

## Product data sheet

### Characteristics

# ATS48D62Q

soft starter for asynchronous motor - ATS48 -  
57 A - 230..415 V - 11..55 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 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>11 KW at 230 V connection in the motor supply line for severe applications<br>15 KW at 230 V connection in the motor supply line for standard applications<br>22 KW at 230 V connection to the motor delta terminals for severe applications<br>22 KW at 400 V connection in the motor supply line for severe applications<br>30 KW at 230 V connection to the motor delta terminals for standard applications<br>30 KW at 400 V connection in the motor supply line for standard applications<br>45 kW at 400 V connection to the motor delta terminals for severe 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      | TCF[RETURN]CSA[RETURN]DNV[RETURN]JUL[RETURN]C-Tick[RETURN]NOM 117[RETURN]CCC[RETURN]SEPRO[RETURN]GOST                                                                                                               |
| 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                     |
| Net 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             | 35.4 cm   |
| Package 1 Width              | 36.2 cm   |
| Package 1 Length             | 44.8 cm   |
| Package 1 Weight             | 9.246 kg  |
| Unit Type of Package 2       | P06       |
| Number of Units in Package 2 | 2         |
| Package 2 Height             | 73.5 cm   |
| Package 2 Width              | 80.0 cm   |
| Package 2 Length             | 60.0 cm   |
| Package 2 Weight             | 31.792 kg |

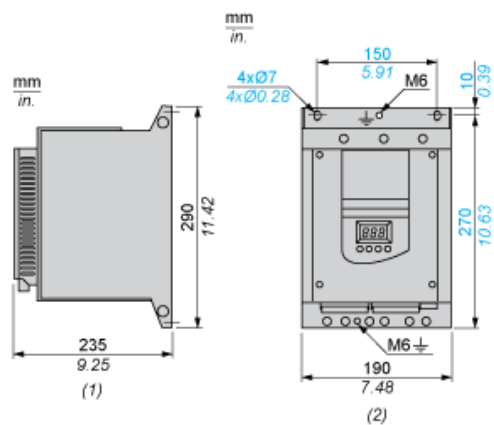
## Offer Sustainability

|                            |                                                                                                                             |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| REACH Regulation           |  <a href="#">REACH Declaration</a>       |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)                                                                  |
| Mercury free               | Yes                                                                                                                         |
| China RoHS Regulation      |  <a href="#">China RoHS Declaration</a>  |
| RoHS exemption information |  Yes                                     |
| 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

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Clearance

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