

# AC axial fan

sickled blades (S series), single inlet  
with full round nozzle

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## Nominal data

<b>Type</b>	<b>W4E400-CP14-70</b>		
<b>Motor</b>	<b>M4E074-EI</b>		
Phase		1~	1~
Nominal voltage	VAC	115	115
Frequency	Hz	60	60
Type of data definition		fa	fa
Valid for approval / standard		CE	UL 2111
Speed	min <sup>-1</sup>	1680	1680
Power input	W	250	270
Current draw	A	2.19	
Motor capacitor	µF	20	20
Capacitor voltage	VDB	220	220
Max. back pressure	Pa	75	75
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	30	30

ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit  
Subject to alterations



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## Technical features

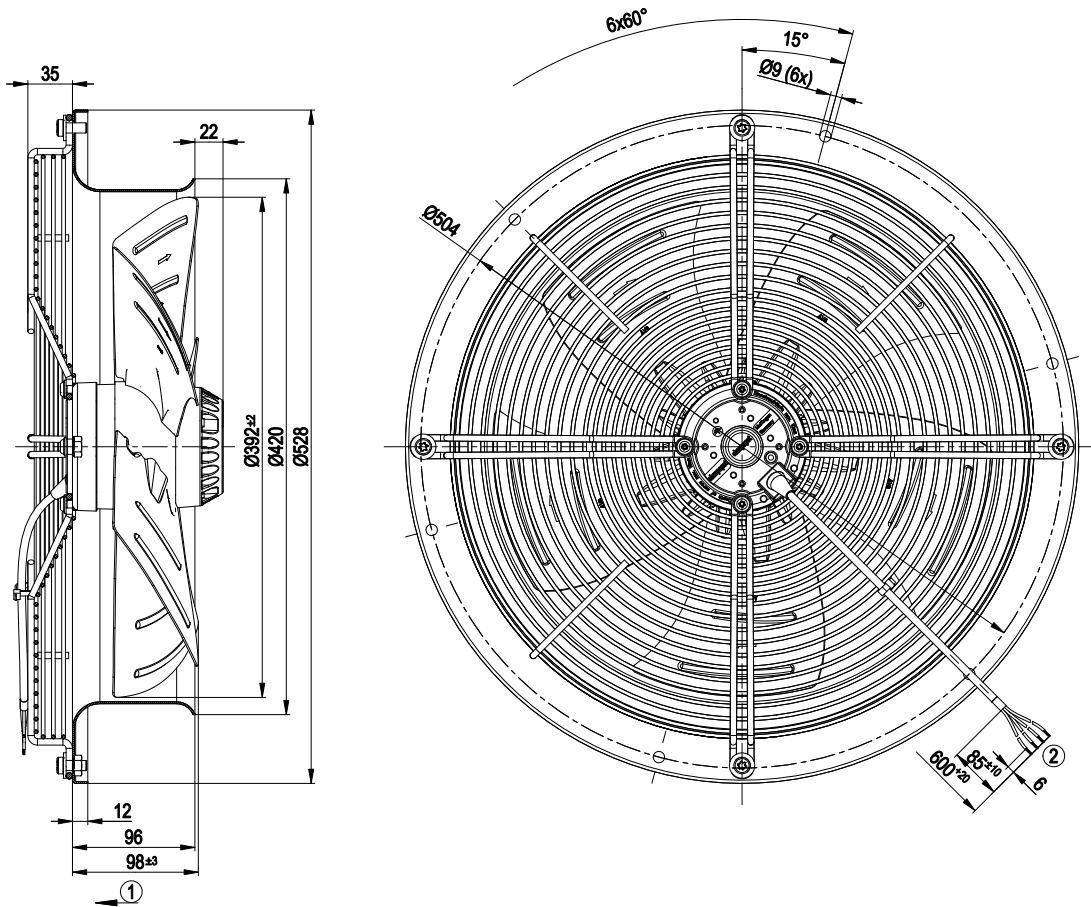
<b>Mass</b>	8.17 kg
<b>Size</b>	400 mm
<b>Surface of rotor</b>	Coated in black
<b>Material of impeller</b>	Sheet steel, coated in black
<b>Material of wall ring</b>	Sheet steel, galvanised and coated in black plastic (RAL 9005)
<b>Material of guard grille</b>	Steel, coated in black plastic (RAL9005)
<b>Direction of air flow</b>	"V"
<b>Direction of rotation</b>	Counter-clockwise, seen on rotor
<b>Type of protection</b>	IP 44; Depending on installation and position as per EN 60034-5
<b>Insulation class</b>	"B"
<b>Humidity class</b>	F1-2
<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>Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)</b>	< 0.75 mA
<b>Motor protection</b>	Thermal overload protector (TOP) wired internally
<b>Cable exit</b>	Variable
<b>Protection class</b>	I (if protective earth is connected by customer)
<b>Product conforming to standard</b>	EN 60335-1; CE
<b>Approval</b>	UL 2111; CSA C22.2 Nr.77



