S8D630-AN07-05

AC axial fan - HyBlade

sickle-shaped blades (S series)

with guard grille for short nozzle

S8D630-AN07-05 ebmpapst Datasheet
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Nominal data

Type	**S8D630-AN07-05**
Motor	**M8D110-GF**

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		-	-	-	-
Speed (rpm)	min^{-1}	450	275	470	285
Power consumption	W	145	60	200	80
Current draw	A	0.32	0.18	0.36	0.21
Max. back pressure	Pa	25	8	30	10
Max. back pressure	inH2O	0.1	0.03	0.12	0.04
Min. ambient temperature	°C	-40	-40	-40	-40
Max. ambient temperature	°C	65	65	65	65
Starting current	A	0.41		0.44	

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	14 kg
Fan size	630 mm
Rotor surface	Painted black
Terminal box material	PP plastic
Blade material	Press-fitted sheet steel blank, sprayed with PP plastic
Guard grille material	Steel, coated with black plastic (RAL 9005)
Number of blades	5
Airflow direction	"V"
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP54
Insulation class	"F"
Moisture (F) / Environmental (H) protection class	F4-1
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	EAC; VDE

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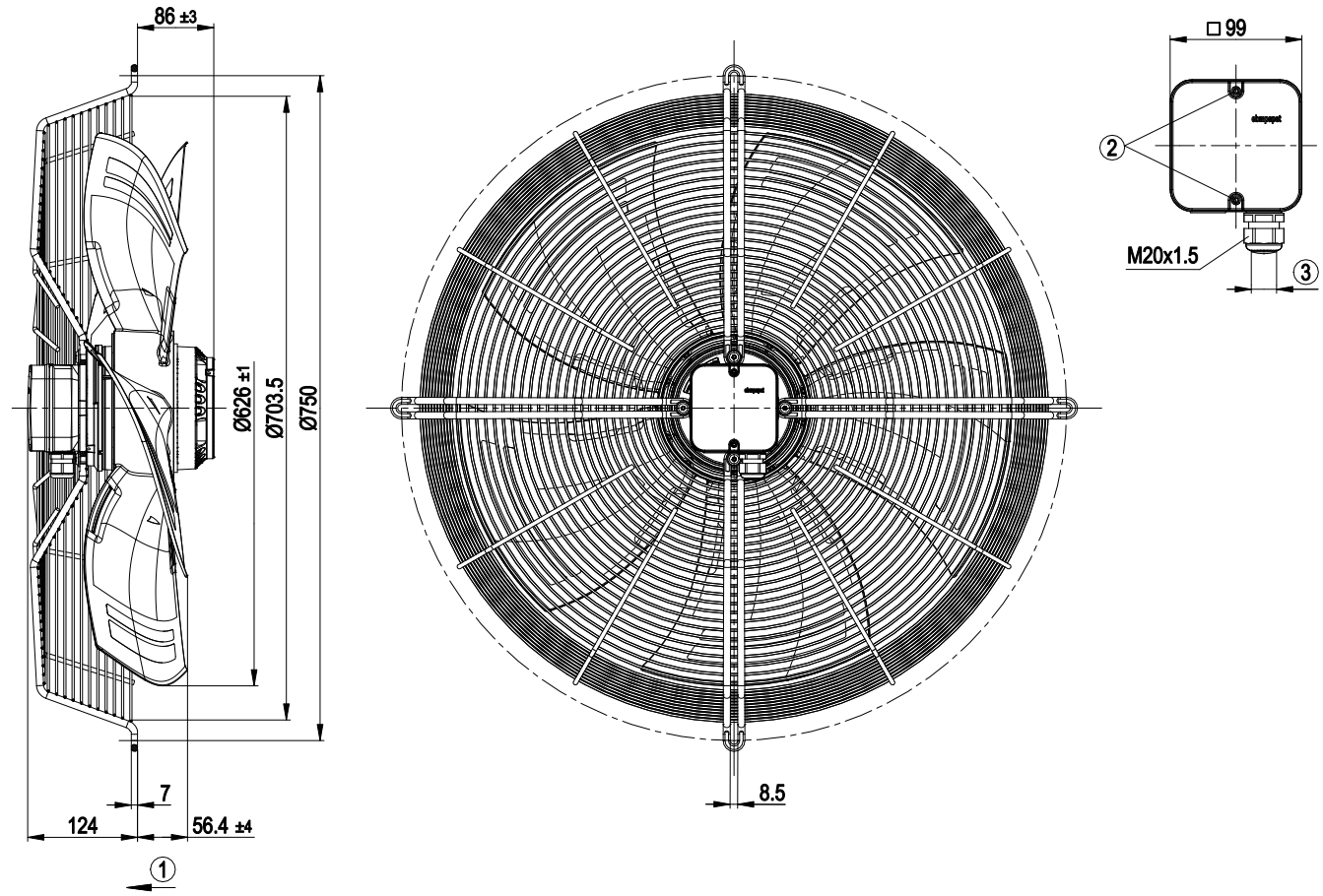
Product drawing



