

# Product data sheet

Specifications



## soft starter for asynchronous motor, Altistart 01, ATS01, 32A, 460 to 480V

ATS01N232RT

**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	460...480 V - 10...10 %
Maximum Horse Power Rating	20 hp, 3 phase 460...480 V
I <sub>CL</sub> starter rating	32 A
Utilisation category	AC-53B EN/IEC 60947-4-2
Current consumption	160 A at nominal load
Type of start	Start with voltage ramp
Power dissipation in W	4.5 W at full load and at end of starting 324.5 W in transient state

### Complementary

Assembly style	With heat sink
Function Available	Integrated bypass
Supply voltage limits	414...528 V
Supply frequency	50...60 Hz - 5...5 %
Network Frequency	47.5...63 Hz
Output voltage	<= power supply voltage
[Uc] control circuit voltage	Built into the starter
Starting time	Adjustable from 1 to 10 s 1 s / 50 10 s / 5 5 s / 10
Deceleration time symb	Adjustable from 1 to 10 s
Starting torque	30...80 % of starting torque of motor connected directly on the line supply
Discrete input type	Logic L11, L12, BOOST) stop, run and boost on start-up functions <= 8 mA 27 kOhm
Discrete input voltage	24...40 V
Discrete input logic	Positive L11, L12, BOOST < 5 V <= 0.2 mA > 13 V, >= 0.5 mA
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.

<b>Discrete output type</b>	Open collector logic LO1 end of starting signal Relay outputs R1A, R1C NO
<b>Discrete output voltage</b>	24 V ...30 V) open collector logic
<b>Minimum switching current</b>	10 mA 6 V DC relay outputs
<b>Maximum switching current</b>	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
<b>Display type</b>	1 LED Green)starter powered up 1 LED Yellow)nominal voltage reached
<b>Tightening torque</b>	16.8...22.1 lbf.in (1.9...2.5 N.m) 4.4 lbf.in (0.5 N.m)
<b>Electrical connection</b>	4 mm screw clamp terminal - rigid 1 1...10 mm <sup>2</sup> AWG 8 power circuit Screw connector - rigid without cable end 1 0.5...2.5 mm <sup>2</sup> AWG 14 control circuit 4 mm screw clamp terminal - rigid 2 1...6 mm <sup>2</sup> AWG 10 power circuit Screw connector - rigid 2 0.5...1 mm <sup>2</sup> AWG 17 control circuit Screw connector - flexible with cable end 1 0.5...1.5 mm <sup>2</sup> AWG 16 control circuit 4 mm screw clamp terminal - flexible without cable end 1 1.5...10 mm <sup>2</sup> AWG 8 power circuit Screw connector - flexible without cable end 1 0.5...2.5 mm <sup>2</sup> AWG 14 control circuit 4 mm screw clamp terminal - flexible with cable end 2 1...6 mm <sup>2</sup> AWG 10 power circuit 4 mm screw clamp terminal - flexible without cable end 2 1.5...6 mm <sup>2</sup> AWG 10 power circuit Screw connector - flexible without cable end 2 0.5...1.5 mm <sup>2</sup> AWG 16 control circuit
<b>Marking</b>	CE
<b>Operating position</b>	Vertical +/- 10 degree
<b>Height</b>	6.06 in (154 mm)
<b>Width</b>	1.8 in (45 mm)
<b>Depth</b>	5.2 in (131 mm)
<b>Product Weight</b>	1.23 lb(US) (0.56 kg)
<b>Compatibility code</b>	ATS01N2

## 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>	CCC UL CSA C-tick GOST
<b>IP Degree of Protection</b>	IP20
<b>Pollution degree</b>	2 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 11 ms EN/IEC 60068-2-27
<b>Relative humidity</b>	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	3389110673128
Returnability	Yes
Country of origin	DE

## Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	2.17 in (5.500 cm)
Package 1 Width	5.98 in (15.200 cm)
Package 1 Length	6.89 in (17.500 cm)
Package weight(Lbs)	23.598 oz (669.000 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	22.066 lb(US) (10.009 kg)

