S4E350-AA06-18

AC axial fan

straight blades (A series)

with guard grille for full nozzle

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ErP2015 EXCEEDS THE NORM

Nominal data

Type	**S4E350-AA06-18**
Motor	**M4E068-EC**

Phase		1~	1~	1~
Nominal voltage	VAC	230	230	230
Frequency	Hz	50	60	60
Type of data definition		fa	fa	fa
Valid for approval / standard		CE	CE	UL
Speed	min^{-1}	1390	1550	1550
Power input	W	140	195	205
Current draw	A	0.62	0.86	0.9
Motor capacitor	µF	5	5	5
Capacitor voltage	VDB	400	400	400
Capacitor standard		P0 (CE)	P0 (CE)	UL
Max. back pressure	Pa	120	90	90
Min. ambient temperature	°C	-25	-25	-25
Max. ambient temperature	°C	70	50	50
Starting current	A	1.4	1.3	1.3

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}		28.5	24.5	28.5
Efficiency grade N		40	36	40
Power input P_e	kW	0.15		
Air flow q_v	m^3/h	1880		
Pressure increase p_{fs}	Pa	80		
Speed n	min^{-1}	1360		

Data established at point of optimum efficiency

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Technical features

Mass	4.7 kg
Size	350 mm
Surface of rotor	Coated in black
Material of terminal box	ABS plastic, black
Material of impeller	Sheet steel, hot-galvanised
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
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	Axial
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1; CE

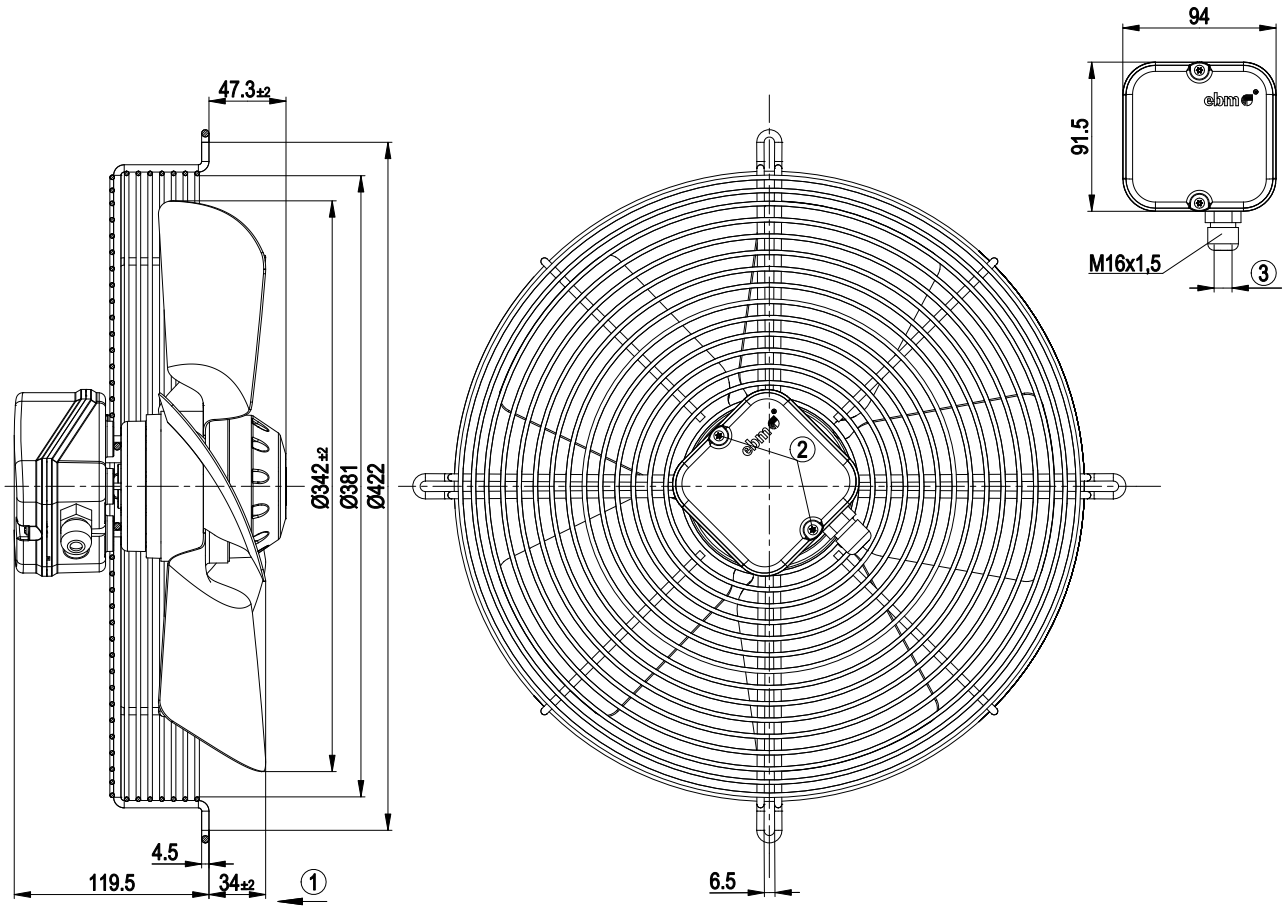
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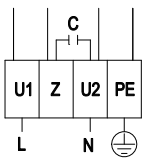
with guard grille for full nozzle

