Product datasheet

Specifications



soft starter for asynchronous motor, Altistart 01, ATS01, 9A, 110 to 480V, 1.1 to 4kW

ATS01N109FT

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	4 kW, 3 phases at 400 V 1.5 kW, 3 phases at 230 V 1.1 kW, 1 phase at 230 V
Motor Power Hp	1 hp, 3 phases at 210 V 2 hp, 3 phases at 230 V 5 hp, 3 phases at 460 V
Icl Starter Rating	9 A
Utilisation Category	AC-53B conforming to 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

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 35 mA 24 V AC/DC +/- 10 % at 30 mA 240 V AC +/- 10 % at 80 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	0.5 N.m 1.92.5 N.m
Electrical Connection	 4 mm screw clamp terminal - rigid 1 110 mm² AWG 8 power circuit Screw connector - rigid without cable end 1 0.52.5 mm² AWG 14 control circuit 4 mm screw clamp terminal - rigid 2 16 mm² AWG 10 power circuit Screw connector - rigid 2 0.51 mm² AWG 17 control circuit Screw connector - flexible with cable end 1 0.51.5 mm² AWG 16 control circuit 4 mm screw clamp terminal - flexible without cable end 1 1.510 mm² AWG 8 power circuit Screw connector - flexible without cable end 1 0.52.5 mm² AWG 14 control circuit 4 mm screw clamp terminal - flexible with cable end 2 16 mm² AWG 10 power circuit 4 mm screw clamp terminal - flexible with cable end 2 16 mm² AWG 10 power circuit 4 mm screw clamp terminal - flexible without cable end 2 16 mm² AWG 10 power circuit 5 mm² circuit 5 mm² circuit 5 mm² circuit 6 mm² circuit 7 mm screw clamp terminal - flexible without cable end 2 16 mm² AWG 10 power circuit 7 mm screw clamp terminal - flexible without cable end 2 1.56 mm² AWG 10 power circuit
Marking	CE
Operating Position	Vertical +/- 10 degree
Height	124 mm
Width	45 mm
Depth	131 mm
Net Weight	0.28 kg
Compatibility Code	ATS01N1
Motor Power Range Ac-3	1.12 kW at 200240 V 1 phase 2.23 kW at 200240 V 3 phases 46 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 radiated tradio-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 61000-4-5
Standards	EN/IEC 60947-4-2
Product Certifications	C-Tick GOST CSA CCC UL
Ip Degree Of Protection	IP20
Pollution Degree	2 conforming to EN/IEC 60947-4-2
Vibration Resistance	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
Shock Resistance	15 gn for 11 ms conforming to EN/IEC 60068-2-27

<= 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	5.500 cm
Package 1 Width	17.000 cm
Package 1 Length	15.500 cm
Package 1 Weight	344.000 g
Unit Type Of Package 2	S03
Number Of Units In Package 2	14
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	5.377 kg
Unit Type Of Package 3	P06
Number Of Units In Package 3	112
Package 3 Height	75.000 cm
Package 3 Width	60.000 cm
Package 3 Length	80.000 cm
Package 3 Weight	56.620 kg

Contractual warranty

Warranty

18 months

Sustainability

Green PremiumTM 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

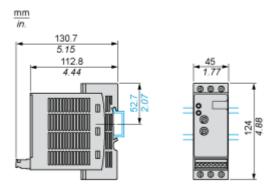
Reach Free Of Svhc	
V Toxic Heavy Metal Free	
Mercury Free	
Rohs Exemption Information	Yes
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
China Rohs Regulation	China RoHS declaration
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Product datasheet

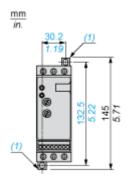
Dimensions Drawings

Dimensions

Mounting on Symetrical (35 mm) Rail



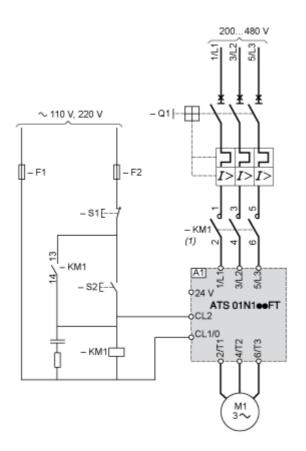
Screw Fixing



(1) Retractable fixings

Connections and Schema

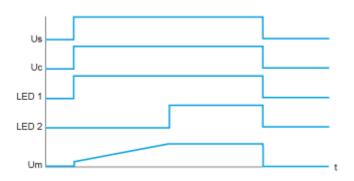
Example of 3-phase Power Supply Connection



- (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