

# AC axial fan - HyBlade®

sickled blades (S series)

with guard grille for short nozzle

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### Nominal data

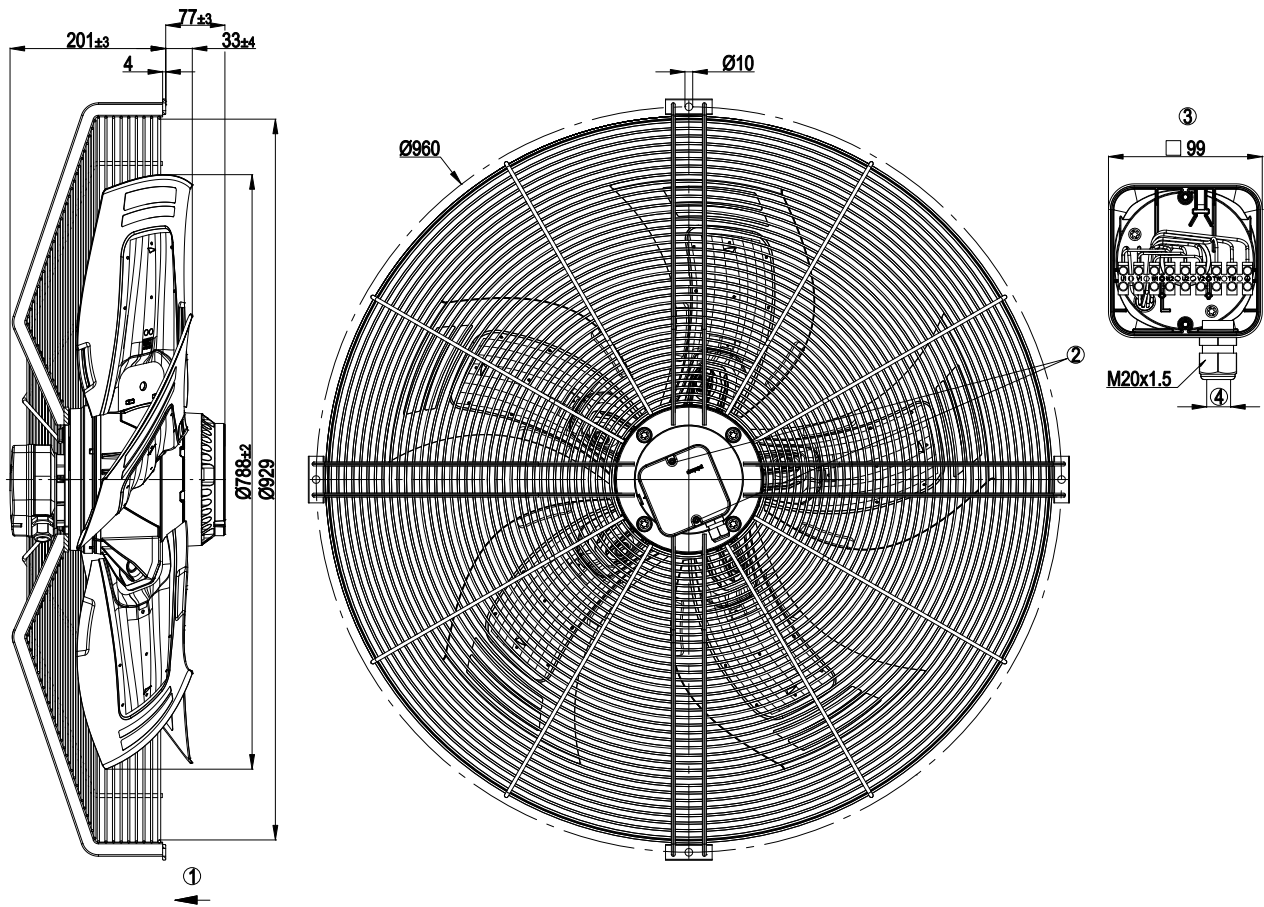
<b>Type</b>	<b>S6D800-AD01-01</b>		
<b>Motor</b>	<b>M6D138-LA</b>		
Phase		3~	3~
Nominal voltage	V	400	400
Connection		D	Y
Frequency	Hz	50	50
Type of data definition		ml	ml
Valid for approval / standard		CE	CE
Speed	min <sup>-1</sup>	880	670
Power input	W	1940	1210
Current draw	A	3.9	2.23
Max. back pressure	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

