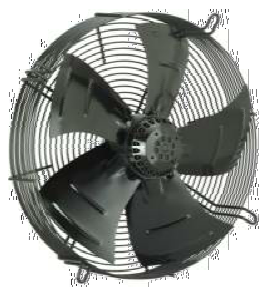


S4E400-AP02-50

AC axial fan

sickled blades (S series), single inlet
with guard grille for short nozzle



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County court Stuttgart · HRB 590142



Nominal data

Type	S4E400-AP02-50		
Motor	M4E074-EI		
Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50	60
Type of data definition		fa	fa
Valid for approval / standard		CE	CE
Speed	min ⁻¹	1430	1700
Power input	W	160	240
Current draw	A	0.73	1.06
Motor capacitor	µF	6	6
Capacitor voltage	VDB	400	400
Max. back pressure	Pa	150	75
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	40	40
Starting current	A	2.0	1.9

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

Installation category	A
Efficiency category	Static
Variable speed drive	No
Specific ratio*	1.00

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

		Actual	Request 2013	Request 2015
Overall efficiency η_{es}	%	31.9	25.3	29.3
Efficiency grade N		42.6	36	40
Power input P_e	kW	0.2		
Air flow q_v	m ³ /h	2675		
Pressure increase p_{fs}	Pa	90		
Speed n	min ⁻¹	1390		

Data definition with optimum efficiency.

The ErP data is determined using a motor-impeller combination in a standardised measurement configuration.

LU-30924



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AC axial fan

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Technical features

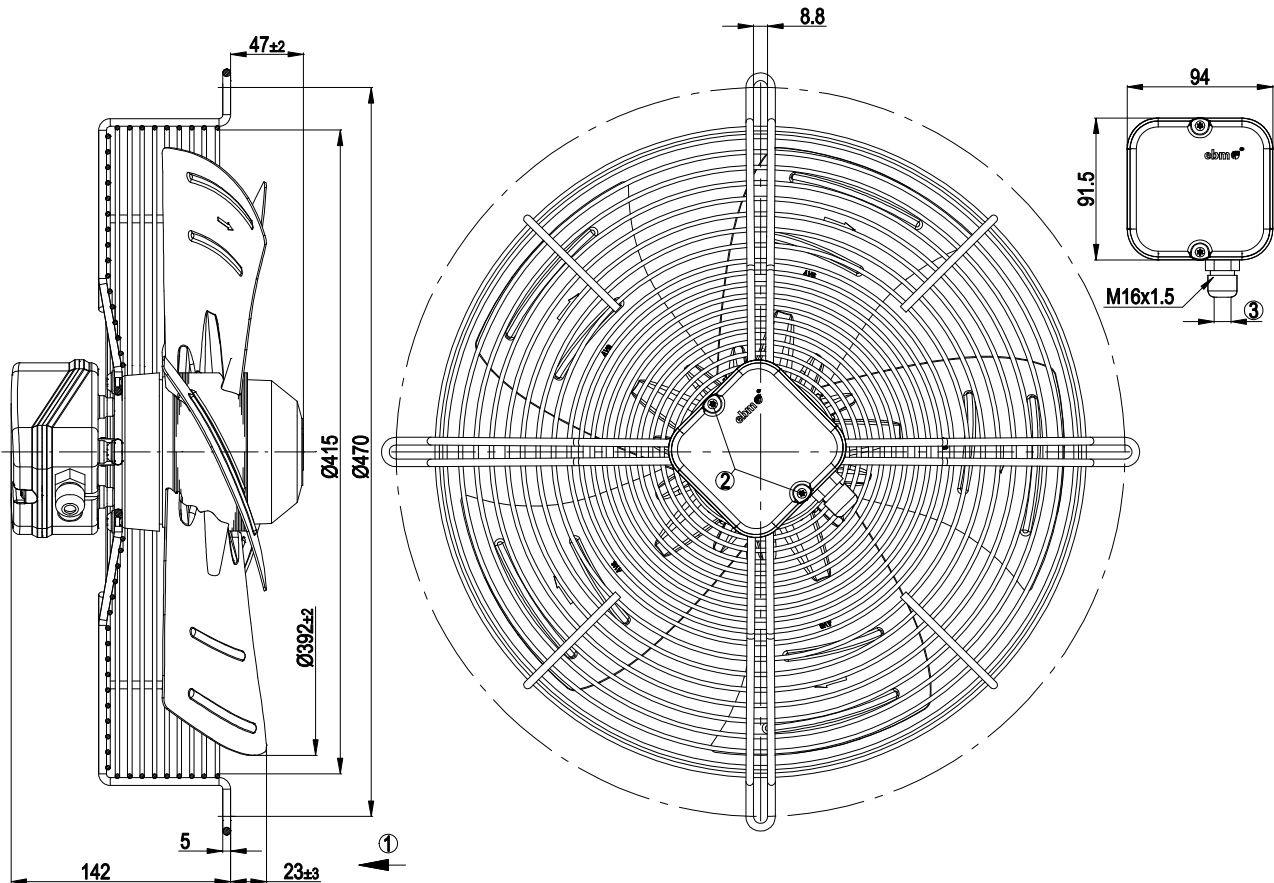
Mass	5.6 kg
Size	400 mm
Surface of rotor	Coated in black
Material of blades	Sheet steel, coated in black
Material of guard grille	Steel, phosphated and coated in black plastic
Number of blades	5
Direction of rotation	"V"
Type of protection	IP 44; Depending on installation and position as per EN 60034-5
Insulation class	"B"
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Shaft horizontal or rotor on bottom; rotor on top on request
Condensate discharge holes	Rotor-side
Operation mode	S1
Motor bearing	Ball bearing
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	< 0.75 mA
Electrical leads	Via terminal box, integrated capacitor connected via terminal box
Motor protection	Thermal overload protector (TOP) wired internally
Cable exit	Variable
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1; CE
Approval	CCC



