

# ATS01N109FT

soft starter for asynchronous motor - ATS01 - 9  
A - 110..480V - 1.1..4 KW



## Main

Range of product	Altistart 01
Product or component type	Soft starter
Product destination	Asynchronous motors
Product specific application	Simple machine
Component name	ATS01
Network number of phases	3 phases Single phase
[Us] rated supply voltage	110...480 V - 10...10 %
[Ie] rated operational current	9 A
Utilisation category	AC-53B EN/IEC 60947-4-2
Current consumption	45 A at nominal load
Type of start	Start with voltage ramp
Power dissipation in W	1 W at full load and at end of starting 46 W in transient state

## Complementary

Function available	Integrated bypass
Supply voltage limits	99...528 V
Supply frequency	50...60 Hz - 5...5 %
Network frequency limits	47,5...63 Hz
Motor power kW	1,1 kW single phase 230 V 1,5 kW 3 phases 230 V 4 kW 3 phases 400 V
Motor power hp	1 hp 3 phases 210 V 2 hp 3 phases 230 V 5 hp 3 phases 460 V
Output voltage	<= power supply voltage
Control circuit voltage	24 V +/- 10 % AC/DC 30 mA 110 V +/- 10 % AC 35 mA 240 V +/- 10 % AC 80 mA
Starting time	1 s 100 5 s 20 Adjustable from 1 to 5 s
Starting torque	30...80 % of starting torque of motor connected directly on the line supply
Discrete output current	2 A DC-13 3 A AC-15
Tightening torque	0,5 N.m 1,9...2,5 N.m

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Electrical connection	4 mm screw clamp terminal flexible without cable end 1 1.5...10 mm <sup>2</sup> AWG 8 power circuit 4 mm screw clamp terminal flexible without cable end 2 1.5...6 mm <sup>2</sup> AWG 10 power circuit 4 mm screw clamp terminal rigid 1 1...10 mm <sup>2</sup> AWG 8 power circuit 4 mm screw clamp terminal rigid 2 1...6 mm <sup>2</sup> AWG 10 power circuit 4 mm screw clamp terminal flexible with cable end 2 1...6 mm <sup>2</sup> AWG 10 power circuit Screw connector flexible without cable end 1 0.5...2.5 mm <sup>2</sup> AWG 14 control circuit Screw connector flexible without cable end 2 0.5...1.5 mm <sup>2</sup> AWG 16 control circuit Screw connector flexible with cable end 1 0.5...1.5 mm <sup>2</sup> AWG 16 control circuit Screw connector rigid 1 0.5...2.5 mm <sup>2</sup> AWG 14 control circuit Screw connector rigid 2 0.5...1 mm <sup>2</sup> AWG 17 control circuit
Marking	CE
Operating position	Vertical +/- 10 degree
Product weight	0,28 kg

## Environment

Electromagnetic compatibility	EMC immunity EN 50082-2 EMC immunity EN 50082-1 Conducted and radiated emissions level B CISPR 11 Conducted and radiated emissions level B IEC 60947-4-2 Damped oscillating waves level 3 IEC 61000-4-12 Electrostatic discharge level 3 IEC 61000-4-2 Harmonics IEC 1000-3-2 Harmonics IEC 1000-3-4 Immunity to conducted interference caused by radio-electrical fields level 3 IEC 61000-4-6 Immunity to electrical transients level 4 IEC 61000-4-4 Immunity to radiated radio-electrical interference level 3 IEC 61000-4-3 Micro-cuts and voltage fluctuation IEC 61000-4-11 Voltage/Current impulse level 3 IEC 61000-4-5
Standards	EN/IEC 60947-4-2
Product certifications	B44.1-96/ASME A17.5 for starter wired to the motor delta terminal C-Tick CCC CSA GOST UL
IP degree of protection	IP20
Pollution degree	2 EN/IEC 60947-4-2
Vibration resistance	1.5 mm peak to peak 3...13 Hz EN/IEC 60068-2-6 1 gn 13...150 Hz EN/IEC 60068-2-6
Shock resistance	15 gn 11 ms EN/IEC 60068-2-27
Relative humidity	5...95 % without condensation or dripping water EN/IEC 60068-2-3
Ambient air temperature for operation	-10...40 °C without derating 40...50 °C with current derating of 2 % per °C
Ambient air temperature for storage	-25...70 °C EN/IEC 60947-4-2
Operating altitude	> 1000 m with current derating of 2.2 % per additional 100 m ≤ 1000 m without derating
RoHS EUR conformity date	0905
RoHS EUR status	Compliant