

AC axial fan - HyBlade

sickle-shaped blades (S series)

with square full nozzle

W6D800-GE15-31 ebmpapst Datasheet

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Limited partnership · Headquarters Mulfingen

Amtsgericht (court of registration) Stuttgart · HRA 590344

General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen

Amtsgericht (court of registration) Stuttgart · HRB 590142

Nominal data

Type	W6D800-GE15-31		
Motor	M6D138-LA		
Phase		3~	3~
Nominal voltage	VAC	208	208
Wiring		Δ	Y
Frequency	Hz	60	60
Method of obtaining data		ml	ml
Valid for approval/standard		CE	CE
Speed (rpm)	min ⁻¹	1065	800
Power consumption	W	2120	1350
Current draw	A	8.32	5.1
Max. back pressure	Pa	140	80
Max. back pressure	inH ₂ O	0.56	0.32
Min. ambient temperature	°C	-40	-40
Max. ambient temperature	°C	60	60
Starting current	A	24.5	14

ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment
Subject to change



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Technical description

Weight	44 kg
Fan size	800 mm
Rotor surface	Cast in aluminum
Terminal box material	PP plastic
Blade material	Sheet aluminum insert, sprayed with PP plastic
Fan housing material	Sheet steel, pre-galvanized and coated with black plastic (RAL 9005)
Guard grille material	Steel, coated with black plastic (RAL 9005)
Number of blades	5
Blade pitch	-5°
Airflow direction	"V"
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP54
Insulation class	"F"
Moisture (F) / Environmental (H) protection class	F3-1
Max. permitted ambient temp. for motor (transport/storage)	+80 °C
Min. permitted ambient temp. for motor (transport/storage)	-40 °C
Installation position	Any
Condensation drainage holes	On rotor and stator sides
Mode	S1
Motor bearing	Ball bearing
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	<= 3.5 mA
Electrical hookup	Via terminal box
Motor protection	Thermal overload protector (TOP) with basic insulation
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60034-1 (2010); EN 61800-5-1; CE
Approval	CSA C22.2 No. 100; UL 1004-1; EAC

