S6D500-CJ03-01

AC axial fan - HyBlade®

sickled blades (S series)

with guard grille for full nozzle

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Nominal data

Type	**S6D500-CJ03-01**
Motor	**M6D110-EF**

Phase		3~	3~	3~	3~	3~	3~
Nominal voltage	[V]	400	400	400	400	480	480
Connection		**D**	Y	**D**	Y	**D**	Y
Frequency	[Hz]	50	50	60	60	60	60
Type of data definition		ml	ml	ml	ml	ml	ml
Valid for approval / standard		CE	CE	CE	CE	CE	CE
Speed	[min^{-1}]	930	800	1050	800	1100	910
Power input	[W]	270	190	380	250	415	295
Current draw	[A]	0.69	0.4	0.75	0.43	0.78	0.45
Max. back pressure	[Pa]	75	55	90	55	100	70
Max. ambient temperature	[°C]	65	65	65	65	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
Humidity class	F4-1
Blade angle	0°
Direction of air flow	"V"
Insulation class	"F"
Cable exit	Axial
Condensate discharge holes	Rotor-side
Bearing motor	Ball bearing
Mass	10.7 kg
Material of terminal box	ABS plastic, black
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; EN 60034
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	GOST; VDE

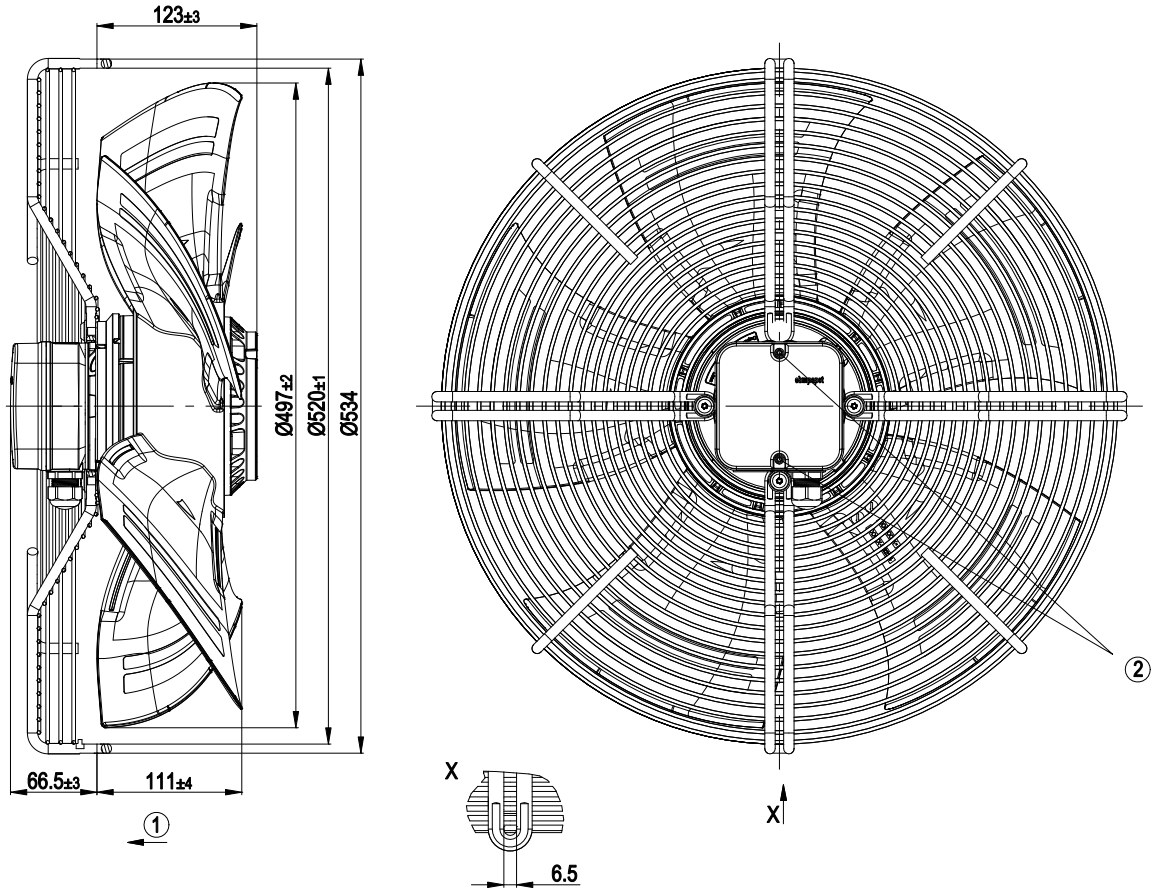
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Product drawing



