S6E500-AJ03-01

AC axial fan - HyBlade®

sickled blades (S series)

with guard grille for short nozzle

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Nominal data

Type	**S6E500-AJ03-01**
Motor	**M6E110-EF**

Phase		1~	1~
Nominal voltage	[V]	230	230
Frequency	[Hz]	50	60
Type of data definition		ml	ml
Valid for approval / standard		CE	CE
Speed	[min^{-1}]	915	1015
Power input	[W]	270	390
Current draw	[A]	1.18	1.72
Motor capacitor	[µF]	8	8
Capacitor voltage	[VDB]	400	400
Max. back pressure	[Pa]	70	90
Max. ambient temperature	[°C]	65	65

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

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Technical features

Leackage current	<= 3.5 mA
Size	500 mm
Operation mode	S1
Direction of rotation	Counter-clockwise, seen on rotor
Mounting position	Shaft horizontal or rotor on bottom; rotor on top on request
Electrical leads	Via terminal box, integrated capacitor connected via terminal box
Humidity class	F4-1
Direction of air flow	"V"
Insulation class	"F"
Cable exit	Axial
Condensate discharge holes	Rotor-side
Bearing motor	Ball bearing
Mass	10.5 kg
Material of terminal box	PC/ABS plastic Bayblend FR110
Material of blades	Press-fitted sheet steel blank, sprayed with PP plastic
Material of guard grille	Steel, phosphated and coated in black plastic
Motor protection	Thermal overload protector (TOP) brought out
Product conforming to standard	CE; EN 61800-5-1
Surface of rotor	Coated in black
Number of blades	5
Type of protection	IP 54
Protection class	I
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Approval	CSA C22.2 Nr.100; GOST; UL 1004-1; VDE

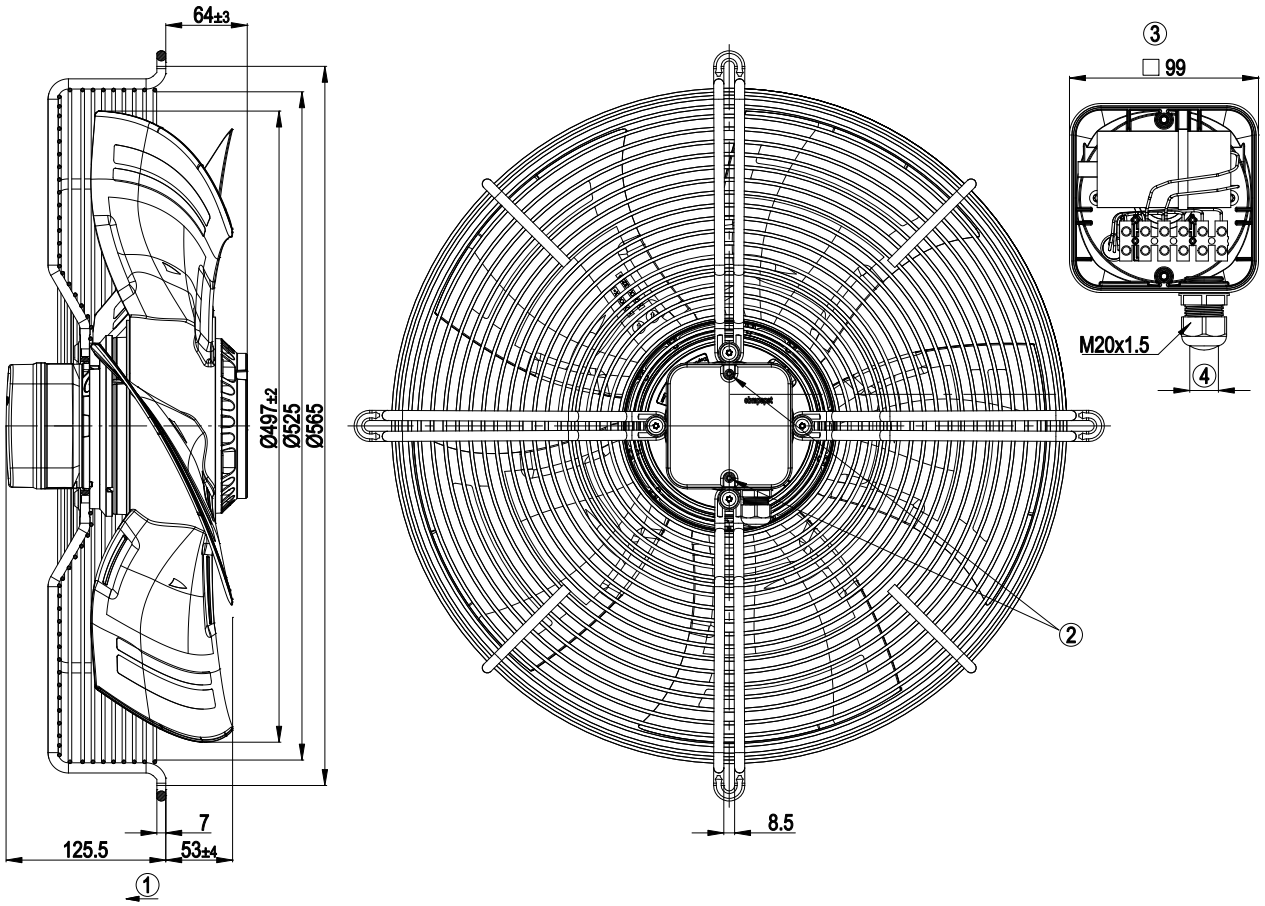
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Product drawing



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

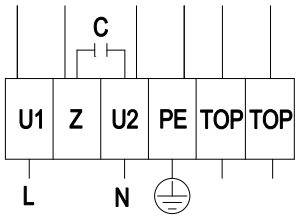
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Connection screen



