

# ATS01N109FT

soft start-soft stop unit - ATS-01 - 4 kW 5HP - 9  
A - 110..480 V 3-phase



## Main

Range of product	Altstart 01
Product or component type	Soft starter
Product destination	For asynchronous motors
Product specific application	Simple machine
Component name	ATS01
Function available	Soft start
Network number of phases	3 phases Single phase
[Us] rated supply voltage	110...480 V - 10...10 %
Supply frequency	50...60 Hz - 5...5 %
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
[Ie] rated operational current	9 A
Utilisation category	AC-53B EN/IEC 60947-4-2
Output voltage	<= power supply voltage
Current consumption	45 A at nominal load
Starting time	1 s 100 5 s 20 Adjustable from 1 to 5 s
Power dissipation in W	1 W at full load and at end of starting 46 W in transient state
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

## Complementary

Supply voltage limits	99...528 V
Network frequency limits	47,5...63 Hz
Control circuit voltage	24 V +/- 10 % AC/DC 30 mA 110 V +/- 10 % AC 35 mA 240 V +/- 10 % AC 80 mA
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

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

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
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