

S8D630-BM01-05 ebmpapst Datasheet

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Nominal data

Type	S8D630-BM01-05						
Motor	M8D110-GF						
Phase		3~	3~	3~	3~	3~	3~
Nominal voltage	VAC	400	400	400	400	480	480
Connection		Δ	Y	Δ	Y	Δ	Y
Frequency	Hz	50	50	60	60	60	60
Type of data definition		ml	ml	ml	ml	ml	ml
Valid for approval / standard		-	-	-	-	-	-
Speed	min ⁻¹	650	470	680	420	740	500
Power input	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
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 = Running at free air · cs = Customer specs · cu = Customer unit
Subject to alterations



Technical features

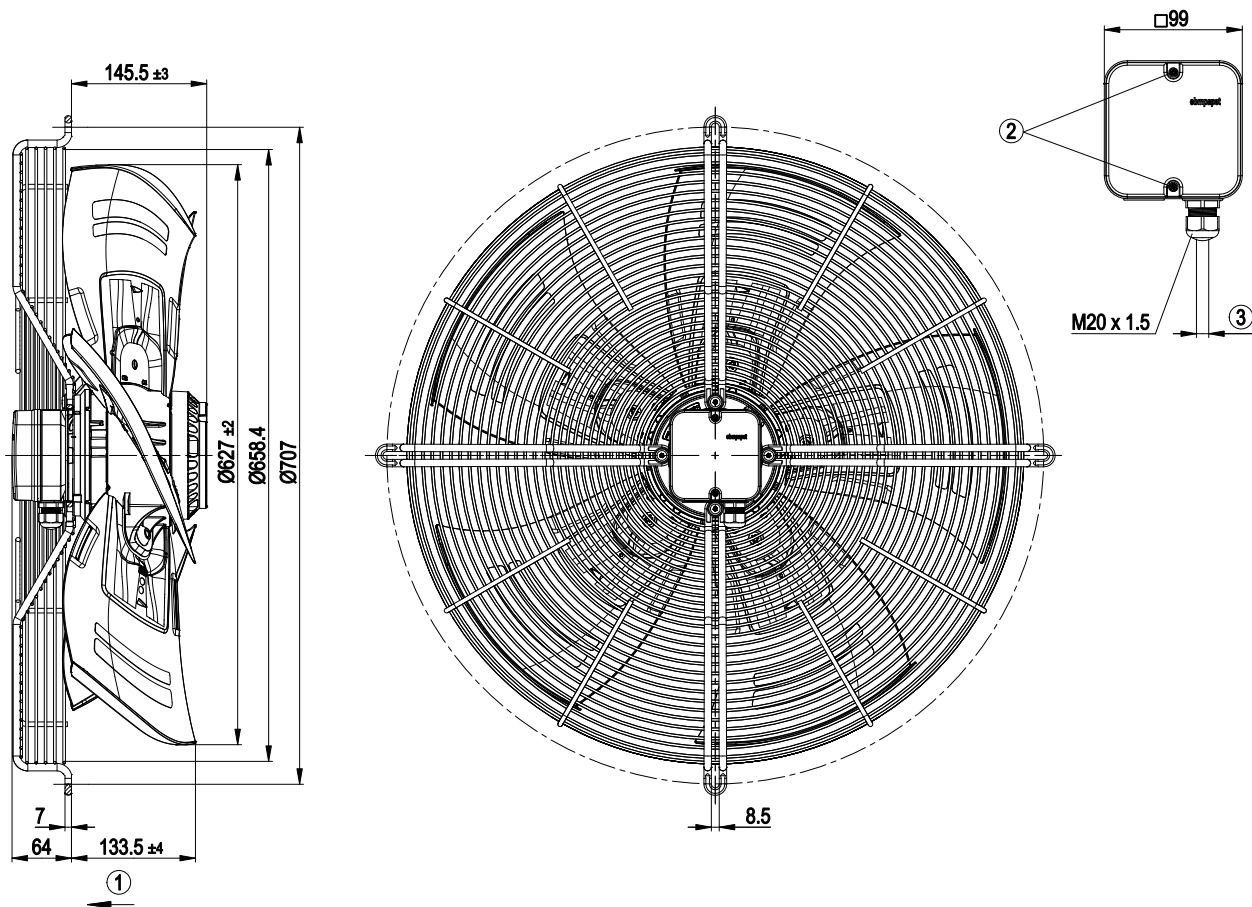
Mass	14.2 kg
Size	630 mm
Surface of rotor	Cast in aluminium
Material of terminal box	PP plastic
Material of blades	Aluminium sheet insert, sprayed with PP plastic
Material of guard grille	Steel, coated in black plastic (RAL9005)
Number of blades	5
Blade angle	0°
Direction of air flow	"V"
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP 54
Insulation class	"F"
Humidity class	F3-1
Max. permissible ambient motor temp. (transp./ storage)	+80 °C
Min. permissible ambient motor temp. (transp./storage)	-40 °C
Mounting position	Shaft horizontal or rotor on bottom; rotor on top on request
Condensate discharge holes	Rotor-side
Operation mode	S1
Motor bearing	Ball bearing
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	<= 3.5 mA
Electrical leads	Via terminal box
Motor protection	Thermal overload protector (TOP) brought out
Cable exit	Axial
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60034; EN 61800-5-1
Approval	EAC; VDE

