

# Product data sheet

Specifications



soft starter for asynchronous motor,  
Altistart 01, ATS01, 6A, 110 to  
480V, 0.75 to 3kW

ATS01N106FT

## 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	110...480 V - 10...10 %
Motor power kW	3 kW, 3 phases at 400 V 0.75 kW, 3 phases at 230 V 1.1 kW, 3 phases at 230 V 2.2 kW, 3 phases at 400 V 0.75 kW, 1 phase at 230 V
Motor power hp	1 hp, 3 phases at 230 V 2 hp, 3 phases at 460 V 3 hp, 3 phases at 460 V 0.5 hp, 3 phases at 210 V 1.5 hp, 3 phases at 230 V
IcL starter rating	6 A
Utilisation category	AC-53B conforming to EN/IEC 60947-4-2
Current consumption	30 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 31 W in transient state

## Complementary

Assembly style	With heat sink
Function available	Integrated bypass
Supply voltage limits	99...528 V
Supply frequency	50...60 Hz - 5...5 %
Network frequency	47.5...63 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	30...80 % of starting torque of motor connected directly on the line supply

<b>Discrete output current</b>	2 A DC-13 3 A AC-15
<b>Tightening torque</b>	0.8 N.m
<b>Electrical connection</b>	Cage type connector - rigid 1 2.5 mm <sup>2</sup> AWG 14 control circuit Cage type connector - rigid with cable end 1 2.5 mm <sup>2</sup> AWG 14 power circuit Cage type connector - rigid without cable end 2 1 mm <sup>2</sup> AWG 17 control circuit Cage type connector - rigid without cable end 2 1 mm <sup>2</sup> AWG 17 power circuit Cage type connector - flexible with cable end 1 2.5 mm <sup>2</sup> AWG 14 control circuit Cage type connector - flexible with cable end 1 2.5 mm <sup>2</sup> AWG 14 power circuit Cage type connector - flexible without cable end 1 2.5 mm <sup>2</sup> AWG 14 control circuit Cage type connector - flexible without cable end 1 2.5 mm <sup>2</sup> AWG 14 power circuit Cage type connector - flexible with cable end 2 0.75 mm <sup>2</sup> AWG 18 control circuit Cage type connector - flexible with cable end 2 0.75 mm <sup>2</sup> AWG 18 power circuit Cage type connector - flexible without cable end 2 1 mm <sup>2</sup> AWG 17 control circuit Cage type connector - flexible without cable end 2 1 mm <sup>2</sup> AWG 17 power circuit
<b>Marking</b>	CE
<b>Operating position</b>	Vertical +/- 10 degree
<b>Height</b>	100 mm
<b>Width</b>	23 mm
<b>Depth</b>	100 mm
<b>Product weight</b>	0.16 kg
<b>Compatibility code</b>	ATS01N1
<b>Motor power range AC-3</b>	0.55...1 kW at 200...240 V 3 phases 1.1...2 kW at 380...440 V 3 phases 0.55...1 kW at 200...240 V 1 phase 1.1...2 kW at 200...240 V 3 phases 2.2...3 kW at 380...440 V 3 phases
<b>Motor starter type</b>	Soft starter

## Environment

<b>Electromagnetic compatibility</b>	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 61000-4-5
<b>Standards</b>	EN/IEC 60947-4-2
<b>Product certifications</b>	C-Tick CCC CSA UL GOST
<b>IP degree of protection</b>	IP20
<b>Pollution degree</b>	2 conforming to EN/IEC 60947-4-2
<b>Vibration resistance</b>	1 gn (f= 13...150 Hz) conforming to EN/IEC 60068-2-6 1.5 mm peak to peak (f= 3...13 Hz) conforming to EN/IEC 60068-2-6
<b>Shock resistance</b>	15 gn for 11 ms conforming to EN/IEC 60068-2-27
<b>Relative humidity</b>	5...95 % without condensation or dripping water conforming to EN/IEC 60068-2-3
<b>Ambient air temperature for operation</b>	-10...40 °C (without derating) 40...50 °C (with current derating of 2 % per °C)

