S4D710-BF01-02

AC axial fan - HyBlade®

sickled blades (S series)

with guard grille for full nozzle

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Nominal data

Type	**S4D710-BF01-02**
Motor	**M4D138-LA**

Phase		3~	3~
Nominal voltage	[V]	400	400
Connection		**D**	Y
Frequency	[Hz]	50	50
Type of data definition		ml	ml
Valid for approval / standard		CE	CE
Speed	[min^{-1}]	1350	1095
Power input	[W]	2380	1660
Current draw	[A]	4.5	2.76
Max. back pressure	[Pa]	250	160
Max. ambient temperature	[°C]	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	710 mm
Operation mode	S1
Direction of rotation	Counter-clockwise, seen on rotor
Mounting position	Any
Electrical leads	Via terminal box
Humidity class	F3-1
Blade angle	-10°
Direction of air flow	"A"
Insulation class	"F"
Cable exit	Axial
Condensate discharge holes	On rotor and stator sides
Bearing motor	Ball bearing
Mass	28 kg
Material of terminal box	Plastic, fibre-glass reinforced
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; EN 60034
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	VDE

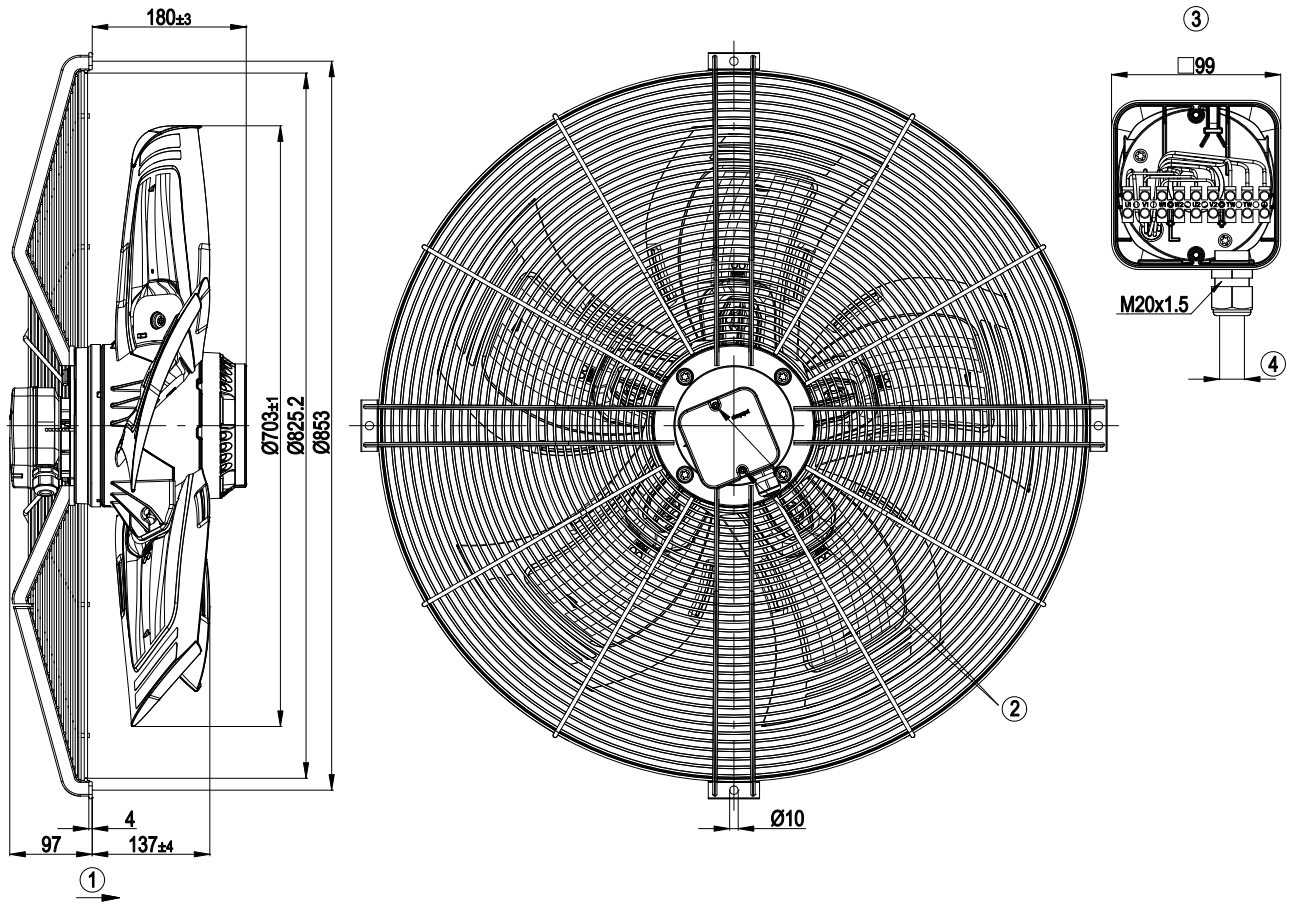
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Product drawing



