

S4E400-AP14-92

# AC axial fan

sickle-shaped blades (S series)  
with guard grille for short nozzle



S4E400-AP14-92 ebmpapst Datasheet

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## Nominal data

<b>Type</b>	<b>S4E400-AP14-92</b>		
<b>Motor</b>	<b>M4E074-EI</b>		
Phase		1~	1~
Nominal voltage	VAC	115	115
Frequency	Hz	60	60
Method of obtaining data		fa	ml
Valid for approval/standard		UL 1004-3	CE
Speed (rpm)	min <sup>-1</sup>	1680	1600
Power consumption	W	270	280
Current draw	A	2.35	2.45
Capacitor	µF	20	20
Capacitor voltage	VDB	220	220
Capacitor standard		UL	S0 (CE)
Max. back pressure	Pa	75	75
Max. back pressure	in. wg	0.3	0.3
Min. ambient temperature	°C	-40	-40
Max. ambient temperature	°C	20	20
Starting current	A	4.1	3.9

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

## Data according to Commission Regulation (EU) 327/2011 (EN 17166)

		Actual	Req. 2015			
01 Overall efficiency $\eta_{es}$	%	30.3	30.3	09 Power consumption $P_e$	kW	0.29
02 Measurement category		A		09 Air flow $q_v$	m <sup>3</sup> /h	3200
03 Efficiency category		Static		09 Pressure increase $p_{fs}$	Pa	106
04 Efficiency grade N		40	40	10 Speed (rpm) n	min <sup>-1</sup>	1535
05 Variable speed drive		No		11 Specific ratio*		1.00

Data obtained at optimum efficiency level.  
The ErP data is determined using a motor-impeller combination in a standardized measurement setup.

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

LU-193012



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## Technical description

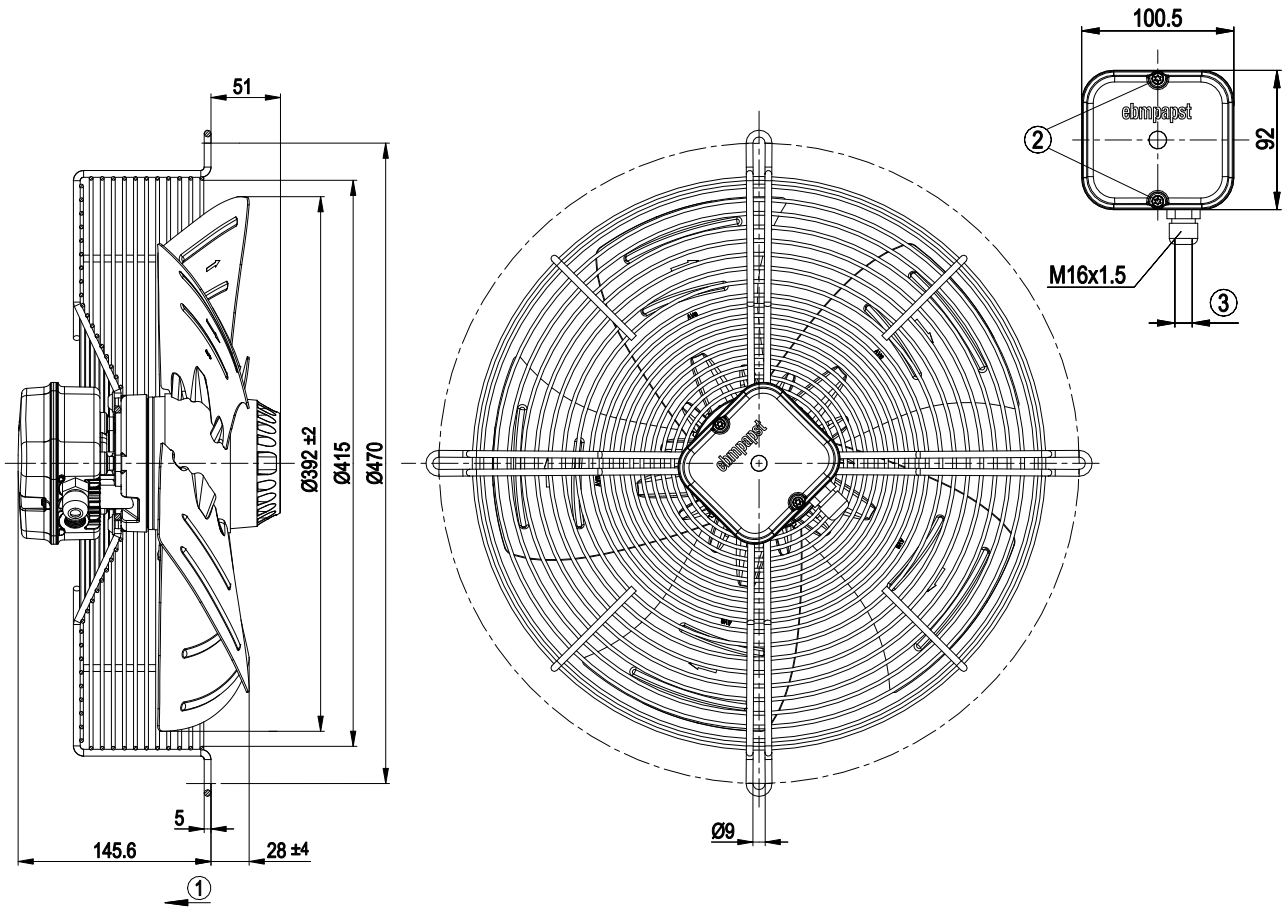
Weight	6 kg
Size	400 mm
Motor size	74
Rotor surface	Painted black
Terminal box material	PP plastic
Blade material	Sheet steel, painted black
Guard grille material	Steel, coated with black plastic (RAL 9005)
Number of blades	5
Airflow direction	V
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP44; installation- and position-dependent as per EN 60034-5
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	H1
Max. permitted ambient temp. for motor (transport/storage)	+ 70 °C
Min. permitted ambient temp. for motor (transport/storage)	- 40 °C
Installation position	Shaft horizontal or rotor on bottom; rotor on top on request
Condensation drainage holes	On rotor side
Mode	S1
Motor bearing	Ball bearing with low-temperature lubricant
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	< 0.75 mA
Electrical hookup	Terminal box; Capacitor integrated and connected
Motor protection	Thermal overload protector (TOP) internally connected
With cable	Variable
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60034-1; EN 60204-1; EN 60335-1; CE
Approval	CSA C22.2 No. 77; UL 1004-3



