

AC axial fan

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



S4E350-AP12-68 ebmpapst Datasheet
sales@fansco.com
www.fansco.com



Nominal data

Type	S4E350-AP12-68	
Motor	M4E074-DF	
Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50
Type of data definition		fa
Valid for approval / standard		CE
Speed	min ⁻¹	1400
Power input	W	140
Current draw	A	0.62
Motor capacitor	μF	5
Capacitor voltage	VDB	400
Capacitor standard		P0 (CE)
Max. back pressure	Pa	80
Max. ambient temperature	°C	70

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}	26.4	24.6	28.6
Efficiency grade N	37.8	36	40
Power input P_e	kW	0.16	
Air flow q_v	m ³ /h	2210	
Pressure increase p_{fs}	Pa	70	
Speed n	min ⁻¹	1345	

Data established at point of optimum efficiency



AC axial fan

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

Technical features

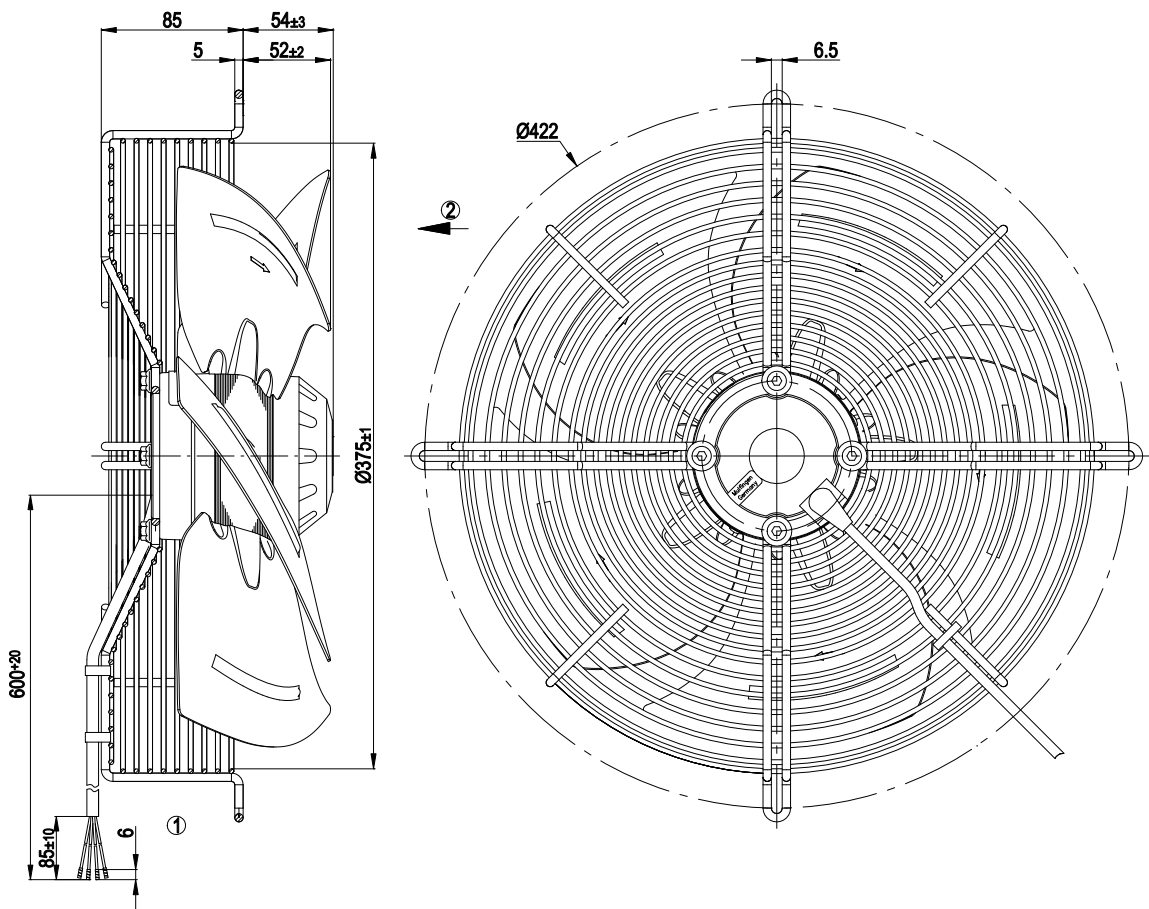
Mass	5 kg
Size	350 mm
Surface of rotor	Coated in black
Material of blades	Aluminium sheet, coated in black
Material of guard grille	Steel, phosphated and coated in black plastic
Number of blades	5
Direction of air flow	"V"
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP 44; Depending on installation and position as per EN 60034-5
Insulation class	"F"
Humidity class	F1-2
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
Operation mode	S1
Motor bearing	Ball bearing
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	< 0.75 mA
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



