S4D560-AQ01-02

AC axial fan - HyBlade®

sickled blades (S series)

with guard grille for short nozzle

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Nominal data

Type	**S4D560-AQ01-02**
Motor	**M4D110-IA**

Phase		3~	3~	3~	3~
Nominal voltage	[V]	400	400	400	400
Connection		**D**	Y	**D**	Y
Frequency	[Hz]	50	50	60	60
Type of data definition		ml	ml	ml	ml
Valid for approval / standard		CE	CE	CE	CE
Speed	[min^{-1}]	1350	1110	1540	1150
Power input	[W]	1100	760	1380	840
Current draw	[A]	2.32	1.3	2.4	1.45
Max. back pressure	[Pa]	170	115	90	50
Max. ambient temperature	[°C]	65	65	60	60

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	560 mm
Operation mode	S1
Direction of rotation	Clockwise, seen on rotor
Mounting position	Shaft horizontal or rotor on bottom; rotor on top on request
Electrical leads	Via terminal box
Humidity class	F3-1
Blade angle	-5°
Direction of air flow	"A"
Insulation class	"F"
Cable exit	Axial
Condensate discharge holes	Rotor-side
Bearing motor	Ball bearing
Mass	20 kg
Material of terminal box	ABS plastic, black
Material of blades	Aluminium sheet insert, 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	Cast in aluminium
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

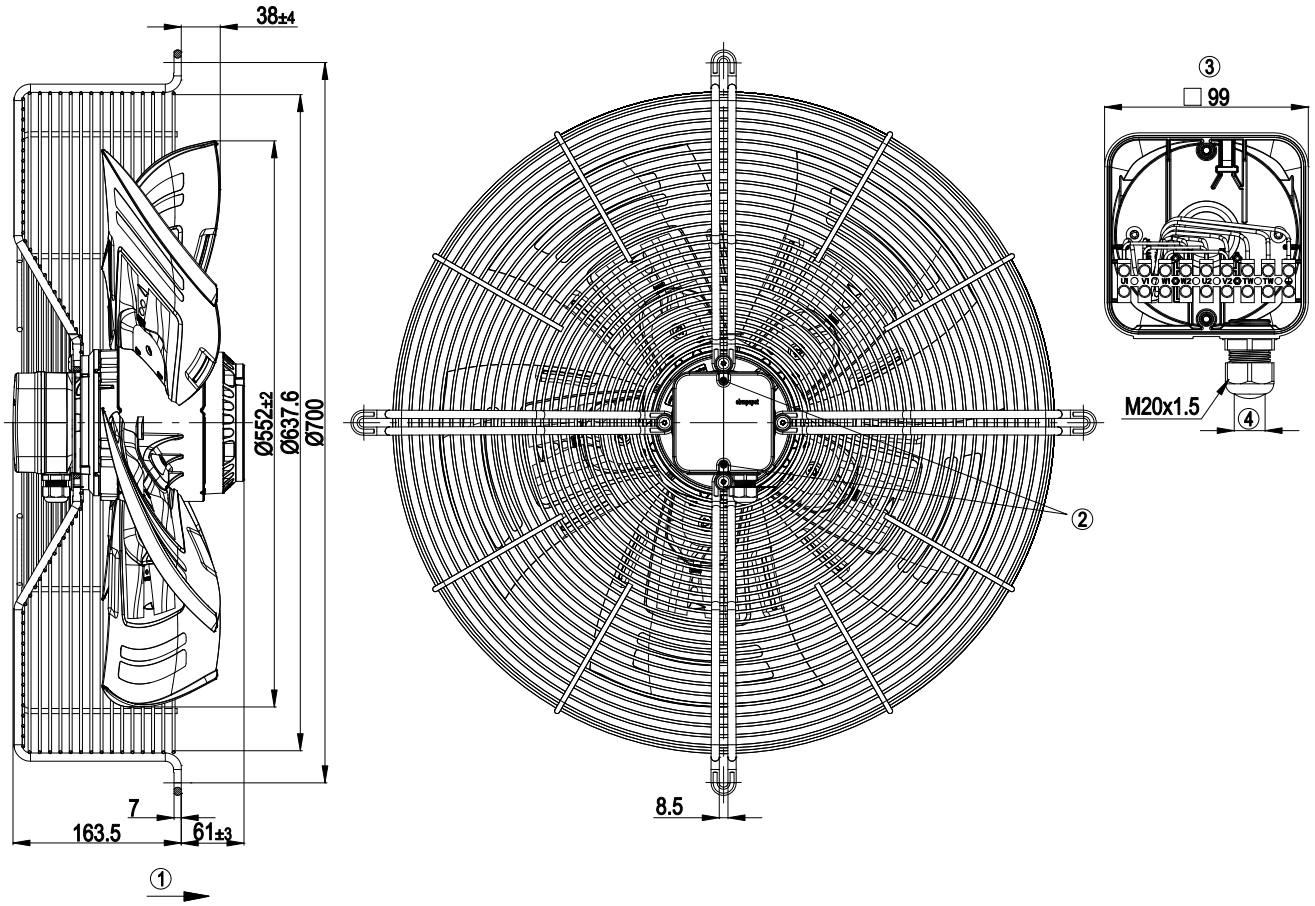
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Product drawing



