

Nominal data

Type	S6D710-CQ01-01		
Motor	M6D110-IA		
Phase		3~	3~
Nominal voltage	VAC	400	400
Connection		Δ	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
Min. ambient temperature	°C	-40	-40
Max. ambient temperature	°C	50	50

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

Data according to ErP directive

Installation category	A
Efficiency category	Static
Variable speed drive integrated	No
Specific ratio*	1,00

* Specific ratio = $1 + p_{fs} / 100\,000\text{ Pa}$

		Actual	Request 2013	Request 2015
Overall efficiency η_{es}		33	29	33
Efficiency grade N		40	36	40
Power input P_e	kW	0,79		
Air flow q_v	m ³ /h	9505		
Pressure increase p_{fs}	Pa	99		
Speed n	min ⁻¹	885		

Data established at point of optimum efficiency

AC axial fan - HyBlade®

sickled blades (S series)

with guard grille for full nozzle

Technical features

Mass	17.9 kg
Size	710 mm
Surface of rotor	Cast in aluminium
Material of terminal box	PP plastic, black
Material of blades	Aluminium sheet insert, sprayed with PP plastic
Material of guard grille	Steel, phosphated and coated in black plastic
Number of blades	5
Blade angle	-5°
Direction of air flow	"V"
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP 54
Insulation class	"F"
Humidity class	F3-1
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Shaft horizontal or rotor on bottom; rotor on top on request
Condensate discharge holes	Rotor-side
Operation mode	S1
Motor bearing	Ball bearing
Leakage current	<= 3.5 mA
Electrical leads	Via terminal box
Motor protection	Thermal overload protector (TOP) brought out
Cable exit	Axial
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 61800-5-1; CE
Approval	VDE

