

A8D630-AM01-01 ebmpapst Datasheet

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Nominal data

Type	A8D630-AM01-01						
Motor	M8D110-GF						
Phase		3~	3~	3~	3~	3~	3~
Nominal voltage	VAC	400	400	400	400	480	480
Wiring		Δ	Y	Δ	Y	Δ	Y
Frequency	Hz	50	50	60	60	60	60
Method of obtaining data		ml	ml	ml	ml	ml	ml
Valid for approval/standard		-	-	-	-	-	-
Speed (rpm)	min ⁻¹	650	470	680	420	740	500
Power consumption	W	370	210	480	210	580	290
Current draw	A	0.88	0.41	0.96	0.42	1.0	0.5
Max. back pressure	Pa	55	30	60	23	75	33
Max. back pressure	inH ₂ O	0.22	0.12	0.24	0.09	0.3	0.13
Min. ambient temperature	°C	-40	-40	-40	-40	-40	-40
Max. ambient temperature	°C	65	65	50	50	40	40
Starting current	A	1.85	0.62	1.65	0.55		

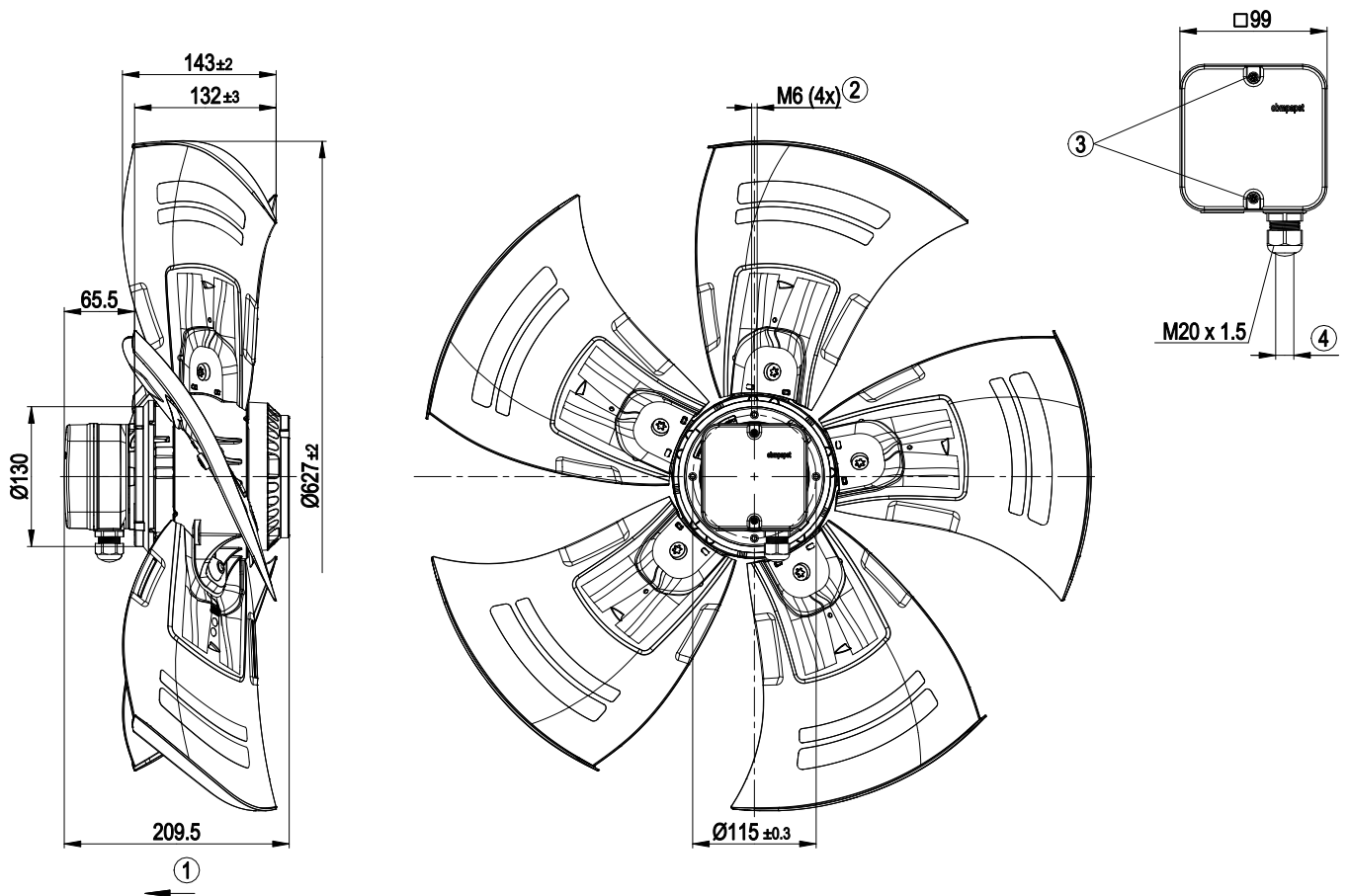
ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment
Subject to change



