W6D800-GJ01-01

AC axial fan

sickled blades (S series)

with full square nozzle

ebm-papst Mulfingen GmbH & Co. KG
Bachmühle 2
D-74673 Mulfingen
Phone: +49(0)7938/81-0
Fax: +49(0)7938/81-110
info1@de.ebmpapst.com
www.ebmpapst.com

Nominal data

Type	**W6D800-GJ01-01**
Motor	**M6D138-LA**

Phase		3~	3~	3~
Nominal voltage	V	400	400	415
Connection		**D**	Y	**D**
Frequency	Hz	50	50	50
Type of data definition		ml	ml	ml
Valid for approval / standard		CE	CE	CE
Speed	min^{-1}	895	685	915
Power input	W	2000	1270	1690
Current draw	A	4.3	2.5	3.7
Max. back pressure	Pa	180	100	90
Max. ambient temperature	°C	60	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	800 mm
Operation mode	S1
Direction of rotation	Clockwise, seen on rotor
Mounting position	Any
Electrical leads	Via terminal box
Humidity class	F3-1
Blade angle	0°
Direction of air flow	"V"
Insulation class	"F"
Cable exit	Axial
Condensate discharge holes	On rotor and stator sides
Motor bearing	Ball bearing
Mass	43.1 kg
Material of terminal box	Plastic, fibreglass reinforced
Material of blades	Die-cast aluminum
Material of guard grille	Steel, phosphated and coated in black plastic
Material of wall ring	Sheet steel, pre-galvanized 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

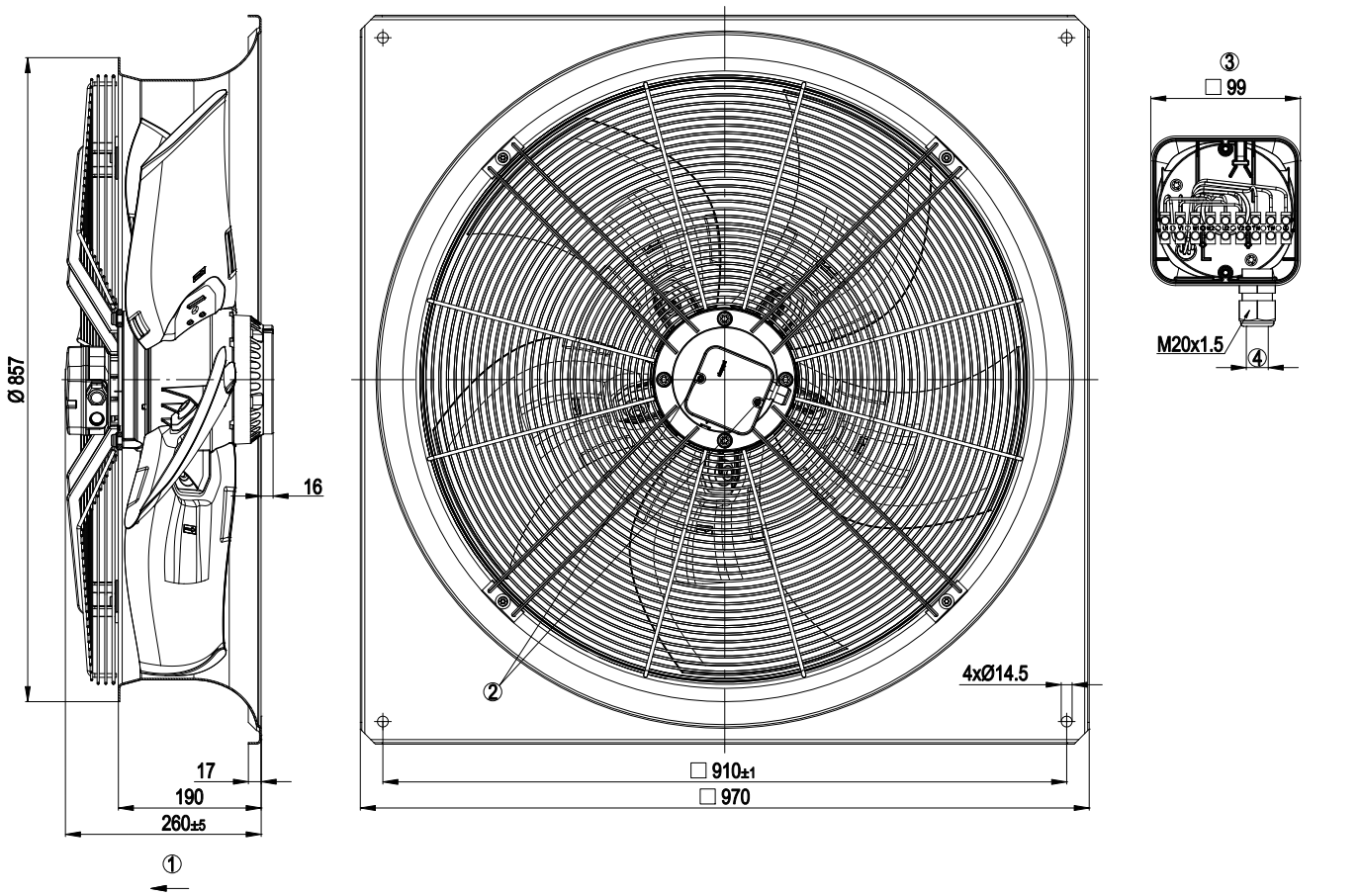
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Product drawing



