



Price\* : 5,604.00 GBP



## Main

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| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Power supply voltage         | 208...690 V - 15...10 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Motor power kW               | 132 kW at 230 V for severe applications<br>160 kW at 230 V for standard applications<br>250 kW at 400 V for severe applications<br>250 kW at 440 V for severe applications<br>315 kW at 400 V for standard applications<br>315 kW at 500 V for severe applications<br>315 kW at 525 V for severe applications<br>355 kW at 440 V for standard applications<br>400 kW at 500 V for standard applications<br>400 kW at 525 V for standard applications<br>400 kW at 660 V for severe applications<br>500 kW at 690 V for severe applications<br>560 kW at 660 V for standard applications<br>560 kW at 690 V for standard applications |
| Motor power hp               | 150 hp at 208 V for severe applications<br>200 hp at 230 V for standard applications<br>350 hp at 460 V for severe applications<br>400 hp at 460 V for standard applications<br>400 hp at 575 V for severe applications<br>500 hp at 575 V for standard applications                                                                                                                                                                                                                                                                                                                                                                 |
| Power dissipation in W       | 1386 W for standard applications<br>1731 W for standard applications                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Utilisation category         | AC-53A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Type of start                | Start with torque control (current limited to 5 In)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Icl nominal current          | 590 A for connection in the motor supply line for standard applications<br>590 A for connection in the motor supply line for severe applications                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| IP degree of protection      | IP00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

## Complementary

|                                    |                                                                                                                                                                                                                     |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Assembly style                     | With heat sink                                                                                                                                                                                                      |
| Function available                 | External bypass (optional)                                                                                                                                                                                          |
| Power supply voltage limits        | 177...759 V                                                                                                                                                                                                         |
| Power supply frequency             | 50...60 Hz - 5...5 %                                                                                                                                                                                                |
| Power supply frequency limits      | 47.5...63 Hz                                                                                                                                                                                                        |
| Device connection                  | In the motor supply line                                                                                                                                                                                            |
| Factory setting current            | 477 A                                                                                                                                                                                                               |
| [Uc] control circuit voltage       | 110 - 15 % to 230 + 10 %, 50/60 Hz                                                                                                                                                                                  |
| Control circuit consumption        | 80 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          | 10 mA at 6 V DC for relay outputs                                                                                                                                                                                   |
| Maximum switching current          | Logic output 0.2 A at 30 V DC<br>Relay outputs 1.8 A at 230 V AC inductive load, cos phi = 0.5 20 ms<br>Relay outputs 1.8 A at 30 V DC inductive load, cos phi = 0.5 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 at State 0: < 5 V and <= 2 mA at State 1: > 11 V, >= 5 mA                                                                                                                        |
| Starting current                   | 0.4...1.3 Icl adjustable                                                                                                                                                                                            |
| 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                                                                                                                                                                                             |
| Max nodes number                   | 31                                                                                                                                                                                                                  |
| Protection type                    | Phase failure: line<br>Thermal protection: motor<br>Thermal protection: starter                                                                                                                                     |
| Marking                            | CE                                                                                                                                                                                                                  |
| Type of cooling                    | Forced convection                                                                                                                                                                                                   |
| Operating position                 | Vertical +/- 10 degree                                                                                                                                                                                              |
| Height                             | 670 mm                                                                                                                                                                                                              |
| Width                              | 400 mm                                                                                                                                                                                                              |
| Depth                              | 300 mm                                                                                                                                                                                                              |
| Product weight                     | 51.4 kg                                                                                                                                                                                                             |
| Motor power range AC-3             | 110...220 kW at 200...240 V 3 phases<br>250...500 kW at 380...440 V 3 phases<br>250...500 kW at 480...500 V 3 phases                                                                                                |
| Motor starter type                 | Soft starter                                                                                                                                                                                                        |

## Environment

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Electromagnetic compatibility | Conducted and radiated emissions level A 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 |
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|---------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Standards                             | EN/IEC 60947-4-2                                                                                             |
| Product certifications                | NOM 117<br>CSA<br>GOST<br>DNV<br>CCC<br>C-Tick<br>TCF<br>UL<br>SEPRO                                         |
| 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                                                              |
| Noise level                           | 55 dB                                                                                                        |
| 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 | 40...60 °C (with current derating of 2 % per °C)<br>-10...40 °C (without)                                    |
| Ambient air temperature for storage   | -25...70 °C                                                                                                  |
| Operating altitude                    | <= 1000 m without<br>> 1000...2000 m with current derating of 2.2 % per additional 100 m                     |

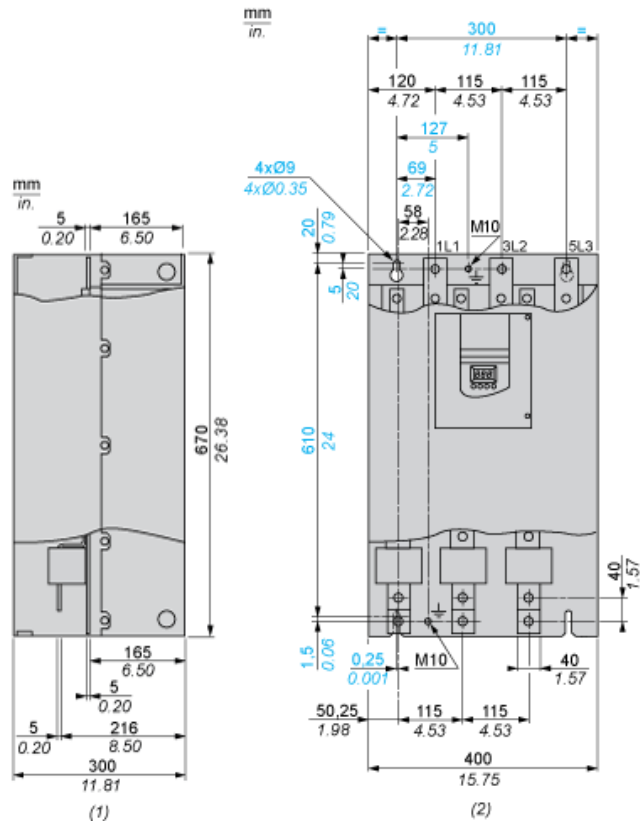
### Offer Sustainability

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

### Contractual warranty

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



(1) Right View

(2) Front View

## Clearance