Technical description

Weight	10.4 kg
Fan size	630 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	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
Approval	VDE; EAC

Product drawing

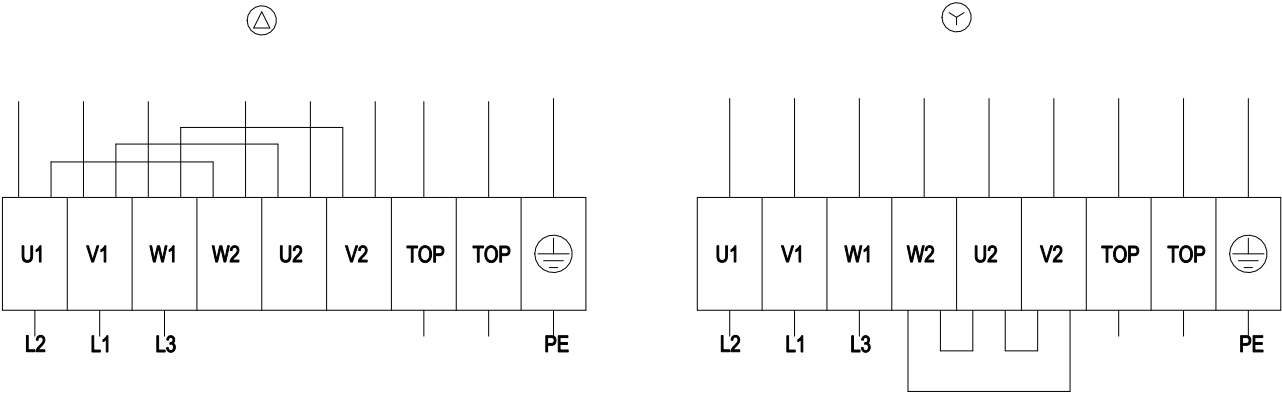


1	Direction of air flow "V"
2	Max. clearance for screw 12 mm
3	Tightening torque 1.5 ± 0.2 Nm
4	Cable diameter: min. 6 mm, max. 12 mm, tightening torque 2 ± 0.3 Nm

AC axial fan - HyBlade

sickle-shaped blades (S series)

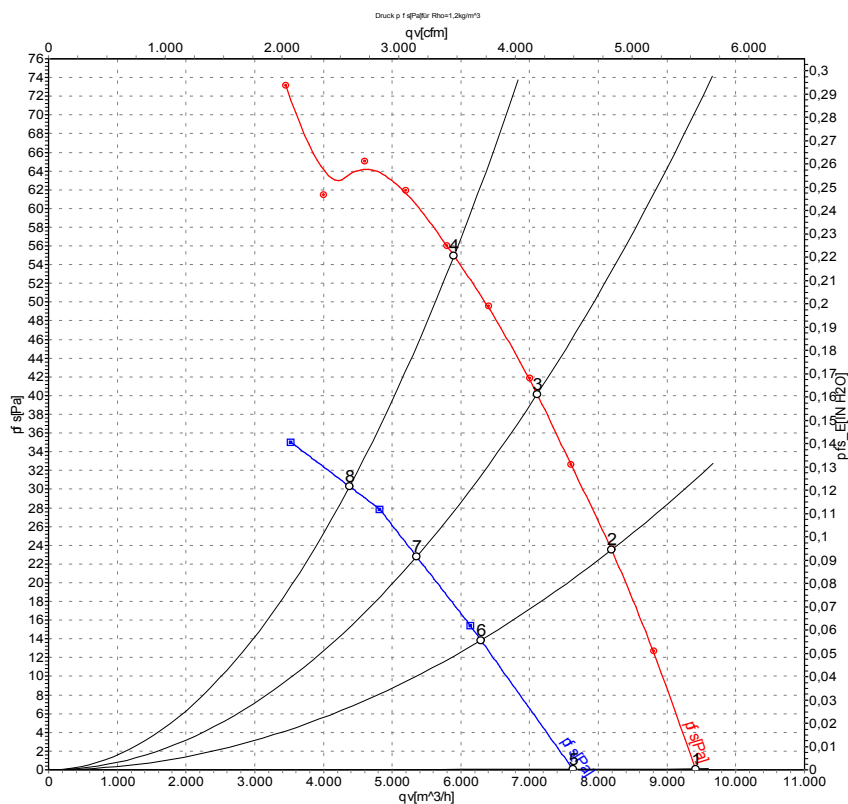
Connection diagram



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-107041-1
Measurement: LU-107573-1