1	Direction of air flow "V"
2	Tightening torque 1.5 Nm±0.2 Nm
3	Illustration without terminal box cover
4	Cable diameter min. 7 mm, max. 14 mm, tightening torque 2 Nm ±0.3 Nm

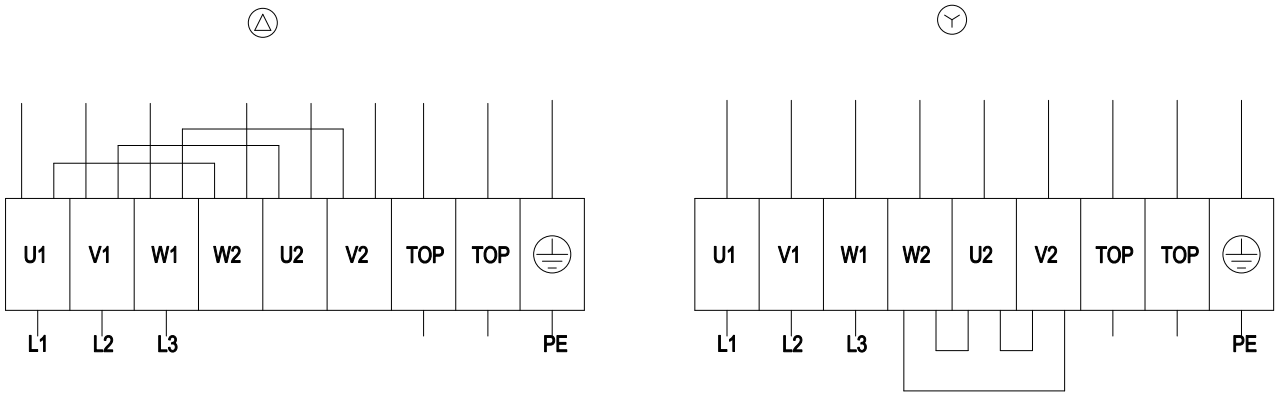
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Connection screen



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				

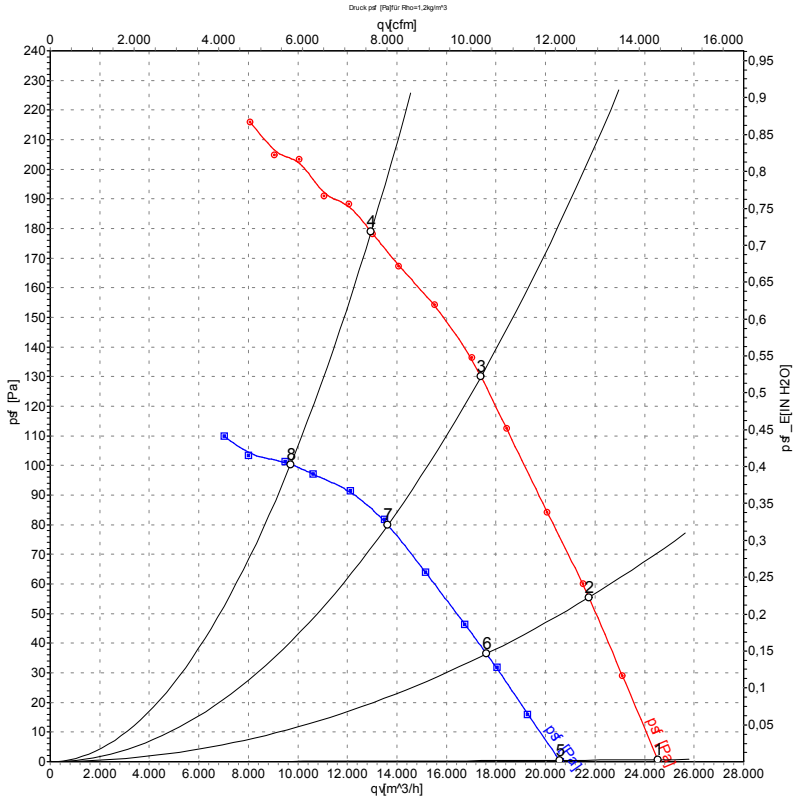
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Charts: Air flow 50 Hz



Measurement: LU-100640
Measurement: LU-100800

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_1	I	LpA_{in}	LpA_{out}	LwA_{in}	qv	p_{sf}
		V	Hz	min^{-1}	W	A	dB(A)	dB(A)	dB(A)	m^3/h	Pa
1	Δ	400	50	930	1376	3.22	67	72	73	24530	1
2	Δ	400	50	915	1561	3.41	65	67	71	21750	56
3	Δ	400	50	900	1749	3.63	66	61	72	17390	130
4	Δ	400	50	895	2000	4.30	71	66	78	12960	180
5	Y	400	50	785	1008	1.89	63	66	70	20570	0
6	Y	400	50	750	1080	2.02	61	61	68	17620	36
7	Y	400	50	705	1157	2.17	61	56	67	13630	80
8	Y	400	50	685	1270	2.50	64	60	72	9705	100

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