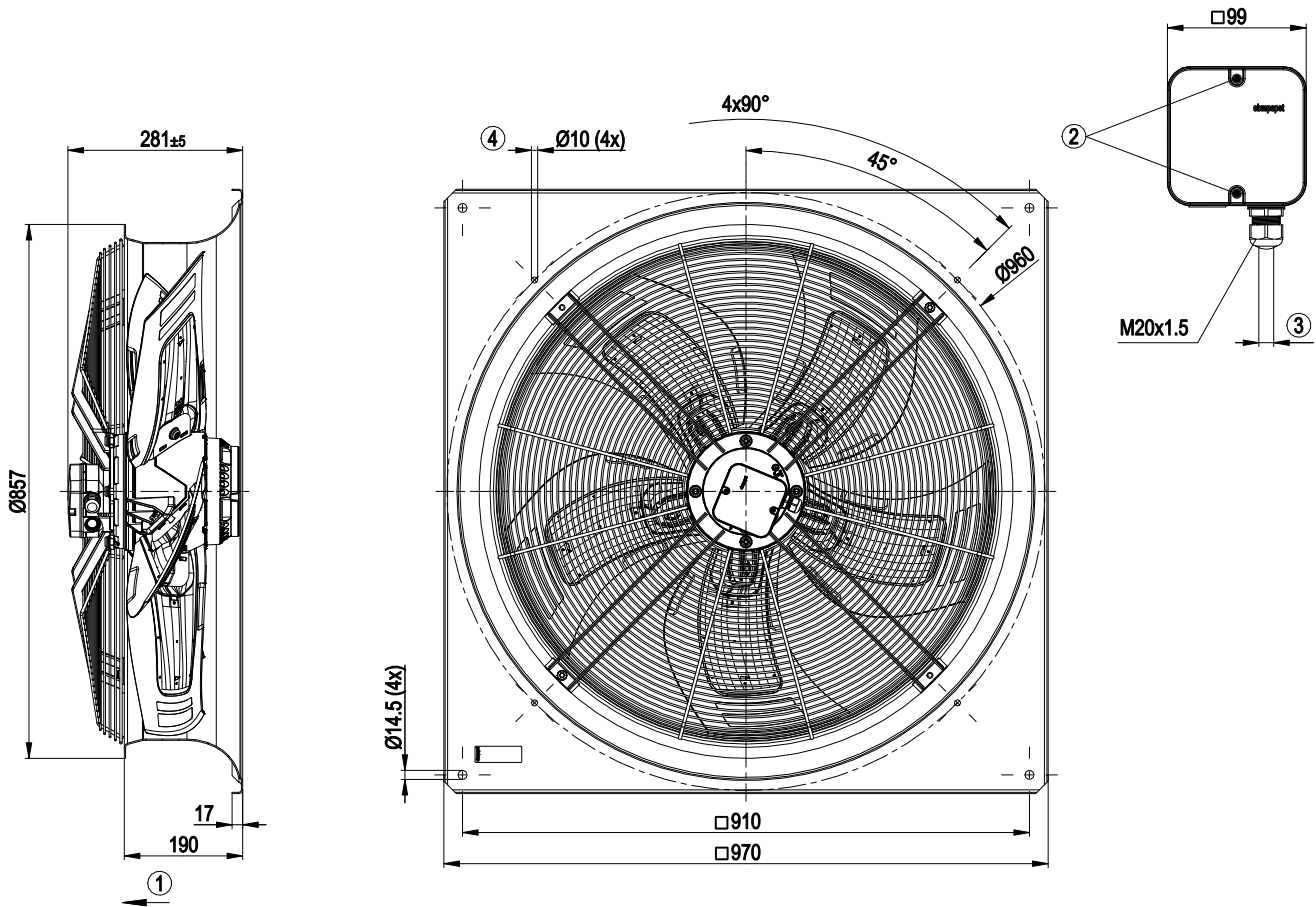


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Product drawing



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
4	Mounting holes for FlowGrid



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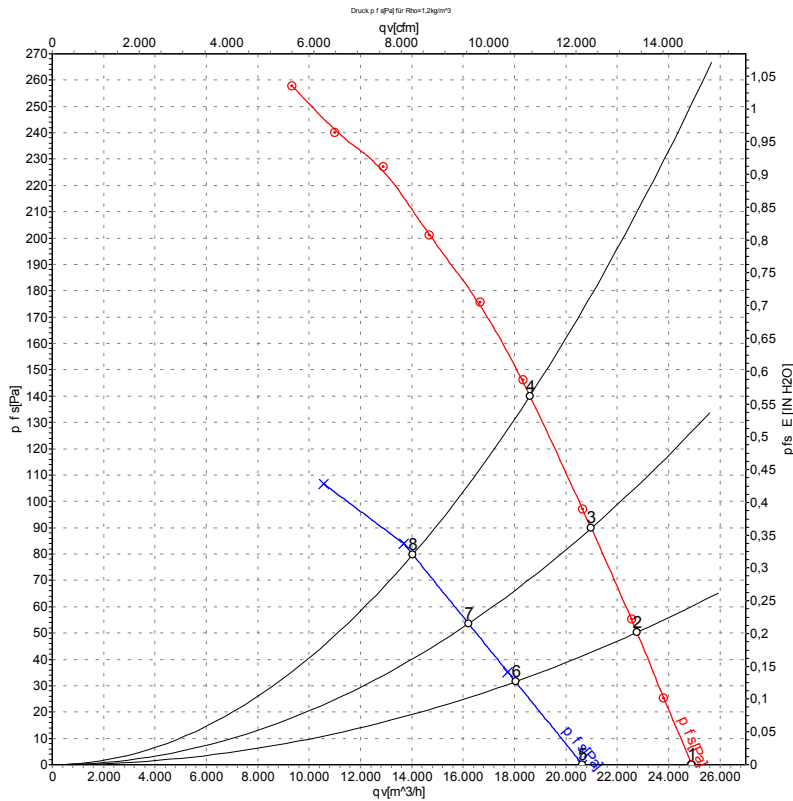
Connection diagram



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



Curves: Air performance 60 Hz



Measurement: LU-130953-1
Measurement: LU-133445-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebmpapst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters have to be checked on the installed unit.

Measured values

	Wired	U	f	n	P _e	I	LpA _{in}	LwA _{in}	LwA _{out}	q _v	P _{fs}	q _v	P _{fs}
		V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	dB(A)	m ³ /h	Pa	cfm	inH2O
1	Δ	208	60	1110	1589	6.90	70	77	78	24890	0	14650	0.00
2	Δ	208	60	1095	1803	7.42	68	75	75	22770	50	13400	0.20
3	Δ	208	60	1080	1967	7.84	67	74	74	20990	90	12355	0.36
4	Δ	208	60	1065	2120	8.32	69	76	75	18600	140	10950	0.56
5	Y	208	60	915	1121	4.10	66	73	73	20640	0	12150	0.00
6	Y	208	60	865	1204	4.43	62	69	69	18040	32	10620	0.13
7	Y	208	60	835	1246	4.61	62	69	68	16210	54	9540	0.22
8	Y	208	60	800	1350	5.10	62	69	68	14040	80	8265	0.32

Wired = Wiring · U = Power supply · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · LpA_{in} = Sound pressure level intake side · LwA_{in} = Sound power level intake side
LwA_{out} = Sound power level outlet side · q_v = Air flow · P_{fs} = Pressure increase

