

AC axial fan

sickle-shaped blades (S series)

A6D560-AH03-01 ebmpapst Datasheet
sales@fansco.com
www.fansco.com

Nominal data

Type	A6D560-AH03-01				
Motor	M6D110-EF				
Phase		3~	3~	3~	3~
Nominal voltage	VAC	400	400	480	480
Wiring		Δ	Y	Δ	Y
Frequency	Hz	50	50	60	60
Method of obtaining data		ml	ml	ml	ml
Valid for approval/standard		CE	CE	CE	CE
Speed (rpm)	min ⁻¹	890	690	1040	780
Power consumption	W	390	265	600	380
Current draw	A	0.8	0.46	0.95	0.55
Max. back pressure	Pa	75	45	80	45
Max. back pressure	inH2O	0.3	0.18	0.32	0.18
Min. ambient temperature	°C	-40	-40	-40	-40
Max. ambient temperature	°C	85	85	70	70
Starting current	A	2.5		2.8	

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

Data according to ErP Directive

		Actual	Req. 2015			
01 Overall efficiency η_{es}	%	31.2	31.2	09 Power consumption P_e	kW	0.4
02 Measurement category	A			09 Air flow q_v	m³/h	5345
03 Efficiency category	Static			09 Pressure increase p_{fs}	Pa	81
04 Efficiency grade N	40		40	10 Speed (rpm) n	min ⁻¹	895
05 Variable speed drive	No			11 Specific ratio*		1.00

Data obtained at optimum efficiency level.
The ErP data is determined using a motor-impeller combination in a standardized measurement setup.

