

AC axial fan - HyBlade®

sickled blades (S series)
with guard grille for short nozzle

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Nominal data

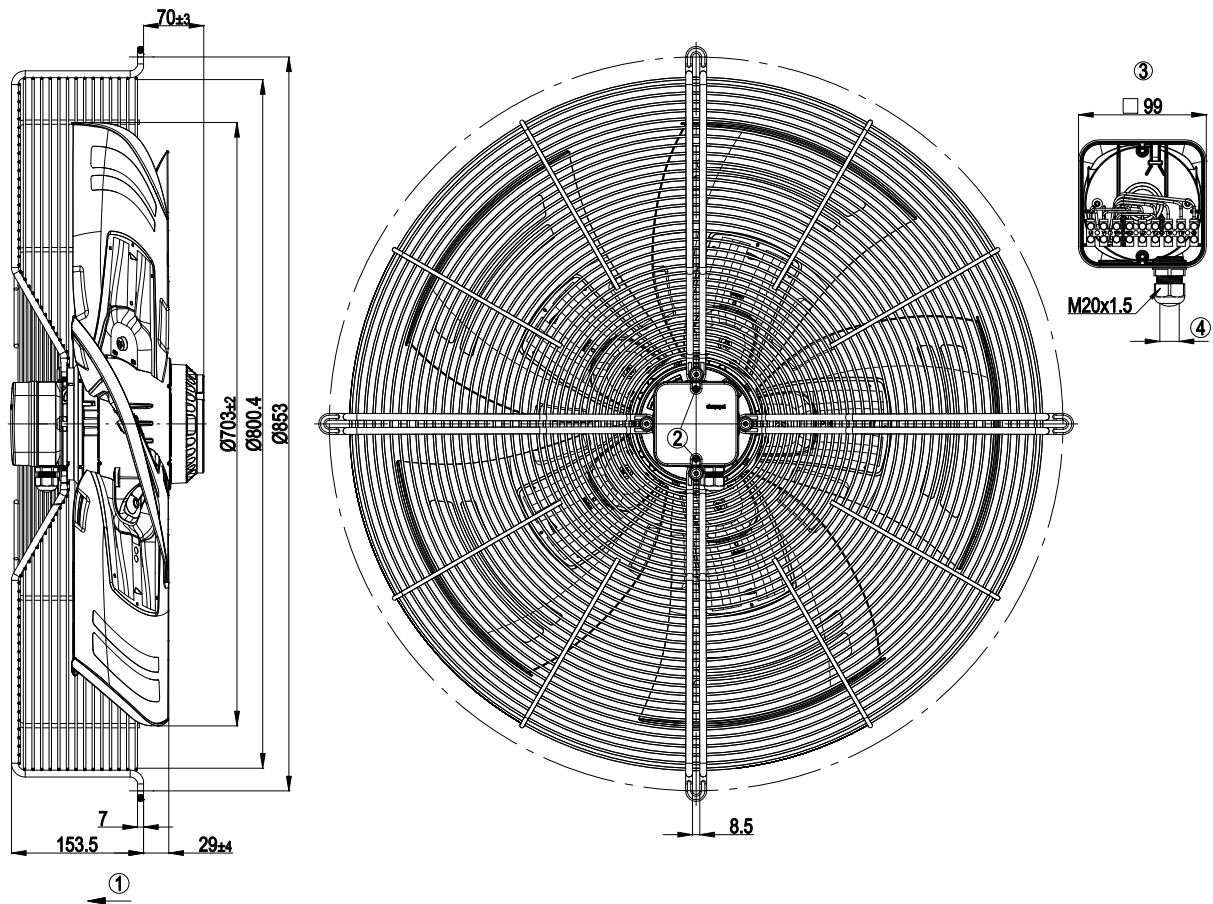
Type	S6D710-AQ01-01		
Motor	M6D110-IA		
Phase		3~	3~
Nominal voltage	[V]	400	400
Connection		D	Y
Frequency	[Hz]	50	50
Type of data definition		ml	ml
State		prelim.	prelim.
Valid for approval / standard		CE	CE
Speed	[min ⁻¹]	880	670
Power input	[W]	840	530
Current draw	[A]	1.74	0.94
Max. back pressure	[Pa]	115	68
Max. ambient temperature	[°C]	50	50

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

Technical features

Leakage current	<= 3,5 mA
Size	710 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	F3-1
Blade angle	-5°
Direction of air flow	"V"
Insulation class	"F"
Cable exit	Axial
Condensate discharge holes	Rotor-side
Bearing motor	Ball bearing
Mass	20.5 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 aluminum
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	VDE