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<b>Ambient air temperature for storage</b>	-25...70 °C conforming to EN/IEC 60947-4-2
<b>Operating altitude</b>	<= 1000 m without derating > 1000 m with current derating of 2.2 % per additional 100 m

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## Packing Units

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<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	2.5 cm
<b>Package 1 Width</b>	10.3 cm
<b>Package 1 Length</b>	10.5 cm
<b>Package 1 Weight</b>	178.0 g
<b>Unit Type of Package 2</b>	S02
<b>Number of Units in Package 2</b>	36
<b>Package 2 Height</b>	15.0 cm
<b>Package 2 Width</b>	30.0 cm
<b>Package 2 Length</b>	40.0 cm
<b>Package 2 Weight</b>	6.715 kg

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## Contractual warranty

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<b>Warranty</b>	18 months
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## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.



[Environmental Data explained >](#)

[How we assess product sustainability >](#)

### Use Better

 <b>Materials and Substances</b>	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
<a href="#">EU RoHS Directive</a>	Pro-active compliance (Product out of EU RoHS legal scope)
California proposition 65	<b>WARNING:</b> This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>

### Use Again

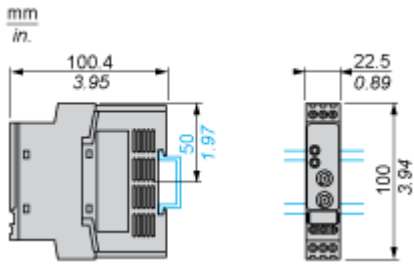
 <b>Repack and remanufacture</b>	
Take-back	No
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Dimensions Drawings

Dimensions

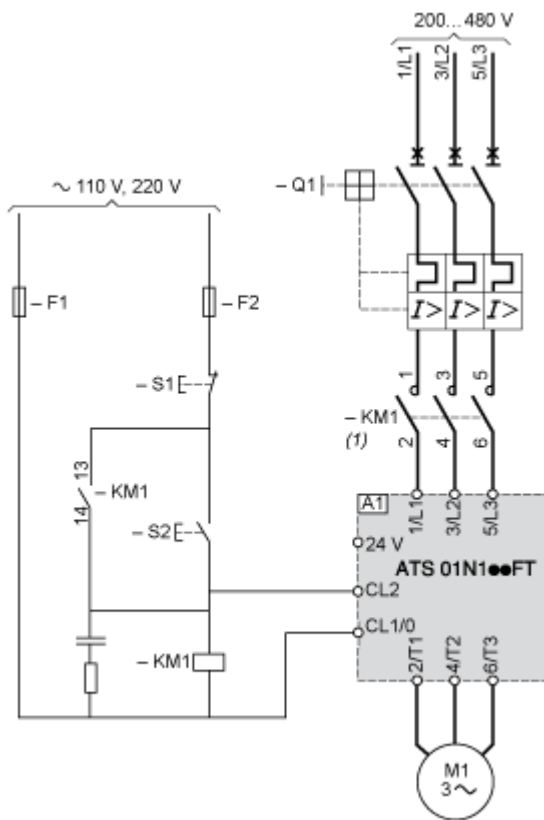
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Mounting on Symmetrical (35 mm) Rail or Asymmetrical Rail with Adaptor RHZ 66



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

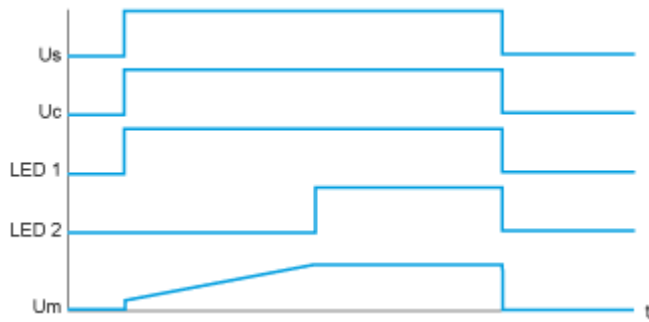
F1, F2 : Control protection fuses

S1, S2 : Pushbuttons

Technical Description

Function Diagram

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Us : Power supply voltage

Uc : Control supply voltage

LED 1 : Green LED

LED 2 : Yellow LED

Um : Motor voltage