

## Product data sheet

### Characteristics

# ATS48D88Q

soft starter for asynchronous motor, ATS48, 81 A, 230..415 V, 18.5..75 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 severe applications<br>75 KW at 400 V connection to the motor delta terminals for standard applications<br>18.5 KW at 230 V connection in the motor supply line for severe applications<br>22 KW at 230 V connection in the motor supply line for standard applications<br>37 KW at 230 V connection to the motor delta terminals for severe applications<br>37 KW at 400 V connection in the motor supply line for severe applications<br>45 KW at 230 V connection to the motor delta terminals for standard applications<br>45 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    | CCC<br>CSA<br>SEPRO<br>UL<br>C-Tick<br>GOST<br>NOM 117<br>TCF<br>DNV                         |
| 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

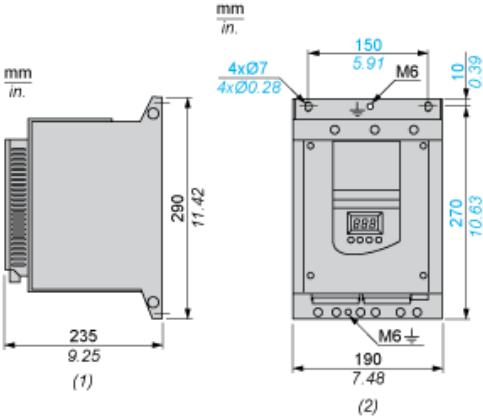
|                              |           |
|------------------------------|-----------|
| Unit Type of Package 1       | PCE       |
| Number of Units in Package 1 | 1         |
| Package 1 Weight             | 9.204 kg  |
| Package 1 Height             | 35.2 cm   |
| Package 1 width              | 35.8 cm   |
| Package 1 Length             | 44.8 cm   |
| Unit Type of Package 2       | P06       |
| Number of Units in Package 2 | 2         |
| Package 2 Weight             | 31.896 kg |
| Package 2 Height             | 73.5 cm   |
| Package 2 width              | 80.0 cm   |
| Package 2 Length             | 60.0 cm   |

## 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)  <a href="#">EU RoHS Declaration</a> |
| Mercury free               | Yes  |
| RoHS exemption information |  <a href="#">Yes</a>  |
| China RoHS Regulation      |  <a href="#">China RoHS Declaration</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 |
| <b>Contractual warranty</b> |   |
| Warranty                    | 18 months   |

Dimensions



(1) Right View  
(2) Front View

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Clearance

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