

A4D560-AM03-01

AC axial fan - HyBlade

sickle-shaped blades (S series), single-intake



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Amtsgericht (court of registration) Stuttgart · HRB 590142

Nominal data

Type	A4D560-AM03-01		
Motor	M4D110-GF		
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 (rpm)	min ⁻¹	1220	870
Power consumption	W	1160	650
Current draw	A	1.95	1.1
Max. back pressure	Pa	140	72
Max. back pressure	in. wg	0.56	0.29
Min. ambient temperature	°C	-40	-40
Max. ambient temperature	°C	50	50
Starting current	A	6.5	

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



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Technical description

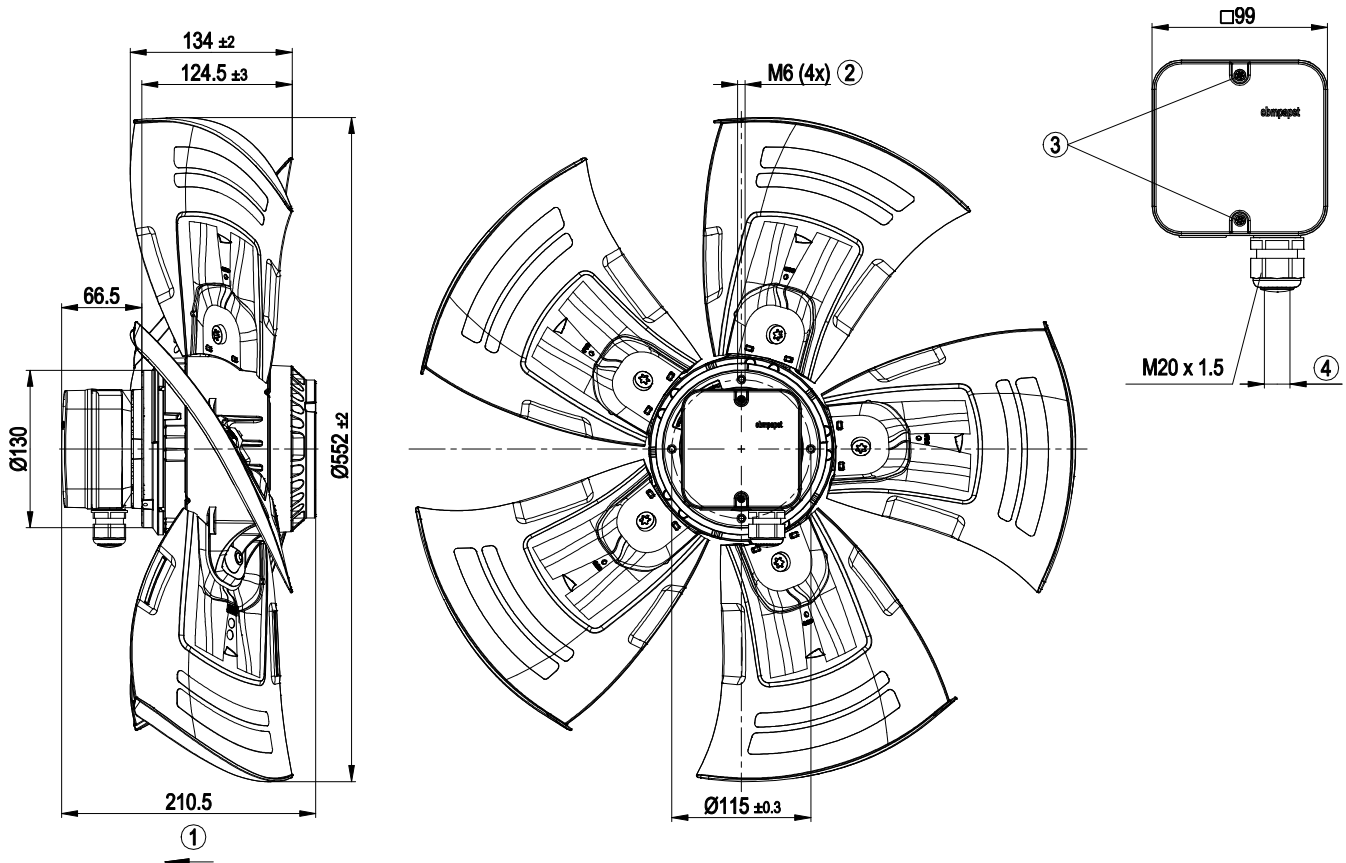
Weight	10.7 kg
Size	560 mm
Motor size	110
Rotor surface	Cast in aluminum
Terminal box material	PP plastic
Blade material	Sheet aluminum insert, sprayed with PP plastic
Number of blades	5
Blade pitch	0°
Airflow direction	V
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP54
Insulation class	"F"
Moisture (F) / Environmental (H) protection class	H2
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
Electrical hookup	Terminal box
Motor protection	Thermal overload protector (TOP) with basic insulation
With cable	Axial
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 61800-5-1
Approval	VDE; CCC; EAC



