

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

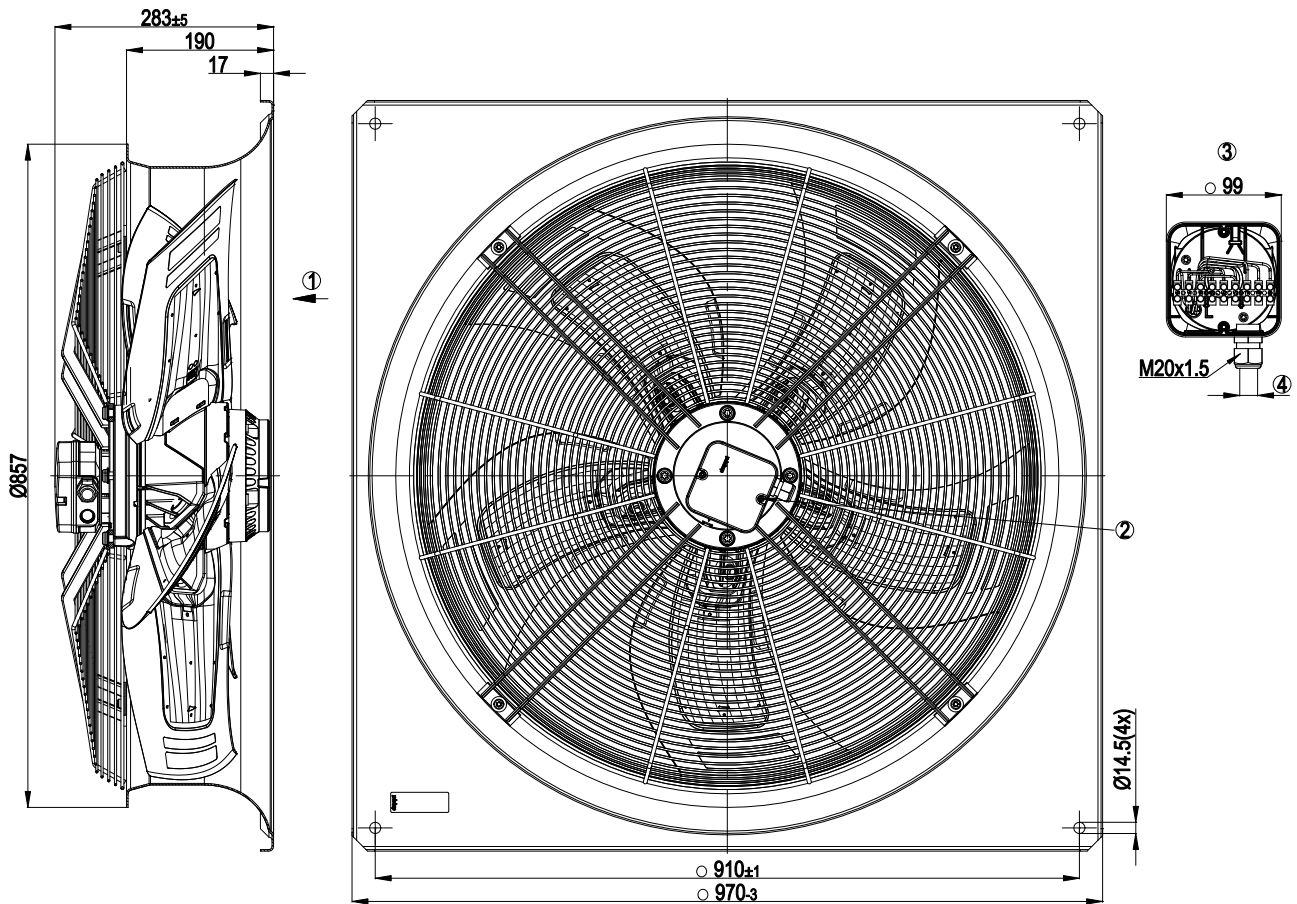
Type	W6D800-GD01-25		
Motor	M6D138-LA		
Phase		3~	3~
Nominal voltage	[V]	400	400
Connection		D	Y
Frequency	[Hz]	50	50
Type of data definition		ml	ml
Valid for approval / standard		CE	CE
Speed	[min ⁻¹]	880	670
Power input	[W]	1940	1210
Current draw	[A]	3.9	2.23
Max. back pressure	[Pa]	160	92
Max. ambient temperature	[°C]	60	60

