AC axial fan - HyBlade®

sickled blades (S series)

A8E630-AN01-01 ebmpapst Datasheet
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Limited partnership · Headquarters Mulfingen
County court Stuttgart · HRA 590344

General partner: Elektrobau Mulfingen GmbH · Headquarters Mulfingen
County court Stuttgart · HRB 590142

Nominal data

Type	**A8E630-AN01-01**
Motor	**M8E110-GF**

Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50	60
Type of data definition		ml	ml
Valid for approval / standard		CE	CE
Speed	min^{-1}	670	710
Power input	W	340	460
Current draw	A	1.72	2.12
Motor capacitor	µF	7	7
Capacitor voltage	VDB	450	450
Max. back pressure	Pa	60	75
Min. ambient temperature	°C	-40	-40
Max. ambient temperature	°C	65	55

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	12.5 kg
Size	630 mm
Surface of rotor	Coated in black
Material of terminal box	PC/ABS plastic, black
Material of blades	Press-fitted sheet steel blank, sprayed with PP plastic
Number of blades	5
Direction of rotation	"V"
Type of protection	IP 54
Insulation class	"F"
Humidity class	F4-1
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	CCC; CSA C22.2 Nr.100; UL 1004-1; VDE

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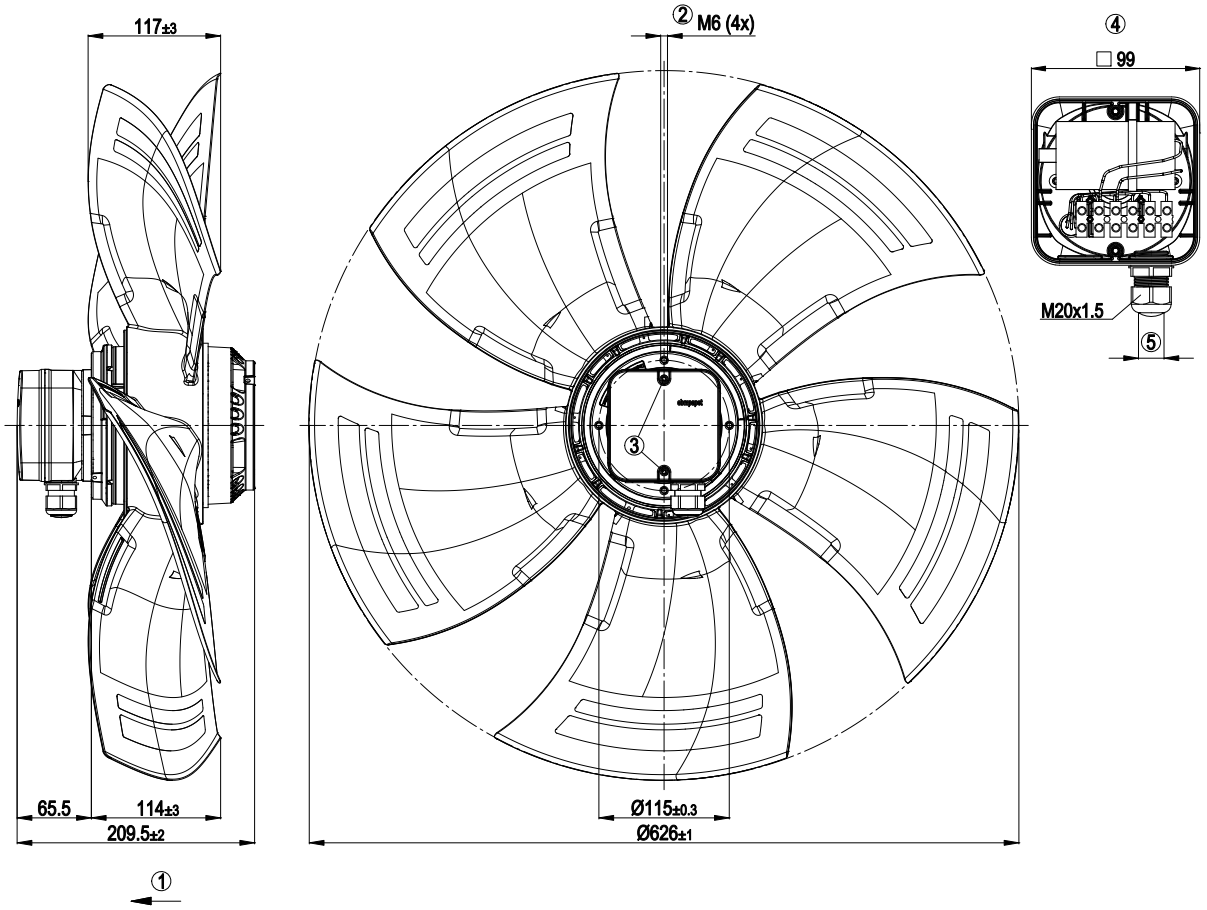
Product drawing



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

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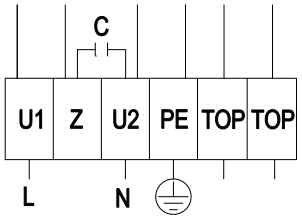
Connection screen