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

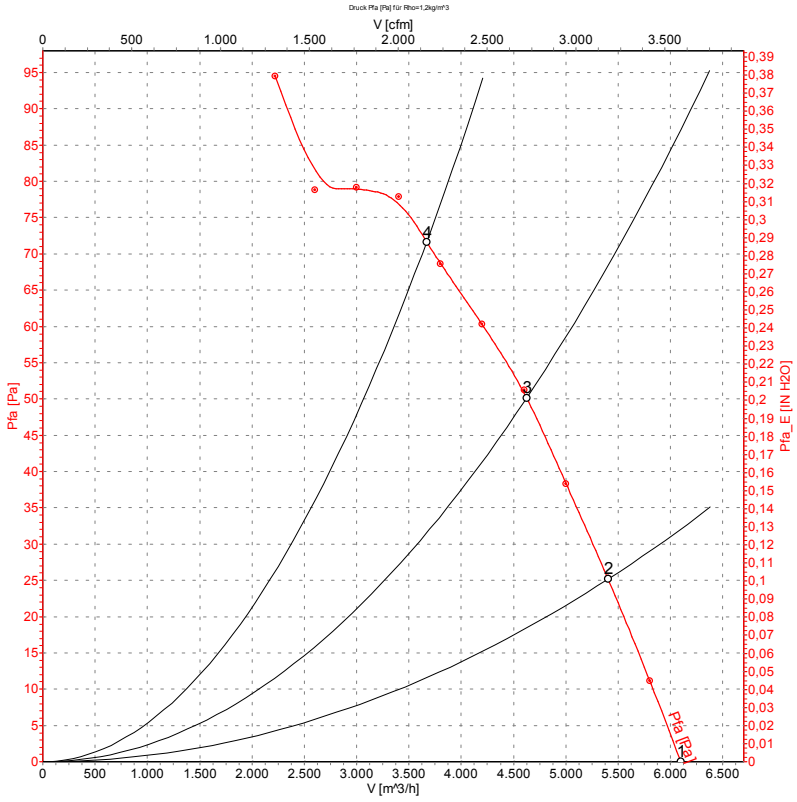
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Charts: Air flow 50 Hz



Measurement: LU-105735

Measured values

	U	f	n	P_1	I	LpA_{ss}	LpA_{ds}	LwA_{ss}	LwA_{ds}	$\hat{V}$	p_{fa}
	[V]	[Hz]	[min^{-1}]	[W]	[A]	[dB(A)]	[dB(A)]	[dB(A)]	[dB(A)]	[m^3/h]	[Pa]
1	230	50	945	220	0.97	61	51	67	67	6100	0
2	230	50	935	235	1.03	58	48	64	65	5405	25
3	230	50	925	251	1.10	56	46	62	63	4625	50
4	230	50	915	270	1.18	56	46	63	63	3670	70

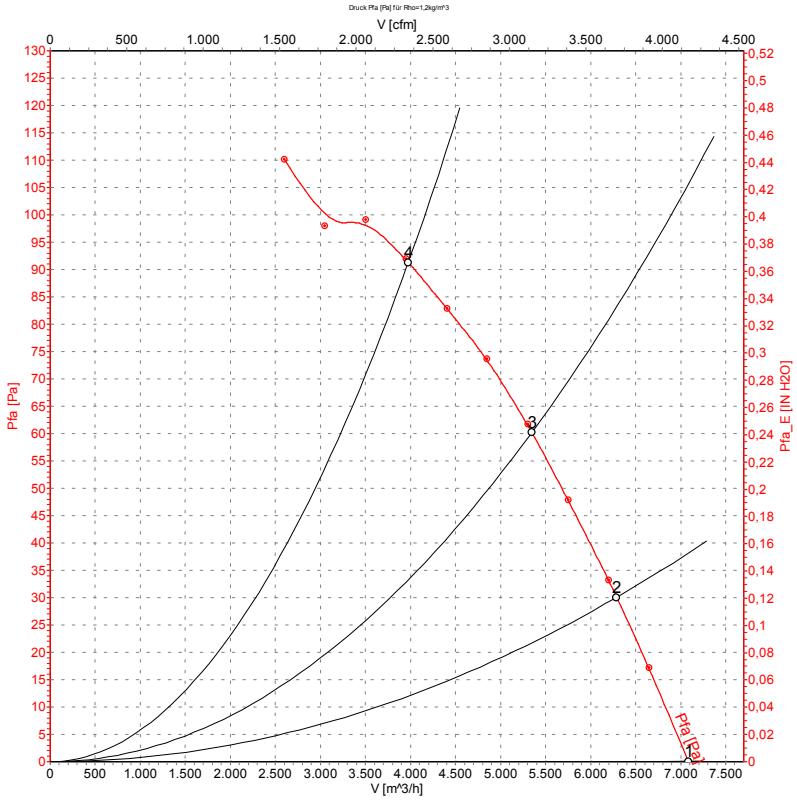
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Charts: Air flow 60 Hz



Measurement: LU-105744

Measured values

	U	f	n	P_1	I	LpA_{ss}	LpA_{ds}	LwA_{ss}	LwA_{ds}	$\hat{V}$	p_{fa}
	[V]	[Hz]	[min^{-1}]	[W]	[A]	[dB(A)]	[dB(A)]	[dB(A)]	[dB(A)]	[m^3/h]	[Pa]
1	230	60	1095	340	1.53	63	54	70	70	7085	0
2	230	60	1075	360	1.59	60	51	67	67	6290	30
3	230	60	1050	375	1.65	58	49	65	65	5345	60
4	230	60	1015	390	1.72	58	49	65	65	3975	90

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