

# ATS48C25Y

soft starter for asynchronous motor - ATS48 -  
240 A - 208..690 V - 55..250 KW



## Main

|                              |  |
|------------------------------|--|
| Range of product             | Altistart 48   |
| Product or component type    | Soft starter   |
| Product destination          | Asynchronous motors  |
| Product specific application | Heavy duty industry and pumps  |
| Device short name            | ATS48  |
| Power supply voltage         | 208...690 V - 15...10 %  |
| Motor power kW               | 110 KW at 400 V for severe applications<br>110 KW at 440 V for severe applications<br>132 KW at 400 V for standard applications<br>132 KW at 440 V for standard applications<br>132 KW at 500 V for severe applications<br>132 KW at 525 V for severe applications<br>160 KW at 500 V for standard applications<br>160 KW at 525 V for standard applications<br>160 KW at 660 V for severe applications<br>200 KW at 690 V for severe applications<br>220 KW at 660 V for standard applications<br>250 KW at 690 V for standard applications<br>55 KW at 230 V for severe applications<br>75 kW at 230 V for standard applications |
| Motor power hp               | 100 Hp at 230 V for standard applications<br>150 Hp at 460 V for severe applications<br>200 Hp at 460 V for standard applications<br>200 Hp at 575 V for severe applications<br>250 Hp at 575 V for standard applications<br>60 Hp at 208 V for severe applications<br>75 Hp at 208 V for standard applications<br>75 hp at 230 V for severe applications  |
| Power dissipation in W       | 580 W for standard applications<br>695 W for standard applications   |
| Utilisation category         | AC-53A   |
| Type of start                | Start with torque control (current limited to 5 In)  |
| Icl nominal current          | 250 A for connection in the motor supply line for severe applications<br>250 A for connection in the motor supply line for standard applications   |
| IP degree of protection      | IP00   |

## Complementary

|                               |                                    |
|-------------------------------|------------------------------------|
| Assembly style                | With heat sink                     |
| Function available            | External bypass (optional)         |
| Power supply voltage limits   | 177...759 V                        |
| Power supply frequency        | 50...60 Hz - 5...5 %               |
| Power supply frequency limits | 47.5...63 Hz                       |
| Device connection             | In the motor supply line           |
| Factory setting current       | 240 A                              |
| [Uc] control circuit voltage  | 110 - 15 % to 230 + 10 %, 50/60 Hz |
| Control circuit consumption   | 50 W                               |
| Discrete output number        | 2                                  |

|                                    |   |
|------------------------------------|---|
| Discrete output type               | (LO1) logic output 0 V common configurable<br>(LO2) logic output 0 V common configurable<br>(R1) relay outputs fault relay NO<br>(R2) relay outputs end of starting relay NO<br>(R3) relay outputs motor powered NO |
| Output absolute accuracy precision | +/- 5 %   |
| Minimum switching current          | 10 mA at 6 V DC for relay outputs   |
| Maximum switching current          | Logic output 0.2 A at 30 V DC<br>Relay outputs 1.8 A at 230 V AC inductive load, cos phi = 0.5 20 ms<br>Relay outputs 1.8 A at 30 V DC inductive load, cos phi = 0.5 20 ms  |
| Discrete input number              | 5   |
| Discrete input type                | PTC, 750 Ohm at 25 °C<br>(Stop, Run, LI3, LI4) logic, <= 8 mA 4300 Ohm  |
| Discrete input voltage             | 24 V <= 30 V  |
| Discrete input logic               | Positive logic Stop, Run, LI3, LI4 at State 0: < 5 V and <= 2 mA at State 1: > 11 V, >= 5 mA  |
| Starting current                   | 0.4...1.3 I <sub>cl</sub> adjustable  |
| Analogue output type               | Current output AO: 0-20 mA or 4-20 mA, impedance <500 Ohm   |
| Communication port protocol        | Modbus  |
| Connector type                     | 1 RJ45  |
| Communication data link            | Serial  |
| Physical interface                 | RS485 multidrop   |
| Transmission rate                  | 4800, 9600 or 19200 bps   |
| Max nodes number                   | 31  |
| Protection type                    | Phase failure: line<br>Thermal protection: motor<br>Thermal protection: starter   |
| Marking                            | CE  |
| Type of cooling                    | Forced convection   |
| Operating position                 | Vertical +/- 10 degree  |
| Height                             | 380 mm  |
| Width                              | 320 mm  |
| Depth                              | 265 mm  |
| Net weight                         | 18.2 kg   |
| Motor power range AC-3             | 55...100 kW at 200...240 V 3 phases<br>110...220 kW at 380...440 V 3 phases<br>110...220 kW at 480...500 V 3 phases   |
| Motor starter type                 | Soft starter  |