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

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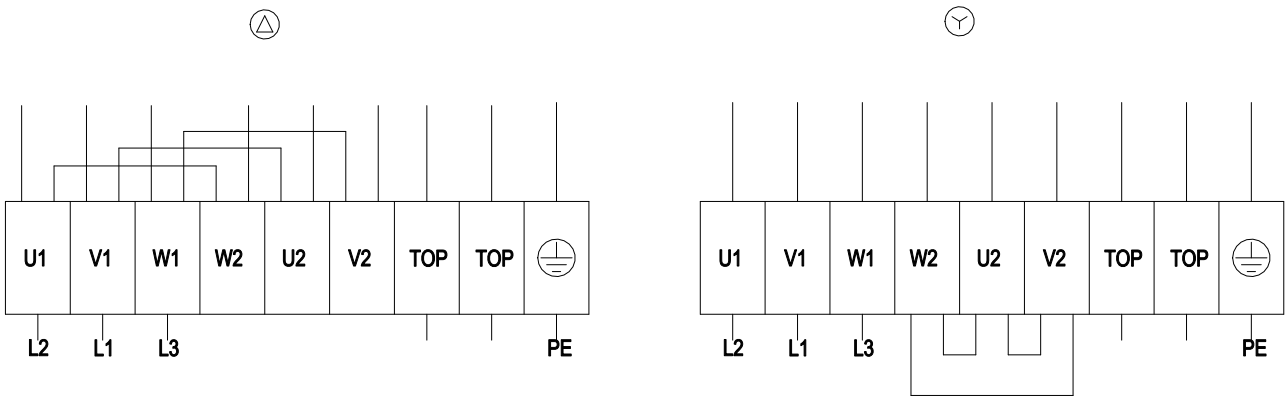
Connection diagram



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				

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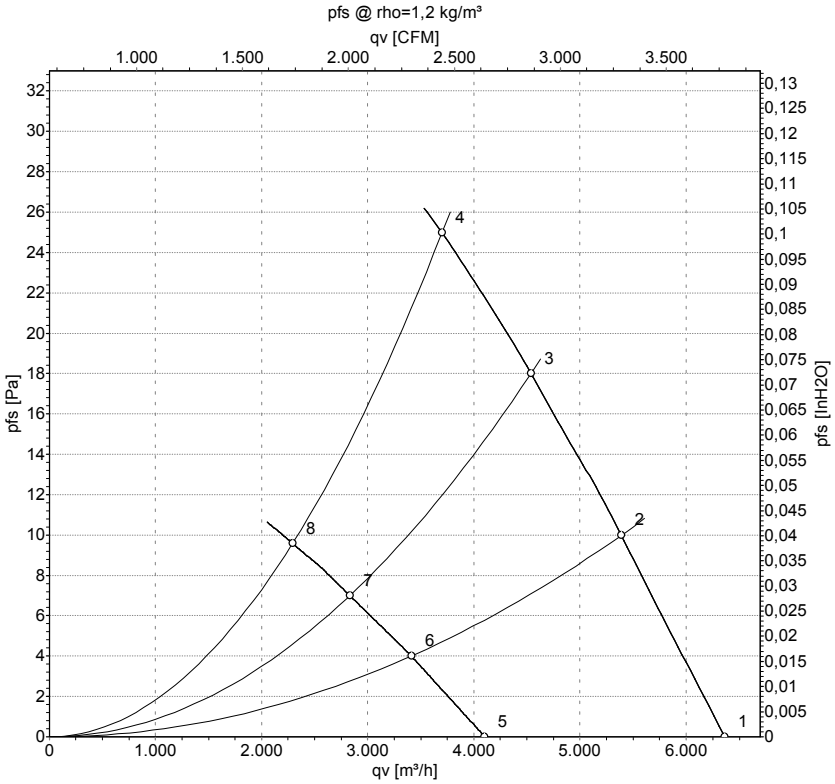
Curves: Air performance 50 Hz