1	Direction of air flow "A"
2	Tightening torque 0.8±0.3 Nm
3	Illustration without terminal box cover
4	Cable diameter: min. 7 mm, max. 14 mm, tightening torque: 2±0.15 Nm

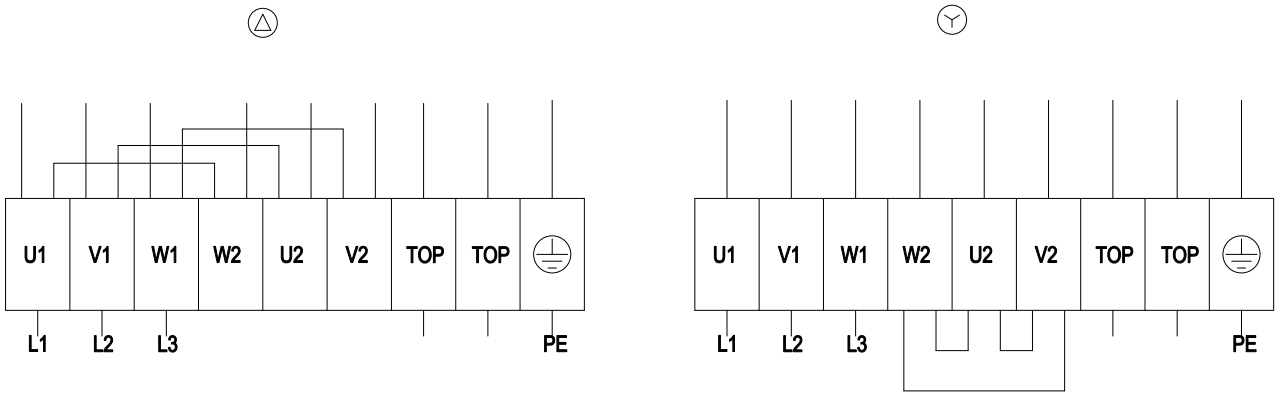
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Connection screen



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				

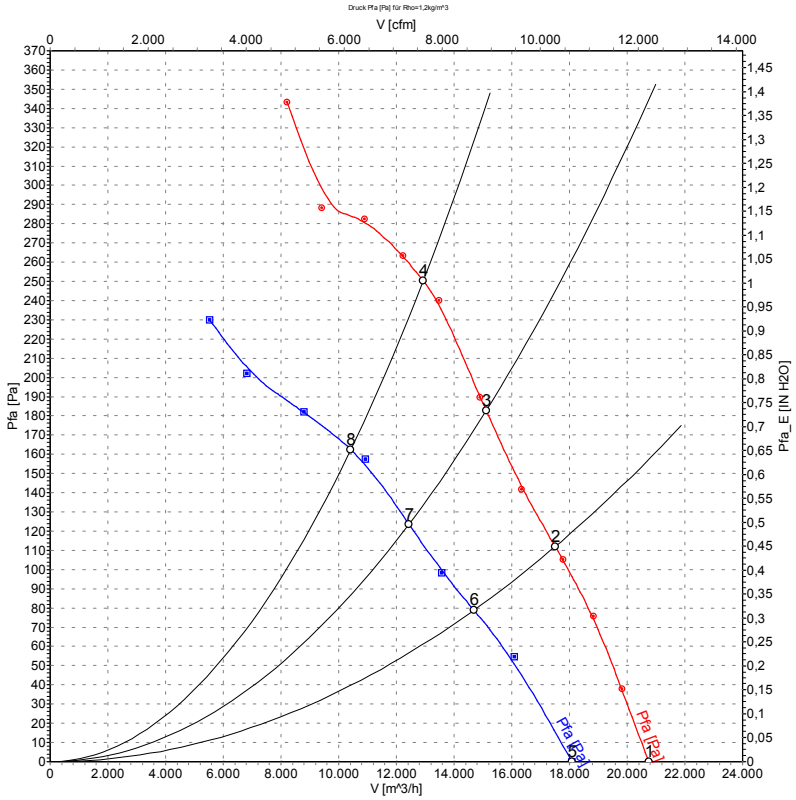
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Charts: Air flow 50 Hz



Measurement: LU-122073
Measurement: LU-122081

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	1415	1570	3.45	73	73	80	80	20740	0
2	Δ	400	50	1380	1995	3.92	75	66	81	81	17510	110
3	Δ	400	50	1365	2227	4.24	77	67	83	83	15110	180
4	Δ	400	50	1350	2380	4.50	79	71	86	86	12930	250
5	Y	400	50	1240	1230	2.09	70	68	77	77	18090	0
6	Y	400	50	1165	1474	2.50	69	61	76	76	14690	79
7	Y	400	50	1125	1590	2.71	71	62	78	77	12430	124
8	Y	400	50	1095	1660	2.76	74	65	81	80	10420	160

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