AC axial fan - HyBlade®

sickled blades (S series)

with guard grille for full nozzle

Product drawing

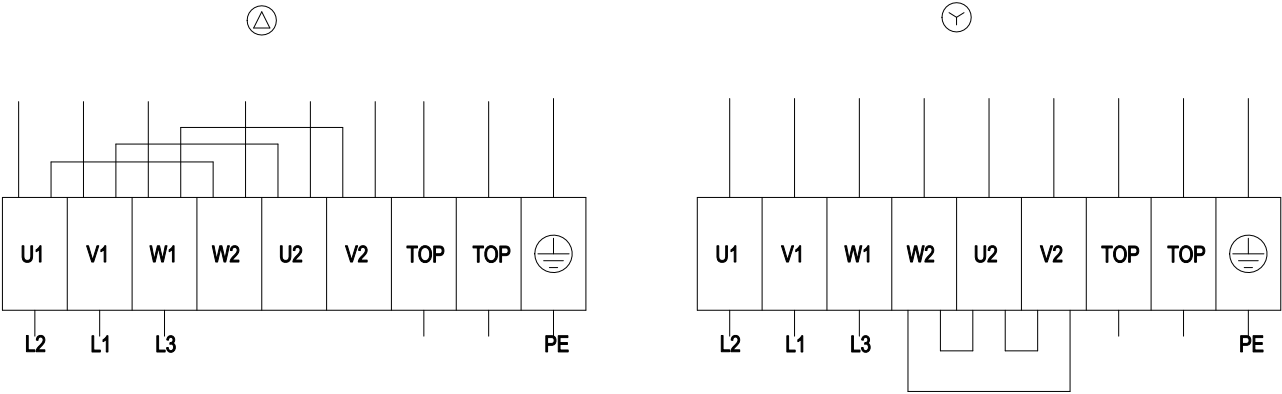


1	Direction of air flow "V"
2	Tightening torque 1.5 ± 0.2 Nm
3	Cable diameter: min. 6 mm, max. 12 mm; tightening torque: 2 ± 0.3 Nm

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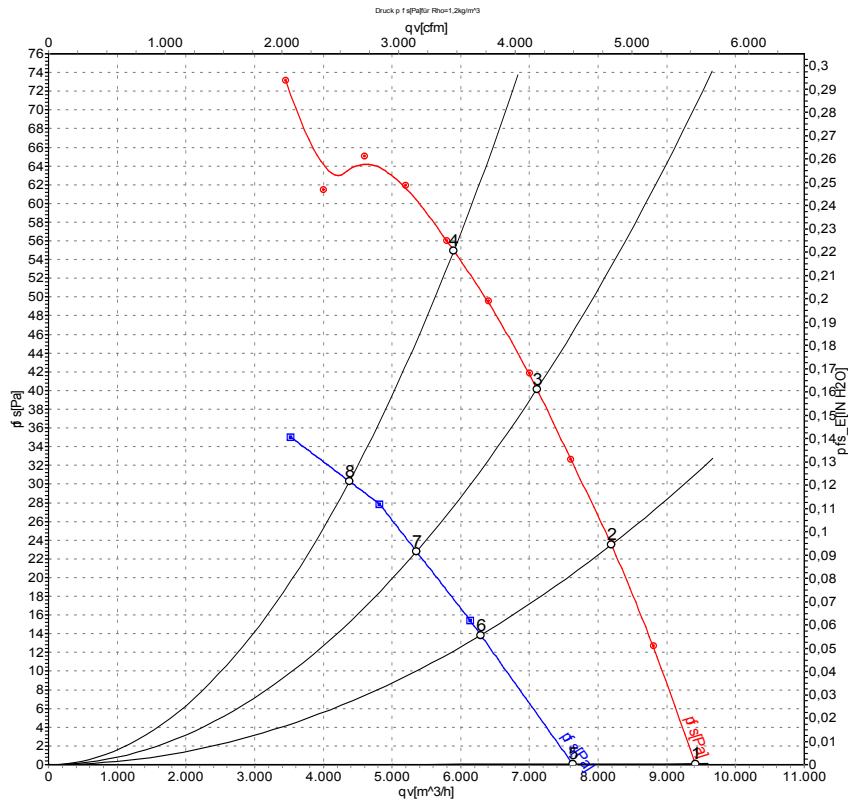
Connection screen