Product drawing

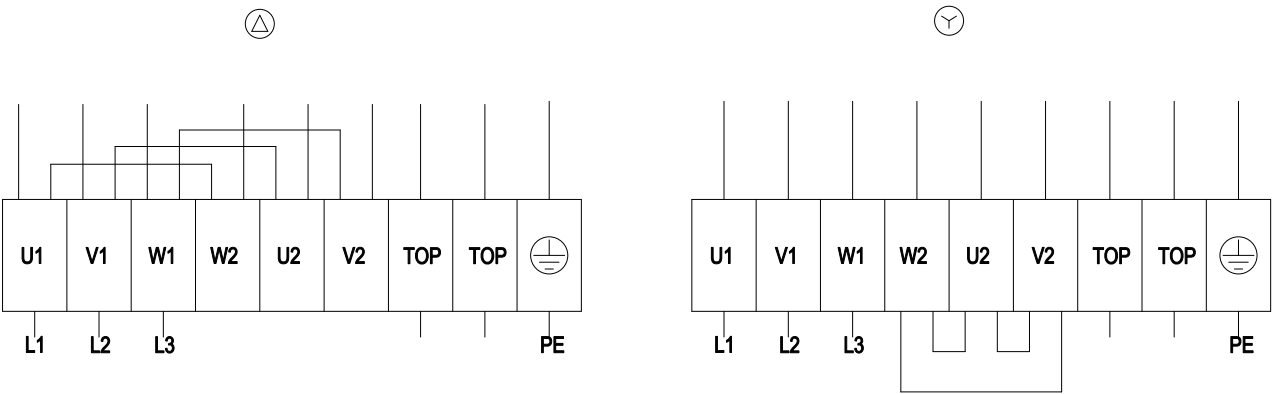


1	Direction of air flow "V"
2	Tightening torque 0.8 ± 0.15 Nm
3	Shown without terminal box cover
4	Cable diameter: min. 6 mm, max. 12 mm; tightening torque: 2 ± 0.2 Nm

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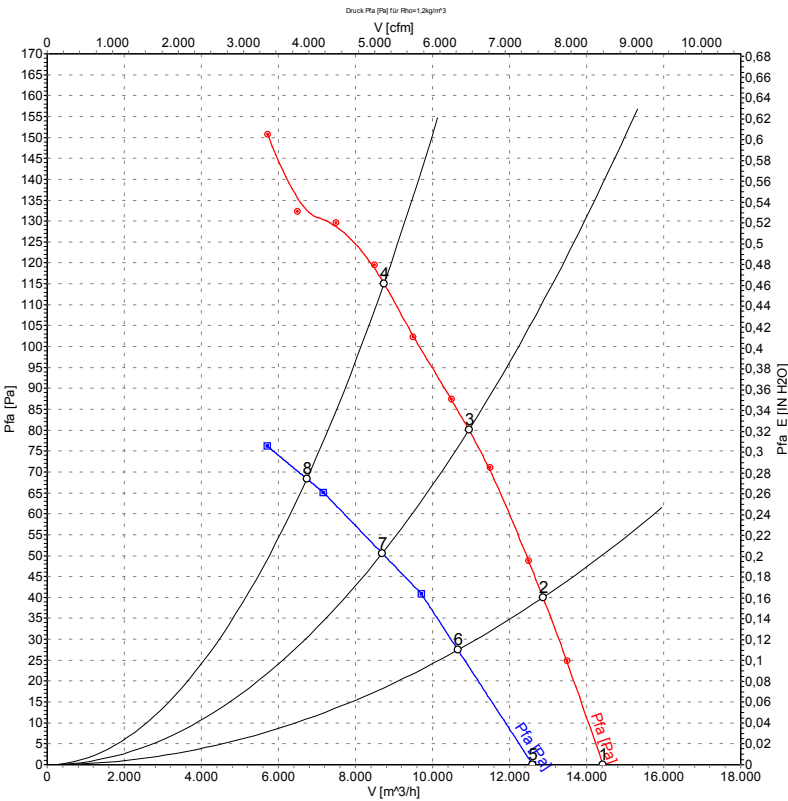
Connection screen



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				

Charts: Air flow 50 Hz



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)]	[m³/h]	[Pa]
1	Δ	400	50	935	521	1.45	66	57	73	72	14430	0
2	Δ	400	50	915	628	1.52	63	53	70	69	12870	40
3	Δ	400	50	895	736	1.63	61	52	68	67	10940	80
4	Δ	400	50	880	840	1.74	64	55	71	70	8740	115
5	Y	400	50	810	377	0.69	63	54	69	69	12600	0
6	Y	400	50	755	434	0.77	59	49	65	64	10660	27
7	Y	400	50	710	484	0.85	57	47	63	62	8695	50
8	Y	400	50	670	530	0.94	58	49	65	64	6735	68