

# ATS48D22Q

soft starter for asynchronous motor - ATS48 -  
21 A - 230..415 V - 4..18.5 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               | 7.5 KW at 230 V connection to the motor delta terminals for severe applications<br>7.5 KW at 400 V connection in the motor supply line for severe applications<br>9 KW at 230 V connection to the motor delta terminals for standard applications<br>11 KW at 400 V connection in the motor supply line for standard applications<br>15 KW at 400 V connection to the motor delta terminals for severe applications<br>18.5 KW at 400 V connection to the motor delta terminals for standard applications<br>4 KW at 230 V connection in the motor supply line for severe applications<br>5.5 kW at 230 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    | SEPRO<br>UL<br>CCC<br>DNV<br>CSA<br>TCF<br>C-Tick<br>NOM 117<br>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                      | 275 mm                     |
| Width                       | 160 mm                     |
| Depth                       | 190 mm                     |
| Net weight                  | 4.9 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             | 29.000 cm |
| Package 1 Width              | 26.000 cm |
| Package 1 Length             | 37.000 cm |
| Package 1 Weight             | 5.701 kg  |
| Unit Type of Package 2       | P06       |
| Number of Units in Package 2 | 8         |
| Package 2 Height             | 75.000 cm |
| Package 2 Width              | 60.000 cm |
| Package 2 Length             | 80.000 cm |
| Package 2 Weight             | 58.608 kg |

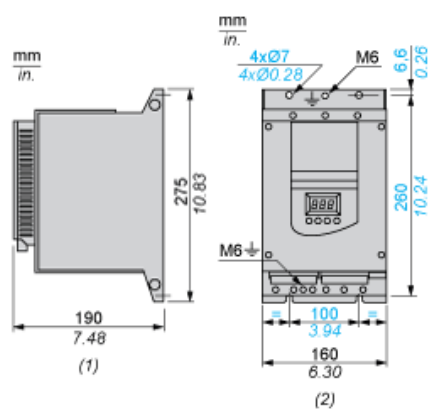
## Offer Sustainability

|                            |                                                                                                                                                                                      |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                                                                                                                                                                                  |
| China RoHS Regulation      |  <a href="#">China RoHS Declaration</a>                                                           |
| RoHS exemption information |  <a href="#">Yes</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 |
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## Dimensions



(1) Right View

(2) Front View

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Clearance

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