

## ATS48D17Q

soft starter for asynchronous motor - ATS48 - 14.8 A  
- 230..415 V - 3..15 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  |
| [Us] rated supply voltage    | 230...415 V (- 15...10 %)  |
| Motor power kW               | 7.5 kW at 230 V (connection to the motor delta terminals) for standard applications<br>7.5 kW at 400 V (connection in the motor supply line) for standard applications<br>11 kW at 400 V (connection to the motor delta terminals) for severe applications<br>15 kW at 400 V (connection to the motor delta terminals) for standard applications<br>3 kW at 230 V (connection in the motor supply line) for severe applications<br>4 kW at 230 V (connection in the motor supply line) for standard applications<br>5.5 kW at 230 V (connection to the motor delta terminals) for severe applications<br>5.5 kW at 400 V (connection in the motor supply line) for severe applications |
| Power dissipation in W       | For severe applications 46 W<br>For standard applications 59 W   |
| Utilisation category         | AC-53A   |
| Type of start                | Start with torque control (current limited to 5 In)  |
| IcL starter rating           | 17 A (connection in the motor supply line) for standard applications<br>17 A (connection in the motor supply line) for severe applications<br>29 A (connection to the motor delta terminals) for severe applications<br>29 A (connection to the motor delta terminals) for standard applications   |
| IP degree of protection      | IP20   |

### Complementary

|                                    |   |
|------------------------------------|---|
| Assembly style                     | With heat sink  |
| Function available                 | External bypass (optional)  |
| Supply voltage limits              | 195...456 V   |
| Supply frequency                   | 50...60 Hz (- 5...5 %)  |
| Network frequency                  | 47.5...63 Hz  |
| Device connection                  | In the motor supply line<br>To the motor delta terminals  |
| Factory setting current            | 14.8 A  |
| [Uc] control circuit voltage       | 220 - 15 % to 415 + 10 %, 50/60 Hz  |
| Control circuit consumption        | 30 W  |
| 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 |
| Output absolute accuracy precision | +/- 5 %   |
| Minimum switching current          | Relay outputs 10 mA at 6 V DC   |
| Maximum switching current          | Logic output 0.2 A at 30 V DC   |

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Relay outputs 1.8 A at 230 V AC inductive load, cos phi = 0.5, L/R = 20 ms  
 Relay outputs 1.8 A at 30 V DC inductive load, cos phi = 0.5, L/R = 20 ms

|                             |  |
|-----------------------------|--|
| 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 voltage      | 24 V (<= 30 V)   |
| Discrete input logic        | Positive logic (Stop, Run, LI3, LI4) state 0 < 5 V and <= 2 mA, state 1 > 11 V and >= 5 mA   |
| Supply inrush current       | Adjustable 0.4...1.3 Icl   |
| Analogue output type        | (AO) current output 0-20 mA or 4-20 mA <= 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  |
| Installed device            | 31   |
| Protection type             | Phase failure (line)<br>Thermal protection (motor)<br>Thermal protection (starter)   |
| Marking                     | CE   |
| Type of cooling             | Natural convection   |
| Operating position          | Vertical +/- 10 degree   |
| Height                      | 275 mm   |
| Width                       | 160 mm   |
| Depth                       | 190 mm   |
| Product weight              | 4.9 kg   |
| Power range                 | 2.2...3 kW at 200...240 V 3 phases<br>7...11 kW at 380...440 V 3 phases<br>4...6 kW at 380...440 V 3 phases<br>4...6 kW at 200...240 V 3 phases<br>7...11 kW at 200...240 V 3 phases<br>15...25 kW at 380...440 V 3 phases |
| Motor starter type          | Soft starter   |

## Environment

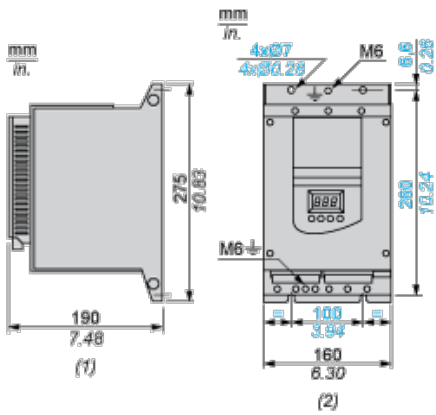
|                                       |  |
|---------------------------------------|--|
| electromagnetic compatibility         | Conducted and radiated emissions conforming to IEC 60947-4-2 level A<br>Conducted and radiated emissions conforming to IEC 60947-4-2 level B<br>Damped oscillating waves conforming to IEC 61000-4-12 level 3<br>Electrostatic discharge conforming to IEC 61000-4-2 level 3<br>Immunity to electrical transients conforming to IEC 61000-4-4 level 4<br>Immunity to radiated radio-electrical interference conforming to IEC 61000-4-3 level 3<br>Voltage/current impulse conforming to IEC 61000-4-5 level 3 |
| standards                             | EN/IEC 60947-4-2   |
| product certifications                | CCC<br>CSA<br>C-Tick<br>DNV<br>GOST<br>NOM 117<br>SEPRO<br>TCF<br>UL   |
| vibration resistance                  | 1 gn (f = 13...200 Hz) conforming to EN/IEC 60068-2-6<br>1.5 mm (f = 2...13 Hz) conforming to EN/IEC 60068-2-6   |
| shock resistance                      | 15 gn for 11 ms conforming to EN/IEC 60068-2-27  |
| pollution degree                      | Level 3 conforming to IEC 60664-1  |
| relative humidity                     | 0...95 % without condensation or dripping water conforming to EN/IEC 60068-2-3   |
| ambient air temperature for operation | -10...40 °C without derating<br>-10...40 °C without derating<br>40...60 °C with current derating of 2 % per °C   |
| 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  |

## Contractual warranty

Warranty period

18 months

## Dimensions



(1) Right View

(2) Front View

## Clearance