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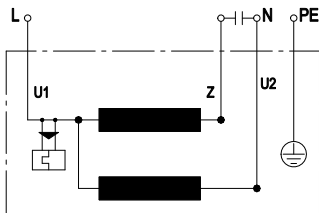
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## Product drawing



- 1 Direction of air flow "V"
- 2 Connection line PVC AWG20, 4x lead tips crimped

## Connection screen



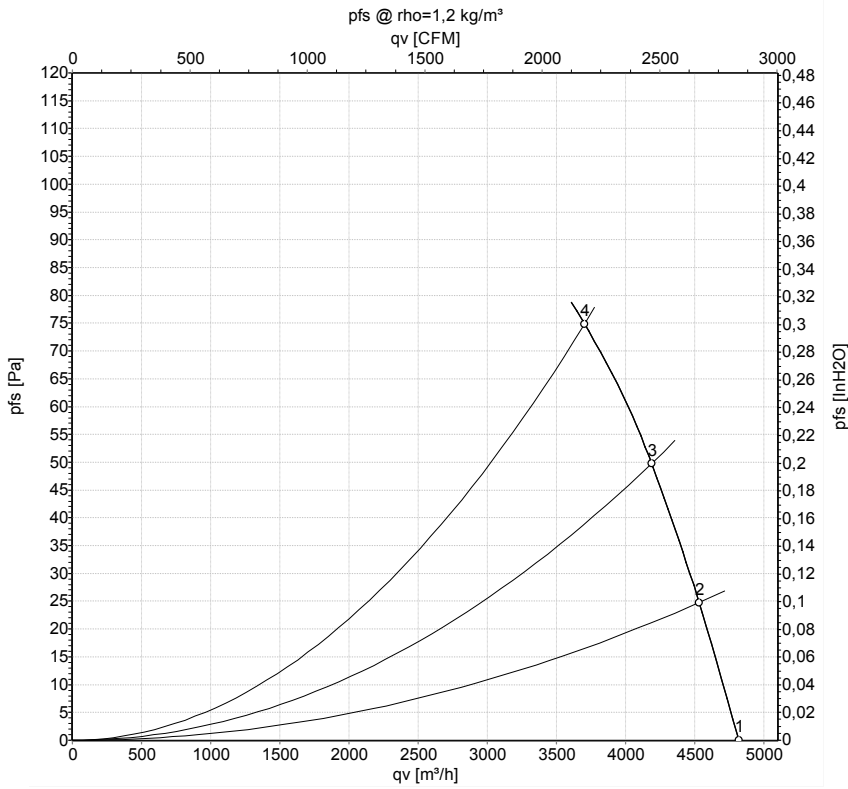
U1	blue	Z	brown	U2	black
PE	green/yellow				



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## Charts: Air flow 60 Hz



Measurement: LU-33656

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: L<sub>wA</sub> measured as per ISO 13347 / L<sub>pA</sub> 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

	U	f	n	P <sub>e</sub>	I	qv	p <sub>fs</sub>
	V	Hz	min <sup>-1</sup>	W	A	m <sup>3</sup> /h	Pa
1	115	60	1680	250	2.19	4820	0
2	115	60	1660	264	2.30	4530	25
3	115	60	1630	279	2.43	4190	50
4	115	60	1580	297	2.61	3705	75

U = Supply voltage · f = Frequency · n = Speed · P<sub>e</sub> = Power input · I = Current draw · qv = Air flow · p<sub>fs</sub> = Pressure increase

