

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 phases                                                           |
| [Us] rated supply voltage    | 460...480 V - 10...10 %                                            |
| Motor power hp               | 2 hp 3 phases 460...480 V<br>3 hp 3 phases 460...480 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       | 4 W at full load and at end of starting<br>64 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                | 1 s 100<br>10 s 10<br>5 s 20<br>Adjustable from 1 to 10 s                                                           |
| 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 LI1, LI2, BOOST stop, run and boost on start-up functions <= 8 mA 27 kOhm                                     |
| Discrete input voltage       | 24...40 V                                                                                                           |
| Discrete input logic         | Positive LI1, LI2, BOOST < 5 V and <= 0.2 mA > 13 V >= 0.5 mA                                                       |
| Discrete output current      | 2 A DC-13<br>3 A AC-15                                                                                              |
| Discrete output type         | Open collector logic LO1 end of starting signal<br>Relay outputs R1A, R1C NO                                        |
| Discrete output voltage      | 24 V 6...30 V open collector logic                                                                                  |
| Minimum switching current    | 10 mA 6 V DC relay outputs                                                                                          |
| Maximum switching current    | 2 A 250 V AC inductive cos phi = 0.5 20 ms relay outputs<br>2 A 30 V DC inductive cos phi = 0.5 20 ms relay outputs |
| Display type                 | 1 LED green starter powered up<br>1 LED yellow nominal voltage reached                                              |
| Tightening torque            | 16.81...22.12 lbf.in (1.9...2.5 N.m)<br>4.42 lbf.in (0.5 N.m)                                                       |

The information provided in this documentation contains general descriptions and/or technical characteristics of the products of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Electrical connection | 4 mm screw clamp terminal rigid 1 1...10 mm <sup>2</sup> AWG 8 power circuit<br>Screw connector rigid 1 0.5...2.5 mm <sup>2</sup> AWG 14 control circuit<br>4 mm screw clamp terminal rigid 2 1...6 mm <sup>2</sup> AWG 10 power circuit<br>Screw connector rigid 2 0.5...1 mm <sup>2</sup> AWG 17 control circuit<br>Screw connector flexible with cable end 1 0.5...1.5 mm <sup>2</sup> AWG 16 control circuit<br>4 mm screw clamp terminal flexible without cable end 1 1.5...10 mm <sup>2</sup> AWG 8 power circuit<br>Screw connector flexible without cable end 1 0.5...2.5 mm <sup>2</sup> AWG 14 control circuit<br>4 mm screw clamp terminal flexible with cable end 2 1...6 mm <sup>2</sup> AWG 10 power circuit<br>4 mm screw clamp terminal flexible without cable end 2 1.5...6 mm <sup>2</sup> AWG 10 power circuit<br>Screw connector flexible without cable end 2 0.5...1.5 mm <sup>2</sup> 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Product weight        | 0.93 lb(US) (0.42 kg)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Compatibility code    | ATS01N2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

## Environment

|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Electromagnetic compatibility         | Damped oscillating waves level 3 IEC 61000-4-12<br>Electrostatic discharge level 3 IEC 61000-4-2<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>Voltage/Current impulse level 3 IEC 61000-4-5<br>Conducted and radiated emissions level B CISPR 11<br>Conducted and radiated emissions level B IEC 60947-4-2<br>EMC immunity EN 50082-2<br>Harmonics IEC 1000-3-2<br>Harmonics IEC 1000-3-4<br>Immunity to conducted interference caused by radio-electrical fields level 3 IEC 61000-4-6<br>Micro-cuts and voltage fluctuation IEC 61000-4-11<br>EMC immunity EN 50082-1 |
| Standards                             | EN/IEC 60947-4-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Product certifications                | B44.1-96/ASME A17.5 for starter wired to the motor delta terminal<br>C-Tick<br>CCC<br>UL<br>GOST<br>CSA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| IP degree of protection               | IP20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Pollution degree                      | 2 EN/IEC 60947-4-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Vibration resistance                  | 1.5 mm peak to peak 3...13 Hz EN/IEC 60068-2-6<br>1 gn 13...150 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              | 22392 - ATS01/ATS01 LOW HP SOFT STARTERS |
| Discount Schedule     | I11                                      |
| GTIN                  | 00785901817055                           |
| Nbr. of units in pkg. | 1                                        |
| Package weight(Lbs)   | 1.1100000000000001                       |
| Returnability         | Y                                        |
| Country of origin     | DE                                       |