AC axial fan

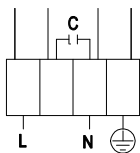
sickled blades (S series), single inlet
with guard grille for short nozzle

Product drawing



- | | |
|---|--|
| 1 | Direction of air flow "V" |
| 2 | Tightening torque 0.7 ± 0.2 Nm |
| 3 | Cable diameter: max. 7.5 mm; tightening torque 2Nm |

Connection screen



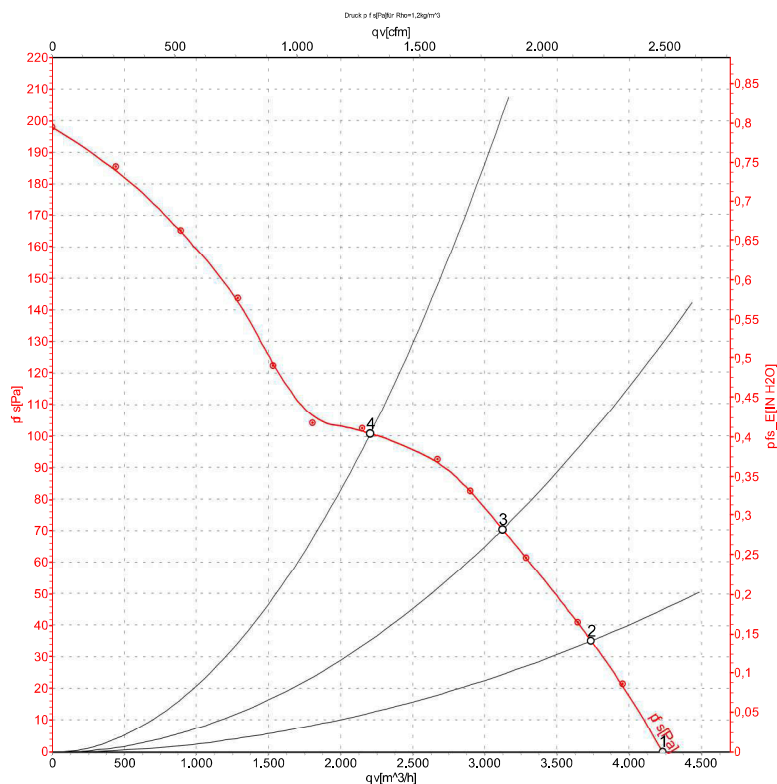
L	= U1 = blue	Z	brown	N	= U2 = black
PE	green/yellow				