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Product drawing

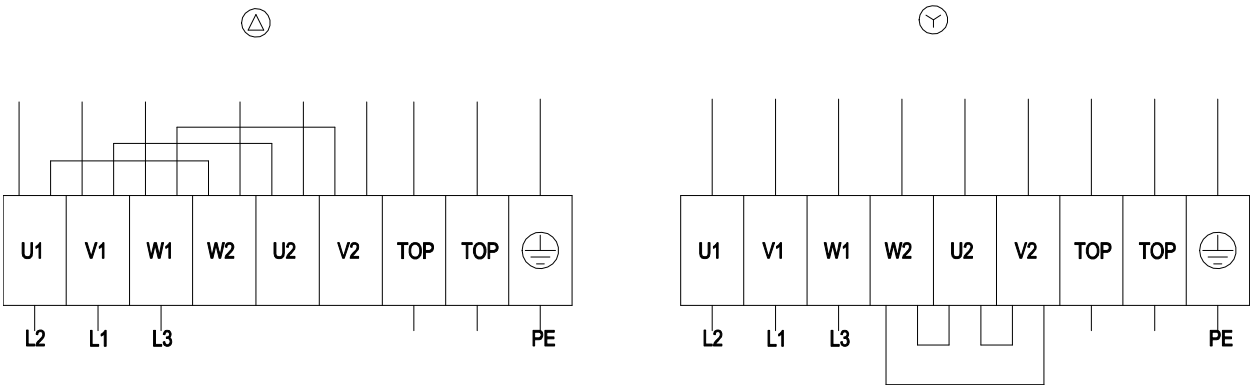


1	Direction of air flow "V"
2	Max. clearance for screw 12 mm
3	Tightening torque 1.5 ± 0.2 Nm
4	Cable diameter: min. 6 mm, max. 12 mm; tightening torque 2 ± 0.3 Nm

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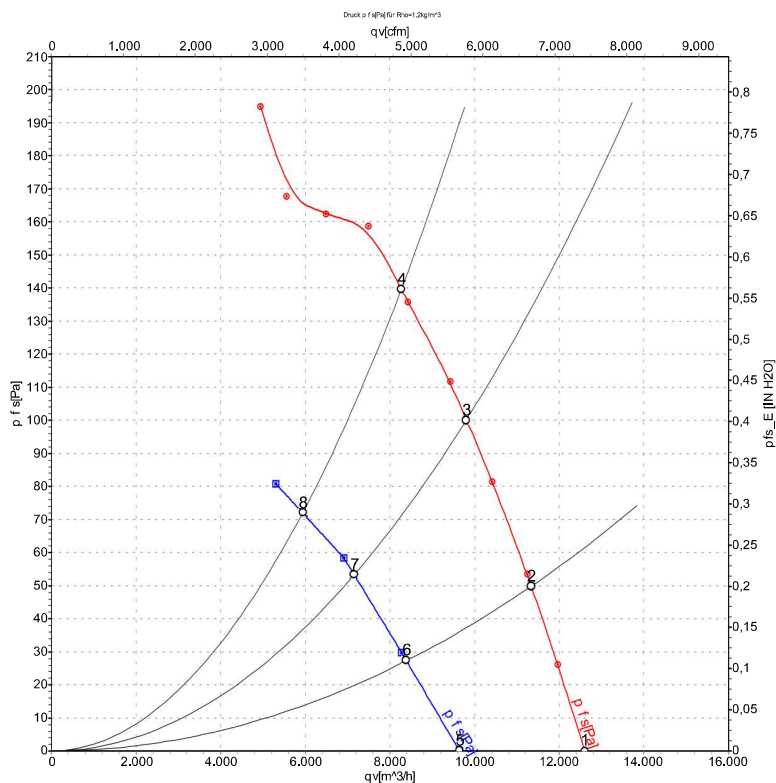
Connection diagram



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



Curves: Air performance 50 Hz



Measurement: LU-110468-1
Measurement: LU-113343-1

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)	m³/h	Pa	cfm	in. wg
1	Δ	400	50	1295	961	1.69	67	74	75	12600	0	7415	0.00
2	Δ	400	50	1270	1025	1.78	66	73	74	11340	50	6675	0.20
3	Δ	400	50	1250	1092	1.87	65	72	73	9810	100	5775	0.40
4	Δ	400	50	1220	1160	1.95	70	77	76	8270	140	4870	0.56
5	Y	400	50	990	604	1.01	61	67	68	9640	0	5675	0.00
6	Y	400	50	930	616	1.03	59	65	66	8390	27	4940	0.11
7	Y	400	50	900	635	1.06	59	65	66	7155	53	4210	0.21
8	Y	400	50	870	650	1.10	61	67	67	5935	72	3495	0.29

Wired = Wiring · U = Voltage · 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