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

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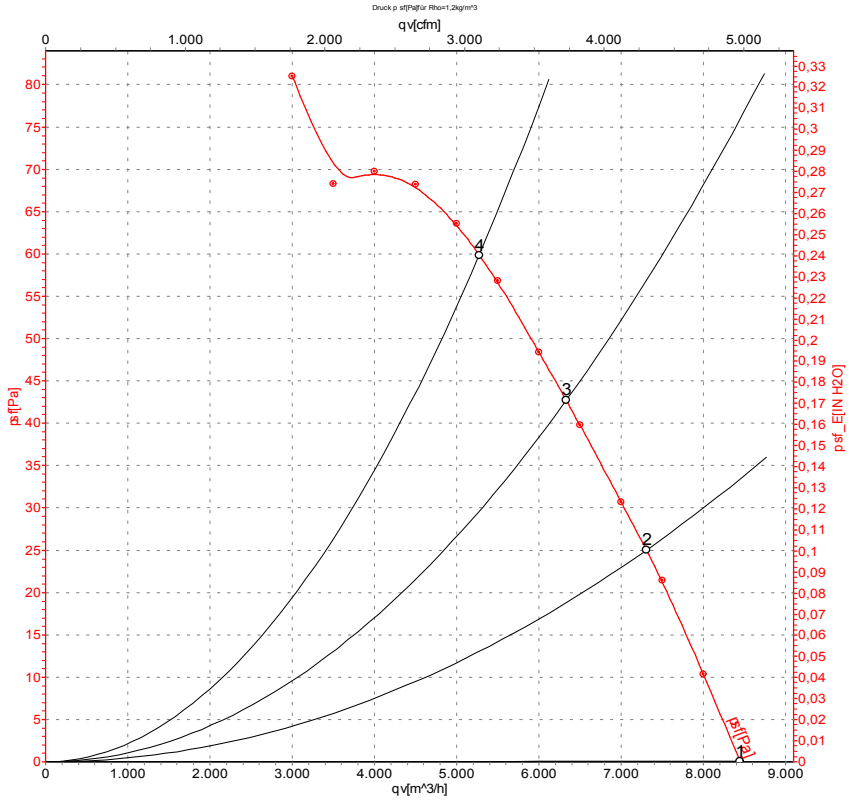
Charts: Air flow 50 Hz



Measurement: LU-105803

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

	U	f	n	P_e	I	LpA_{in}	LwA_{in}	LwA_{out}	qv	p_{sf}
	V	Hz	min^{-1}	W	A	dB(A)	dB(A)	dB(A)	m^3/h	Pa
1	230	50	700	278	1.52	58	64	63	8450	0
2	230	50	690	305	1.60	56	62	61	7310	25
3	230	50	680	322	1.65	54	61	60	6335	43
4	230	50	670	340	1.72	55	62	61	5275	60

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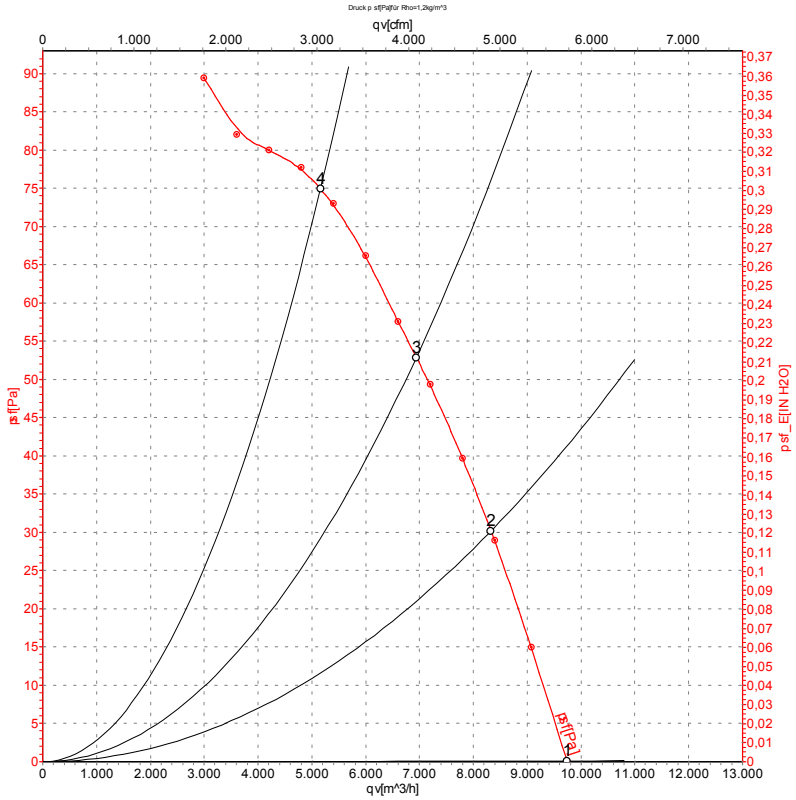
Charts: Air flow 60 Hz



Measurement: LU-105807

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

	U	f	n	P_e	I	LpA_{in}	LwA_{in}	LwA_{out}	qv	p_{sf}
	V	Hz	min^{-1}	W	A	dB(A)	dB(A)	dB(A)	m^3/h	Pa
1	230	60	810	379	1.70	61	67	66	9740	0
2	230	60	780	416	1.88	57	63	63	8325	30
3	230	60	750	441	2.01	56	62	61	6940	53
4	230	60	710	460	2.12	58	64	64	5160	75