S4E500-AZ09-09

AC axial fan with guard grille for short nozzle

sickled blades (S series)

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Nominal data

Type	**S4E500-AZ09-09**		
Motor	**M4E094-HA**		
Phase		1~	1~
Nominal voltage	[V]	230	230
Frequency	[Hz]	50	60
Type of data definition		ml	ml
Valid for approval / standard		CE	CE
Speed	[min^{-1}]	1310	1400
Power input	[W]	590	740
Current draw	[A]	2,9	3.45
Motor capacitor	[µF]	10	10
Capacitor voltage	[VDB]	400	400
Max. back pressure	[Pa]	150	120
Max. ambient temperature	[°C]	60	45
Air flow	[m^3/h]	7530	8410
Back pressure	[Pa]	0	0
Sound pressure level	[dB(A)]	75	

ml = max. load · me = max. efficiency · rfa = running at free air · cs = customer specs · cu = customer unit
Subject to alterations

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

Technical features

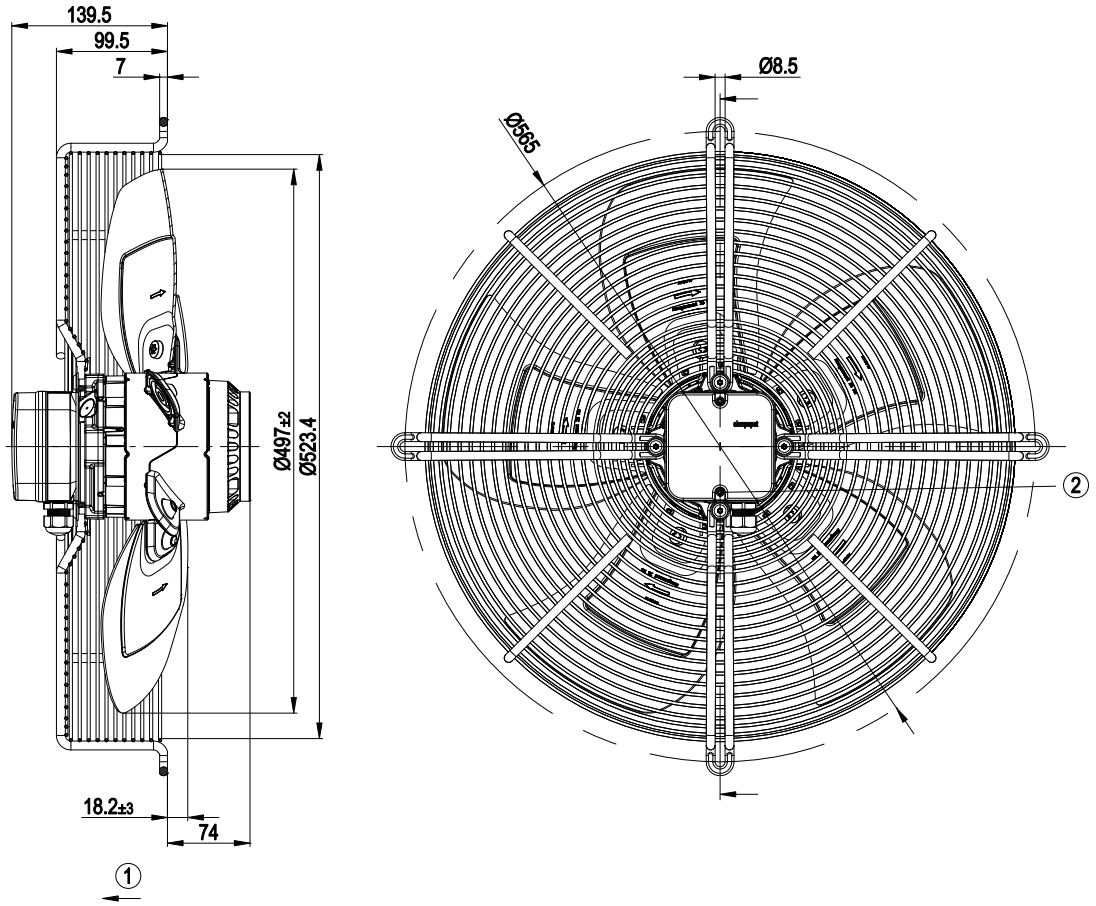
Leackage current	<= 3,5 mA
Size	500 mm
Operation mode	S1
Direction of rotation	Counter-clockwise, seen on rotor
Mounting position	Shaft horizontal or rotor on bottom; rotor on top on request
Electrical leads	Via terminal box, integrated capacitor connected via terminal box
Blade angle	-10
Direction of air flow	"V"
Insulation class	"F"
Condensate discharge holes	Rotor-side
Bearing motor	Ball bearing
Mass	11.48 kg
Material of terminal box	ABS plastic, black
Material of blades	Aluminium sheet, coated in black
Material of guard grille	Steel, phosphated and coated in black plastic
Motor protection	Thermal overload protector (TOP) wired internally
Product conforming to standard	CE
Surface of rotor	Coated in black
Number of blades	5
Type of protection	IP 54
Protection class	I
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C

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Product drawing



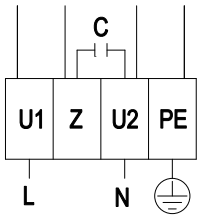
1	Direction of air flow "V"
2	Tightening torque 0.8 Nm
3	Shown without terminal box cover
4	Cable diameter: min. 6 mm, max. 12 mm, tightening torque: 2 Nm

