

ASIA PACIFIC SHENGRUI LIMITED

Phone +00852 56261528

info@apacfan.com

www.apacfan.com

Limited partnership · Headquarters Mulfingen  
County court Stuttgart · HRA 590344General partner: Elektrobau Mulfingen GmbH · Headquarters Mulfingen  
County court Stuttgart · HRB 590142

## Nominal data

Type	S6D630-AN01-01						
Motor	M6D110-GF						
Phase		3~	3~	3~	3~	3~	3~
Nominal voltage	VAC	400	400	400	400	480	480
Connection		$\Delta$	Y	$\Delta$	Y	$\Delta$	Y
Frequency	Hz	50	50	60	60	60	60
Type of data definition		ml	ml	ml	ml	ml	ml
Valid for approval / standard		CE	CE	CE	CE	CE	CE
Speed	min <sup>-1</sup>	890	690	1010	700	1070	820
Power input	W	600	400	730	430	810	550
Current draw	A	1.2	0.68	1.29	0.8	1.35	0.8
Max. back pressure	Pa	105	56	50	26	55	35
Min. ambient temperature	°C	-40	-40	-40	-40	-40	-40
Max. ambient temperature	°C	65	65	60	60	55	55

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

## Data according to ErP directive

		Actual	Request 2013	Request 2015
Installation category	A			
Efficiency category	Static			
Variable speed drive integrated	No			
Specific ratio*	1,00			
Overall efficiency $\eta_{es}$		32,3	28,3	32,3
Efficiency grade N		40	36	40
Power input $P_e$	kW	0,61		
Air flow $q_v$	m <sup>3</sup> /h	7050		
Pressure increase $p_{fs}$	Pa	101		
Speed n	min <sup>-1</sup>	885		

Data established at point of optimum efficiency

\* Specific ratio =  $1 + p_b / 100\,000\text{ Pa}$ 

S6D630-AN01-01

## AC axial fan - HyBlade®

sickled blades (S series)

with guard grille for short nozzle

### Technical features

<b>Mass</b>	17.7 kg
<b>Size</b>	630 mm
<b>Surface of rotor</b>	Coated in black
<b>Material of terminal box</b>	ABS plastic, black
<b>Material of blades</b>	Press-fitted sheet steel blank, sprayed with PP plastic
<b>Material of guard grille</b>	Steel, phosphated and coated in black plastic
<b>Number of blades</b>	5
<b>Direction of air flow</b>	"V"
<b>Direction of rotation</b>	Counter-clockwise, seen on rotor
<b>Type of protection</b>	IP 54
<b>Insulation class</b>	"F"
<b>Humidity class</b>	F4-1
<b>Max. permissible ambient motor temp. (transp./ storage)</b>	+ 80 °C
<b>Min. permissible ambient motor temp. (transp./storage)</b>	- 40 °C
<b>Mounting position</b>	Shaft horizontal or rotor on bottom; rotor on top on request
<b>Condensate discharge holes</b>	Rotor-side
<b>Operation mode</b>	S1
<b>Motor bearing</b>	Ball bearing
<b>Leakage current</b>	<= 3.5 mA
<b>Electrical leads</b>	Via terminal box
<b>Motor protection</b>	Thermal overload protector (TOP) brought out
<b>Cable exit</b>	Axial
<b>Protection class</b>	I (if protective earth is connected by customer)
<b>Product conforming to standard</b>	EN 61800-5-1; CE
<b>Approval</b>	VDE



