S4E350-AP12-68

AC axial fan

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



ebm-papst Mulfingen GmbH & Co. KG
Bachmühle 2 · D-74673 Mulfingen
Phone +49 7938 81-0
Fax +49 7938 81-110
info1@de.ebmpapst.com
www.ebmpapst.com

Limited partnership · Headquarters Mulfingen
County court Stuttgart · HRA 590344

General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen
County court Stuttgart · HRB 590142

ErP2013 EXCEEDS THE NORM

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 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

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Technical features

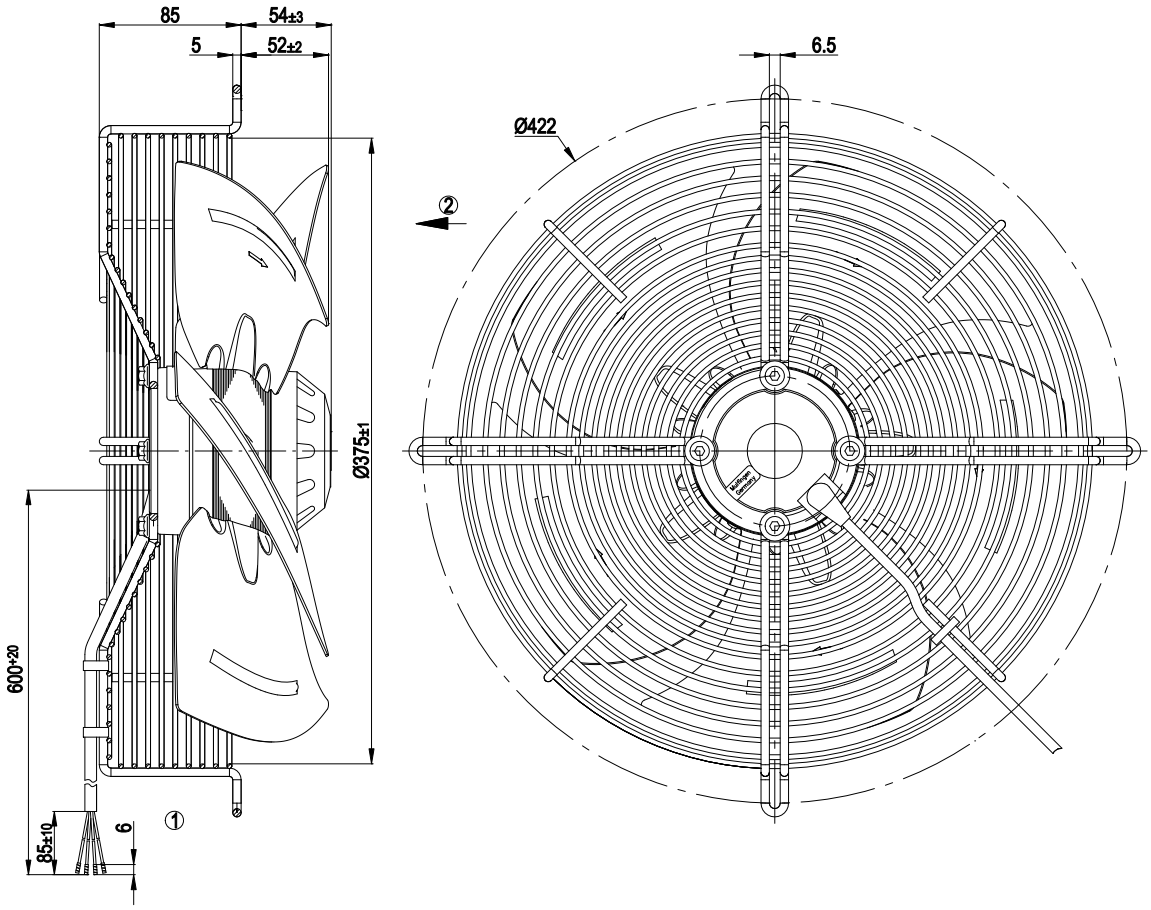
Mass	5 kg
Size	350 mm
Surface of rotor	Coated in black
Material of blades	Aluminium sheet, coated in black
Material of guard grille	Steel, phosphated and coated in black plastic
Number of blades	5
Direction of air flow	"V"
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP 44; 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

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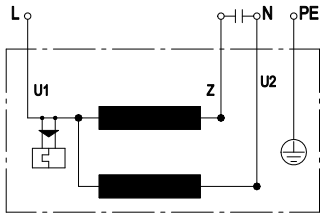
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Product drawing



1	Connection line silicone 4G 0.5 mm², 4 x brass lead tips crimped
2	Direction of air flow "V"

Connection screen



U1	blue	Z	brown	U2	black
PE	green/yellow				

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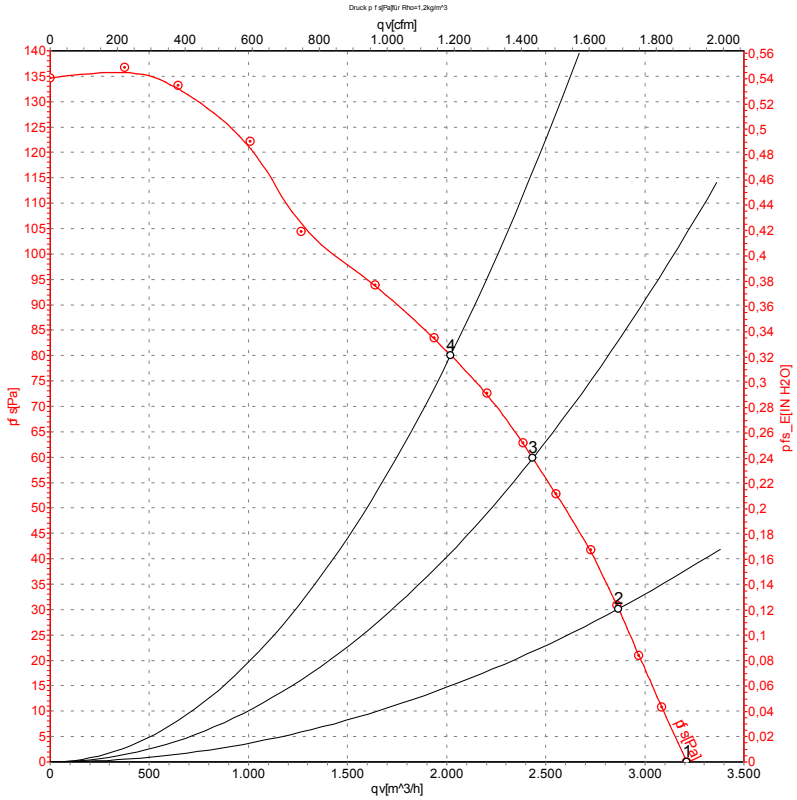
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Charts: Air flow 50 Hz



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: 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	qv	p_{fs}
	V	Hz	min^{-1}	W	A	m^3/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

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