

# ATS22C14Q

soft starter for asynchronous motor, Altistart 22,  
control 230V, 230 to 440V, 37 to 75kW

## 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               | 37 KW 230 V<br>75 KW 400 V<br>75 kW 440 V                               |
| Factory setting current      | 131 A                                                                   |
| Power dissipation in W       | 82 W for standard applications                                          |
| Utilisation category         | AC-53A                                                                  |
| Type of start                | Start with torque control (current limited to 3.5 In)                   |
| IcL starter rating           | 140 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            | In the motor supply line<br>To the motor delta terminals                                                                                                                         |
| [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<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                 | 356 mm                                                                          |
| Width                  | 150 mm                                                                          |
| Depth                  | 229.5 mm                                                                        |
| Net weight             | 18 kg                                                                           |
| Motor power range AC-3 | 30...50 kW at 200...240 V 3 phases<br>55...100 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<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                             | IEC 60947-4-2                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Product certifications                | UL[RETURN]CSA[RETURN]C-Tick[RETURN]GOST[RETURN]CCC                                                                                                                                                                                                                                                                                                                                                                                     |
| Vibration resistance                  | 1 gn (f= 13...200 Hz) conforming to IEC 60068-2-6<br>1.5 mm (f= 2...13 Hz) conforming to IEC 60068-2-6                                                                                                                                                                                                                                                                                                                                 |
| Shock resistance                      | 15 gn for 11 ms conforming to 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 IEC 60068-2-3                                                                                                                                                                                                                                                                                                                                                            |
| Ambient air temperature for operation | -10...40 °C (without derating)<br>40...60 °C (with current derating 2.2 % 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                                                                                                                                                                                                                                                                                                                                    |

## Packing Units

|                              |           |
|------------------------------|-----------|
| Unit Type of Package 1       | PCE       |
| Number of Units in Package 1 | 1         |
| Package 1 Height             | 25.5 cm   |
| Package 1 Width              | 32.5 cm   |
| Package 1 Length             | 41.5 cm   |
| Package 1 Weight             | 13.207 kg |
| Unit Type of Package 2       | P06       |
| Number of Units in Package 2 | 4         |
| Package 2 Height             | 63.0 cm   |
| Package 2 Width              | 80.0 cm   |
| Package 2 Length             | 60.0 cm   |
| Package 2 Weight             | 65.828 kg |

## Offer Sustainability

|                            |                                                                                                                                                                                                                                                                                             |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| REACH Regulation           |  <a href="#">REACH Declaration</a>                                                                                                                                                                         |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)                                                                                                                                                                                                                                  |
| Mercury free               | Yes                                                                                                                                                                                                                                                                                         |
| RoHS exemption information |  <a href="#">Yes</a>                                                                                                                                                                                       |
| China RoHS Regulation      |  <a href="#">China RoHS Declaration</a>                                                                                                                                                                    |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins                                                                                                                                                                 |
| California proposition 65  | WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |

## Contractual warranty

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