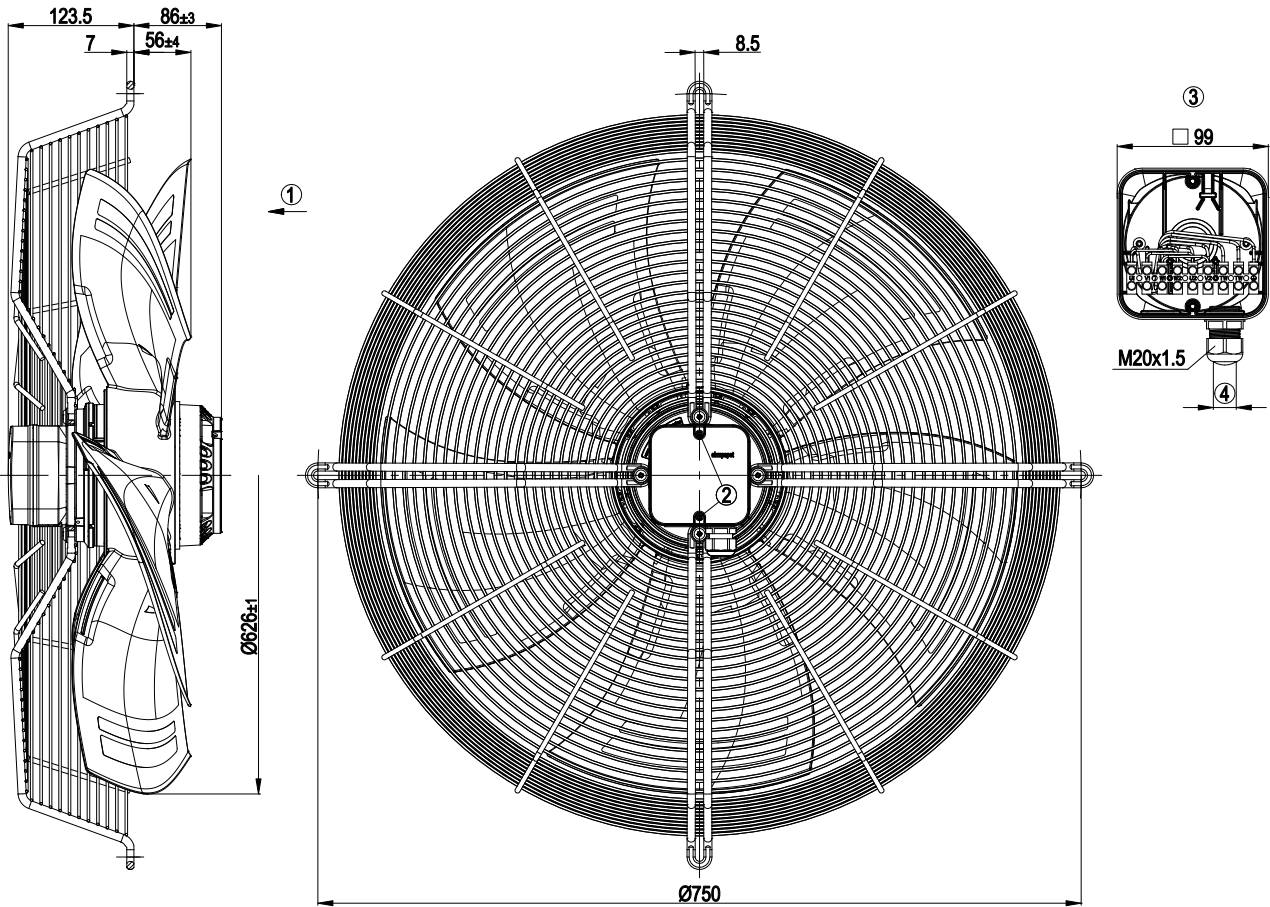
S6D630-AN01-01

# AC axial fan - HyBlade®

sickled blades (S series)

