ATS01N112FT
soft starter for asynchronous motor - ATS01 - 12 A - 110..480V - 1.5..5.5 KW

Product availability : Stock - Normally stocked in distribution facility

Price** : 145.00 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**:
  - 2.2 kW, 3 phases 230 V
  - 5.5 kW, 3 phases 400 V
  - 1.5 kW, 1 phase 230 V
- **Maximum Horse Power Rating**:
  - 3 hp, 3 phases 230 V
  - 1.5 hp, 3 phases 210 V
  - 7.5 hp, 3 phases 460 V
- **IcL starter rating**: 12 A
- **Utilisation category**: AC-53B EN/IEC 60947-4-2
- **Current consumption**: 60 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
  - 61 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
  - 24 V AC/DC +/- 10 % 30 mA
  - 240 V AC +/- 10 % 80 mA
- **Starting time**:
  - 1 s / 100
  - 5 s / 20

---

**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.
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
3 A AC-15

Tightening torque
16.82…22.13 lbf.in (1.9…2.5 N.m)
4.43 lbf.in (0.5 N.m)

Electrical connection
4 mm screw clamp terminal - rigid 1 1...10 mm² AWG 8 power circuit
Screw connector - rigid 1 0.5...2.5 mm² AWG 14 control circuit
4 mm screw clamp terminal - rigid 2 1...6 mm² AWG 10 power circuit
Screw connector - rigid 2 0.5...1 mm² AWG 17 control circuit
Screw connector - flexible with cable end 1 0.5...1.5 mm² AWG 16 control circuit
4 mm screw clamp terminal - flexible without cable end 1 1.5...10 mm² AWG 8 power circuit
Screw connector - flexible without cable end 1 0.5...2.5 mm² AWG 14 control circuit
4 mm screw clamp terminal - flexible with cable end 2 1...6 mm² AWG 10 power circuit
4 mm screw clamp terminal - flexible without cable end 2 1.5...6 mm² AWG 10 power circuit
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
0.62 lb(US) (0.28 kg)

Compatibility code
ATS01N1

Motor power range AC-3
1.1…2 kW 200…240 V 1 phase
2.2…3 kW 200…240 V 3 phases
4…6 kW 380…440 V 3 phases

Motor starter type
Soft starter

Environment

Electromagnetic compatibility
Conducted and radiated emissions level B CISPR 11
Conducted and radiated emissions level B IEC 60947-4-2
Damped oscillating waves level 3 IEC 61000-4-12
Electrostatic discharge level 3 IEC 61000-4-2
EMC immunity EN 50082-1
EMC immunity EN 50082-2
Harmonics IEC 1000-3-2
Harmonics IEC 1000-3-4
Immunity to conducted interference caused by radio-electrical fields level 3 IEC 61000-4-6
Immunity to electrical transients level 4 IEC 61000-4-4
Immunity to radiated radio-electrical interference level 3 IEC 61000-4-3
Micro-cuts and voltage fluctuation IEC 61000-4-11
Voltage/current impulse level 3 IEC 61000-4-5

Standards
EN/IEC 60947-4-2

Product certifications
B44.1-96/ASME A17.5 for starter wired to the motor delta terminal
C-Tick
CCC
UL
CSA
GOST

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
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
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
> 3280.84 ft (1000 m) with current derating of 2.2 % per additional 100 m
## Ordering and shipping details

<table>
<thead>
<tr>
<th>Category</th>
<th>22392 - ATSU01/ATS01 LOW HP SOFT STARTERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discount Schedule</td>
<td>111</td>
</tr>
<tr>
<td>GTIN</td>
<td>00785901667452</td>
</tr>
<tr>
<td>Package weight(Lbs)</td>
<td>0.35 kg (0.78 lb(US))</td>
</tr>
<tr>
<td>Returnability</td>
<td>Yes</td>
</tr>
<tr>
<td>Country of origin</td>
<td>DE</td>
</tr>
</tbody>
</table>

## Offer Sustainability

<table>
<thead>
<tr>
<th>REACH Regulation</th>
<th>REACH Declaration</th>
</tr>
</thead>
<tbody>
<tr>
<td>REACH free of SVHC</td>
<td>Yes</td>
</tr>
<tr>
<td>EU RoHS Directive</td>
<td>Pro-active compliance (Product out of EU RoHS legal scope)</td>
</tr>
<tr>
<td></td>
<td>EU RoHS Declaration</td>
</tr>
<tr>
<td>Toxic heavy metal free</td>
<td>Yes</td>
</tr>
<tr>
<td>Mercury free</td>
<td>Yes</td>
</tr>
<tr>
<td>RoHS exemption information</td>
<td>Yes</td>
</tr>
<tr>
<td>China RoHS Regulation</td>
<td>China RoHS declaration</td>
</tr>
<tr>
<td>Circularity Profile</td>
<td>End of Life Information</td>
</tr>
<tr>
<td>WEEE</td>
<td>The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.</td>
</tr>
</tbody>
</table>

## Contractual warranty

| Warranty                  | 18 months                                |