

# Product data sheet

Specifications



soft starter for asynchronous motor,  
Altistart 01, ATS01, 25A, 110 to  
480V, 2.2 to 11kW

ATS01N125FT

Product availability: Stock - Normally stocked in distribution  
facility

Price\*: 288.00 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               | 11 kW, 3 phase 400 V<br>3 kW, 3 phase 230 V<br>4 kW, 3 phase 230 V<br>9 kW, 3 phase 400 V<br>7.5 kW, 3 phase 400 V<br>5.5 kW, 3 phase 230 V<br>2.2 kW, 1 phase 230 V |
| Maximum Horse Power Rating   | 11 hp, 3 phase 460 V<br>2 hp, 3 phase 210 V<br>3 hp, 3 phase 210 V<br>5 hp, 3 phase 230 V<br>9 hp, 3 phase 460 V<br>7.5 hp, 3 phase 230 V                            |
| Icl Starter Rating           | 25 A   |
| Utilisation Category         | AC-53B EN/IEC 60947-4-2  |
| Current Consumption          | 125 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<br>126 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 % 35 mA<br>24 V AC/DC +/- 10 % 30 mA<br>240 V AC +/- 10 % 80 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<br>5 s / 20<br>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<br>3 A AC-15   |
| Tightening Torque       | 4.43 lbf.in (0.5 N.m)<br>16.82...22.13 lbf.in (1.9...2.5 N.m)  |
| Electrical Connection   | 4 mm screw clamp terminal - rigid 1 1...10 mm² AWG 8 power circuit<br>Screw connector - rigid without cable end 1 0.5...2.5 mm² AWG 14 control circuit<br>4 mm screw clamp terminal - rigid 2 1...6 mm² AWG 10 power circuit<br>Screw connector - rigid 2 0.5...1 mm² AWG 17 control circuit<br>Screw connector - flexible with cable end 1 0.5...1.5 mm² AWG 16 control circuit<br>4 mm screw clamp terminal - flexible without cable end 1 1.5...10 mm² AWG 8 power circuit<br>Screw connector - flexible without cable end 1 0.5...2.5 mm² AWG 14 control circuit<br>4 mm screw clamp terminal - flexible with cable end 2 1...6 mm² AWG 10 power circuit<br>4 mm screw clamp terminal - flexible without cable end 2 1.5...6 mm² AWG 10 power circuit<br>Screw connector - flexible without cable end 2 0.5...1.5 mm² AWG 16 control circuit |
| Marking                 | CE   |
| Operating Position      | Vertical +/- 10 degree   |
| Height                  | 4.88 in (124 mm)   |
| Width                   | 1.77 in (45 mm)  |
| Depth                   | 5.16 in (131 mm)   |
| Net Weight              | 0.77 lb(US) (0.35 kg)  |
| Compatibility Code      | ATS01N1  |
| Motor Power Range Ac-3  | 2.2...3 kW 200...240 V 3 phase<br>2.2...3 kW 200...240 V 1 phase<br>4...6 kW 200...240 V 3 phase<br>7...11 kW 200...240 V 3 phase<br>7...11 kW 380...440 V 3 phase   |
| Motor Starter Type      | Soft starter   |

## Environment

|                               |  |
|-------------------------------|--|
| Electromagnetic Compatibility | Conducted and radiated emissions level B CISPR 11<br>Conducted and radiated emissions level B IEC 60947-4-2<br>Damped oscillating waves level 3 IEC 61000-4-12<br>Electrostatic discharge level 3 IEC 61000-4-2<br>EMC immunity level 3 EN 50082-1<br>EMC immunity level B EN 50082-2<br>Harmonics level 3 IEC 1000-3-2<br>Harmonics level 3 IEC 1000-3-4<br>Immunity to conducted interference caused by radio-electrical fields level 3 IEC 61000-4-6<br>Immunity to electrical transients level 4 IEC 61000-4-4<br>Immunity to radiated radio-electrical interference level 3 IEC 61000-4-3<br>Micro-cuts and voltage fluctuation IEC 61000-4-11<br>Voltage/current impulse level 3 IEC 61000-4-5 |
| Standards                     | EN/IEC 60947-4-2   |
| Product Certifications        | C-tick<br>CCC<br>GOST<br>CSA<br>UL   |
| 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<br>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<br>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<br>> 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              | 3389119200455 |
| Returnability     | Yes           |
| Country Of Origin | DE            |

