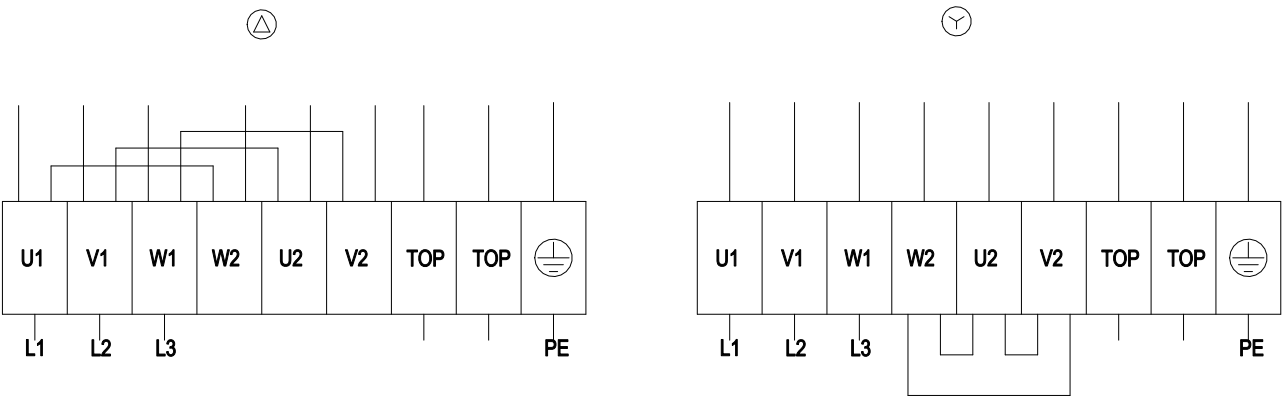


1	Direction of air flow "V"
2	Max. clearance for screw 18 mm
3	Tightening torque 1.5 ± 0.2 Nm
4	Cable diameter min. 7 mm, max. 14 mm; tightening torque 2 ± 0.3 Nm

AC axial fan - HyBlade

sickle-shaped blades (S series)

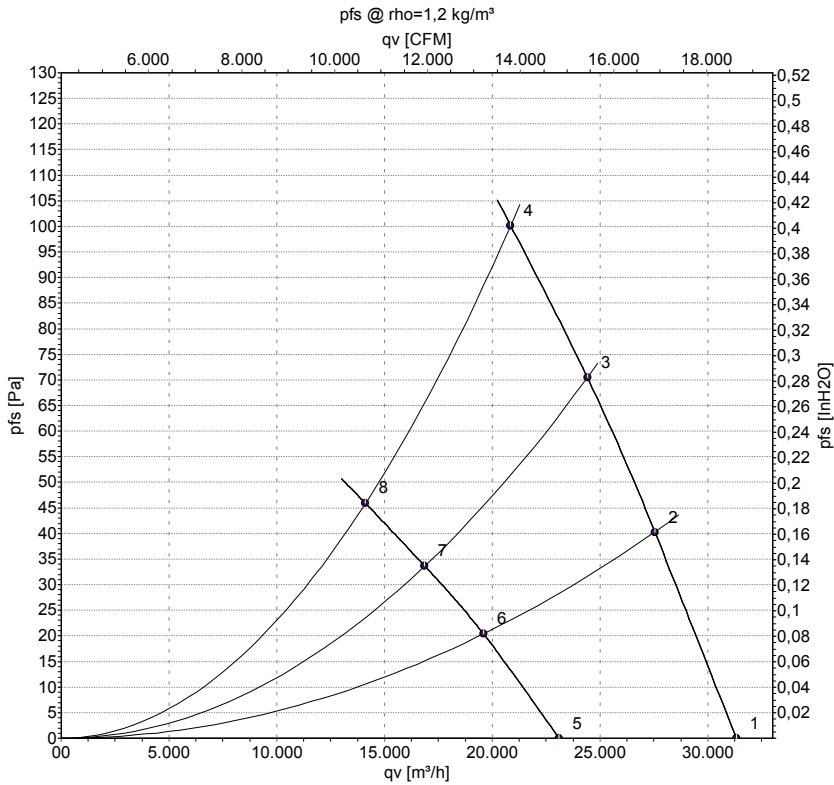
Connection diagram



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				



Curves: Air performance 50 Hz



Measurement: LU-136651-1
Measurement: LU-136789-1

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}	qv	p _{fs}
		V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	dB(A)	m³/h	Pa
1	Δ	400	50	840	1331	2.75	73	80	80	31325	0
2	Δ	400	50	815	1537	3.11	70	78	78	27540	40
3	Δ	400	50	790	1667	3.31	69	77	76	24405	70
4	Δ	400	50	750	1850	3.80	68	76	75	20845	100
5	Y	400	50	630	781	1.50	65	73	72	23085	0
6	Y	400	50	580	828	1.60	62	69	68	19585	20
7	Y	400	50	545	852	1.64	60	67	66	16860	34
8	Y	400	50	520	871	1.68	58	66	65	14110	46

Wired = Wiring · U = Power supply · f = Frequency · n = Speed · 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