## Offer Sustainability

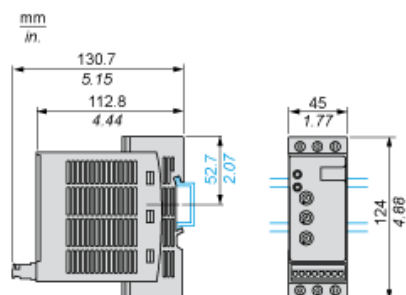
|                            |                                                                                                                                  |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| California proposition 65  | WARNING: This product can expose you to chemicals including:                                                                     |
| - - - - - Substance 1      | Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. |
| - - - - - Substance 2      | Bisphenol A (BPA), which is known to the State of California to cause birth defects or other reproductive harm.                  |
| - - - - - More information | For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>                                    |

## Contractual warranty

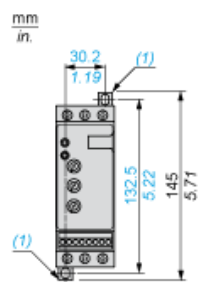
|                 |           |
|-----------------|-----------|
| Warranty period | 18 months |
|-----------------|-----------|

## Dimensions

### Mounting on Symetrical (35 mm) Rail

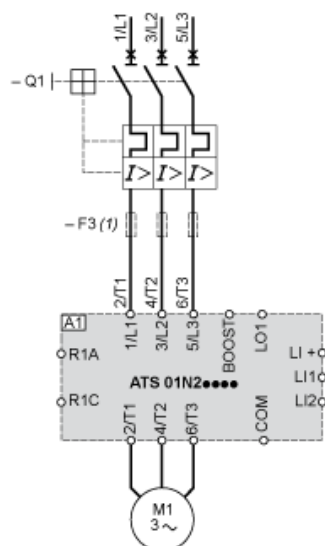


### Screw Fixing



(1) Retractable fixings

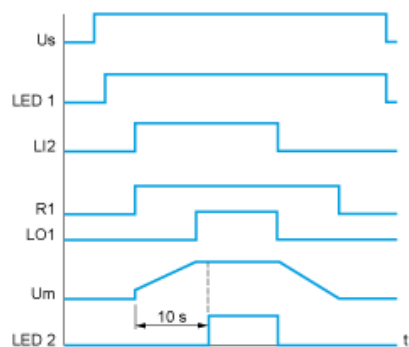
## Example of Manual Control



- A1 : Soft start/soft stop unit
- (1) For type 2 coordination
- Q1 : Motor circuit-breaker
- F3 : 3 fast-acting fuses

## Function Diagram

### 2-wire Control with Deceleration



Us : Power supply voltage

LED Green LED

1 :

LI2 : Logic input

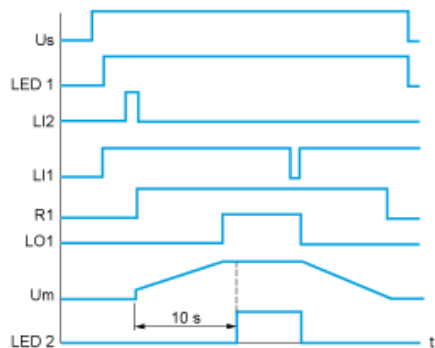
R1 : Relay output

LO1 : Logic output

LED Yellow LED

2 :

### 3-wire Control with Deceleration



Us : Power supply voltage

LED Green LED

1 :

LI2, Logic inputs

LI1 :

R1 : Relay output

LO1 : Logic output

Um : Motor voltage

LED Yellow LED

2 :

# Mouser Electronics

Authorized Distributor

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