

# 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>Net 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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## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> 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

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✓ Toxic Heavy Metal Free

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✓ Mercury Free

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✓ Rohs Exemption Information Yes

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**Reach Regulation** [REACH Declaration](#)

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**Eu Rohs Directive** Pro-active compliance (Product out of EU RoHS legal scope)  
[EU RoHS Declaration](#)

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**China Rohs Regulation** [China RoHS declaration](#)

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**Weee** The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

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**California Proposition 65** WARNING: 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 [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

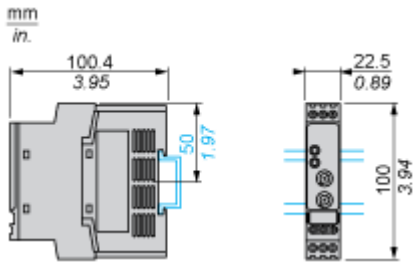
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Dimensions Drawings

Dimensions

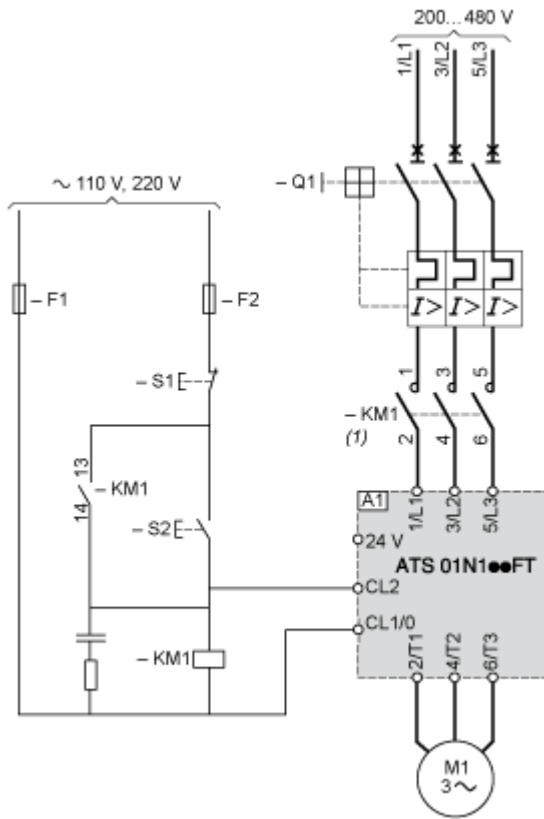
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Mounting on Symmetrical (35 mm) Rail or Asymmetrical Rail with Adaptor RHZ 66



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

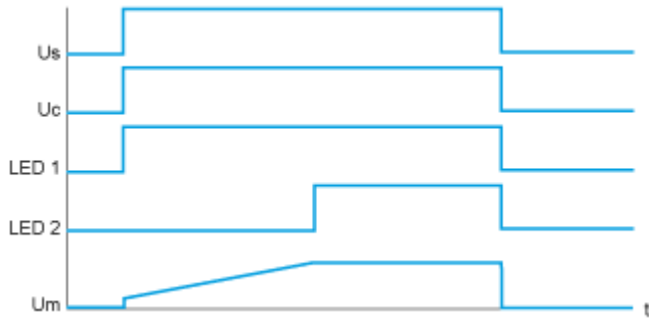
F1, F2 : Control protection fuses

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