

# Product data sheet

Specifications



soft starter for asynchronous motor,  
Altistart 48, 675A, 230..415V,  
220..630kW

ATS48C79Q

- ⚠ Discontinued on: 02 May 2023
- ⚠ To be end-of-service on: 31 December 2030

⚠ Discontinued - Service only

## 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Utilisation category         | AC-53A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Ue power supply voltage      | 230...415 V - 15...10 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Power supply frequency       | 50...60 Hz - 5...5 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Motor power kW               | 630 kW at 400 V connection to the motor delta terminals for standard applications<br>220 kW at 230 V connection in the motor supply line for standard applications<br>315 kW at 230 V connection to the motor delta terminals for severe applications<br>355 kW at 230 V connection to the motor delta terminals for standard applications<br>355 kW at 400 V connection in the motor supply line for severe applications<br>400 kW at 400 V connection in the motor supply line for standard applications<br>500 kW at 400 V connection to the motor delta terminals for severe applications |

## Complementary

|                           |                                                                                              |
|---------------------------|----------------------------------------------------------------------------------------------|
| Device connection         | In the motor supply line<br>To the motor delta terminals                                     |
| Protection type           | Phase failure: line<br>Thermal protection: motor<br>Thermal protection: starter              |
| Standards                 | EN/IEC 60947-4-2                                                                             |
| Product certifications    | SEPRO<br>C-Tick<br>TCF<br>GOST<br>UL<br>CCC<br>CSA<br>DNV<br>NOM 117                         |
| Marking                   | CE                                                                                           |
| 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 logic      | Positive logic Stop, Run, LI3, LI4 at State 0: < 5 V and <= 2 mA at State 1: > 11 V, >= 5 mA |
| Minimum switching current | 10 mA at 6 V DC for relay outputs                                                            |

|                             |                                                                                                                                                                                                                     |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 |
| 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                                                                                                                                                                                             |
| Function available          | External bypass (optional)                                                                                                                                                                                          |
| Operating position          | Vertical +/- 10 degree                                                                                                                                                                                              |
| Height                      | 890 mm                                                                                                                                                                                                              |
| Width                       | 770 mm                                                                                                                                                                                                              |
| Depth                       | 315 mm                                                                                                                                                                                                              |
| Product weight              | 115 kg                                                                                                                                                                                                              |

## 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 |
| 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 Height             | 61.000 cm  |
| Package 1 Width              | 91.000 cm  |
| Package 1 Length             | 103.000 cm |
| Package 1 Weight             | 123.000 kg |

## 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)<br><a href="#">EU RoHS Declaration</a> |
| Mercury free               | Yes                                                                                               |
| China RoHS Regulation      | <a href="#">China RoHS declaration</a>                                                            |
| RoHS exemption information | <a href="#">Yes</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                                                                                                                                                                 |
| California proposition 65 | WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |

Contractual warranty

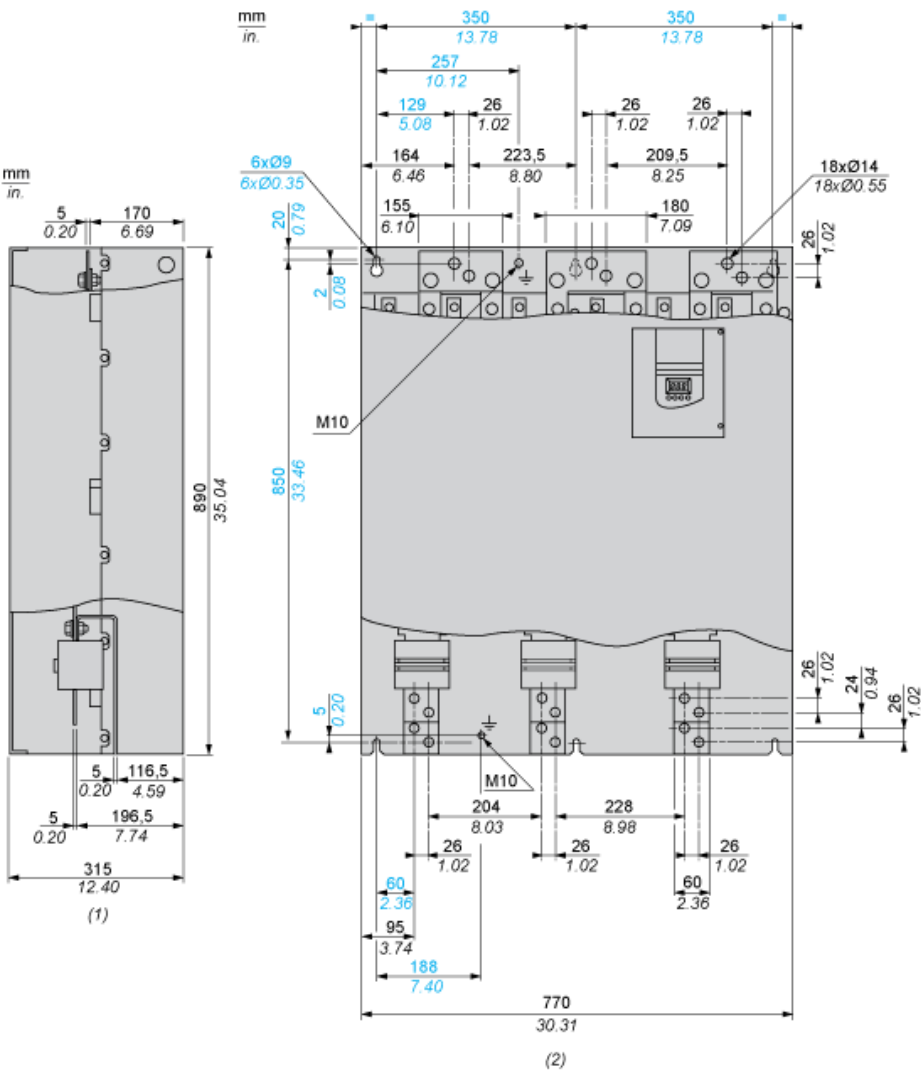
|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

Product data sheet

Dimensions Drawings

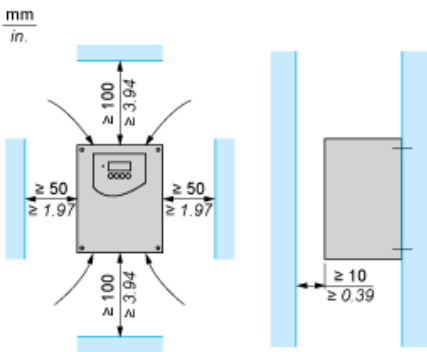
ATS48C79Q

Dimensions



(1) Right View  
(2) Front View

Clearance



Recommended replacement(s)

ATS48C79Q is replaced by:

1x



soft starter, Altistart 480, 790A, 208...690V AC, control supply 110...230V AC  
ATS480C79Y