* Specific ratio = $1 + p_{fs} / 100\,000\text{ Pa}$ LU-72892



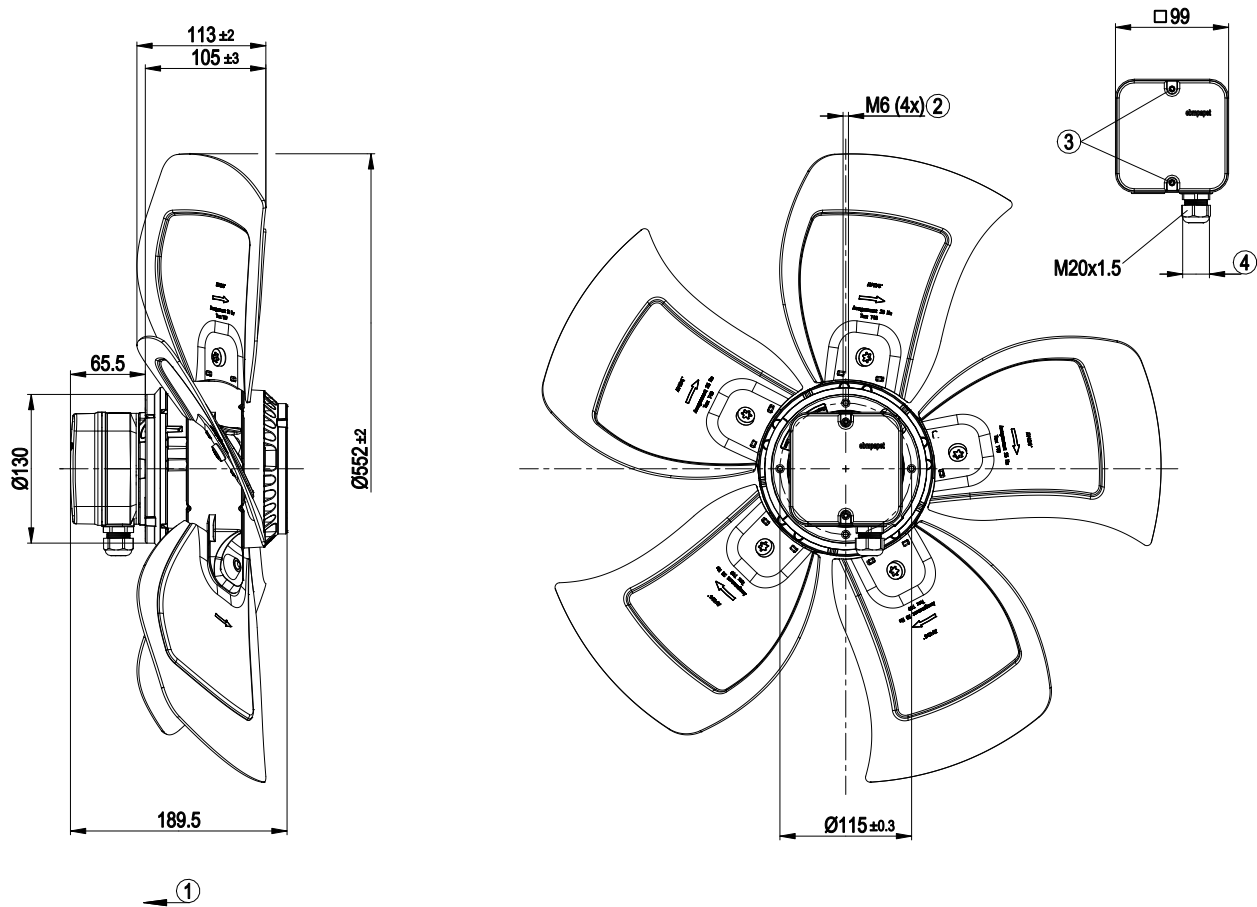
Technical description

Weight	8.3 kg
Fan size	560 mm
Rotor surface	Cast in aluminum
Terminal box material	PP plastic
Blade material	Sheet aluminum
Number of blades	5
Blade pitch	-5°
Airflow direction	"V"
Direction of rotation	Counterclockwise, 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	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	Via 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; CE
Approval	VDE; EAC

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Product drawing

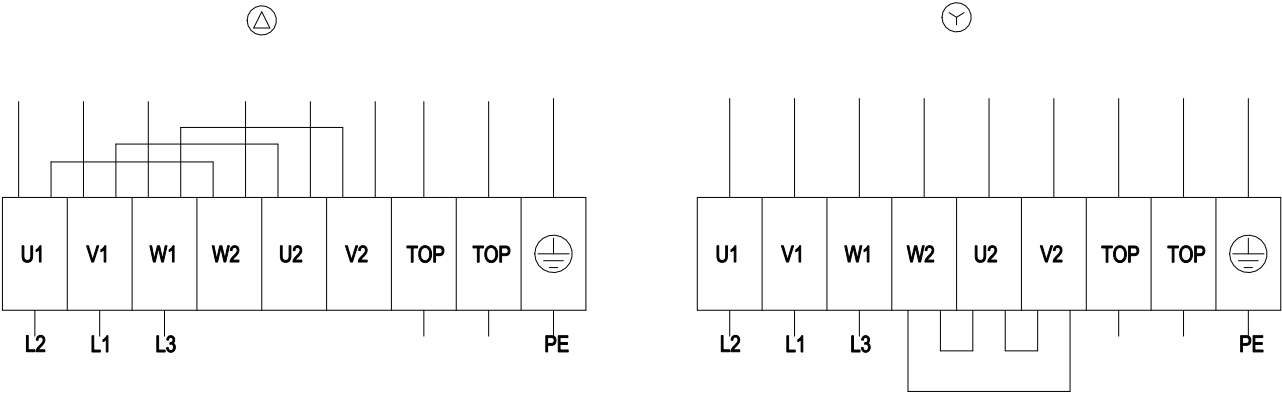


1	Direction of air flow "V"
2	Max. clearance for screw 12 mm
3	Tightening torque 1.5 ± 0.2 Nm
4	Cable diameter min. 6 mm, max. 12 mm, tightening torque 2 ± 0.3 Nm

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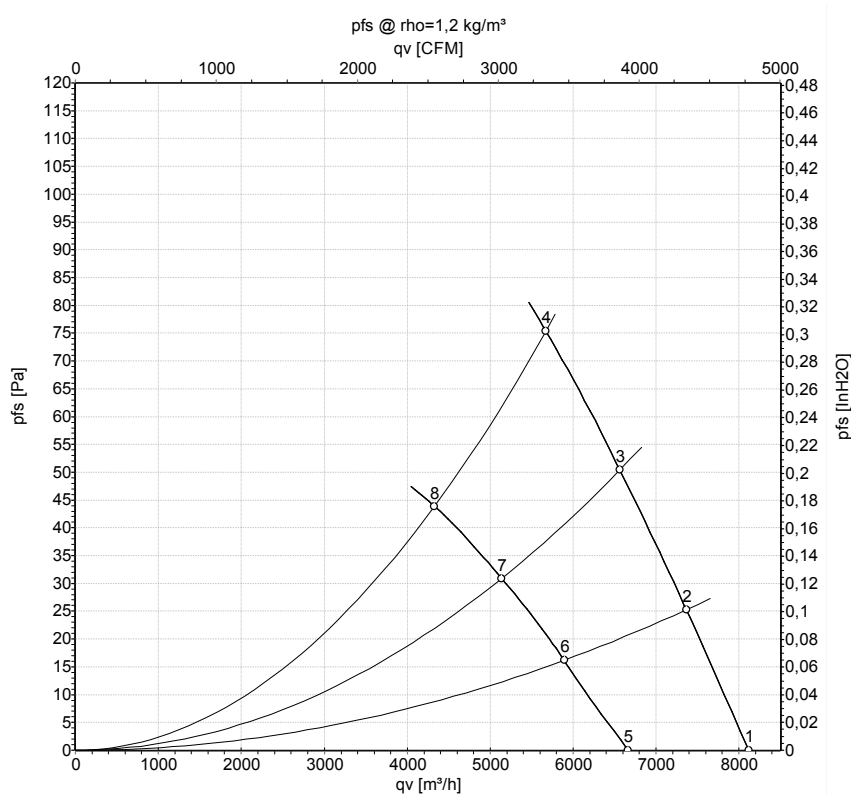
Connection diagram



