



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...440 V - 15...10 % |
| Motor power kW | 160 kW 400 V 160 kW 440 V 90 kW 230 V |
| Factory setting current | 285 A |
| Power dissipation in W | 150 W for standard applications |
| Utilisation category | AC-53A |
| Type of start | Start with torque control (current limited to 3.5 In) |
| IcL starter rating | 320 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...484 V |
| Supply frequency | 50...60 Hz - 10...10 % |
| Network frequency | 45...66 Hz |
| Device connection | To the motor delta terminals 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 |

| | |
|-----------------------------|--|
| Discrete output type | Relay outputs R1 230 V running, alarm, trip, stopped, not stopped, starting, ready C/O 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 5 A 30 V DC resistive 1 relay outputs 2 A 250 V AC inductive 0.4 20 ms relay outputs 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 Thermal protection: motor 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 | 55...100 kW at 200...240 V 3 phases 110...220 kW at 380...440 V 3 phases |
| Motor starter type | Soft starter |

Environment

| | |
|---------------------------------------|--|
| Electromagnetic compatibility | Conducted and radiated emissions level A conforming to IEC 60947-4-2 Damped oscillating waves level 3 conforming to IEC 61000-4-12 Electrostatic discharge level 3 conforming to IEC 61000-4-2 Immunity to electrical transients level 4 conforming to IEC 61000-4-4 Immunity to radiated radio-electrical interference level 3 conforming to IEC 61000-4-3 Voltage/current impulse level 3 conforming to IEC 61000-4-5 |
| Standards | EN/IEC 60947-4-2 |
| Product certifications | UL CCC C-Tick CSA GOST |
| Vibration resistance | 1 gn (f= 13...200 Hz) conforming to EN/IEC 60068-2-6 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) 40...60 °C (with current derating 2.2 % per °C) |
| Ambient air temperature for storage | -25...70 °C |
| Operating altitude | <= 1000 m without > 1000...< 2000 m with current derating of 2.2 % per additional 100 m |

Offer Sustainability

| | |
|----------------------------|---|
| Sustainable offer status | Green Premium product |
| REACH Regulation | REACH Declaration |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| China RoHS Regulation | China RoHS declaration |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End of Life Information |
| 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 |
|----------|-----------|