Product drawing



1	Direction of air flow "V"
2	Tightening torque 0.8±0.15 Nm
3	Cable diameter: max. 7.5 mm; tightening torque 2±0.3 Nm

Connection screen



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

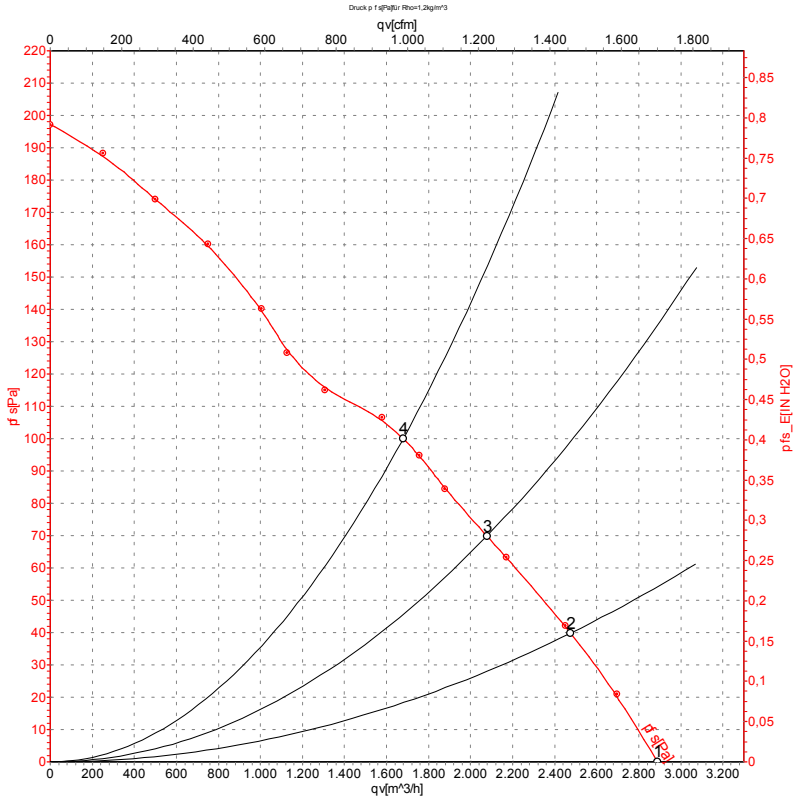
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Charts: Air flow 50 Hz



Measurement: LU-64421

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	1390	140	0.62	2890	0
2	230	50	1370	143	0.63	2475	40
3	230	50	1360	149	0.65	2080	70
4	230	50	1330	167	0.73	1680	100

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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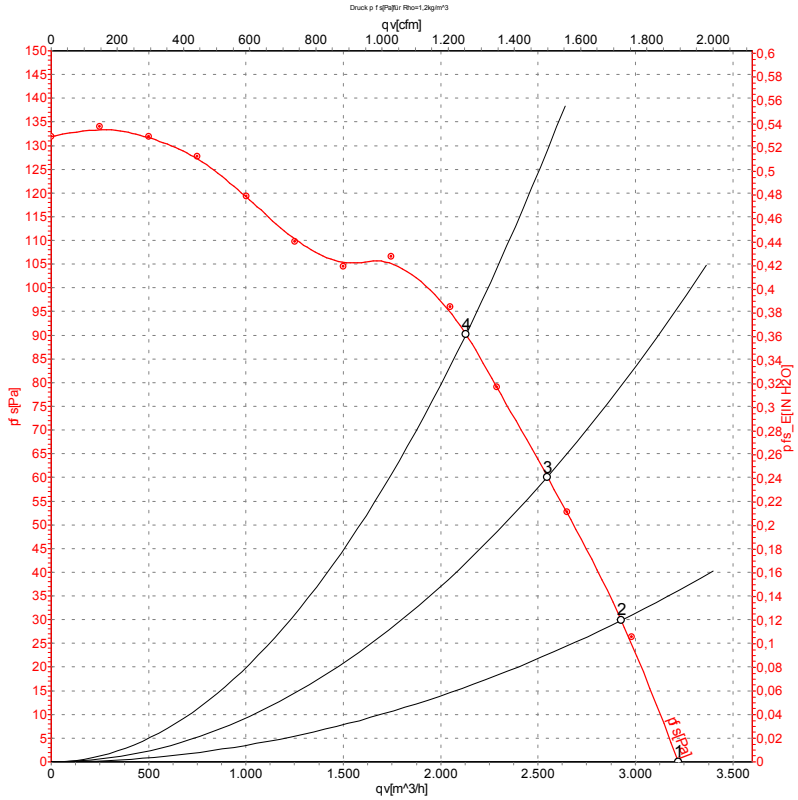
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Charts: Air flow 60 Hz



Measurement: LU-64461

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	60	1550	195	0.86	3220	0
2	230	60	1520	202	0.88	2925	30
3	230	60	1495	210	0.91	2550	60
4	230	60	1475	216	0.94	2130	90

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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