

## Product data sheet

### Characteristics

# ATS01N103FT

Soft starter for asynchronous motor, Altistart 01, ATS01, 3 A-110..480V-0.55..1.1 KW

### 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  |
| Network number of phases     | 1 phase  |
| [Us] rated supply voltage    | 110...480 V - 10...10 %  |
| Motor power kW               | 0.37 KW, 3 phases at 230 V<br>0.55 KW, 3 phases at 230 V<br>1.1 KW, 3 phases at 400 V<br>0.37 kW, 1 phase at 230 V |
| Motor power hp               | 0.5 Hp, 3 phases at 230 V<br>0.5 Hp, 3 phases at 460 V<br>1.5 hp, 3 phases at 460 V                                |
| IcL starter rating           | 3 A  |
| Utilisation category         | AC-53B conforming to EN/IEC 60947-4-2  |
| Current consumption          | 15 A at nominal load   |
| Type of start                | Start with voltage ramp  |
| Power dissipation in W       | 19 W in transient state<br>4 W at full load and at end of starting   |

### 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 % at 30 mA<br>24 V AC/DC +/- 10 % at 25 mA<br>240 V AC +/- 10 % at 65 mA |
| Starting time                | 1 s / 100<br>5 s / 20<br>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<br>3 A AC-15   |
| Tightening torque            | 0.8 N.m  |

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|                        |   |
|------------------------|---|
| Electrical connection  | Cage type connector - rigid 1 2.5 mm <sup>2</sup> AWG 14 control circuit<br>Cage type connector - rigid with cable end 1 2.5 mm <sup>2</sup> AWG 14 power circuit<br>Cage type connector - rigid without cable end 2 1 mm <sup>2</sup> AWG 17 control circuit<br>Cage type connector - rigid without cable end 2 1 mm <sup>2</sup> AWG 17 power circuit<br>Cage type connector - flexible with cable end 1 2.5 mm <sup>2</sup> AWG 14 control circuit<br>Cage type connector - flexible with cable end 1 2.5 mm <sup>2</sup> AWG 14 power circuit<br>Cage type connector - flexible without cable end 1 2.5 mm <sup>2</sup> AWG 14 control circuit<br>Cage type connector - flexible without cable end 1 2.5 mm <sup>2</sup> AWG 14 power circuit<br>Cage type connector - flexible with cable end 2 0.75 mm <sup>2</sup> AWG 18 control circuit<br>Cage type connector - flexible with cable end 2 0.75 mm <sup>2</sup> AWG 18 power circuit<br>Cage type connector - flexible without cable end 2 1 mm <sup>2</sup> AWG 17 control circuit<br>Cage type connector - flexible without cable end 2 1 mm <sup>2</sup> AWG 17 power circuit |
| Marking                | CE  |
| Operating position     | Vertical +/- 10 degree  |
| Height                 | 100 mm  |
| Width                  | 23 mm   |
| Depth                  | 100 mm  |
| Net weight             | 0.16 kg   |
| Compatibility code     | ATS01N1   |
| Motor power range AC-3 | 0...0.5 KW at 200...240 V 1 phase<br>0...0.5 KW at 200...240 V 3 phases<br>0.55...1 KW at 200...240 V 3 phases<br>1.1...2 kW at 380...440 V 3 phases  |
| Motor starter type     | Soft starter  |

## Environment

|                                       |  |
|---------------------------------------|--|
| Electromagnetic compatibility         | Conducted and radiated emissions level B conforming to CISPR 11<br>Conducted and radiated emissions level B conforming to IEC 60947-4-2<br>Damped oscillating waves level 3 conforming to IEC 61000-4-12<br>Electrostatic discharge level 3 conforming to IEC 61000-4-2<br>EMC immunity level 3 conforming to EN 50082-1<br>EMC immunity level B conforming to EN 50082-2<br>Harmonics level 3 conforming to IEC 1000-3-2<br>Harmonics level 3 conforming to IEC 1000-3-4<br>Immunity to conducted interference caused by radio-electrical fields level 3 conforming to IEC 61000-4-6<br>Immunity to electrical transients level 4 conforming to IEC 61000-4-4<br>Immunity to radiated radio-electrical interference level 3 conforming to IEC 61000-4-3<br>Micro-cuts and voltage fluctuation conforming to IEC 61000-4-11<br>Voltage/current impulse level 3 conforming to IEC 61000-4-5 |
| Standards                             | EN/IEC 60947-4-2   |
| Product certifications                | CSA[RETURN]GOST[RETURN]C-Tick[RETURN]UL[RETURN]CCC   |
| IP degree of protection               | IP20   |
| Pollution degree                      | 2 conforming to EN/IEC 60947-4-2   |
| Vibration resistance                  | 1 gn (f= 13...150 Hz) conforming to EN/IEC 60068-2-6<br>1.5 mm peak to peak (f= 3...13 Hz) conforming to EN/IEC 60068-2-6  |
| Shock resistance                      | 15 gn for 11 ms conforming to EN/IEC 60068-2-27  |
| Relative humidity                     | 5...95 % without condensation or dripping water conforming to EN/IEC 60068-2-3   |
| Ambient air temperature for operation | -10...40 °C (without derating)<br>40...50 °C (with current derating of 2 % per °C)   |
| Ambient air temperature for storage   | -25...70 °C conforming to EN/IEC 60947-4-2   |
| Operating altitude                    | <= 1000 m without derating<br>> 1000 m with current derating of 2.2 % per additional 100 m   |

## Packing Units

|                              |           |
|------------------------------|-----------|
| Unit Type of Package 1       | PCE       |
| Number of Units in Package 1 | 1         |
| Package 1 Height             | 2.500 cm  |
| Package 1 Width              | 10.300 cm |
| Package 1 Length             | 10.500 cm |
| Package 1 Weight             | 172.000 g |
| Unit Type of Package 2       | S02       |
| Number of Units in Package 2 | 36        |

|                  |           |
|------------------|-----------|
| Package 2 Height | 15.000 cm |
| Package 2 Width  | 30.000 cm |
| Package 2 Length | 40.000 cm |
| Package 2 Weight | 6.491 kg  |

### Offer Sustainability

|                            |  |
|----------------------------|--|
| REACH Regulation           |  <a href="#">REACH Declaration</a>  |
| REACH free of SVHC         | Yes  |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)  <a href="#">EU RoHS Declaration</a> |
| Toxic heavy metal free     | Yes  |
| Mercury free               | Yes  |
| RoHS exemption information |  <a href="#">Yes</a>  |
| China RoHS Regulation      |  <a href="#">China RoHS Declaration</a>   |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins  |

### Contractual warranty

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