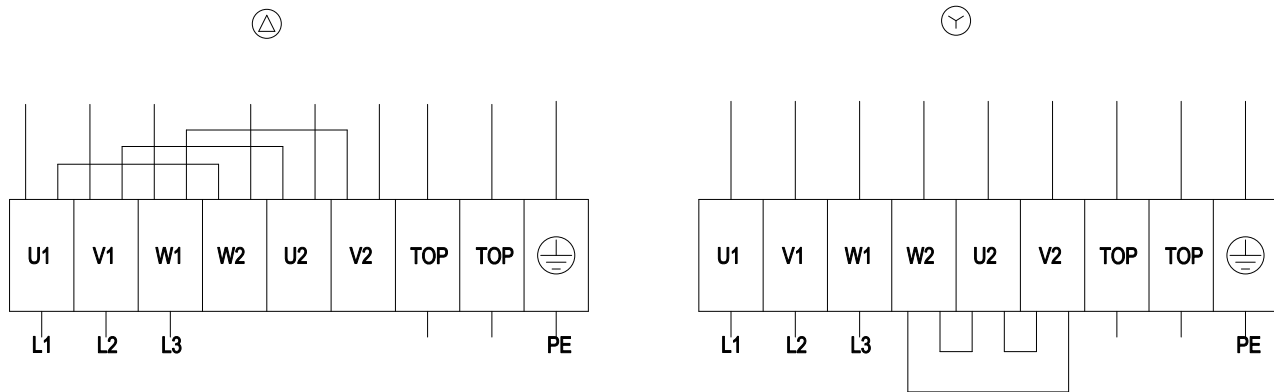
Leakage current	<= 3.5 mA
Size	800 mm
Operation mode	S1
Direction of rotation	Clockwise, seen on rotor
Mounting position	Any
Electrical leads	Via terminal box
Humidity class	F3-1
Blade angle	0°
Direction of air flow	"V"
Insulation class	"F"
Cable exit	Axial
Condensate discharge holes	On rotor and stator sides
Motor bearing	Ball bearing
Mass	30 kg
Material of terminal box	Plastic, fibreglass reinforced
Material of blades	Aluminium sheet insert, sprayed with PP plastic
Material of guard grille	Steel, phosphated 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

## Product drawing



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

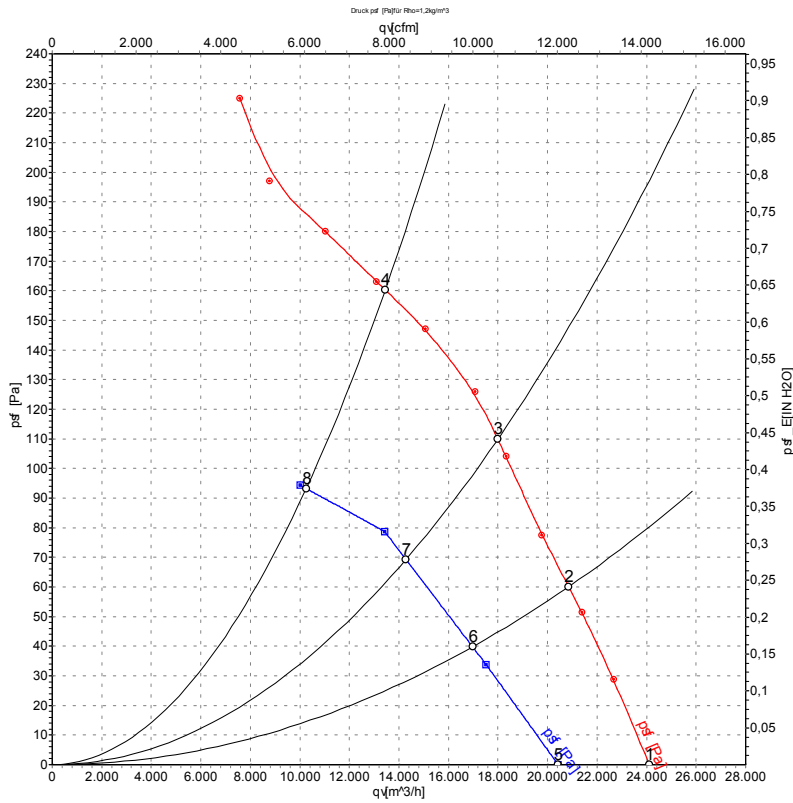
## Connection screen



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



Measurement: LU-113998  
Measurement: LU-115288

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 <sub>1</sub>	I	LpA <sub>in</sub>	LpA <sub>out</sub>	LwA <sub>in</sub>	LwA <sub>out</sub>	qv	P <sub>sf</sub>
		V	Hz	min <sup>-1</sup>	W	A	dB(A)	dB(A)	dB(A)	dB(A)	m <sup>3</sup> /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