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

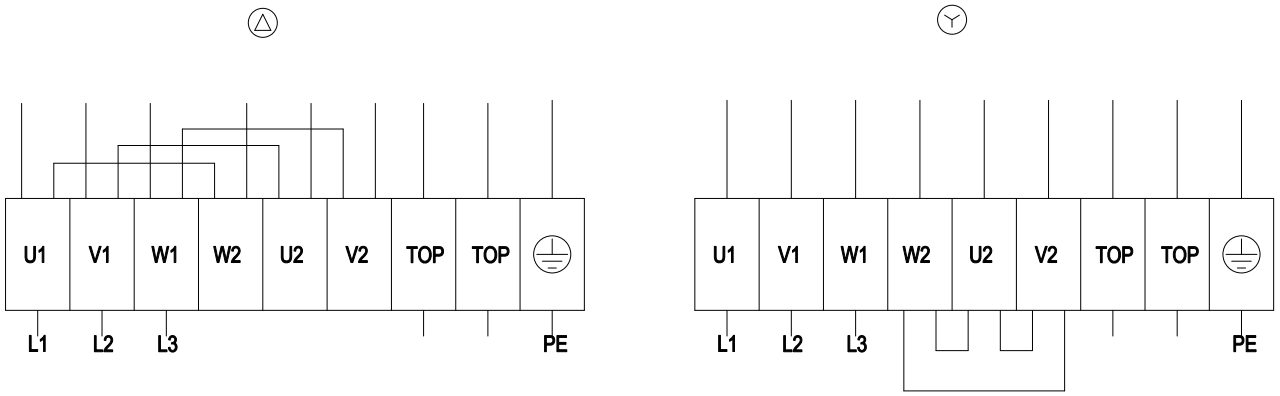
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Connection screen



Note: Direction of rotation changes when two phases are reversed

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

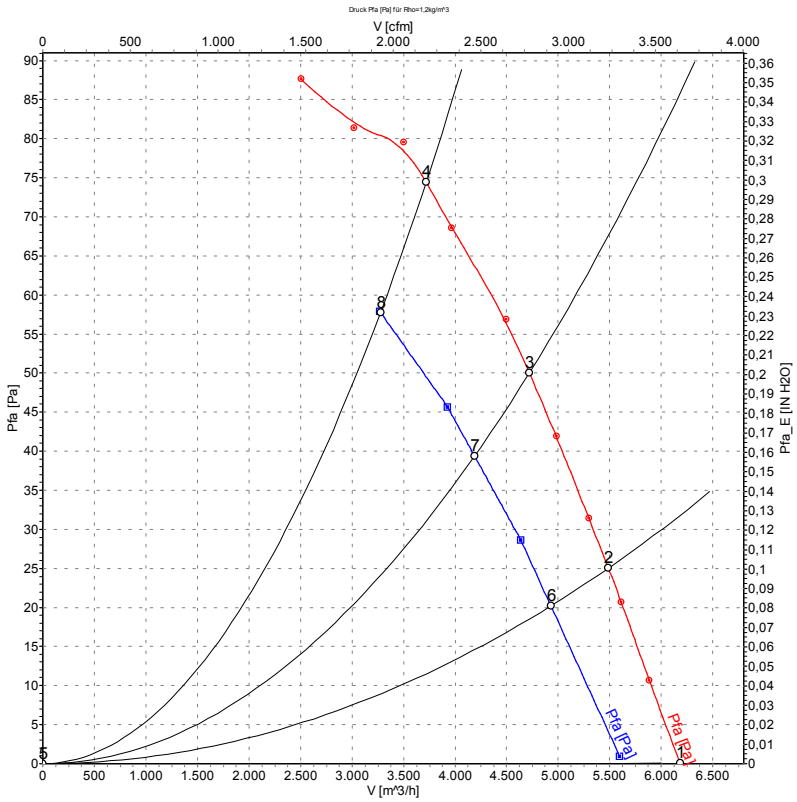
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Charts: Air flow 50 Hz



