

# Product data sheet

Specifications



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

ATS01N106FT

Product availability: Stock - Normally stocked in distribution facility

Price\*: 138.00 USD

## 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
Phase	1 phase
[Us] Rated Supply Voltage	110...480 V - 10...10 %
Motor Power Kw	3 kW, 3 phase 400 V 0.75 kW, 3 phase 230 V 1.1 kW, 3 phase 230 V 2.2 kW, 3 phase 400 V 0.75 kW, 1 phase 230 V
Maximum Horse Power Rating	1 hp, 3 phase 230 V 2 hp, 3 phase 460 V 3 hp, 3 phase 460 V 0.5 hp, 3 phase 210 V 1.5 hp, 3 phase 230 V
Icl Starter Rating	6 A
Utilisation Category	AC-53B 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 % 30 mA 24 V AC/DC +/- 10 % 25 mA 240 V AC +/- 10 % 65 mA

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: 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

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
Discrete Output Current	2 A DC-13 3 A AC-15
Tightening Torque	7.08 lbf.in (0.8 N.m)
Electrical Connection	Cage type connector - rigid 1 2.5 mm² AWG 14 control circuit Cage type connector - rigid with cable end 1 2.5 mm² AWG 14 power circuit Cage type connector - rigid without cable end 2 1 mm² AWG 17 control circuit Cage type connector - rigid without cable end 2 1 mm² AWG 17 power circuit Cage type connector - flexible with cable end 1 2.5 mm² AWG 14 control circuit Cage type connector - flexible with cable end 1 2.5 mm² AWG 14 power circuit Cage type connector - flexible without cable end 1 2.5 mm² AWG 14 control circuit Cage type connector - flexible without cable end 1 2.5 mm² AWG 14 power circuit Cage type connector - flexible with cable end 2 0.75 mm² AWG 18 control circuit Cage type connector - flexible with cable end 2 0.75 mm² AWG 18 power circuit Cage type connector - flexible without cable end 2 1 mm² AWG 17 control circuit Cage type connector - flexible without cable end 2 1 mm² AWG 17 power circuit
Marking	CE
Operating Position	Vertical +/- 10 degree
Height	3.94 in (100 mm)
Width	0.91 in (23 mm)
Depth	3.94 in (100 mm)
Net Weight	0.35 lb(US) (0.16 kg)
Compatibility Code	ATS01N1
Motor Power Range Ac-3	0.55...1 kW 200...240 V 3 phase 1.1...2 kW 380...440 V 3 phase 0.55...1 kW 200...240 V 1 phase 1.1...2 kW 200...240 V 3 phase 2.2...3 kW 380...440 V 3 phase
Motor Starter Type	Soft starter

## Environment

Electromagnetic Compatibility	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 EMC immunity level 3 EN 50082-1 EMC immunity level B EN 50082-2 Harmonics level 3 IEC 1000-3-2 Harmonics level 3 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
Product Certifications	C-tick CCC CSA UL GOST
Ip Degree Of Protection	IP20
Pollution Degree	2 EN/IEC 60947-4-2
Vibration Resistance	1 gn 13...150 Hz)EN/IEC 60068-2-6 1.5 mm peak to peak 3...13 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	14...104 °F (-10...40 °C) without derating 104...122 °F (40...50 °C) with current derating of 2 % per °C)
Ambient Air Temperature For Storage	-13...158 °F (-25...70 °C) EN/IEC 60947-4-2
Operating Altitude	<= 3280.84 ft (1000 m) without derating > 3280.84 ft (1000 m) with current derating of 2.2 % per additional 100 m

## Ordering and shipping details

Category	US10I1122392
Discount Schedule	0I11
Gtin	3389110667141
Returnability	Yes
Country Of Origin	DE

## Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	0.98 in (2.5 cm)
Package 1 Width	4.06 in (10.3 cm)
Package 1 Length	4.13 in (10.5 cm)
Package 1 Weight	6.28 oz (178.0 g)
Unit Type Of Package 2	S02
Number Of Units In Package 2	36
Package 2 Height	5.91 in (15.0 cm)
Package 2 Width	11.81 in (30.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	14.80 lb(US) (6.715 kg)

## Contractual warranty

Warranty	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 >](#)

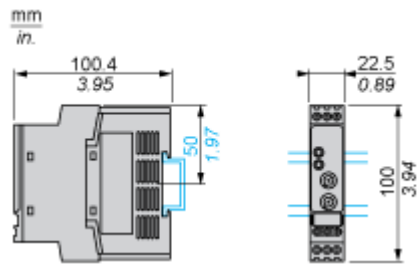
## Well-being performance

	Reach Free Of Svhc	
	Toxic Heavy Metal Free	
	Mercury Free	
	Rohs Exemption Information	Yes
Reach Regulation	<a href="#">REACH Declaration</a>	
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>	
China Rohs Regulation	<a href="#">China RoHS declaration</a>	
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.	
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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>	

Dimensions Drawings

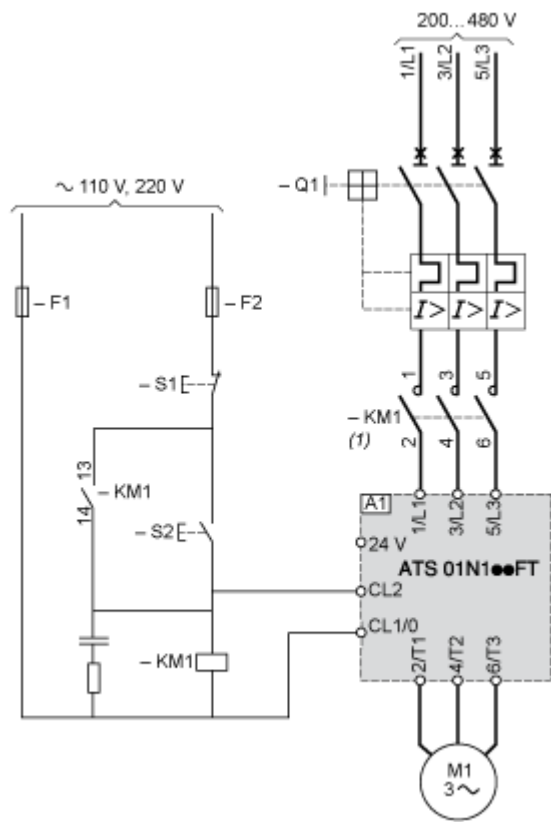
Dimensions

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

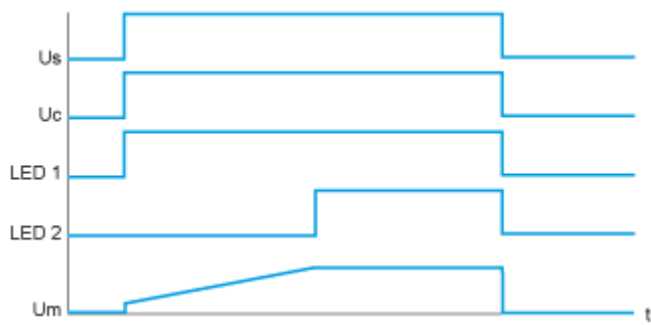
F1, F2 : Control protection fuses

S1, S2 : Pushbuttons

Technical Description

Function Diagram

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