AC axial fan

sickled blades (S series), single inlet
with guard grille for short nozzle

Charts: Air flow 50 Hz



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_{WA} measured as per ISO 13347 / L_{pA} 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

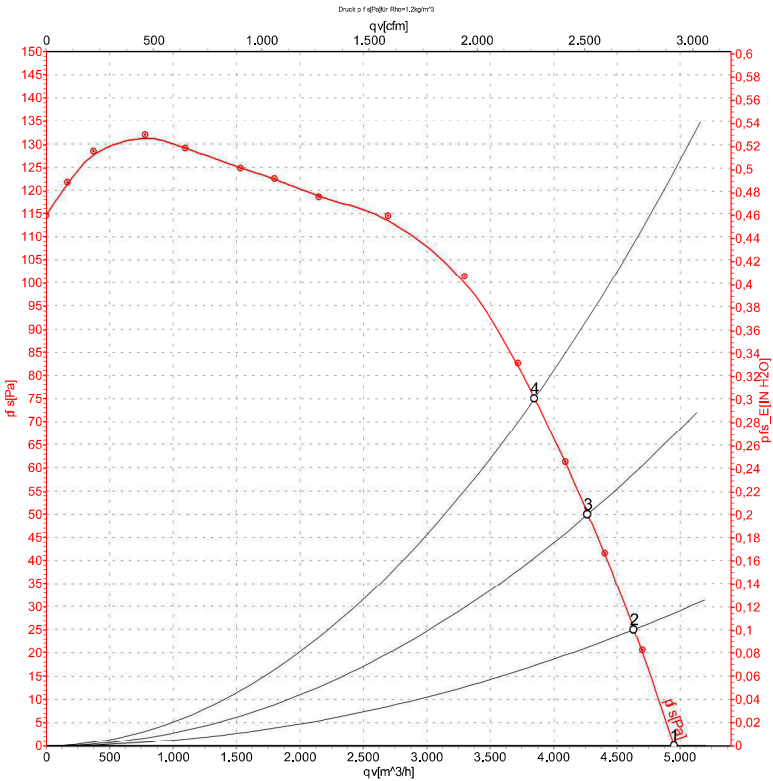
	U	f	n	P _e	I	LpA _{in}	LwA _{in}	qv	p _{fs}
	V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	m ³ /h	Pa
1	230	50	1430	160	0.73	67	74	4235	0
2	230	50	1425	180	0.81	67	74	3740	35
3	230	50	1405	198	0.88	65	73	3125	70
4	230	50	1380	219	0.97	67	74	2205	100

U = Supply voltage · f = Frequency · n = Speed · P_g = Power input · I = Current draw · LpA_{in} = Sound pressure level inlet side · LwA_{in} = Sound power level inlet side · qv = Air flow
p_{tc} = Pressure increase



AC axial fan
sickled blades (S series), single inlet
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Charts: Air flow 60 Hz



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

	U	f	n	P _e	I	LpA _{in}	LwA _{in}	qv	P _{fs}
	V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	m³/h	Pa
1	230	60	1700	240	1.06	71	78	4950	0
2	230	60	1675	255	1.13	71	77	4635	25
3	230	60	1645	271	1.19	70	77	4270	50
4	230	60	1620	286	1.25	70	76	3850	75

U = Supply voltage · f = Frequency · n = Speed · P_e = Power input · I = Current draw · LpA_{in} = Sound pressure level inlet side · LwA_{in} = Sound power level inlet side · qv = Air flow
P_{fs} = Pressure increase

