



### Main

|                              |   |
|------------------------------|---|
| Range of product             | Altistart 22  |
| Product or component type    | Soft starter  |
| Product destination          | Asynchronous motors   |
| Product specific application | Pumps and fans  |
| Component name               | ATS22   |
| Network number of phases     | 3 phases  |
| [Us] rated supply voltage    | 230...600 V - 15...10 %   |
| Motor power kW               | 110 kW 230 V<br>220 kW 400 V<br>220 kW 440 V<br>250 kW 500 V            |
| Factory setting current      | 361 A   |
| Power dissipation in W       | 177 W for standard applications   |
| Utilisation category         | AC-53A  |
| Type of start                | Start with torque control (current limited to 3.5 In)                   |
| IcL starter rating           | 410 A for connection in the motor supply line for standard applications |
| IP degree of protection      | IP00  |

### Complementary

|                              |                            |
|------------------------------|----------------------------|
| Assembly style               | With heat sink             |
| Function available           | Internal bypass            |
| Supply voltage limits        | 195...660 V                |
| Supply frequency             | 50...60 Hz - 10...10 %     |
| Network frequency            | 45...66 Hz                 |
| Device connection            | In the motor supply line   |
| [Uc] control circuit voltage | 230 V - 15...10 % 50/60 Hz |
| Control circuit consumption  | 20 W                       |
| Discrete output number       | 2                          |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

|                             |  |
|-----------------------------|--|
| Discrete output type        | Relay outputs R1 230 V running, alarm, trip, stopped, not stopped, starting, ready C/O<br>Relay outputs R2 230 V running, alarm, trip, stopped, not stopped, starting, ready C/O |
| Minimum switching current   | 100 mA at 12 V DC (relay outputs)  |
| Maximum switching current   | 5 A 250 V AC resistive 1 relay outputs<br>5 A 30 V DC resistive 1 relay outputs<br>2 A 250 V AC inductive 0.4 20 ms relay outputs<br>2 A 30 V DC inductive 7 ms relay outputs    |
| Discrete input number       | 3  |
| Discrete input type         | (LI1, LI2, LI3) logic, 5 mA 4.3 kOhm   |
| Discrete input voltage      | 24 V <= 30 V   |
| Discrete input logic        | Positive logic LI1, LI2, LI3 at State 0: < 5 V and <= 2 mA at State 1: > 11 V, >= 5 mA   |
| Output current              | 0.4...1 Icl adjustable   |
| PTC probe input             | 750 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             | Forced convection  |
| Operating position          | Vertical +/- 10 degree   |
| Height                      | 425 mm   |
| Width                       | 206 mm   |
| Depth                       | 299 mm   |
| Net weight                  | 33 kg  |
| Motor power range AC-3      | 110...220 kW at 380...440 V 3 phases<br>110...220 kW at 200...240 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 |
| Standards                             | EN/IEC 60947-4-2   |
| Product certifications                | UL<br>CSA<br>CCC<br>C-Tick<br>GOST   |
| 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                           | 56 dB  |
| Pollution degree                      | Level 2 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)<br>40...60 °C (with current derating 2.2 % per °C)   |
| 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 |
|----------|-----------|