S4E400-AR01-68

AC axial fan

sickled blades (S series)

with guard grille for short nozzle



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County court Stuttgart · HRA 590344

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ErP2015 EXCEEDS THE NORM

Nominal data

Type	**S4E400-AR01-68**		
Motor	**M4E074-GA**		
Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50	60
Type of data definition		cu	cu
Valid for approval / standard		CE	CE
Speed	min^{-1}	1390	1590
Power input	W	225	315
Current draw	A	1.05	1.38
Motor capacitor	µF	7	7
Capacitor voltage	VDB	400	400
Max. ambient temperature	°C	70	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 integrated	No
Specific ratio*	1,00

* Specific ratio = 1 + p_{fs} / 100 000 Pa

		Actual	Request 2013	Request 2015
Overall efficiency η_{es}		30,6	25,6	29,6
Efficiency grade N		41	36	40
Power input P_e	kW	0,23		
Air flow q_v	m^3/h	2600		
Pressure increase p_{fs}	Pa	99		
Speed n	min^{-1}	1395		

Data established at point of optimum efficiency

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Technical features

Mass	6.9 kg
Size	400 mm
Surface of rotor	Coated in black
Material of terminal box	PC/ABS plastic, 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 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	F2-2
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
Condensate discharge holes	Rotor-side
Operation mode	S1
Motor bearing	Ball bearing
Leakage current	< 0.75 mA
Electrical leads	Via terminal box, integrated capacitor connected via terminal box
Motor protection	Thermal overload protector (TOP) brought out
Cable exit	Variable
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1; CE
Approval	CSA C22.2 Nr.100; UL 1004-1

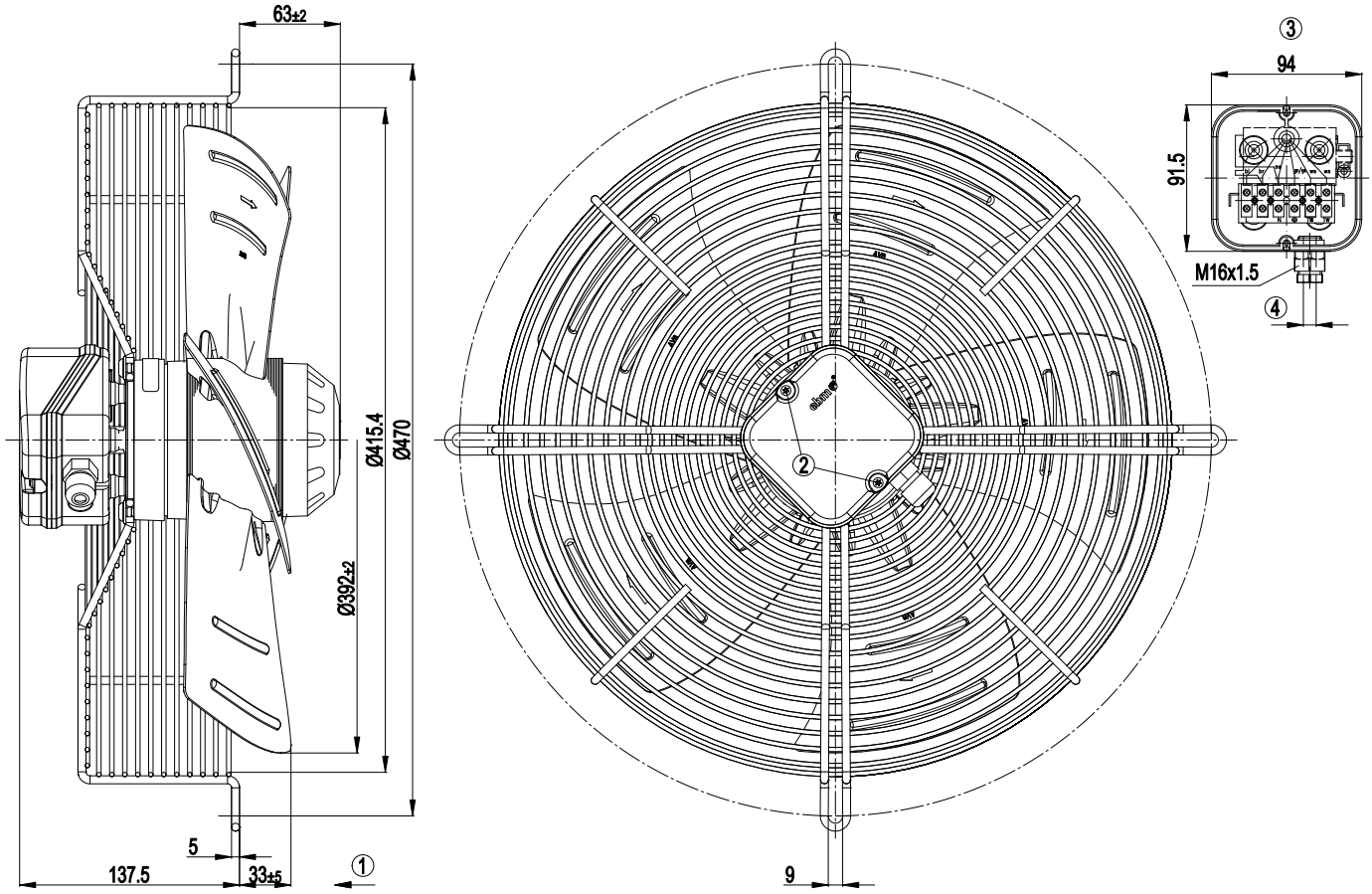
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Product drawing



