

AC axial fan - HyBlade

sickled blades (S series)

with full square nozzle

W4D710-GE01-05 ebmpapst Datasheet

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Nominal data

Type	W4D710-GE01-05		
Motor	M4D138-LA		
Phase		3~	3~
Nominal voltage	VAC	400	400
Connection		Δ	Y
Frequency	Hz	50	50
Type of data definition		ml	ml
Valid for approval / standard		-	-
Speed	min ⁻¹	1300	980
Power input	W	2850	1790
Current draw	A	5.12	3.0
Max. back pressure	Pa	220	125
Min. ambient temperature	°C	-40	-40
Max. ambient temperature	°C	40	40
Starting current	A	19	6.5

ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit
Subject to alterations



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Technical features

Mass	41.4 kg
Size	710 mm
Surface of rotor	Cast in aluminium
Material of terminal box	PP plastic
Material of blades	Aluminium sheet insert, sprayed with PP plastic
Material of wall ring	Sheet steel, pre-galvanised and coated in black plastic (RAL 9005)
Material of guard grille	Steel, coated in black plastic (RAL9005)
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 60034-1 (2010); EN 61800-5-1
Approval	VDE; EAC

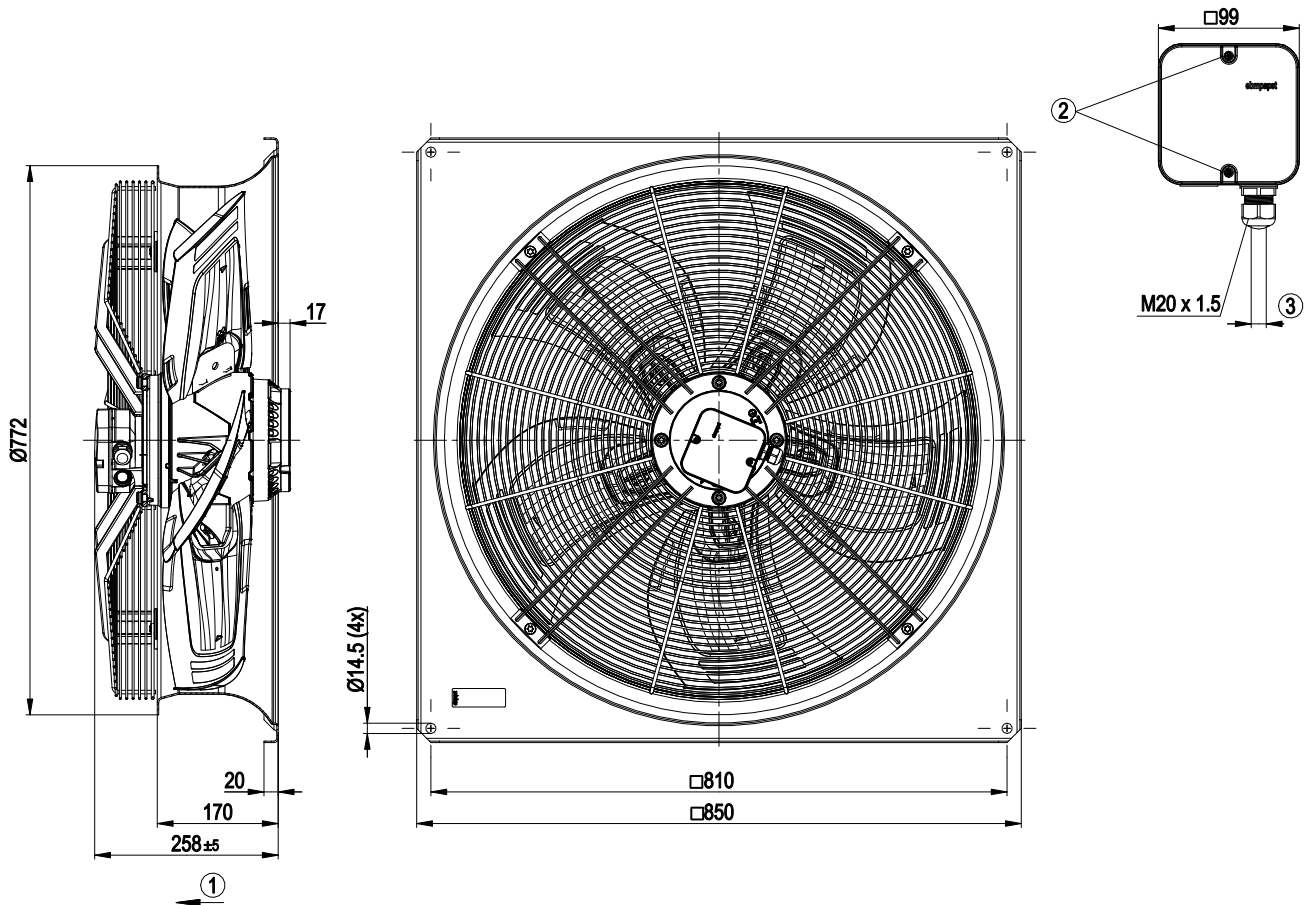


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Product drawing

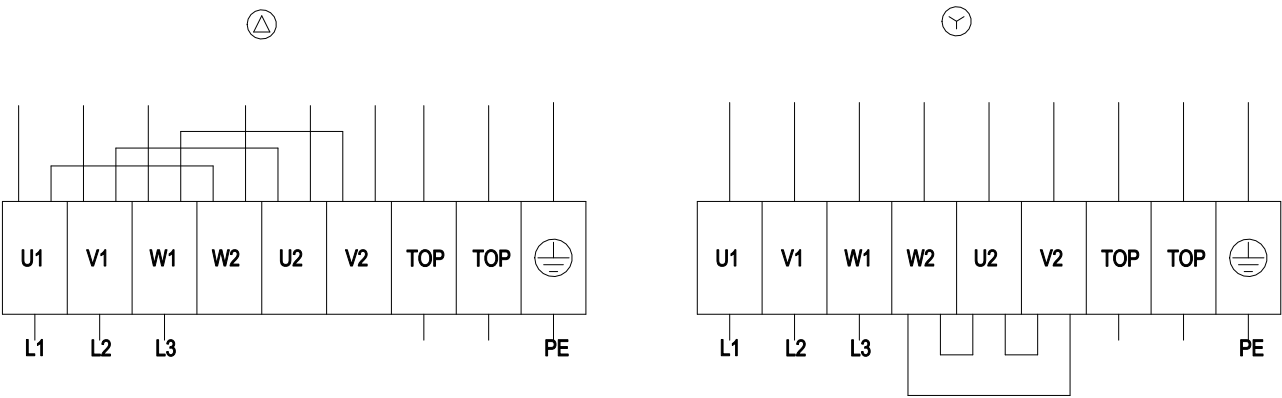


1	Direction of air flow "V"
2	Tightening torque 1.5 ± 0.2 Nm
3	Cable diameter: min. 7 mm, max. 14 mm; tightening torque: 2 ± 0.3 Nm

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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				

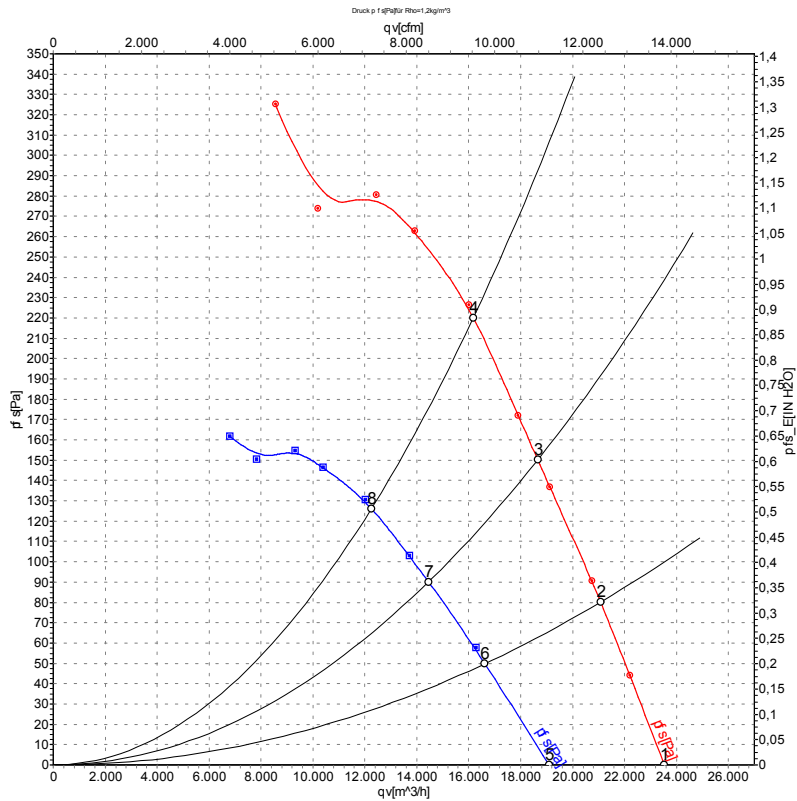


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Charts: Air flow 50 Hz



Measurement: LU-120191
Measurement: LU-120192

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	L _{pA_{in}}	L _{wA_{in}}	L _{wA_{out}}	qv	p _{fs}
		V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	dB(A)	m³/h	Pa
1	Δ	400	50	1370	2122	4.11	72	79	80	23540	0
2	Δ	400	50	1340	2413	4.50	71	78	78	21080	80
3	Δ	400	50	1320	2625	4.79	72	78	78	18660	150
4	Δ	400	50	1300	2850	5.12	75	82	81	16170	220
5	Y	400	50	1115	1495	2.56	67	74	74	19100	0
6	Y	400	50	1065	1619	2.78	65	72	72	16620	51
7	Y	400	50	1025	1709	2.94	65	72	71	14450	90
8	Y	400	50	990	1775	3.06	67	74	73	12250	127

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

