

soft starter for asynchronous motor, Altistart 01, ATS01, 9A, 460 to 480V

ATS01N209RT

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 | 3 phase | |
| [Us] rated supply voltage | 460480 V - 1010 % | |
| Maximum Horse Power Rating | 5 hp, 3 phase 460480 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 | 4 W at full load and at end of starting 94 W in transient state | |

Complementary

| With heat sink | |
|--|--|
| Integrated bypass | |
| 414528 V | |
| 5060 Hz - 55 % | |
| 47.563 Hz | |
| <= power supply voltage | |
| Built into the starter | |
| 1 s / 100 | |
| 5 s / 20 | |
| 10 s / 10 | |
| Adjustable from 1 to 10 s | |
| Adjustable from 1 to 10 s | |
| 3080 % of starting torque of motor connected directly on the line supply | |
| Logic Ll1, Ll2, BOOST) stop, run and boost on start-up functions <= 8 mA 27 kOhm | |
| 2440 V | |
| Positive LI1, LI2, BOOST < 5 V <= 0.2 mA > 13 V, >= 0.5 mA | |
| 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.

| Discrete output type | Open collector logic LO1 end of starting signal Relay outputs R1A, R1C NO | |
|---------------------------|--|--|
| Discrete output voltage | 24 V 630 V) open collector logic | |
| Minimum switching current | 10 mA 6 V DC relay outputs | |
| Maximum switching current | Relay outputs 2 A 250 V AC cos phi = 0.5 20 ms inductive Relay outputs 2 A 30 V DC cos phi = 0.5 20 ms inductive | |
| Display type | LED Green)starter powered up LED Yellow)nominal voltage reached | |
| Tightening torque | 16.822.1 lbf.in (1.92.5 N.m) 4.4 lbf.in (0.5 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) | |
| Product Weight | 0.93 lb(US) (0.42 kg) | |
| Compatibility code | ATS01N2 | |

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 61000-4-5 | |
|-------------------------------|---|--|
| Standards | EN/IEC 60947-4-2 | |
| Product Certifications | CCC GOST CSA UL C-tick | |
| 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 | |
| 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 | 0111 |
| GTIN | 3389110667240 |
| Returnability | Yes |
| Country of origin | DE |

Packing Units

| Unit Type of Package 1 | PCE | |
|------------------------------|--------------------------|--|
| Nbr. of units in pkg. | 1 | |
| Package 1 Height | 2.05 in (5.200 cm) | |
| Package 1 Width | 5.91 in (15.000 cm) | |
| Package 1 Length | 6.69 in (17.000 cm) | |
| Package weight(Lbs) | 18.660 oz (529.000 g) | |
| Unit Type of Package 2 | \$03 | |
| 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 | 17.743 lb(US) (8.048 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) |
| 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 Label | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. | |

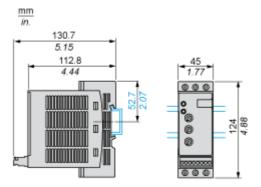
Product data sheet

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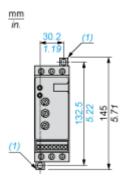
Dimensions Drawings

Dimensions

Mounting on Symetrical (35 mm) Rail



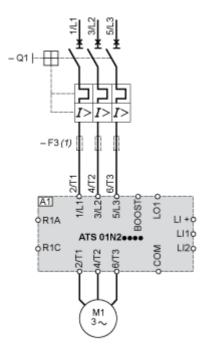
Screw Fixing



(1) Retractable fixings

Connections and Schema

Example of Manual Control



A1: Soft start/soft stop unit(1) For type 2 coordinationQ1: Motor circuit-breakerF3: 3 fast-acting fuses

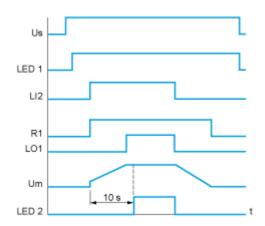
Product data sheet

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Technical Description

Function Diagram

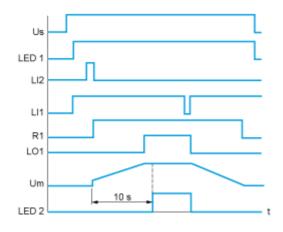
2-wire Control with Deceleration



Us: Power supply voltage

LED 1: Green LED
LI2: Logic input
R1: Relay output
LO1: Logic output
LED 2: Yellow LED

3-wire Control with Deceleration



Us: Power supply voltage

LED 1: Green LED
LI2, LI1: Logic inputs
R1: Relay output
LO1: Logic output
Um: Motor voltage
LED 2: Yellow LED

Product data sheet ATS01N209RT

Image of product / Alternate images

Alternative