Measurement: LU-105753
Measurement: LU-106651

Measured values

	Conn.	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	Δ	400	50	955	206	0.65	61	51	67	67	6185	0
2	Δ	400	50	945	230	0.65	58	48	64	64	5485	25
3	Δ	400	50	935	248	0.66	55	46	62	62	4720	50
4	Δ	400	50	930	270	0.69	56	46	63	62	3720	75
5	Y	400	50	870	145	0.27	59	50	65	65	5595	0
6	Y	400	50	850	159	0.29	56	46	62	62	4930	20
7	Y	400	50	830	173	0.30	53	44	59	59	4190	39
8	Y	400	50	800	190	0.40	52	43	59	59	3275	55

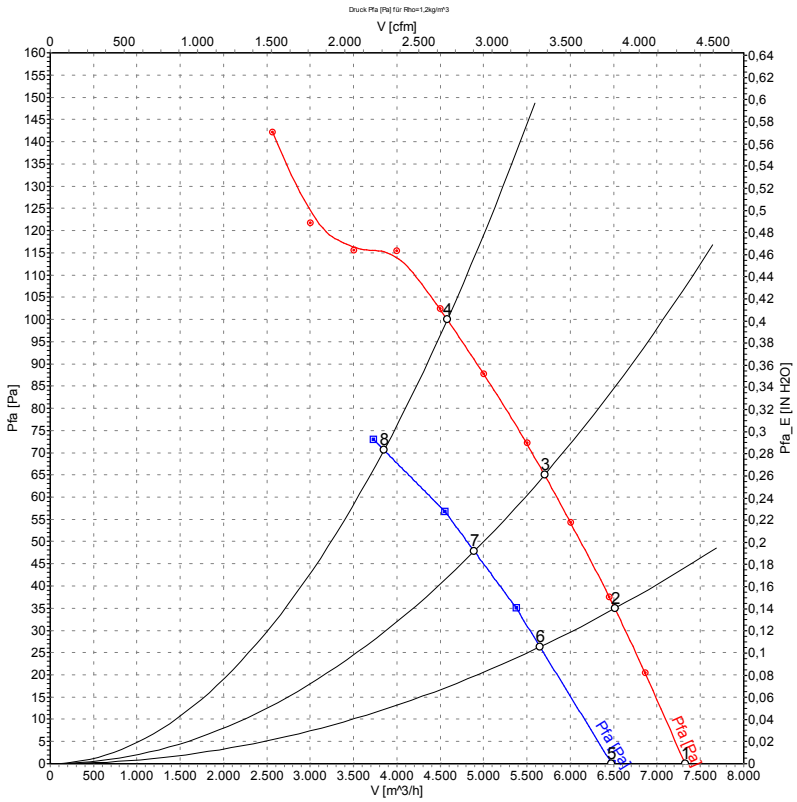
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Charts: Air flow 60 Hz



Measurement: LU-106149
Measurement: LU-106413

Measured values

	Conn.	U	f	n	P_1	I	LpA_{ss}	LpA_{ds}	LwA_{ss}	LwA_{ds}	$\dot{V}$	p_{fa}
		[V]	[Hz]	[min^{-1}]	[W]	[A]	[dB(A)]	[dB(A)]	[dB(A)]	[dB(A)]	[m^3/h]	[Pa]
1	Δ	480	60	1130	314	0.69	64	55	70	71	7325	0
2	Δ	480	60	1120	351	0.70	60	52	67	67	6515	35
3	Δ	480	60	1110	380	0.72	59	50	66	65	5705	65
4	Δ	480	60	1100	415	0.78	59	50	66	66	4580	100
5	Y	480	60	1000	235	0.34	61	52	68	68	6475	0
6	Y	480	60	965	257	0.37	58	49	64	64	5650	26
7	Y	480	60	945	273	0.39	56	47	62	62	4890	48
8	Y	480	60	910	295	0.45	55	46	62	61	3850	70

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