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Nominal data

Type	W6D710-GH01-01				
Motor	M6D138-HF				
Phase		3~	3~	3~	3~
Nominal voltage	VAC	400	400	480	480
Connection		Δ	Y	Δ	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	905	730	1060	780
Power input	W	1030	690	1700	1030
Current draw	A	2.35	1.34	2.87	1.72
Max. back pressure	Pa	125	80	170	92
Min. ambient temperature	°C	-40	-40	-40	-40
Max. ambient temperature	°C	80	80	60	60
Starting current	A	9	3	10	3.5

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	No
Specific ratio*	1.00

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

		Actual	Request 2013	Request 2015
Overall efficiency η_{es}	%	33.6	29.6	33.6
Efficiency grade N		40	36	40
Power input P_e	kW	0.97		
Air flow q_v	m ³ /h	10730		
Pressure increase p_{fs}	Pa	111		
Speed n	min ⁻¹	910		

Data definition with optimum efficiency.

LU-113715

The ErP data is determined using a motor-impeller combination in a standardised measurement configuration.



Technical features

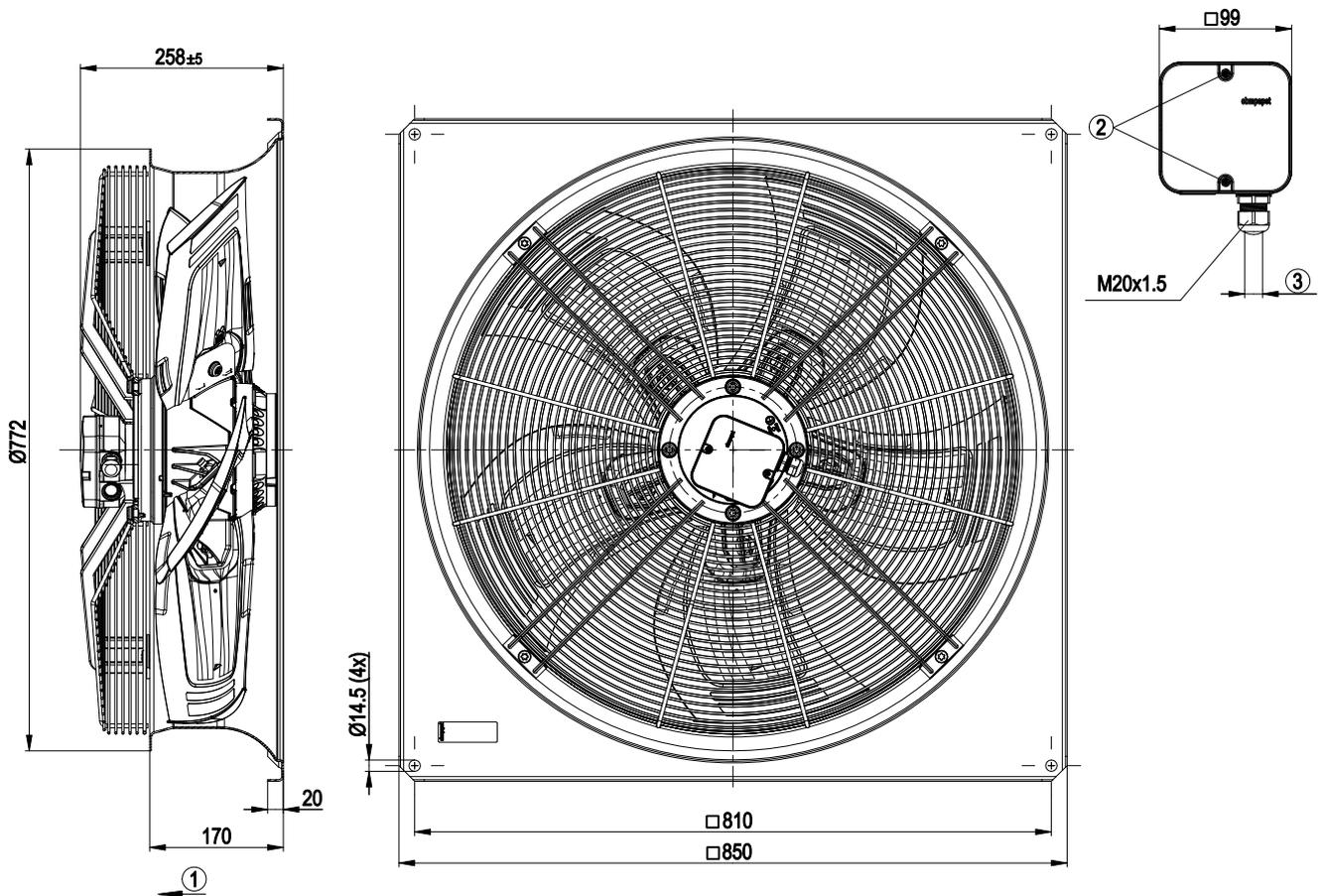
Mass	37.2 kg
Size	710 mm
Surface of rotor	Cast in aluminium
Material of terminal box	Plastic, fibreglass-reinforced
Material of blades	Aluminium sheet insert, sprayed with PP plastic
Material of wall ring	Sheet steel, pre-galvanised and coated with black plastic
Material of guard grille	Steel, phosphated and coated in black plastic
Number of blades	5
Blade angle	-5°
Direction of air flow	"V"
Direction of rotation	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	Any
Condensate discharge holes	On rotor and stator sides
Operation mode	S1
Motor bearing	Ball bearing
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	<= 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; EN 60034; CE
Approval	VDE; EAC