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

Technical features

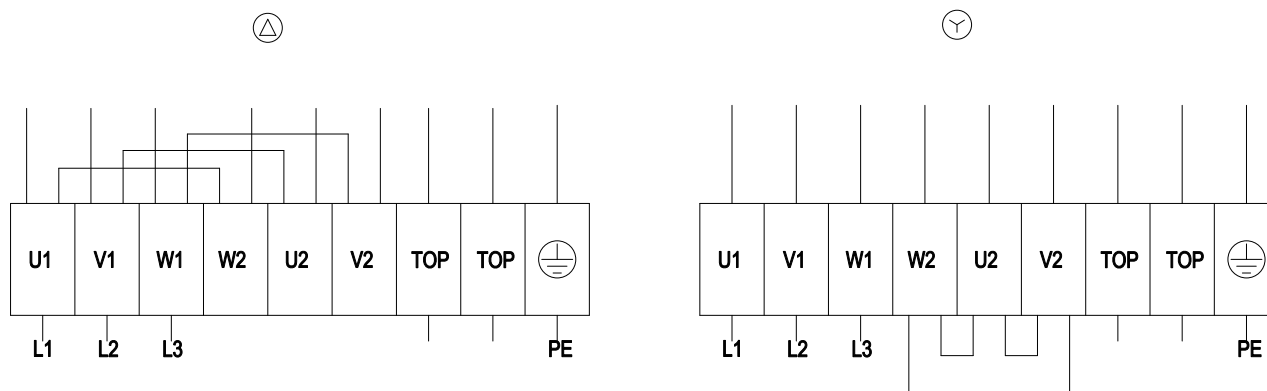
Leakage current	<= 3.5 mA
Size	800 mm
Operation mode	S1
Direction of rotation	Clockwise, seen on rotor
Mounting position	Shaft horizontal or rotor on bottom; rotor on top on request
Electrical leads	Via terminal box
Humidity class	F3-1
Blade angle	0°
Direction of air flow	"V"
Insulation class	"F"
Cable exit	Axial
Condensate discharge holes	Rotor-side
Bearing motor	Ball bearing
Mass	43.5 kg
Material of terminal box	ABS plastic, black
Material of blades	Aluminium sheet insert, sprayed with PP plastic
Material of guard grille	Steel, phosphated and coated in black plastic
Material of wall ring	Sheet steel, pre-galvanised 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 55
Protection class	I
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Approval	VDE

Product drawing



1	Direction of air flow "V"
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

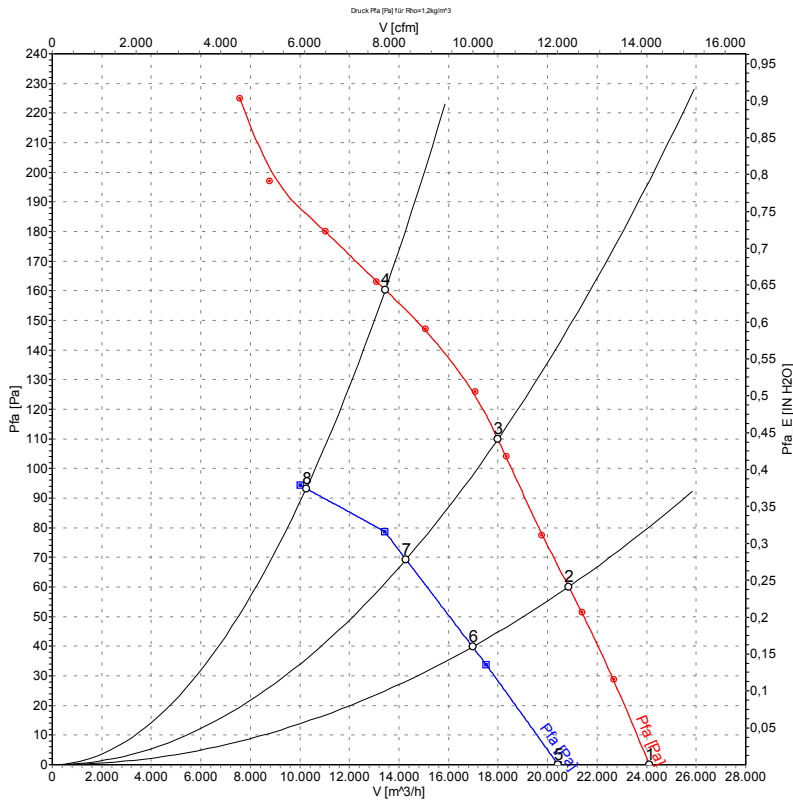
Connection screen



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				

Charts: Air flow 50 Hz



Measured values

	Conn.	U	f	n	P ₁	I	LpA _{ss}	LpA _{ds}	LwA _{ss}	LwA _{ds}	Ṃ	P _{fa}
		[V]	[Hz]	[min ⁻¹]	[W]	[A]	[dB(A)]	[dB(A)]	[dB(A)]	[dB(A)]	[m³/h]	[Pa]
1	Δ	400	50	925	1379	3.22	65	68	72	72	24110	0
2	Δ	400	50	910	1581	3.44	65	60	72	71	20850	60
3	Δ	400	50	900	1720	3.60	66	57	73	72	17990	110
4	Δ	400	50	880	1940	3.90	70	61	77	76	13450	160
5	Y	400	50	780	1002	1.84	61	64	68	67	20430	0
6	Y	400	50	740	1079	1.98	60	54	66	66	16980	40
7	Y	400	50	710	1129	2.08	60	52	67	66	14290	69
8	Y	400	50	670	1210	2.23	62	54	70	69	10250	92