



### Main

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|------------------------------|---|
| Range of product             | Altistart 01  |
| Product or component type    | Soft starter  |
| Product destination          | Asynchronous motors   |
| Product specific application | Simple machine  |
| Device short name            | ATS01   |
| Network number of phases     | 3 phases  |
| [Us] rated supply voltage    | 460...480 V - 10...10 %   |
| Motor power hp               | 10 hp 3 phases 460...480 V<br>15 hp 3 phases 460...480 V                |
| IcL starter rating           | 22 A  |
| Utilisation category         | AC-53B EN/IEC 60947-4-2   |
| Current consumption          | 110 A at nominal load   |
| Type of start                | Start with voltage ramp   |
| Power dissipation in W       | 124.5 W in transient state<br>4.5 W at full load and at end of starting |

### Complementary

|                              |   |
|------------------------------|---|
| Assembly style               | With heat sink  |
| Function available           | Integrated bypass   |
| Supply voltage limits        | 414...528 V   |
| Supply frequency             | 50...60 Hz - 5...5 %  |
| Network frequency            | 47.5...63 Hz  |
| Output voltage               | <= power supply voltage   |
| [Uc] control circuit voltage | Built into the starter  |
| Starting time                | 1 s 100<br>10 s 10<br>5 s 20<br>Adjustable from 1 to 10 s                       |
| Deceleration time symb       | Adjustable from 1 to 10 s   |
| Starting torque              | 30...80 % of starting torque of motor connected directly on the line supply     |
| Discrete input type          | Logic LI1, LI2, BOOST stop, run and boost on start-up functions <= 8 mA 27 kOhm |
| Discrete input voltage       | 24...40 V   |
| Discrete input logic         | Positive LI1, LI2, BOOST < 5 V and <= 0.2 mA > 13 V >= 0.5 mA                   |

|                           |  |
|---------------------------|--|
| Discrete output current   | 2 A DC-13<br>3 A AC-15   |
| Discrete output type      | Open collector logic LO1 end of starting signal<br>Relay outputs R1A, R1C NO   |
| Discrete output voltage   | 24 V 6...30 V open collector logic   |
| Minimum switching current | 10 mA 6 V DC relay outputs   |
| Maximum switching current | 2 A 250 V AC inductive cos phi = 0.5 20 ms relay outputs<br>2 A 30 V DC inductive cos phi = 0.5 20 ms relay outputs  |
| Display type              | 1 LED green starter powered up<br>1 LED yellow nominal voltage reached   |
| Tightening torque         | 0.5 N.m<br>1.9...2.5 N.m   |
| Electrical connection     | 4 mm screw clamp terminal rigid 1 1...10 mm <sup>2</sup> AWG 8 power circuit<br>Screw connector rigid 1 0.5...2.5 mm <sup>2</sup> AWG 14 control circuit<br>4 mm screw clamp terminal rigid 2 1...6 mm <sup>2</sup> AWG 10 power circuit<br>Screw connector rigid 2 0.5...1 mm <sup>2</sup> AWG 17 control circuit<br>Screw connector flexible with cable end 1 0.5...1.5 mm <sup>2</sup> AWG 16 control circuit<br>4 mm screw clamp terminal flexible without cable end 1 1.5...10 mm <sup>2</sup> AWG 8 power circuit<br>Screw connector flexible without cable end 1 0.5...2.5 mm <sup>2</sup> AWG 14 control circuit<br>4 mm screw clamp terminal flexible with cable end 2 1...6 mm <sup>2</sup> AWG 10 power circuit<br>4 mm screw clamp terminal flexible without cable end 2 1.5...6 mm <sup>2</sup> AWG 10 power circuit<br>Screw connector flexible without cable end 2 0.5...1.5 mm <sup>2</sup> AWG 16 control circuit |
| Marking                   | CE   |
| Operating position        | Vertical +/- 10 degree   |
| Height                    | 154 mm   |
| Width                     | 45 mm  |
| Depth                     | 131 mm   |
| Product weight            | 0.56 kg  |
| Compatibility code        | ATS01N2  |

## Environment

|                                       |  |
|---------------------------------------|--|
| Electromagnetic compatibility         | Damped oscillating waves level 3 IEC 61000-4-12<br>Electrostatic discharge level 3 IEC 61000-4-2<br>Immunity to electrical transients level 4 IEC 61000-4-4<br>Immunity to radiated radio-electrical interference level 3 IEC 61000-4-3<br>Voltage/current impulse level 3 IEC 61000-4-5<br>Conducted and radiated emissions level B CISPR 11<br>Conducted and radiated emissions level B IEC 60947-4-2<br>EMC immunity EN 50082-2<br>Harmonics IEC 1000-3-2<br>Harmonics IEC 1000-3-4<br>Immunity to conducted interference caused by radio-electrical fields level 3 IEC 61000-4-6<br>Micro-cuts and voltage fluctuation IEC 61000-4-11<br>EMC immunity EN 50082-1 |
| Standards                             | EN/IEC 60947-4-2   |
| Product certifications                | C-Tick<br>CSA<br>GOST<br>B44.1-96/ASME A17.5 for starter wired to the motor delta terminal<br>CCC<br>UL  |
| IP degree of protection               | IP20   |
| Pollution degree                      | 2 EN/IEC 60947-4-2   |
| Vibration resistance                  | 1.5 mm peak to peak 3...13 Hz EN/IEC 60068-2-6<br>1 gn 13...150 Hz EN/IEC 60068-2-6  |
| Shock resistance                      | 15 gn 11 ms EN/IEC 60068-2-27  |
| Relative humidity                     | 5...95 % without condensation or dripping water EN/IEC 60068-2-3   |
| Ambient air temperature for operation | -10...40 °C without derating<br>40...50 °C with current derating of 2 % per °C   |
| Ambient air temperature for storage   | -25...70 °C EN/IEC 60947-4-2   |
| Operating altitude                    | <= 1000 m without derating<br>> 1000 m with current derating of 2.2 % per additional 100 m   |

Contractual warranty

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| Warranty period | 18 months |
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