1	Direction of air flow "V"
2	Tightening torque 0.8 ± 0.15 Nm
3	Illustration without terminal box cover
4	Cable diameter: min. 4 mm, max. 8 mm; tightening torque: 1.3 ± 0.2 Nm

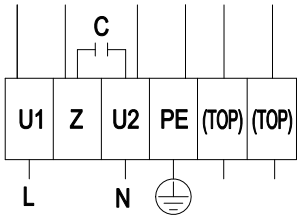
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Connection screen



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

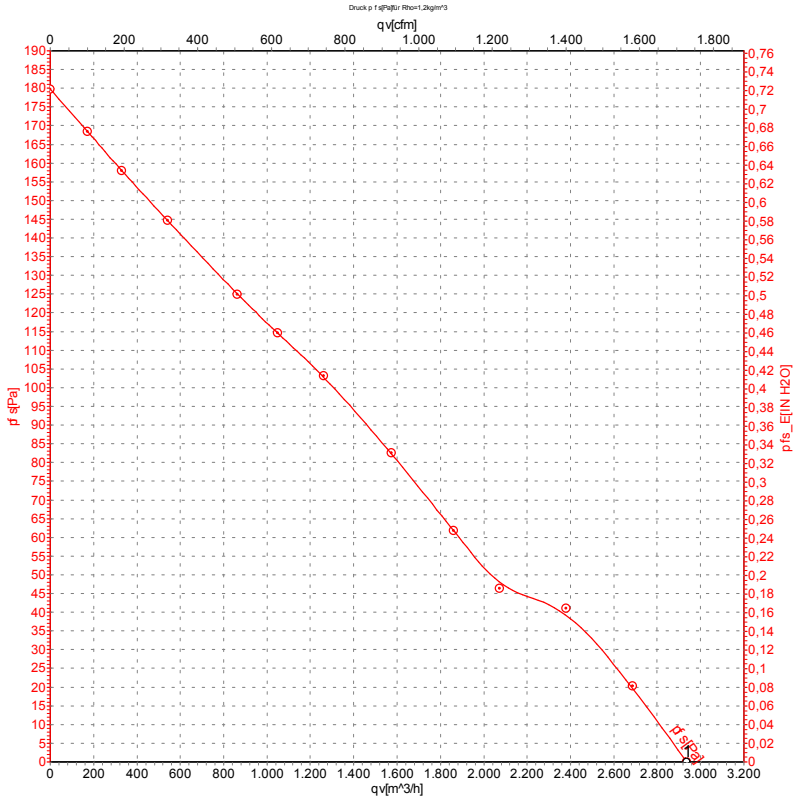
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Charts: Air flow 50 Hz



Measurement: LU-40107

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
	V	Hz	min^{-1}	W	A	m^3/h
1	230	50	1390	225	1.05	2935

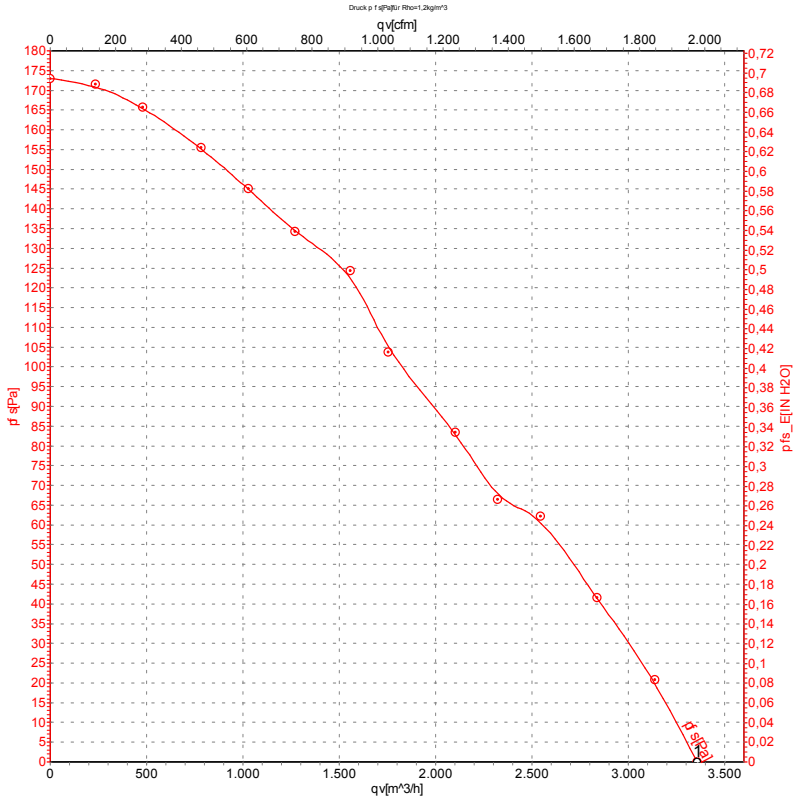
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Charts: Air flow 60 Hz



Measurement: LU-40108

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
	V	Hz	min^{-1}	W	A	m^3/h
1	230	60	1590	315	1.38	3355

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