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



Charts: Air flow 50 Hz



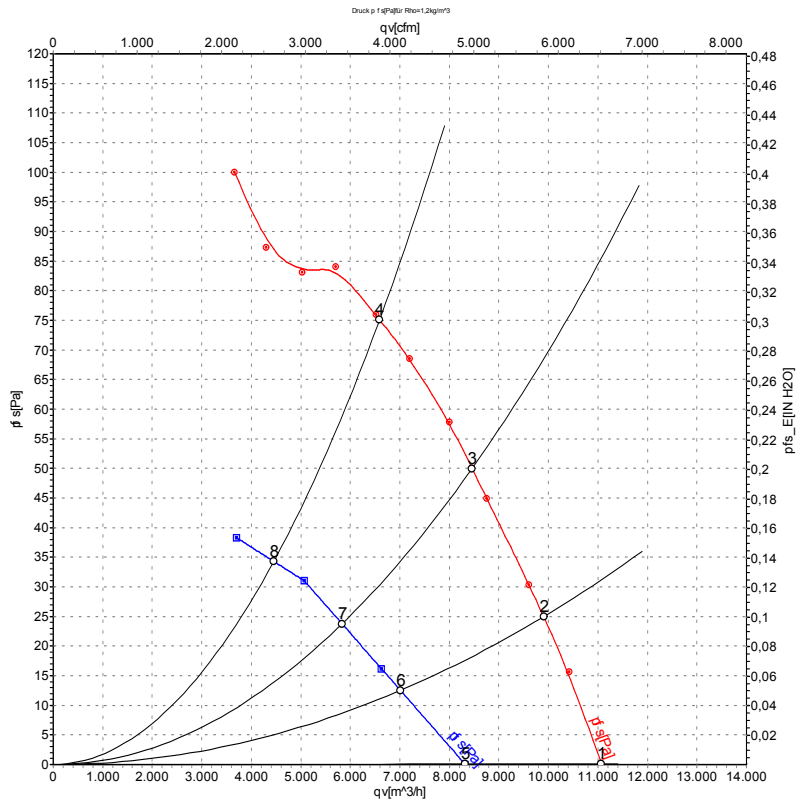
Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebm-papst. Suction-side noise levels: LwA measured as per ISO 13347 / LpA measured with 1m distance to fan axis. The values given are valid under the measuring conditions mentioned above and may vary according to the actual installation situation. With any deviation from the standard set-up, the specific values have to be checked and reviewed with the unit installed.

Measured values

	Conn.	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	680	298	0.83	56	62	61	9415	0
2	Δ	400	50	665	333	0.85	53	59	59	8195	25
3	Δ	400	50	655	354	0.87	52	58	58	7110	40
4	Δ	400	50	650	370	0.88	56	62	63	5900	55
5	Y	400	50	545	185	0.37	51	56	56	7630	0
6	Y	400	50	510	197	0.39	48	53	53	6290	14
7	Y	400	50	490	203	0.40	49	54	54	5355	23
8	Y	400	50	470	210	0.41	50	56	56	4380	30

Conn. = Connection · U = Supply voltage · f = Frequency · n = Speed · P_e = Power input · I = Current draw · LpA_{in} = Sound pressure level inlet side · LwA_{in} = Sound power level inlet side
LwA_{out} = Sound power level outlet side · qv = Air flow · p_{fs} = Pressure increase

Charts: Air flow 60 Hz



Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebm-papst. Suction-side noise levels: LwA measured as per ISO 13347 / LpA measured with 1m distance to fan axis. The values given are valid under the measuring conditions mentioned above and may vary according to the actual installation situation. With any deviation from the standard set-up, the specific values have to be checked and reviewed with the unit installed.

Measured values

	Conn.	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	480	60	795	454	0.91	60	65	65	11070	0
2	Δ	480	60	780	492	0.94	57	63	63	9905	25
3	Δ	480	60	760	534	0.98	56	62	62	8460	50
4	Δ	480	60	740	580	1.00	60	66	66	6590	75
5	Y	480	60	590	265	0.44	53	58	58	8315	0
6	Y	480	60	550	274	0.45	50	55	55	7015	12
7	Y	480	60	520	281	0.47	49	55	55	5830	24
8	Y	480	60	500	290	0.50	50	57	57	4455	34

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