## Environment







|                               |  |
|-------------------------------|--|
| Electromagnetic compatibility | Conducted and radiated emissions level A 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>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>Voltage/current impulse level 3 conforming to IEC 61000-4-5 |
| Standards                     | EN/IEC 60947-4-2   |
| Product certifications        | CCC<br>UL<br>SEPRO<br>TCF<br>GOST<br>CSA<br>NOM 117<br>DNV<br>C-Tick   |
| Vibration resistance          | 1 gn (f= 13...200 Hz) conforming to EN/IEC 60068-2-6<br>1.5 mm (f= 2...13 Hz) conforming to EN/IEC 60068-2-6   |
| Shock resistance              | 15 gn for 11 ms conforming to EN/IEC 60068-2-27  |
| Noise level                   | 54 dB  |
| Pollution degree              | Level 3 conforming to IEC 60664-1  |
| Relative humidity             | 0...95 % without condensation or dripping water conforming to EN/IEC 60068-2-3   |

|                                       |   |
|---------------------------------------|---|
| Ambient air temperature for operation | 40...60 °C (with current derating of 2 % per °C)<br>-10...40 °C (without derating)                |
| Ambient air temperature for storage   | -25...70 °C   |
| Operating altitude                    | <= 1000 m without derating<br>> 1000...2000 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 Weight             | 22 kg   |
| Package 1 Height             | 43 cm   |
| Package 1 width              | 46 cm   |
| Package 1 Length             | 51 cm   |
| Unit Type of Package 2       | S06     |
| Number of Units in Package 2 | 1       |
| Package 2 Weight             | 35 kg   |
| Package 2 Height             | 73.5 cm |
| Package 2 width              | 60 cm   |
| Package 2 Length             | 80 cm   |

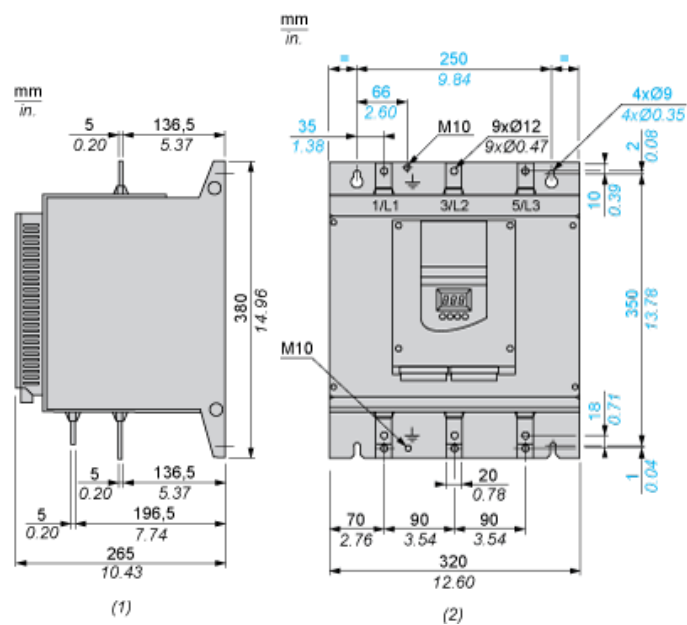
## Offer Sustainability

|                            |  |
|----------------------------|--|
| Sustainable offer status   | Green Premium product  |
| REACH Regulation           |  <a href="#">REACH Declaration</a>  |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)  <a href="#">EU RoHS Declaration</a> |
| Mercury free               | Yes  |
| RoHS exemption information |  <a href="#">Yes</a>  |
| China RoHS Regulation      |  <a href="#">China RoHS Declaration</a>   |
| Environmental Disclosure   |  <a href="#">Product Environmental Profile</a>  |
| Circularity Profile        |  <a href="#">End Of Life Information</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 |
|----------|-----------|

Dimensions



(1) Right View

(2) Front View

## Clearance