with guard grille for short nozzle

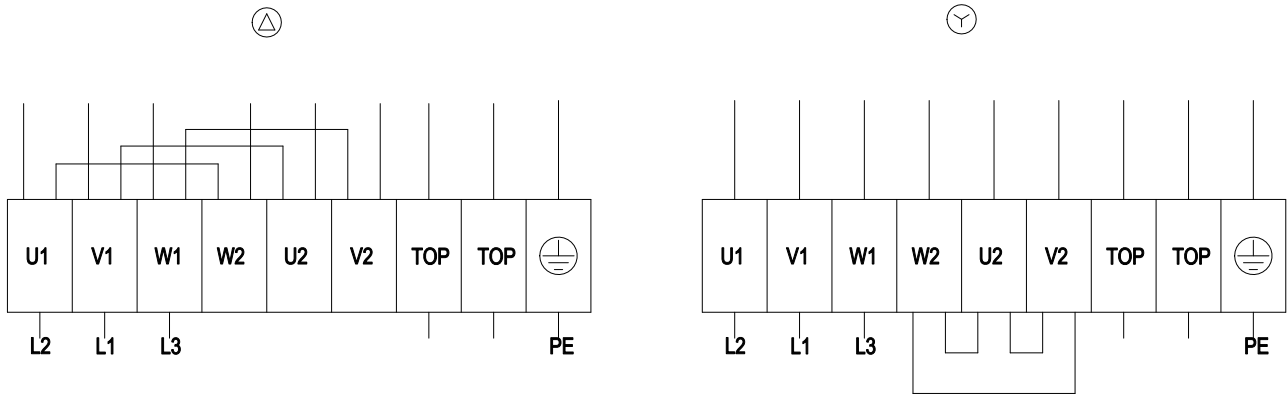
## Product drawing



- |   |  |
|---|--|
| 1 | Direction of air flow "V"  |
| 2 | Tightening torque $0.8 \pm 0.15$ Nm                                      |
| 3 | Illustration without terminal box cover                                  |
| 4 | Cable diameter: min. 6 mm, max. 12 mm; tightening torque: $2 \pm 0.3$ Nm |

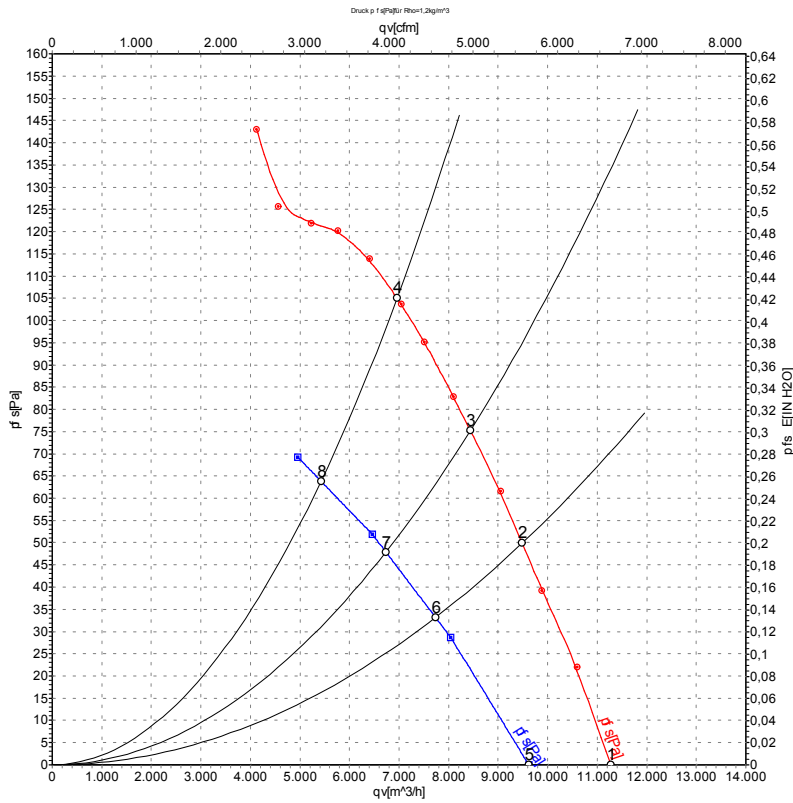


## Connection screen



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

## Charts: Air flow 50 Hz



Measurement: LU-105365  
Measurement: LU-107570

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>e</sub>	I	LpA <sub>in</sub>	LwA <sub>in</sub>	LwA <sub>out</sub>	qv	p <sub>fs</sub>
		V	Hz	min <sup>-1</sup>	W	A	dB(A)	dB(A)	dB(A)	m³/h	Pa
1	Δ	400	50	930	439	1.07	64	70	69	11270	0
2	Δ	400	50	905	530	1.15	59	66	65	9485	50
3	Δ	400	50	895	571	1.19	59	65	64	8440	75
4	Δ	400	50	890	600	1.20	60	67	66	6960	105
5	Y	400	50	790	319	0.56	59	65	65	9620	0
6	Y	400	50	730	364	0.63	55	61	60	7735	33
7	Y	400	50	705	383	0.66	54	60	59	6735	48
8	Y	400	50	690	400	0.68	55	61	61	5425	64