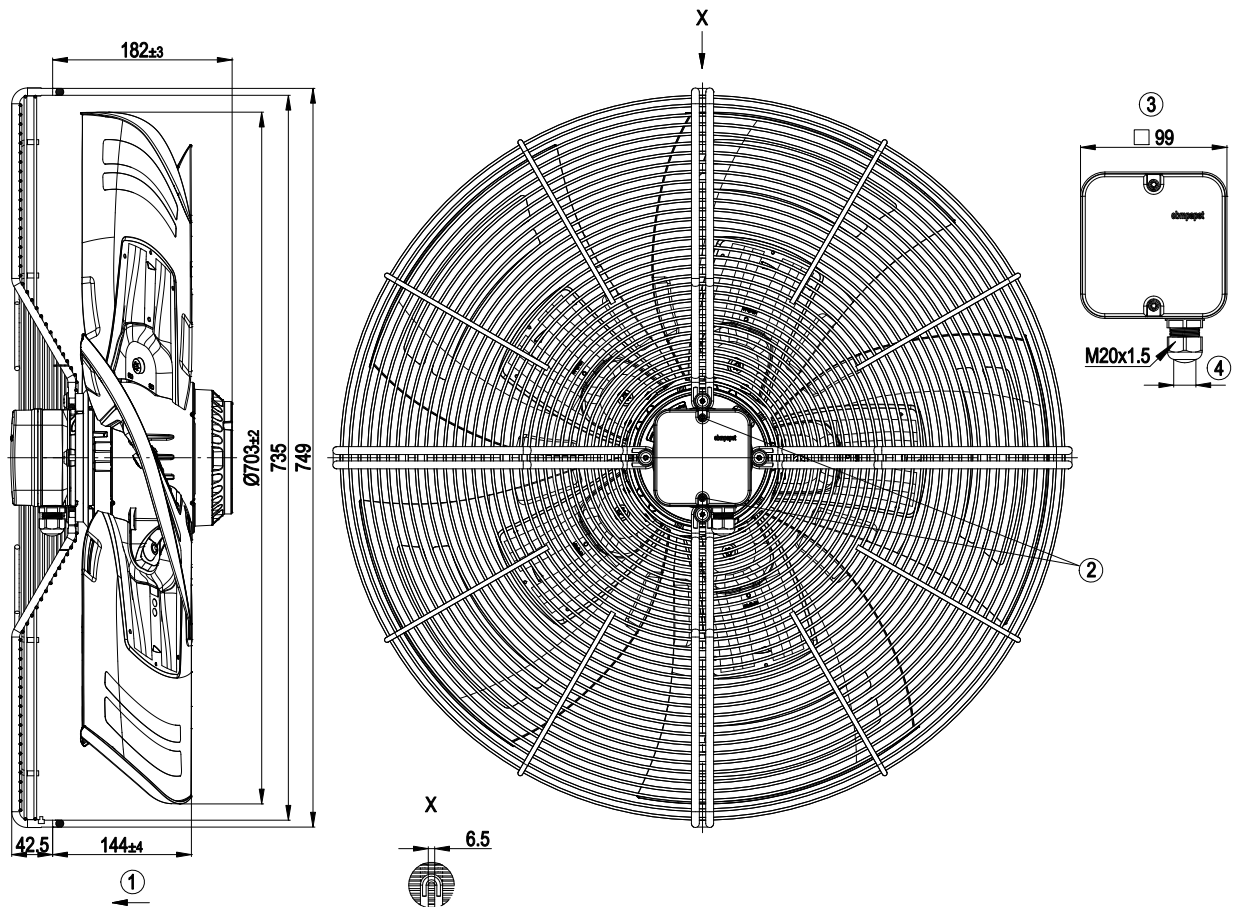


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Product drawing

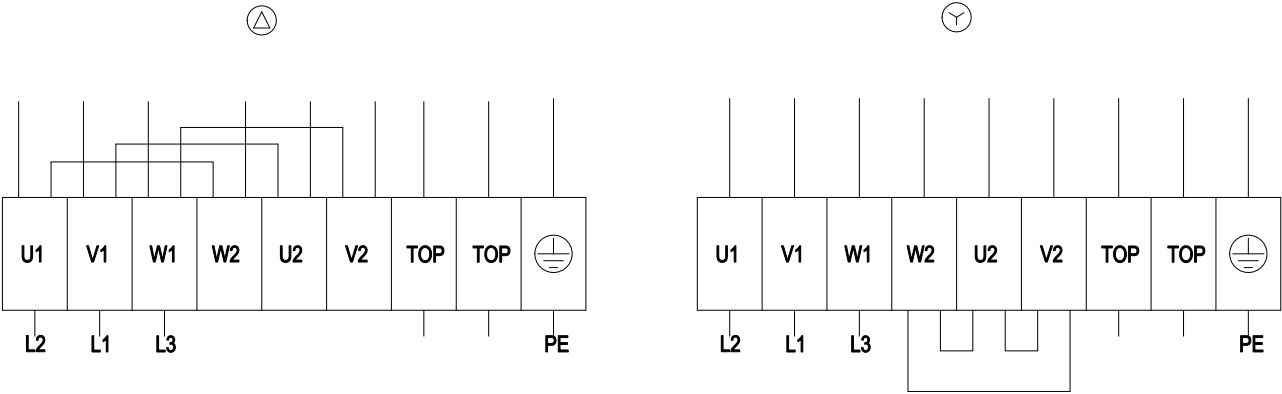


1	Direction of air flow "V"
2	Tightening torque 1.5 ± 0.2 Nm
3	Cable diameter: min. 6 mm, max. 12 mm, tightening torque: 2 ± 0.3 Nm

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Connection screen



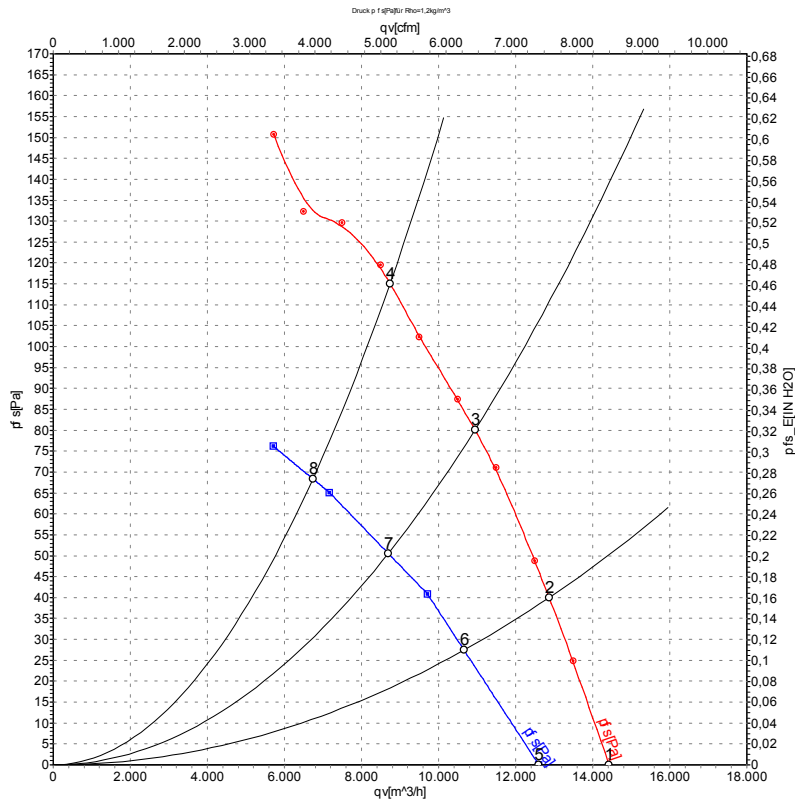
Δ	Delta connection	Y	Star connection	L1	= V1 = blue
L2	= U1 = black	L3	= W1 = brown	W2	yellow
U2	green	V2	white	TOP	2 x grey
PE	green/yellow				



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Charts: Air flow 50 Hz



Measurement: LU-108461
Measurement: LU-113657

Air performance measured as per ISO 5801
Installation category A. For detailed
information on the measuring set-up, please
contact ebm-papst. Suction-side noise
levels: L_{WA} measured as per ISO 13347 /
L_{pA} measured with 1m distance to fan axis.
The values given are valid under the
measuring conditions mentioned above and
may vary according to the actual installation
situation. With any deviation from the
standard set-up, the specific values have to
be checked and reviewed with the unit
installed.

Measured values

	Conn.	U	f	n	P _e	I	LpA _{in}	LwA _{in}	LwA _{out}	qv	p _{fs}
		V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	dB(A)	m³/h	Pa
1	Δ	400	50	935	521	1.45	66	73	72	14430	0
2	Δ	400	50	915	628	1.52	63	70	69	12870	40
3	Δ	400	50	895	736	1.63	61	68	67	10940	80
4	Δ	400	50	880	840	1.74	64	71	70	8740	115
5	Y	400	50	810	377	0.69	63	69	69	12600	0
6	Y	400	50	755	434	0.77	59	65	64	10660	27
7	Y	400	50	710	484	0.85	57	63	62	8695	50
8	Y	400	50	670	530	0.94	58	65	64	6735	68

