S6E630-AD01-01/F01

AC axial fan - HyBlade®

sickled blades (S series)

with guard grille for short nozzle

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S6E630-AD01-01/F01 ebmpapst Datasheet
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Nominal data

Type	**S6E630-AD01-01/F01**	
Motor	**M6E110-GF**	
Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50
Type of data definition		ml
Valid for approval / standard		CE
Speed	min^{-1}	830
Power input	W	690
Current draw	A	3.03
Motor capacitor	µF	14
Capacitor voltage	VDB	400
Max. ambient temperature	°C	50

ml = max. load · me = max. efficiency · fa = running at free air · cs = customer specs · cu = customer unit
Subject to alterations

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Technical features

Mass	17.7 kg
Size	630 mm
Surface of rotor	Coated in black
Material of terminal box	ABS plastic, black
Material of blades	Aluminium
Material of guard grille	Steel, phosphated and coated in black plastic
Number of blades	5
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
Leakage current	<= 3.5 mA
Electrical leads	Via terminal box, integrated capacitor connected 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 61800-5-1; CE
Approval	VDE; CCC

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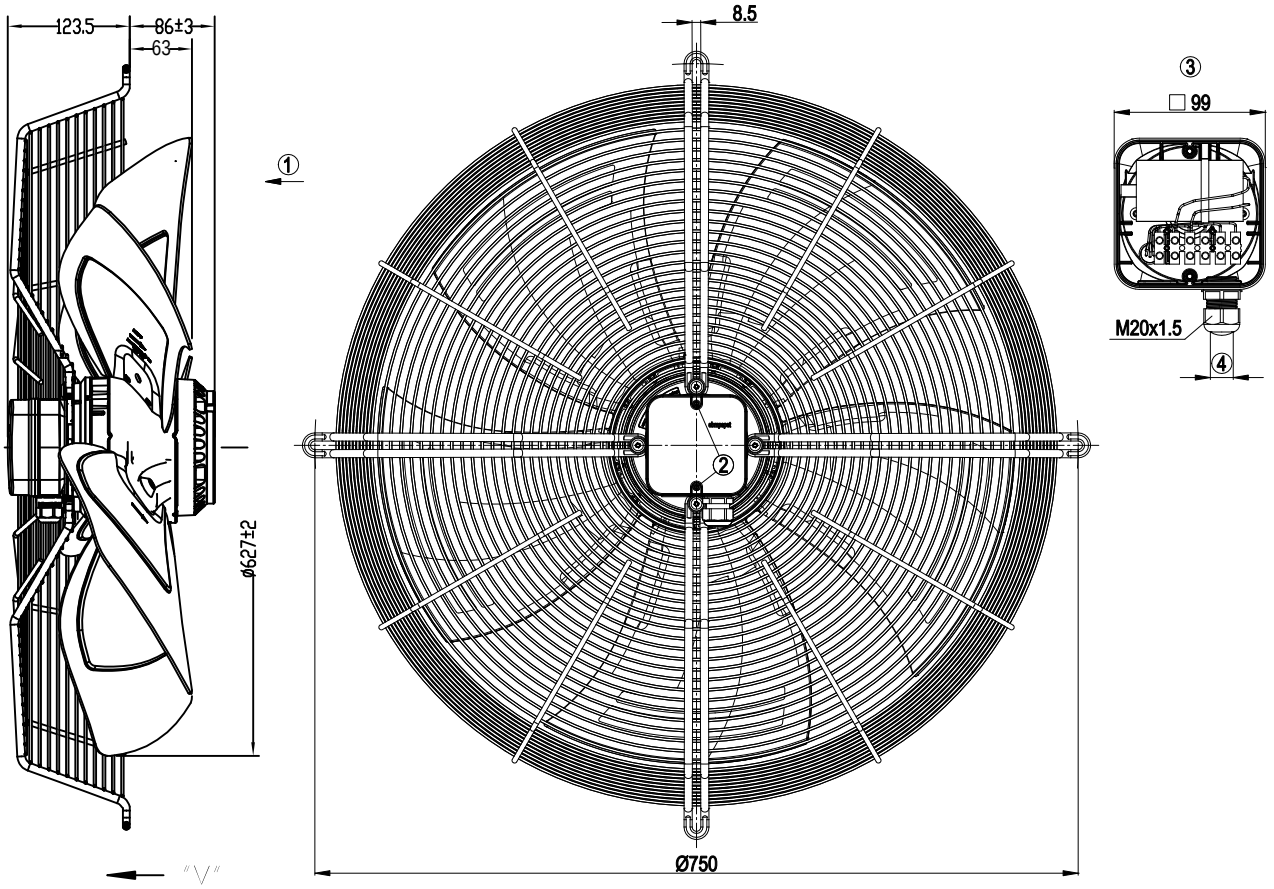
Product drawing



1	Direction of air flow "V"
2	Tightening torque 0.8±0.15 Nm
3	Illustration without terminal box cover
4	Cable diameter: min. 6 mm, max. 12 mm; tightening torque: 2±0.3 Nm

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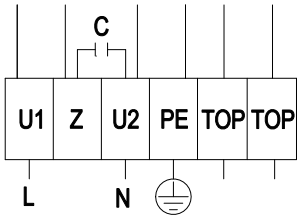
Connection screen



