

# Product datasheet

Specifications



soft starter for asynchronous motor,  
ATS48, 590 A, 208..690 V, 160..630  
KW

ATS48C66Y

⚠ Discontinued on: 30 Apr 2023

⚠ To be end-of-service on: 31 Dec 2030

⚠ Discontinued

## 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      | 208...690 V - 15...10 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Power Supply Frequency       | 50...60 Hz - 5...5 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Motor Power Kw               | 160 kW at 230 V for severe applications<br>315 kW at 400 V for severe applications<br>355 kW at 400 V for standard applications<br>355 kW at 440 V for severe applications<br>400 kW at 440 V for standard applications<br>400 kW at 500 V for severe applications<br>400 kW at 525 V for severe applications<br>560 kW at 660 V for severe applications<br>560 kW at 690 V for severe applications<br>630 kW at 660 V for standard applications<br>630 kW at 690 V for standard applications |
| Motor Power Hp               | 200 hp at 208 V for standard applications<br>200 hp at 230 V for severe applications<br>250 hp at 230 V for standard applications<br>400 hp at 460 V for severe applications<br>500 hp at 460 V for standard applications<br>500 hp at 575 V for severe applications<br>600 hp at 575 V for standard applications                                                                                                                                                                             |

## Complementary

|                        |                                                                                 |
|------------------------|---------------------------------------------------------------------------------|
| Device Connection      | In the motor supply line                                                        |
| Protection Type        | Phase failure: line<br>Thermal protection: motor<br>Thermal protection: starter |
| Standards              | EN/IEC 60947-4-2                                                                |
| Product Certifications | SEPRO<br>DNV<br>CCC<br>NOM 117<br>CSA<br>UL<br>GOST<br>TCF<br>C-Tick            |

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

|                             |                                                                                                                                                                                                                     |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                      | 670 mm                                                                                                                                                                                                              |
| Width                       | 400 mm                                                                                                                                                                                                              |
| Depth                       | 300 mm                                                                                                                                                                                                              |
| Net Weight                  | 51.4 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             | 51.5 cm |
| Package 1 Width              | 59 cm   |
| Package 1 Length             | 78 cm   |
| Package 1 Weight             | 54.5 kg |

|                              |       |
|------------------------------|-------|
| Unit Type Of Package 2       | P06   |
| Number Of Units In Package 2 | 1     |
| Package 2 Height             | 75 cm |
| Package 2 Width              | 60 cm |
| Package 2 Length             | 80 cm |
| Package 2 Weight             | 63 kg |

## Contractual warranty

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

## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

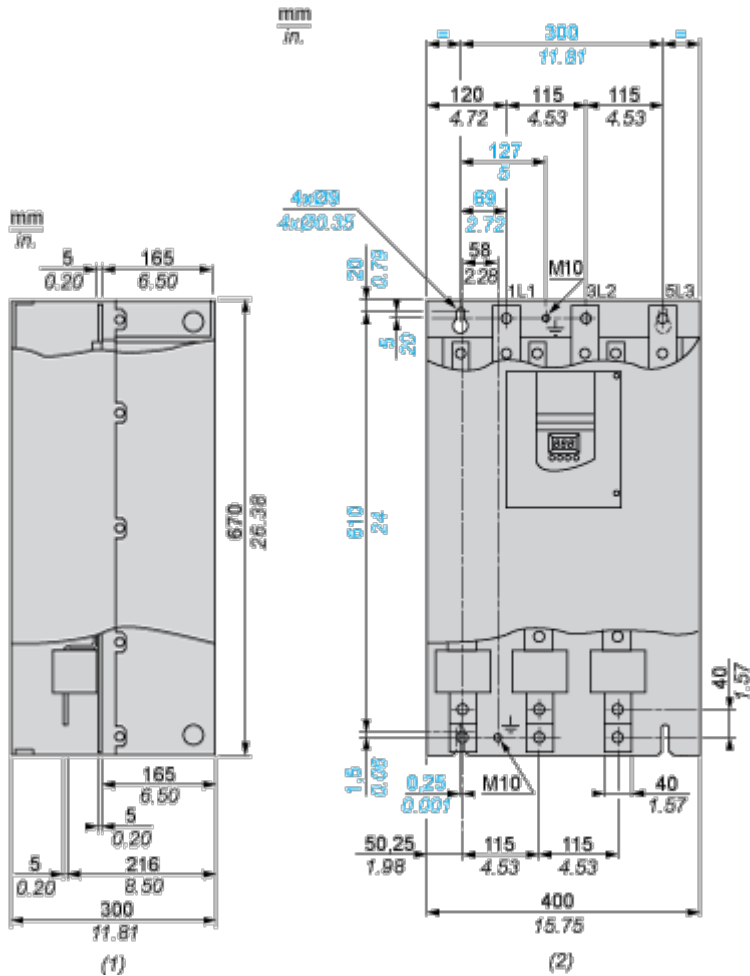
[Guide to assess a product's sustainability >](#)

## Well-being performance

|                                                                                                              |                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
|  Mercury Free               |                                                                                                                             |
|  Rohs Exemption Information | <a href="#">Yes</a>                                                                                                         |
| Reach Regulation                                                                                             | <a href="#">REACH Declaration</a>                                                                                           |
| Eu Rohs Directive                                                                                            | Pro-active compliance (Product out of EU RoHS legal scope)                                                                  |
| 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 |

## Dimensions Drawings

## Dimensions



(1) Right View

(2) Front View

Mounting and Clearance

Clearance