AC axial fan

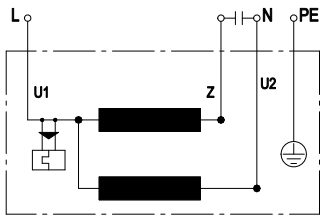
sickled blades (S series), single inlet
with guard grille for short nozzle

Product drawing



- | | |
|---|---|
| 1 | Connection line silicone 4G 0.5 mm ² , 4 x brass lead tips crimped |
| 2 | Direction of air flow "V" |

Connection screen

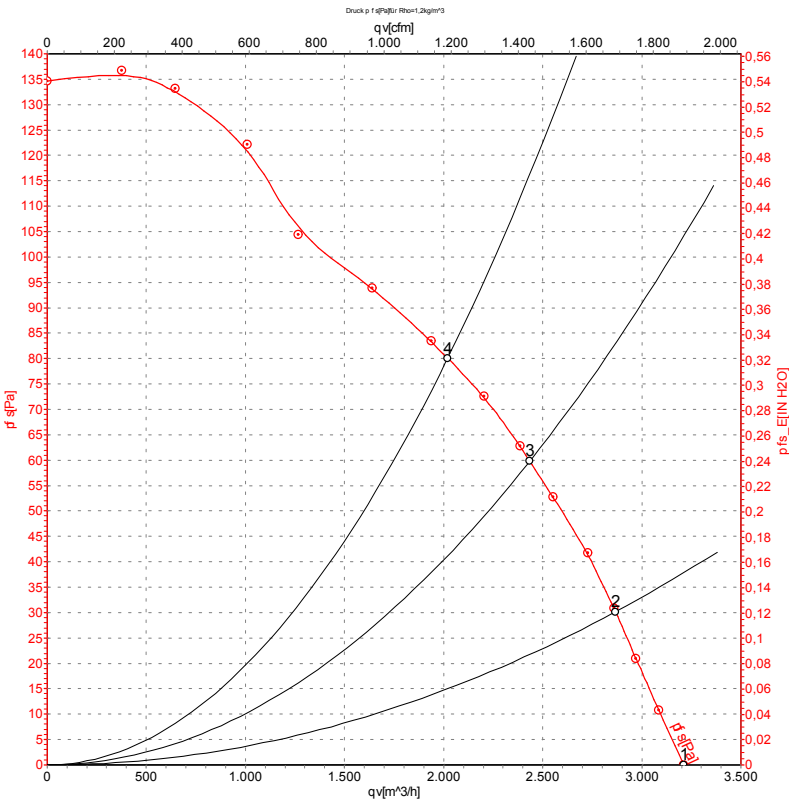


U1	blue	Z	brown	U2	black
PE	green/yellow				



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

Charts: Air flow 50 Hz



Measurement: LU-33844

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	qv	p _{fs}
	V	Hz	min ⁻¹	W	A	m³/h	Pa
1	230	50	1400	140	0.62	3210	0
2	230	50	1380	146	0.64	2865	30
3	230	50	1360	156	0.68	2435	60
4	230	50	1335	165	0.72	2020	80

U = Supply voltage · f = Frequency · n = Speed · P_e = Power input · I = Current draw · qv = Air flow · p_{fs} = Pressure increase