AC axial fan - HyBlade®

sickled blades (S series)

with full square nozzle

Product drawing



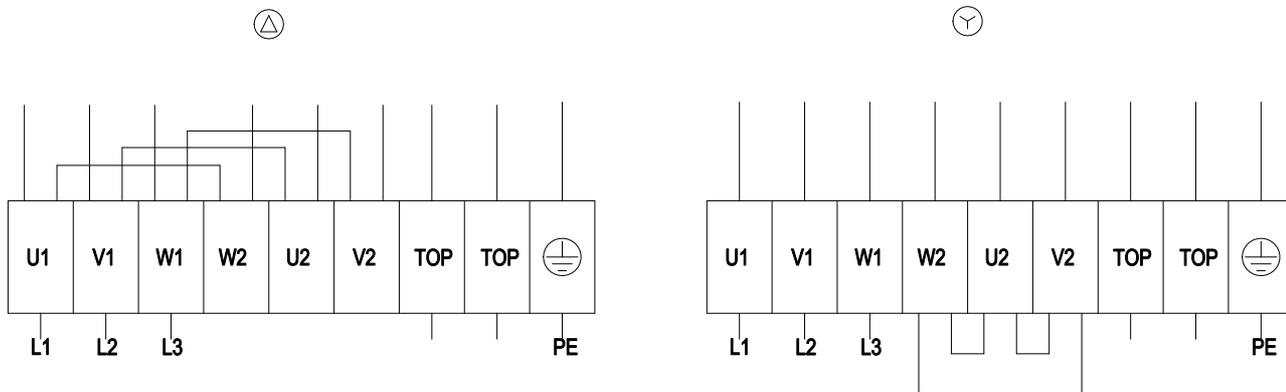
1	Direction of air flow "V"
2	Tightening torque 1.5 ± 0.2 Nm
4	Cable diameter: min. 7 mm, max. 14 mm; tightening torque: 2.0 ± 0.3 Nm

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sickled blades (S series)

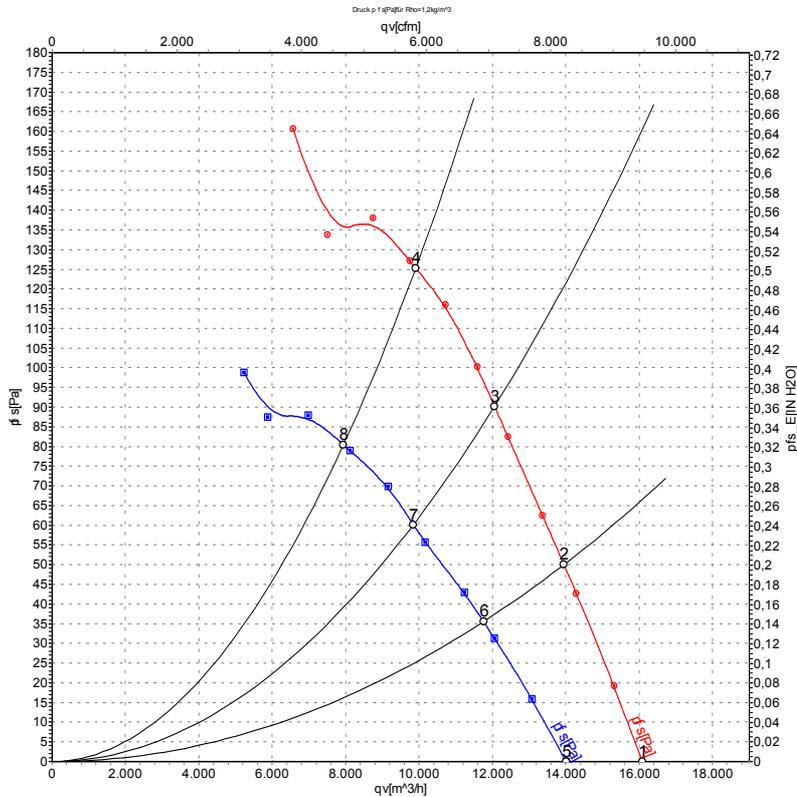
with full square nozzle

Connection screen



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



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: LwA measured as per ISO 13347 / LpA 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.

