Product data sheet

Specifications



soft starter for asynchronous motor, Altistart 01, ATS01, 3A, 110 to 480V, 0.55 to 1.1kW

ATS01N103FT

Main

Range Of Product	Altistart 01
Product Or Component Type	Soft starter
Product Destination	Asynchronous motors
Product Specific Application	Simple machine
Device Short Name	ATS01
Network Number Of Phases	1 phase
[Us] Rated Supply Voltage	110480 V - 1010 %
Motor Power Kw	0.37 kW, 3 phases at 230 V 0.55 kW, 3 phases at 230 V 1.1 kW, 3 phases at 400 V 0.37 kW, 1 phase at 230 V
Motor Power Hp	0.5 hp, 3 phases at 230 V 0.5 hp, 3 phases at 460 V 1.5 hp, 3 phases at 460 V
Icl Starter Rating	3 A
Utilisation Category	AC-53B conforming to EN/IEC 60947-4-2
Current Consumption	15 A at nominal load
Type Of Start	Start with voltage ramp
Power Dissipation In W	19 W in transient state 4 W at full load and at end of starting

Complementary

Assembly Style	With heat sink
Function Available	Integrated bypass
Supply Voltage Limits	99528 V
Supply Frequency	5060 Hz - 55 %
Network Frequency	47.563 Hz
Output Voltage	<= power supply voltage
[Uc] Control Circuit Voltage	110 V AC +/- 10 % at 30 mA
	24 V AC/DC +/- 10 % at 25 mA 240 V AC +/- 10 % at 65 mA
Starting Time	1 s / 100
	5 s / 20
	Adjustable from 1 to 5 s
Starting Torque	3080 % of starting torque of motor connected directly on the line supply
Discrete Output Current	2 A DC-13
	3 A AC-15

Tightening Torque	0.8 N.m
Electrical Connection	Cage type connector - rigid 1 2.5 mm ² AWG 14 control circuit Cage type connector - rigid with cable end 1 2.5 mm ² AWG 14 power circuit Cage type connector - rigid without cable end 2 1 mm ² AWG 17 control circuit Cage type connector - rigid without cable end 2 1 mm ² AWG 17 power circuit Cage type connector - flexible with cable end 1 2.5 mm ² AWG 14 control circuit Cage type connector - flexible with cable end 1 2.5 mm ² AWG 14 power circuit Cage type connector - flexible with cable end 1 2.5 mm ² AWG 14 power circuit Cage type connector - flexible without cable end 1 2.5 mm ² AWG 14 power circuit Cage type connector - flexible without cable end 1 2.5 mm ² AWG 14 power circuit Cage type connector - flexible with cable end 2 0.75 mm ² AWG 18 control circuit Cage type connector - flexible with cable end 2 0.75 mm ² AWG 18 power circuit Cage type connector - flexible without cable end 2 1 mm ² AWG 17 control circuit Cage type connector - flexible without cable end 2 1 mm ² AWG 17 power circuit
Marking	CE
Operating Position	Vertical +/- 10 degree
Height	100 mm
Width	23 mm
Depth	100 mm
Net Weight	0.16 kg
Compatibility Code	ATS01N1
Motor Power Range Ac-3	00.5 kW at 200240 V 1 phase 00.5 kW at 200240 V 3 phases 0.551 kW at 200240 V 3 phases 1.12 kW at 380440 V 3 phases
Motor Starter Type	Soft starter

Environment

Electromagnetic Compatibility	Conducted and radiated emissions level B conforming to CISPR 11 Conducted and radiated emissions level B conforming to IEC 60947-4-2 Damped oscillating waves level 3 conforming to IEC 61000-4-12 Electrostatic discharge level 3 conforming to IEC 61000-4-2 EMC immunity level 3 conforming to EN 50082-1 EMC immunity level B conforming to EN 50082-2 Harmonics level 3 conforming to IEC 1000-3-2 Harmonics level 3 conforming to IEC 1000-3-4 Immunity to conducted interference caused by radio-electrical fields level 3 conforming to IEC 61000-4-6 Immunity to electrical transients level 4 conforming to IEC 61000-4-4 Immunity to radiated radio-electrical interference level 3 conforming to IEC 61000-4-3 Micro-cuts and voltage fluctuation conforming to IEC 61000-4-11
	Voltage/current impulse level 3 conforming to IEC 61000-4-1
Standards	EN/IEC 60947-4-2

CSA GOST
GOST
0001
C-Tick
UL
CCC
IP20
2 conforming to EN/IEC 60947-4-2
1 gn (f= 13150 Hz) conforming to EN/IEC 60068-2-6
1.5 mm peak to peak (f= 313 Hz) conforming to EN/IEC 60068-2-6
15 gn for 11 ms conforming to EN/IEC 60068-2-27
595 % without condensation or dripping water conforming to EN/IEC 60068-2-3
-1040 °C (without derating)
4050 °C (with current derating of 2 % per °C)
-2570 °C conforming to EN/IEC 60947-4-2

<= 1000 m without derating

> 1000 m with current derating of 2.2 % per additional 100 m

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	2.5 cm
Package 1 Width	10.3 cm
Package 1 Length	10.5 cm
Package 1 Weight	175.0 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	36
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	6.491 kg

Contractual warranty

Warranty

18 months

Sustainability

Green Premium[™] label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

Well-being performance

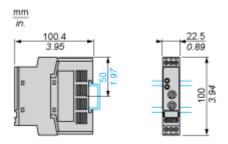
Reach Free Of Svhc	
Toxic Heavy Metal Free	
Mercury Free	
Rohs Exemption Information	Yes
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
	EU RoHS Declaration
China Rohs Regulation	EU RoHS Declaration China RoHS declaration
China Rohs Regulation Weee	

Product data sheet

Dimensions Drawings

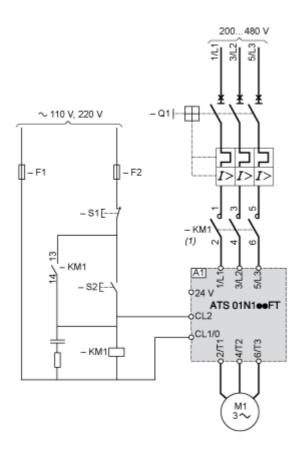
Dimensions

Mounting on Symetrical (35 mm) Rail or Asymetrical Rail with Adaptor RHZ 66



Connections and Schema

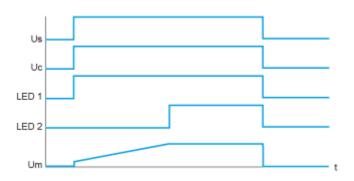
Example of 3-phase Power Supply Connection



- (1) A line contactor must be used in the sequence.
- A1 : Soft starter
- Q1: Motor circuit-breaker
- KM1: Contactors
- F1, F2: Control protection fuses
- S1, S2 : Pushbuttons

Technical Description

Function Diagram



- Us : Power supply voltage
- Uc: Control supply voltage
- LED 1 : Green LED
- LED 2 : Yellow LED
- Um : Motor voltage