

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

ATS01N109FT

Product availability: Stock - Normally stocked in distribution facility

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 | 110480 V - 1010 % | |
| Motor power kW | 4 kW, 3 phase 400 V 1.5 kW, 3 phase 230 V 1.1 kW, 1 phase 230 V | |
| Maximum Horse Power Rating | 1 hp, 3 phase 210 V 2 hp, 3 phase 230 V 5 hp, 3 phase 460 V | |
| IcL starter rating | 9 A | |
| Utilisation category | AC-53B 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 % 35 mA 24 V AC/DC +/- 10 % 30 mA 240 V AC +/- 10 % 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 | |

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

| Tightening torque | 4.4 lbf.in (0.5 N.m) 16.822.1 lbf.in (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 without cable end 2 1.56 mm² AWG 10 power circuit 5 crew connector - flexible without cable end 2 0.51.5 mm² AWG 16 control circuit | |
| Marking | CE | |
| Operating position | Vertical +/- 10 degree | |
| Height | 4.9 in (124 mm) | |
| Width | 1.8 in (45 mm) | |
| Depth | 5.2 in (131 mm) | |
| Net Weight | 0.62 lb(US) (0.28 kg) | |
| Compatibility code | ATS01N1 | |
| Motor power range AC-3 | 1.12 kW 200240 V 1 phase 2.23 kW 200240 V 3 phase 46 kW 380440 V 3 phase | |
| 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 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 | |
|---------------------------------------|--|--|
| Standards | EN/IEC 60947-4-2 | |
| Product Certifications | C-tick GOST CSA CCC UL | |
| IP Degree of Protection | IP20 | |
| Pollution degree | 2 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 11 ms EN/IEC 60068-2-27 | |
| Relative humidity | 595 % without condensation or dripping water EN/IEC 60068-2-3 | |
| Ambient air temperature for operation | 14104 °F (-1040 °C) (without derating) 104122 °F (4050 °C) (with current derating of 2 % per °C) | |
| Ambient air temperature for storage | -13158 °F (-2570 °C) EN/IEC 60947-4-2 | |

Ordering and shipping details

| Category | US10I1122392 |
|-------------------|---------------|
| Discount Schedule | 0111 |
| GTIN | 3389110667158 |
| Returnability | Yes |
| Country of origin | DE |

Packing Units

| Unit Type of Package 1 | PCE | |
|------------------------------|----------------------------|--|
| Number of Units in Package 1 | 1 | |
| Package 1 Height | 2.09 in (5.300 cm) | |
| Package 1 Width | 5.91 in (15.000 cm) | |
| Package 1 Length | 6.69 in (17.000 cm) | |
| Package 1 Weight | 12.028 oz (341.000 g) | |
| Unit Type of Package 2 | S03 | |
| Number of Units in Package 2 | 14 | |
| Package 2 Height | 11.81 in (30.000 cm) | |
| Package 2 Width | 11.81 in (30.000 cm) | |
| Package 2 Length | 15.75 in (40.000 cm) | |
| Package 2 Weight | 11.854 lb(US) (5.377 kg) | |
| Unit Type of Package 3 | P06 | |
| Number of Units in Package 3 | 112 | |
| Package 3 Height | 29.53 in (75.000 cm) | |
| Package 3 Width | 23.62 in (60.000 cm) | |
| Package 3 Length | 31.50 in (80.000 cm) | |
| Package 3 Weight | 124.826 lb(US) (56.620 kg) | |

Contractual warranty

Warranty 18 months



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

| Packaging made with recycled cardboard | Yes |
|--|---|
| Packaging without single use plastic | Yes |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) |
| REACh Regulation | REACh Declaration |
| 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 |

Use Again

| ○ Repack and remanufacture | | |
|----------------------------|--|--|
| Take-back | No | |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. | |

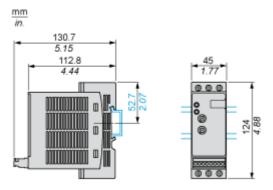
Product data sheet

ATS01N109FT

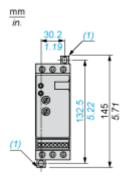
Dimensions Drawings

Dimensions

Mounting on Symetrical (35 mm) Rail



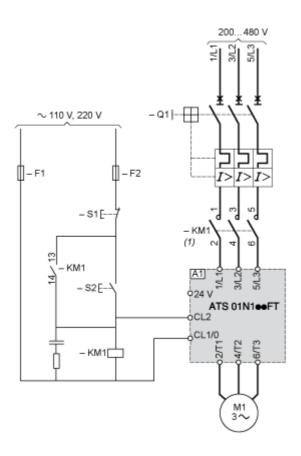
Screw Fixing



(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

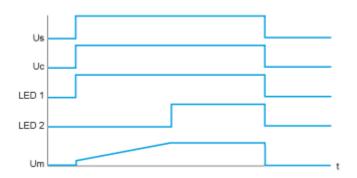
S1, S2: Pushbuttons

Product data sheet

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Technical Description

Function Diagram



Us: Power supply voltage
Uc: Control supply voltage

LED 1 : Green LED
LED 2 : Yellow LED
Um : Motor voltage