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## Product drawing



1	Airflow direction "V"
2	Tightening torque 1.5 ± 0.2 Nm
3	Cable diameter max. 7.5 mm, tightening torque 1.3 ± 0.2 Nm

## Connection diagram



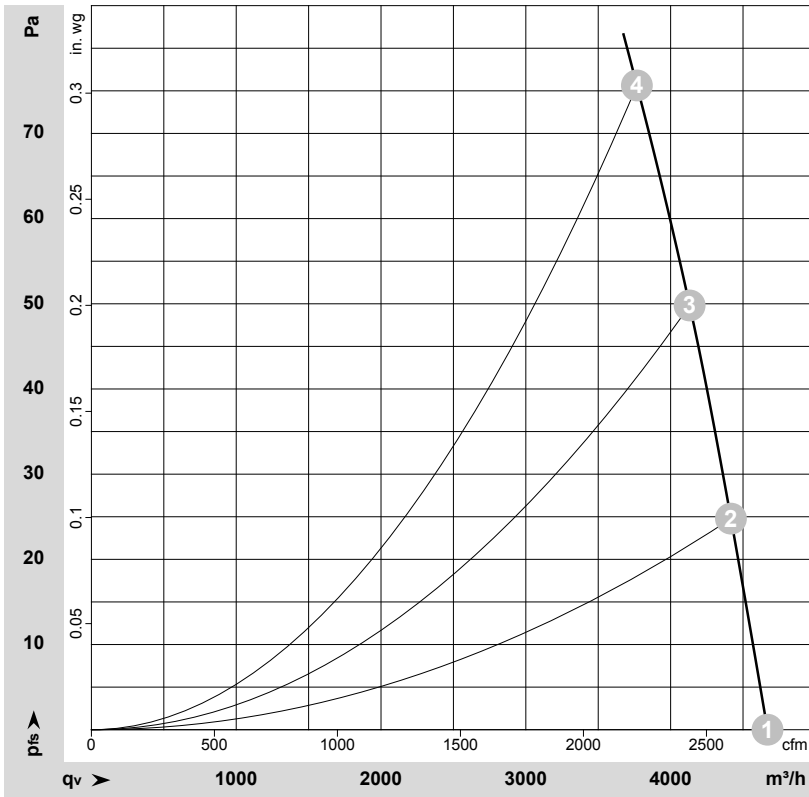
L	= U1 = blue	Z	brown	N	= U2 = black
PE	green/yellow				



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## Curves: Air performance 60 Hz



$\rho = 1.15 \text{ kg/m}^3 \pm 2 \%$

Measurement: LU-193012-1

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 <sub>e</sub>	I	q <sub>v</sub>	p <sub>fs</sub>	q <sub>v</sub>	p <sub>fs</sub>
		V	Hz	min <sup>-1</sup>	W	A	m <sup>3</sup> /h	Pa	cfm	in. wg
1	1~	115	60	1650	240	2.10	4670	0	2750	0.00
2	1~	115	60	1635	254	2.22	4415	25	2600	0.10
3	1~	115	60	1610	266	2.32	4130	50	2430	0.20
4	1~	115	60	1600	280	2.45	3765	75	2215	0.30

Wired = Wiring · U = Voltage · f = Frequency · n = Speed (rpm) · P<sub>e</sub> = Power consumption · I = Current draw · q<sub>v</sub> = Air flow · p<sub>fs</sub> = Pressure increase