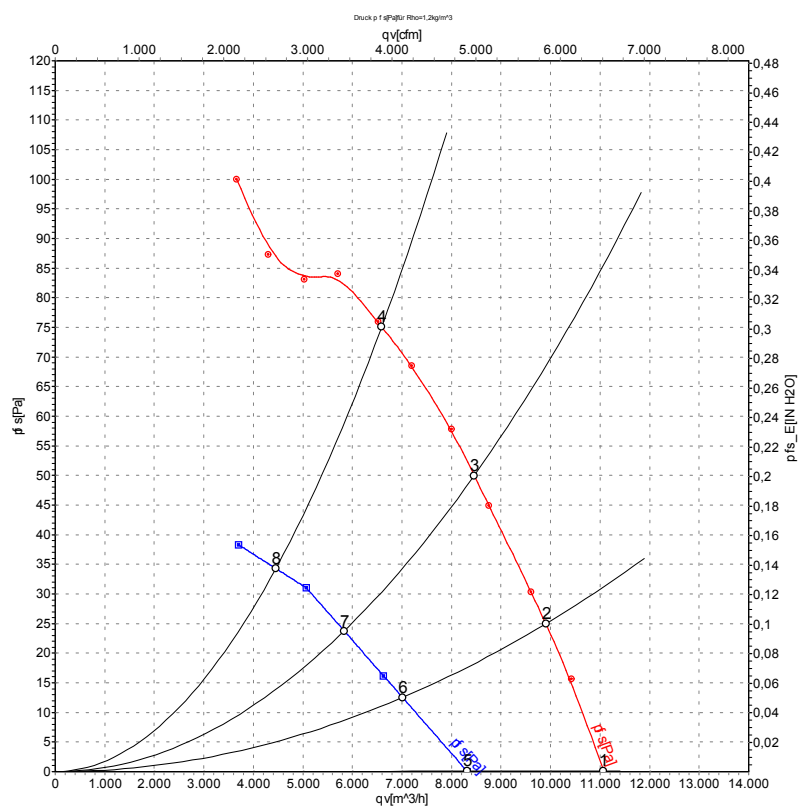
Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the 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}	qv	p _{fs}
		V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	dB(A)	m ³ /h	Pa	CFM	inH ₂ O
1	Δ	400	50	680	298	0.83	56	62	61	9415	0	5545	0.00
2	Δ	400	50	665	333	0.85	53	59	59	8195	25	4820	0.10
3	Δ	400	50	655	354	0.87	52	58	58	7110	40	4185	0.16
4	Δ	400	50	650	370	0.88	56	62	63	5900	55	3470	0.22
5	Y	400	50	545	185	0.37	51	56	56	7630	0	4490	0.00
6	Y	400	50	510	197	0.39	48	53	53	6290	14	3705	0.06
7	Y	400	50	490	203	0.40	49	54	54	5355	23	3150	0.09
8	Y	400	50	470	210	0.41	50	56	56	4380	30	2580	0.12

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 · qv = Air flow · p_{fs} = Pressure increase

Curves: Air performance 60 Hz



Measurement: LU-107043-1
Measurement: LU-107575-1

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}	qv	p _{fs}
		V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	dB(A)	m³/h	Pa	CFM	inH2O
1	Δ	480	60	795	454	0.91	60	65	65	11070	0	6515	0.00
2	Δ	480	60	780	492	0.94	57	63	63	9905	25	5830	0.10
3	Δ	480	60	760	534	0.98	56	62	62	8460	50	4980	0.20
4	Δ	480	60	740	580	1.00	60	66	66	6590	75	3880	0.30
5	Y	480	60	590	265	0.44	53	58	58	8315	0	4895	0.00
6	Y	480	60	550	274	0.45	50	55	55	7015	12	4130	0.05
7	Y	480	60	520	281	0.47	49	55	55	5830	24	3435	0.10
8	Y	480	60	500	290	0.50	50	57	57	4455	34	2625	0.14

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LwA_{out} = Sound power level outlet side · qv = Air flow · p_{fs} = Pressure increase