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Connection screen



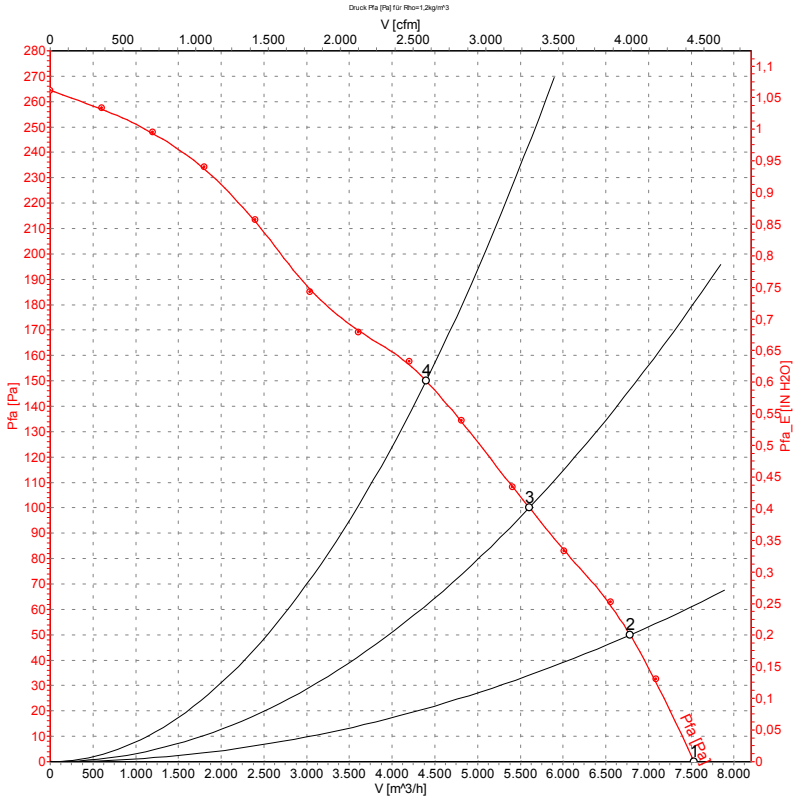
L	= U1 = blue	Z	brown	N	= U2 = black
PE	green/yellow				

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Charts: Air flow 50 Hz



Measurement: LU-70845

Measured values

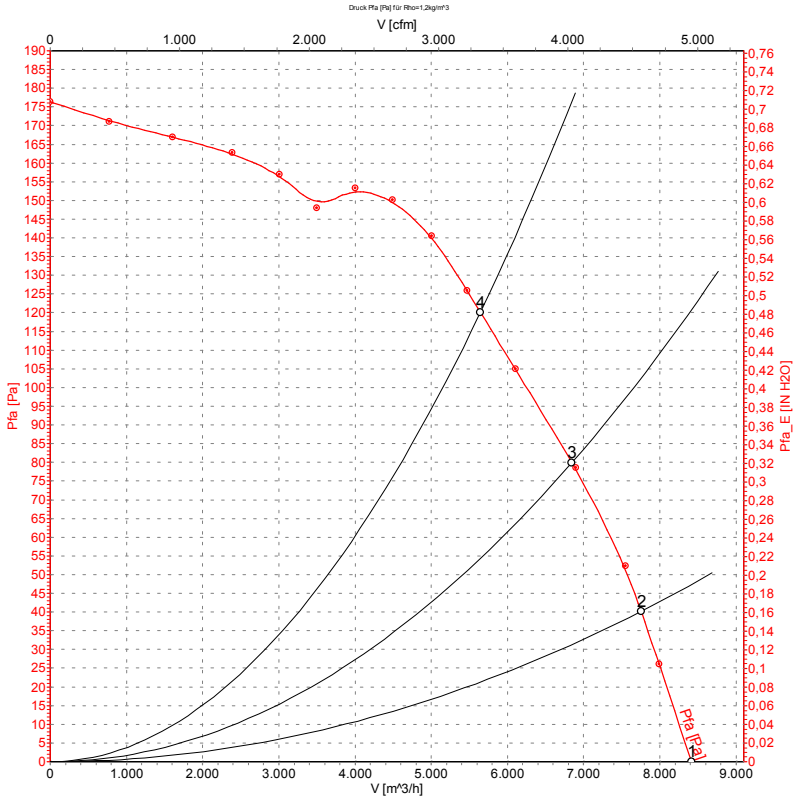
	U	f	n	P_1	I	$\dot{V}$	p_{fa}
	[V]	[Hz]	[min^{-1}]	[W]	[A]	[m^3/h]	[Pa]
1	230	50	1395	426	2.19	7535	0
2	230	50	1370	479	2.40	6785	50
3	230	50	1350	517	2.55	5605	100
4	230	50	1310	590	2.90	4395	150

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AC axial fan with guard grille for short nozzle

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Charts: Air flow 60 Hz



Measurement: LU-70850

Measured values

	U	f	n	P_1	I	$\dot{V}$	p_{fa}
	[V]	[Hz]	[min^{-1}]	[W]	[A]	[m^3/h]	[Pa]
1	230	60	1565	611	2.72	8415	0
2	230	60	1515	665	3.00	7755	40
3	230	60	1460	711	3.24	6845	80
4	230	60	1400	740	3.45	5645	120

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