## Contractual warranty

Warranty	18 months
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## Environmental Data

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

#### Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
<a href="#">EU RoHS Directive</a>	Pro-active compliance (Product out of EU RoHS legal scope)
California proposition 65	<b>WARNING:</b> 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="#">www.P65Warnings.ca.gov</a>

### Use Again

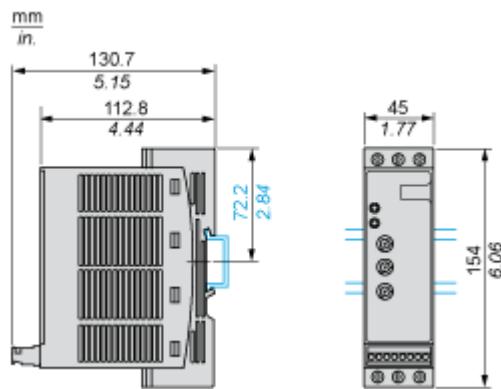
#### Repack and remanufacture

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.

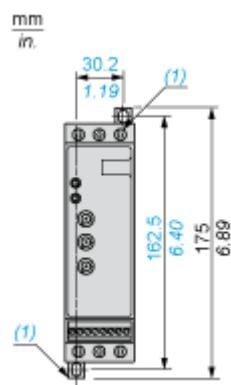
## Dimensions Drawings

## Dimensions

## Mounting on Symetrical (35 mm) Rail



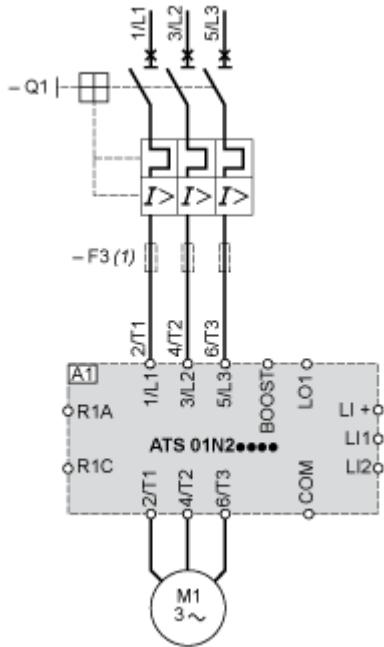
## Screw Fixing



(1) Retractable fixings

## Connections and Schema

## Example of Manual Control



A1 : Soft start/soft stop unit

(1) For type 2 coordination

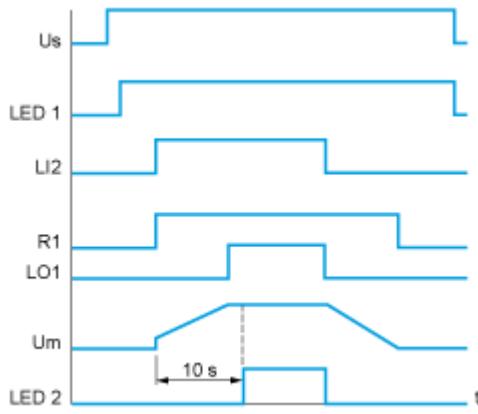
Q1 : Motor circuit-breaker

F3 : 3 fast-acting fuses

## Technical Description

Function Diagram

## 2-wire Control with Deceleration



Us : Power supply voltage

LED 1 : Green LED

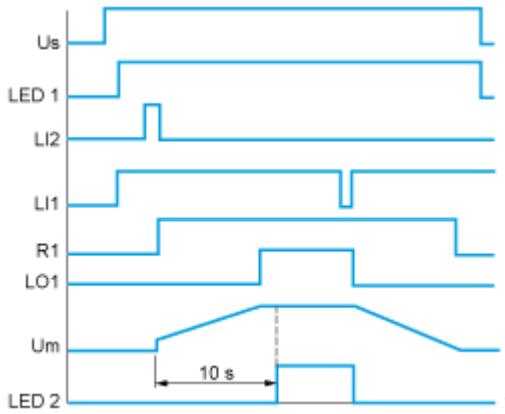
LI2 : Logic input

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