

# Bảng thông số sản phẩm

## Đặc điểm

# ATS01N106FT

soft starter for asynchronous motor - ATS01 - 6 A  
- 110..480V - 0.75..3 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               | 3 kW 3 phases 400 V<br>0.75 kW 3 phases 230 V<br>1.1 kW 3 phases 230 V<br>2.2 kW 3 phases 400 V<br>0.75 kW 1 phase 230 V |
| Motor power hp               | 1 hp 3 phases 230 V<br>2 hp 3 phases 460 V<br>3 hp 3 phases 460 V<br>0.5 hp 3 phases 210 V<br>1.5 hp 3 phases 230 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       | 1 W at full load and at end of starting<br>31 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   |
| Control circuit voltage | 110 V AC +/- 10 % 30 mA<br>24 V AC/DC +/- 10 % 25 mA<br>240 V AC +/- 10 % 65 mA |
| Starting time           | 1 s 100   |

5 s 20  
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  |
| Electrical connection   | Cage type connector rigid 1 2.5 mm <sup>2</sup> AWG 14 control circuit<br>Cage type connector rigid 1 2.5 mm <sup>2</sup> AWG 14 power circuit<br>Cage type connector rigid 2 1 mm <sup>2</sup> AWG 17 control circuit<br>Cage type connector rigid 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   |
| Product weight          | 0.16 kg  |
| Compatibility code      | ATS01N1  |
| Motor power range AC-3  | 0.55...1 kW at 200...240 V 1 phase<br>2.2...3 kW at 380...440 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<br>1.1...2 kW at 200...240 V 3 phases  |
| Motor starter type      | Soft starter   |

## 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>CCC<br>CSA<br>C-Tick<br>GOST<br>UL  |
| 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 temp for op             | -10...40 °C without derating<br>40...50 °C with current derating of 2 % per °C   |
| Ambient air temperature for storage | -25...70 °C EN/IEC 60947-4-2   |
| Operating altitude                  | <= 1000 m without derating<br>> 1000 m with current derating of 2.2 % per additional 100 m   |

## Contractual warranty

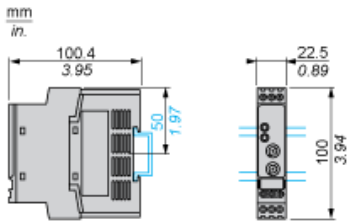
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|        |           |
|--------|-----------|
| Period | 18 months |
|--------|-----------|

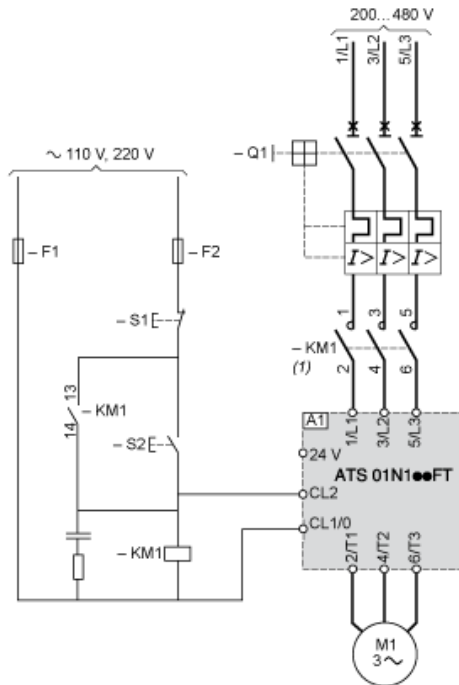
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Dimensions

Mounting on Symetrical (35 mm) Rail or Asymetrical Rail with Adaptor RHZ 66

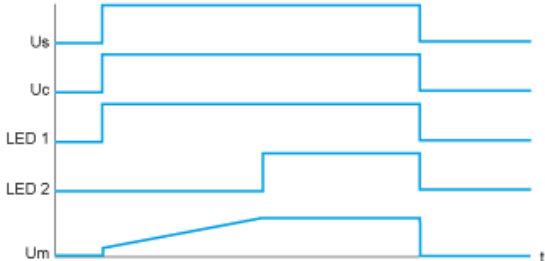


Example of 3-phase Power Supply Connection



- (1) A line contactor must be used in the sequence.  
 A1 : Soft starter  
 Q1 : Motor circuit-breaker  
 KM1 : Contactors  
 F1, F2 : Control protection fuses  
 S1, S2 : Pushbuttons

Function Diagram



- Us : Power supply voltage
- Uc : Control supply voltage
- LED 1 : Green LED
- LED 2 : Yellow LED
- Um : Motor voltage