S6E710-AR03-01

AC axial fan - HyBlade®

sickled blades (S series)

with guard grille for short nozzle

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ErP2015 EXCEEDS THE NORM

Nominal data

Type	**S6E710-AR03-01**
Motor	**M6E110-IA**

Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50
Type of data definition		ml
State		prelim.
Valid for approval / standard		CE
Speed	min^{-1}	900
Power input	W	630
Current draw	A	2.79
Motor capacitor	µF	14
Capacitor voltage	VDB	450
Max. back pressure	Pa	105
Max. ambient temperature	°C	65

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

Data according to ErP directive

Installation category	A
Efficiency category	Static
Variable speed drive integrated	No
Specific ratio*	1,00

* Specific ratio = 1 + p_{sf} / 100 000

		Actual	Request 2013	Request 2015
Overall efficiency η_e		33,4	28,3	32,3
Efficiency grade N		41,1	36	40
Power input P_e	kW	0,61		
Air flow q_v	m^3/h	7510		
Pressure increase Total p_{sf}	Pa	99		
Speed n	min^{-1}	900		

Data established at point of optimum efficiency

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Technical features

Mass	20.5 kg
Size	710 mm
Surface of rotor	Cast in aluminium
Material of terminal box	ABS plastic, black
Material of blades	PP plastic, black
Material of guard grille	Steel, phosphated and coated in black plastic
Number of blades	5
Blade angle	-10°
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	Any
Condensate discharge holes	On rotor and stator sides
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

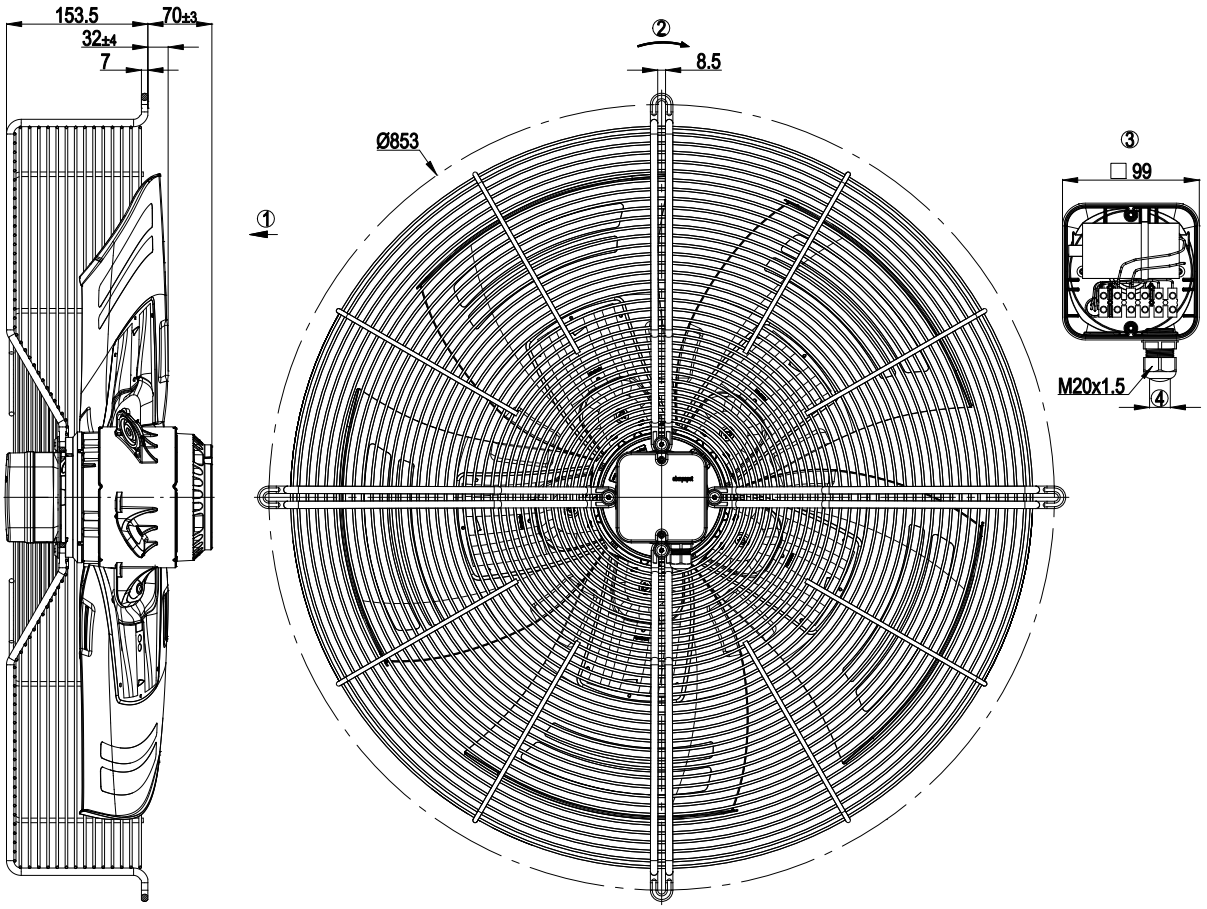
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Product drawing



