

# Product data sheet

Specifications



soft starter for asynchronous motor, Altistart 48, 69A, 230..415V, 15..55kW

ATS48D75Q

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               | 55 kW at 400 V connection to the motor delta terminals for standard applications<br>55 kW at 400 V connection to the motor delta terminals for severe applications<br>15 kW at 230 V connection in the motor supply line for severe applications<br>18.5 kW at 230 V connection in the motor supply line for standard applications<br>30 kW at 230 V connection to the motor delta terminals for severe applications<br>30 kW at 400 V connection in the motor supply line for severe applications<br>37 kW at 230 V connection to the motor delta terminals for standard applications<br>37 kW at 400 V connection in the motor supply line for standard applications |

## Complementary

|                        |                                                                                              |
|------------------------|----------------------------------------------------------------------------------------------|
| Device connection      | To the motor delta terminals<br>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 | DNV<br>GOST<br>UL<br>NOM 117<br>CCC<br>CSA<br>C-Tick<br>TCF<br>SEPRO                         |
| 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                      | 290 mm                                                                                                                                                                                                              |
| Width                       | 190 mm                                                                                                                                                                                                              |
| Depth                       | 235 mm                                                                                                                                                                                                              |
| Product weight              | 8.3 kg                                                                                                                                                                                                              |

## Environment

|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Electromagnetic compatibility         | Conducted and radiated emissions level A conforming to IEC 60947-4-2<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>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             | 36 cm     |
| Package 1 Width              | 30.5 cm   |
| Package 1 Length             | 39 cm     |
| Package 1 Weight             | 10.266 kg |
| Unit Type of Package 2       | P06       |
| Number of Units in Package 2 | 2         |
| Package 2 Height             | 73.5 cm   |
| Package 2 Width              | 80 cm     |
| Package 2 Length             | 60 cm     |
| Package 2 Weight             | 33.532 kg |

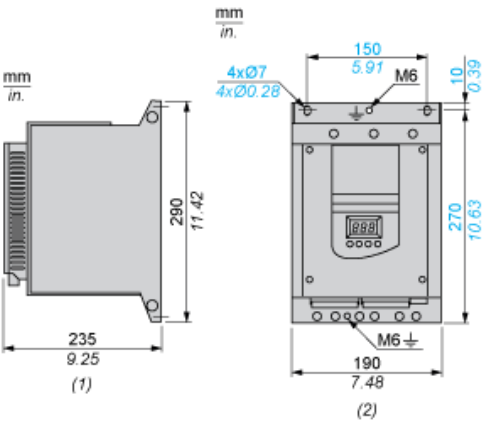
Offer Sustainability

|                            |                                                                                                                                                                                                                                                                                             |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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

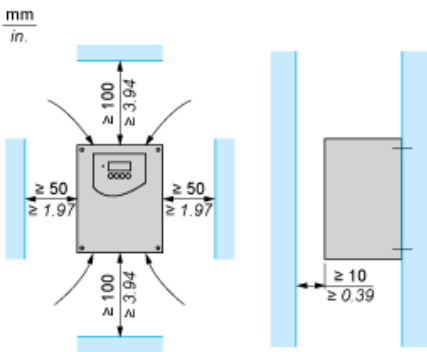
|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

Dimensions



(1) Right View  
(2) Front View

Clearance



Recommended replacement(s)

ATS48D75Q is replaced by:

1x



soft starter, Altistart 480, 75A, 208...690V AC, control supply 110...230V AC  
ATS480D75Y