1	Direction of air flow "A"
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±0.3 Nm

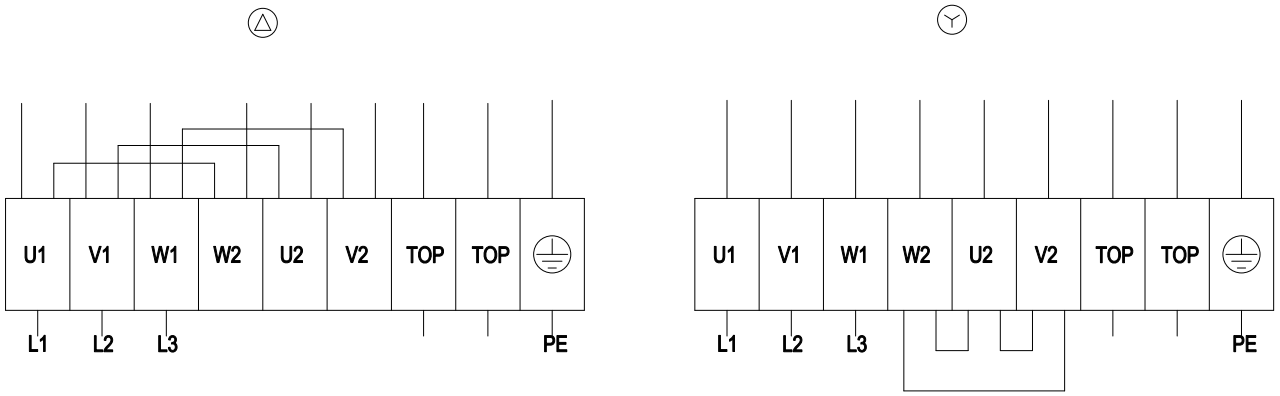
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Connection screen



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				

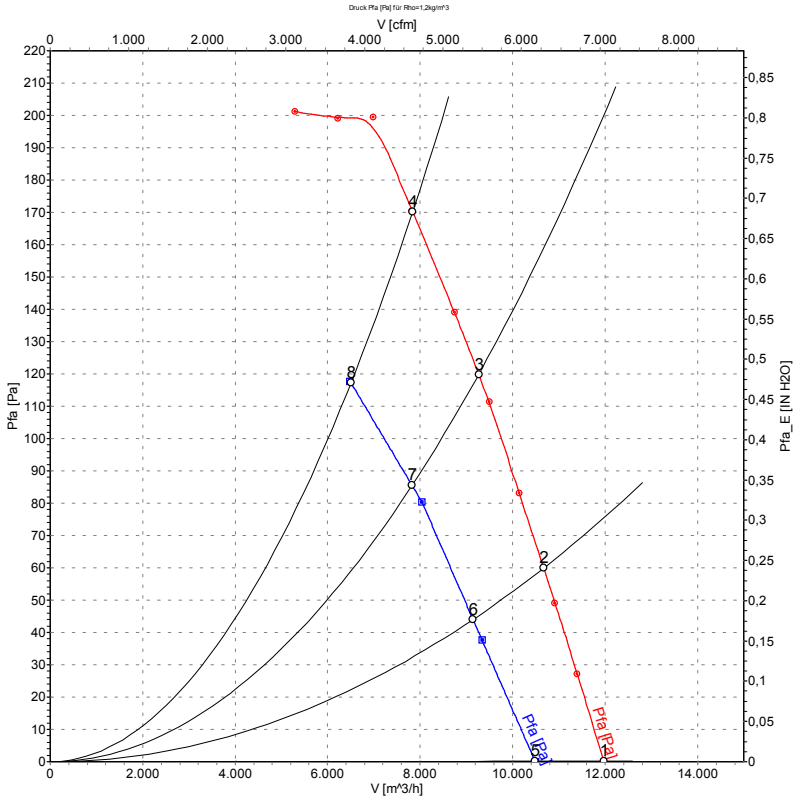
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Charts: Air flow 50 Hz



Measurement: LU-111140
Measurement: LU-113347

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	400	50	1400	806	1.98	69	61	76	76	11970	0
2	Δ	400	50	1380	915	2.08	67	58	74	74	10670	60
3	Δ	400	50	1365	1014	2.17	66	57	73	73	9270	120
4	Δ	400	50	1350	1100	2.32	70	60	76	76	7840	170
5	Y	400	50	1225	611	1.05	65	57	72	72	10490	0
6	Y	400	50	1180	671	1.14	63	54	70	70	9145	44
7	Y	400	50	1140	722	1.22	62	53	70	69	7825	86
8	Y	400	50	1110	760	1.30	65	56	74	72	6505	115

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