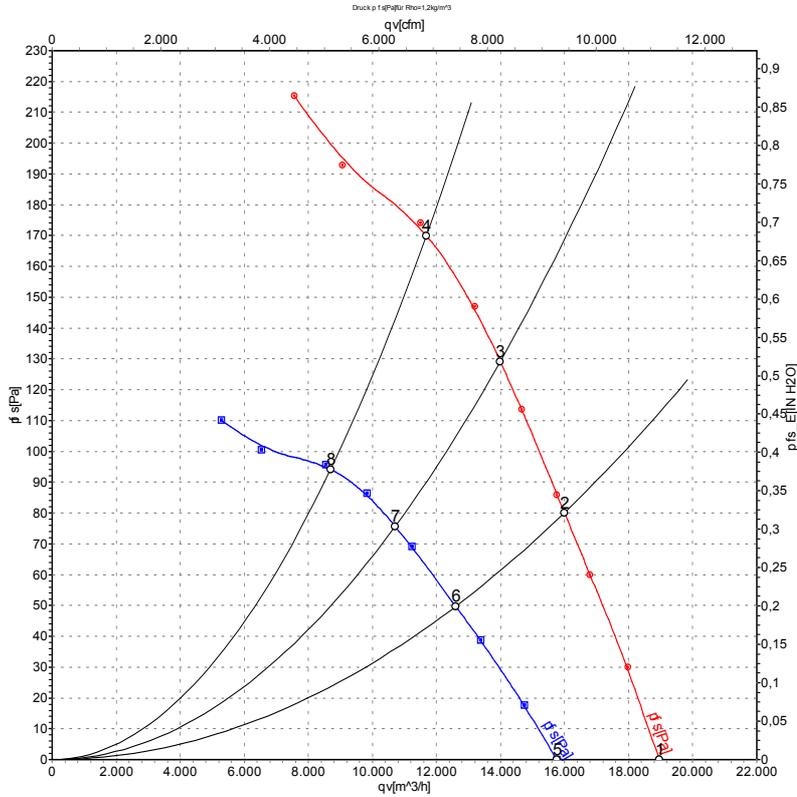
Measured values

	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)	m ³ /h	Pa
1	Δ	400	50	940	725	2.07	64	71	70	16080	0
2	Δ	400	50	925	859	2.18	62	69	69	13950	50
3	Δ	400	50	915	939	2.26	64	70	69	12060	90
4	Δ	400	50	905	1030	2.35	67	73	72	9910	125
5	Y	400	50	820	542	1.05	61	67	67	14000	0
6	Y	400	50	780	617	1.19	58	65	64	11760	36
7	Y	400	50	755	658	1.27	58	65	64	9845	60
8	Y	400	50	730	690	1.34	61	68	67	7940	80

Conn. = Connection · U = Supply voltage · f = Frequency · n = Speed · P_e = Power input · I = Current draw · LpA_{in} = Sound pressure level inlet side · LwA_{in} = Sound power level inlet side · LwA_{out} = Sound power level outlet side · qv = Air flow · p_{fs} = Pressure increase



Charts: Air flow 60 Hz



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: LwA measured as per ISO 13347 / LpA 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	Pe	I	LpA _{in}	LwA _{in}	LwA _{out}	qv	p _{fs}
		V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	dB(A)	m ³ /h	Pa
1	Δ	480	60	1115	1191	2.48	67	74	74	18960	0
2	Δ	480	60	1090	1438	2.71	66	73	73	16000	80
3	Δ	480	60	1075	1554	2.83	68	74	74	13990	130
4	Δ	480	60	1060	1700	2.87	71	78	77	11690	170
5	Y	480	60	930	853	1.35	63	70	69	15750	0
6	Y	480	60	860	956	1.53	60	67	66	12600	50
7	Y	480	60	825	994	1.61	60	67	66	10710	76
8	Y	480	60	780	1030	1.72	63	69	69	8695	92

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