

W4S250-CI02-01

AC axial fan with full round nozzle
sickled blades (S series)



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Nominal data

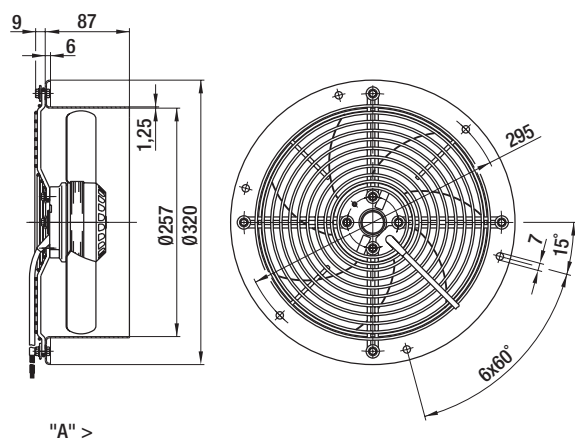
Type	W4S250-CI02-01		
Motor	M4S068-CF		
Phase		1~	1~
Nominal voltage	[V]	230	230
Frequency	[Hz]	50	60
Type of data definition		rfa	rfa
Valid for approval / standard		CE	CE
Speed	[min ⁻¹]	1390	1600
Power input	[W]	69	63
Current draw	[A]	0.53	0.45
Max. back pressure	[Pa]	80	80
Max. ambient temperature	[°C]	50	65
Air flow	[m ³ /h]	1000	1160
Back pressure	[Pa]	0	0
Sound pressure level	[dB(A)]	54	58

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

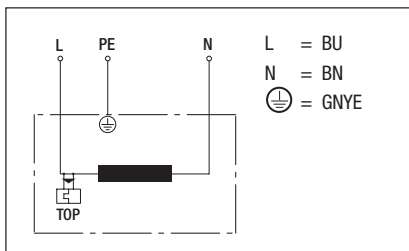
Technical features

Leackage current	< 0,75 mA
Size	250 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
Direction of air flow	"A"
Insulation class	"B"
Cable exit	Lateral
Condensate discharge holes	Rotor-side
Bearing motor	Ball bearing
Mass	3.1 kg
Material of blades	Sheet steel, coated in black
Material of guard grille	Steel, phosphated and coated in black plastic
Material of wall ring	Sheet steel, pre-galvanized and coated in black plastic
Motor protection	Thermal overload protector (TOP) wired internally
Product conforming to standard	CE; EN 60335-1
Surface of rotor	Coated in black
Number of blades	9
Type of protection	IP 44 - depending on position
Protection class	I
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Approval	CCC

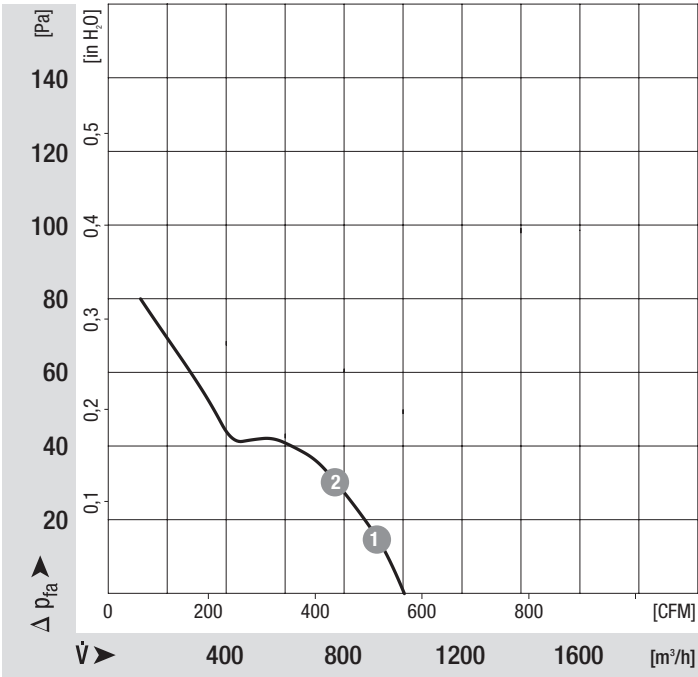
Product drawing



Connection screen



Charts: Air flow 50 Hz



Measured values

	n	P ₁	I
	[min ⁻¹]	[W]	[A]
1	1370	71	0.53
2	1360	73	0.53

AC axial fan with full round nozzle sickled blades (S series)

The graph shows the relationship between pressure drop and flow rate for a 100 mm diameter pipe. The pressure drop increases with flow rate, starting from about 80 Pa at 100 m³/h and reaching 0 Pa at 1200 m³/h. The curve is non-linear, showing a slight plateau around 300 m³/h.

Flow Rate $\dot{V}$ [m³/h]	Flow Rate [CFM]	Pressure Drop Δp_{fa} [Pa]	Pressure Drop [in H ₂ O]
100	4.2	80	0.30
200	8.5	65	0.24
300	12.7	55	0.20
400	16.9	50	0.18
600	25.4	35	0.13
800	33.8	20	0.08
1000	42.3	10	0.04
1200	50.7	0	0.00