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-72892-1
Measurement: LU-72898-1

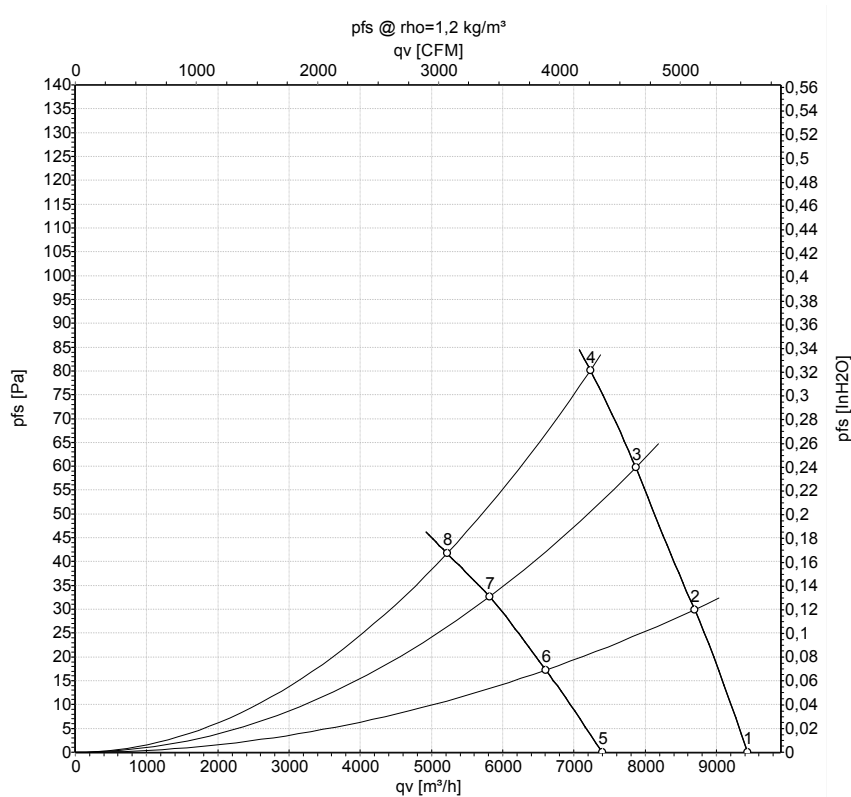
Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the 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	qv	p _{fs}	qv	p _{fs}
		V	Hz	min ⁻¹	W	A	m³/h	Pa	CFM	inH2O
1	Δ	400	50	925	322	0.80	8115	0	4775	0.00
2	Δ	400	50	915	345	0.80	7365	25	4335	0.10
3	Δ	400	50	910	370	0.80	6565	50	3865	0.20
4	Δ	400	50	890	390	0.80	5675	75	3340	0.30
5	Y	400	50	760	225	0.39	6665	0	3920	0.00
6	Y	400	50	735	242	0.41	5890	16	3465	0.06
7	Y	400	50	710	254	0.43	5140	31	3025	0.12
8	Y	400	50	690	265	0.46	4330	44	2550	0.18

Wired = Wiring · U = Power supply · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · qv = Air flow · p_{fs} = Pressure increase

Curves: Air performance 60 Hz



Measurement: LU-72897-1
Measurement: LU-72900-1

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	qv	p _{fs}	qv	p _{fs}
		V	Hz	min ⁻¹	W	A	m³/h	Pa	CFM	inH2O
1	Δ	480	60	1080	500	0.85	9435	0	5555	0.00
2	Δ	480	60	1070	539	0.89	8695	30	5115	0.12
3	Δ	480	60	1060	577	0.92	7865	60	4630	0.24
4	Δ	480	60	1040	600	0.95	7230	80	4255	0.32
5	Y	480	60	845	346	0.49	7395	0	4355	0.00
6	Y	480	60	810	363	0.52	6600	17	3885	0.07
7	Y	480	60	780	376	0.54	5815	33	3420	0.13
8	Y	480	60	780	380	0.55	5215	42	3070	0.17

Wired = Wiring · U = Power supply · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · qv = Air flow · p_{fs} = Pressure increase