## Packing Units

|                              |                         |
|------------------------------|-------------------------|
| Unit Type Of Package 1       | PCE                     |
| Number Of Units In Package 1 | 1                       |
| Package 1 Height             | 2.05 in (5.2 cm)        |
| Package 1 Width              | 6.10 in (15.5 cm)       |
| Package 1 Length             | 6.89 in (17.5 cm)       |
| Package 1 Weight             | 14.57 oz (413.0 g)      |
| Unit Type Of Package 2       | S03                     |
| Number Of Units In Package 2 | 14                      |
| Package 2 Height             | 11.81 in (30 cm)        |
| Package 2 Width              | 11.81 in (30 cm)        |
| Package 2 Length             | 15.75 in (40 cm)        |
| Package 2 Weight             | 13.96 lb(US) (6.333 kg) |

## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

## 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 >](#)

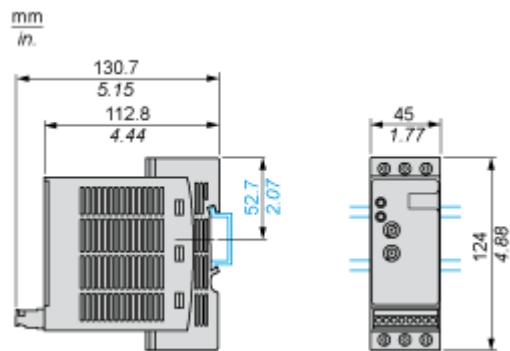
## Well-being performance

|   |                            |   |
|---|----------------------------|---|
|  | 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)<br><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> |

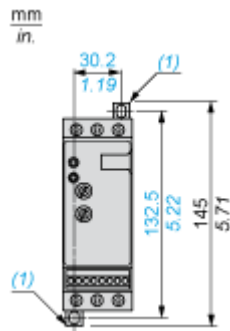
Dimensions Drawings

Dimensions

Mounting on Symetrical (35 mm) Rail

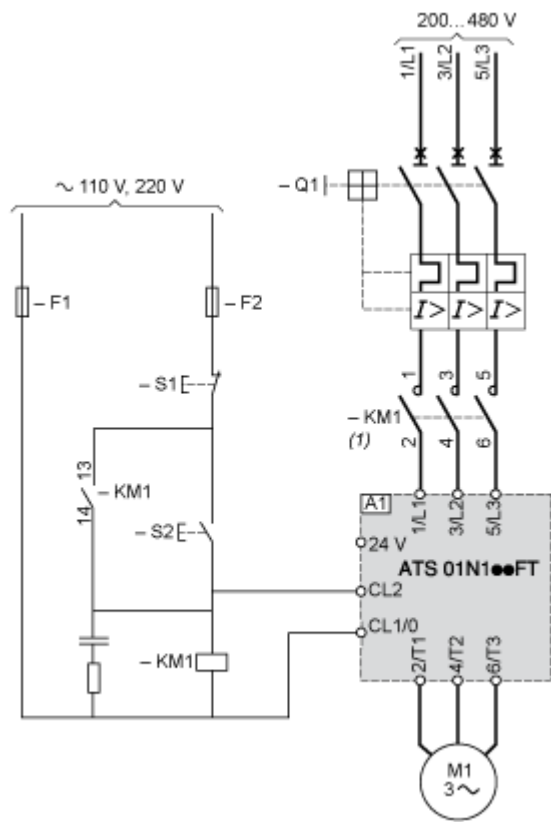


Screw Fixing



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

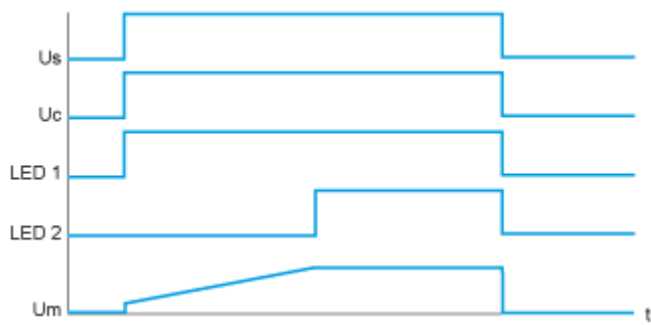
F1, F2 : Control protection fuses

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