1	Direction of air flow "V"
2	Direction of rotation counterclockwise, seen on rotor
3	Shown without terminal box cover
4	Cable diameter: min. 6 mm, max. 12 mm

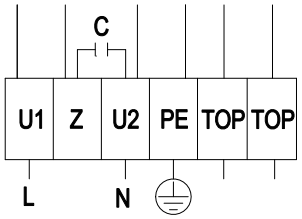
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Connection screen



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

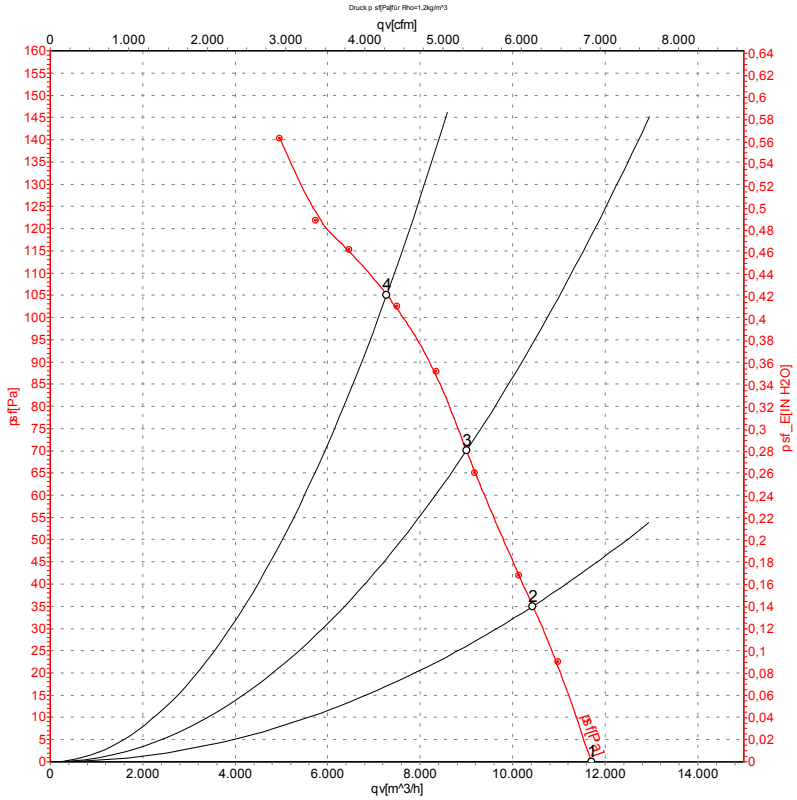
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Charts: Air flow 50 Hz



Measurement: LU-111673

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	955	428	1.97	67	74	73	11700	0
2	230	50	935	496	2.24	67	73	72	10440	35
3	230	50	920	561	2.51	66	73	72	9000	70
4	230	50	900	630	2.79	70	77	76	7280	105

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