L	= U1 = blue	Z	brown	N	= U2 = black
PE	green / yellow	TOP	grey		

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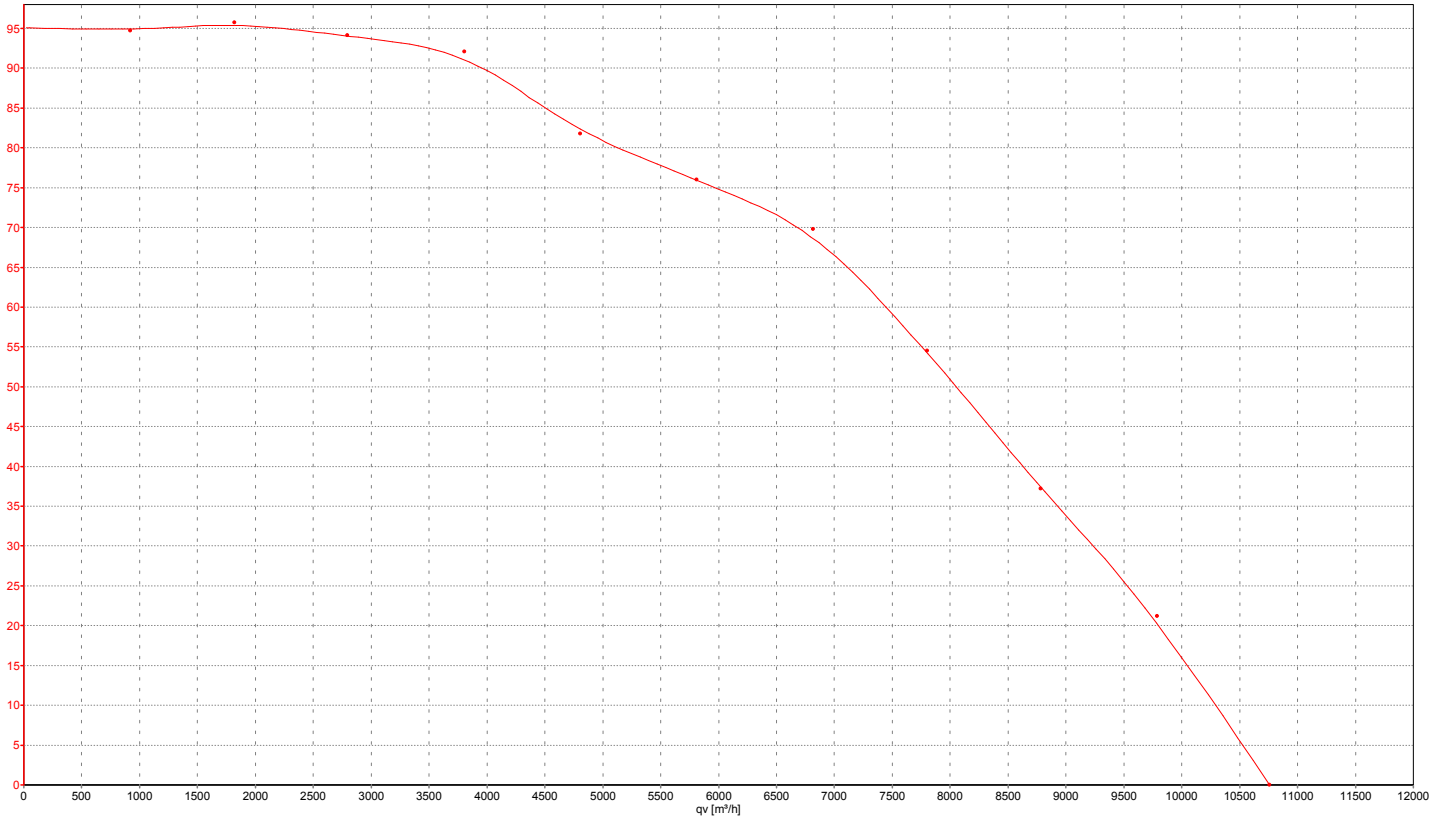
Charts: Air flow 50 Hz



No.	DB	U [V]	I_{ges} [A]	P_e [W]	λ	n [1/min]	p_{sf} [Pa]	p_{sf12} [Pa]	p_f [Pa]	q_v [m³/h]	η_e [%]	LpA_{Out} [dBA]	LwA_{Out} [dBA]
1	2	229.70	2.48	563.6	0.99	876	0.0	0.0	58.9	10758.4	31.3	80.1	76.7
2	2	230.20	2.60	592.3	0.99	862	21.2	22.0	70.0	9789.1	32.2		
3	2	230.00	2.70	614.4	0.99	848	37.2	38.5	76.5	8782.2	30.4	72.8	75.6
4	2	229.70	2.75	624.0	0.99	840	54.5	56.4	85.5	7802.4	29.8		
5	2	230.30	2.76	627.6	0.99	839	69.8	72.5	93.4	6816.5	28.2	66.4	78.1
6	2	229.70	2.85	645.9	0.99	822	76.0	79.0	93.1	5809.6	23.3		
7	2	229.90	2.96	668.8	0.98	803	81.8	85.0	93.5	4807.8	18.7	66.3	78.5
8	2	230.40	3.19	714.6	0.97	757	92.1	95.7	99.4	3803.2	14.7		
9	2	229.80	3.35	742.5	0.97	708	94.1	97.8	98.1	2794.5	10.3	62.8	75.0
10	1	230.40	3.48	769.9	0.96	657	95.7	99.4	97.4	1817.7	6.4		
11	1	230.20	3.59	788.0	0.95	606	94.7	98.4	95.1	918.2	3.1	62.1	74.2
12	1	229.90	3.69	802.8	0.95	549	95.1	98.8	95.1	0.0	0.0		

Measurement: LU-105789

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.