Measurement: LU-106078-1
Measurement: LU-106168-1

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	m^3/h	Pa	CFM	inH2O
1	Δ	400	50	525	128	0.30	6365	0	3745	0.00
2	Δ	400	50	490	137	0.31	5390	10	3170	0.04
3	Δ	400	50	465	143	0.32	4540	18	2675	0.07
4	Δ	400	50	450	145	0.32	3700	25	2180	0.10
5	Y	400	50	335	55	0.12	4105	0	2415	0.00
6	Y	400	50	310	56	0.12	3410	4	2010	0.02
7	Y	400	50	290	57	0.12	2830	7	1665	0.03
8	Y	400	50	275	60	0.18	2290	10	1350	0.04

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

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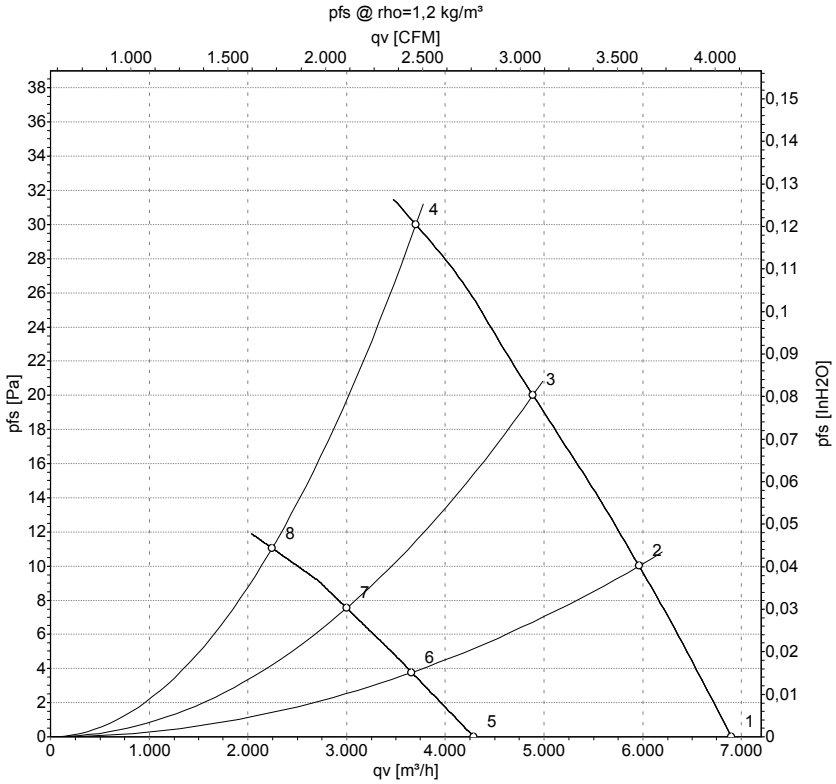
Curves: Air performance 60 Hz



Measurement: LU-106083-1
Measurement: LU-114254-1

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	m^3/h	Pa	CFM	inH2O
1	Δ	480	60	570	181	0.34	6895	0	4060	0.00
2	Δ	480	60	535	188	0.35	5965	10	3510	0.04
3	Δ	480	60	500	194	0.36	4890	20	2875	0.08
4	Δ	480	60	470	200	0.36	3700	30	2180	0.12
5	Y	480	60	355	72	0.14	4290	0	2525	0.00
6	Y	480	60	325	73	0.14	3660	4	2155	0.02
7	Y	480	60	305	73	0.14	3000	8	1765	0.03
8	Y	480	60	285	80	0.21	2245	11	1320	0.04

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