



Main

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| Commercial Status | Commercialised |
| Range of product | Altistart 01 |
| Product or component type | Soft starter |
| Product destination | Asynchronous motors |
| Product specific application | Simple machine |
| Component name | ATS01 |
| Network number of phases | 3 phases |
| [Us] rated supply voltage | 460...480 V (- 10...10 %) |
| Motor power hp | 7.5 hp at 460...480 V 3 phases |
| lCL starter rating | 12 A |
| Utilisation category | AC-53B conforming to EN/IEC 60947-4-2 |
| Current consumption | 60 A at nominal load |
| Type of start | Start with voltage ramp |
| Power dissipation in W | 4 W at full load and at end of starting 124 W in transient state |

Complementary

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| Assembly style | With heat sink |
| Function available | Integrated bypass |
| Supply voltage limits | 414...528 V |
| Supply frequency | 50...60 Hz (- 5...5 %) |
| Network frequency limits | 47.5...63 Hz |
| Output voltage | <= power supply voltage |
| Control circuit voltage | Built into the starter |
| Starting time | 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 | (LI1, LI2, BOOST) stop, run and boost on start-up functions logic <= 8 mA 27 kOhm |
| Discrete input voltage | 24...40 V |
| Discrete input logic | (LI1, LI2, BOOST) positive state 0 < 5 V and < 0.2 mA, state 1 > 13 V and > 0.5 mA |
| Discrete output current | 3 A AC-15 2 A DC-13 |
| Discrete output type | (R1A, R1C) relay outputs NO (LO1) open collector logic end of starting signal |
| Discrete output voltage | 24 V (6...30 V) open collector logic |
| Minimum switching current | Relay outputs 10 mA 6 V DC |
| Maximum switching current | Relay outputs 2 A 30 V DC inductive load, cos phi = 0.5 L/R = 20 ms Relay outputs 2 A 250 V AC inductive load, cos phi = 0.5 L/R = 20 ms |
| Display type | 1 LED (yellow) for nominal voltage reached 1 LED (green) for starter powered up |
| Tightening torque | 4.42 lbf.in (0.5 N.m) 16.81...22.12 lbf.in (1.9...2.5 N.m) |

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| Electrical connection | 2 conductor(s) flexible cablewithout cable end, connection via screw connector 0.5...1.5 mm ² /AWG 16 for control circuit 2 conductor(s) flexible cablewithout cable end, connection via 4 mm screw clamp terminal 1.5...6 mm ² /AWG 10 for power circuit 2 conductor(s) flexible cablewith cable end, connection via 4 mm screw clamp terminal 1...6 mm ² /AWG 10 for power circuit 1 conductor(s) flexible cablewithout cable end, connection via screw connector 0.5...2.5 mm ² /AWG 14 for control circuit 1 conductor(s) flexible cablewithout cable end, connection via 4 mm screw clamp terminal 1.5...10 mm ² /AWG 8 for power circuit 1 conductor(s) flexible cablewith cable end, connection via screw connector 0.5...1.5 mm ² /AWG 16 for control circuit 2 conductor(s) rigid cable, connection via screw connector 0.5...1 mm ² /AWG 17 for control circuit 2 conductor(s) rigid cable, connection via 4 mm screw clamp terminal 1...6 mm ² /AWG 10 for power circuit 1 conductor(s) rigid cable, connection via screw connector 0.5...2.5 mm ² /AWG 14 for control circuit 1 conductor(s) rigid cable, connection via 4 mm screw clamp terminal 1...10 mm ² /AWG 8 for power circuit |
| Marking | CE |
| Operating position | Vertical +/- 10 degree |
| Height | 4.88 in (124 mm) |
| Width | 1.77 in (45 mm) |
| Depth | 5.16 in (131 mm) |
| Product weight | 0.93 lb(US) (0.42 kg) |

Environment

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| Electromagnetic compatibility | Voltage/Current impulse conforming to IEC 61000-4-5 level 3 Micro-cuts and voltage fluctuation conforming to IEC 61000-4-11 Immunity to radiated radio-electrical interference conforming to IEC 61000-4-3 level 3 Immunity to electrical transients conforming to IEC 61000-4-4 level 4 Immunity to conducted interference caused by radio-electrical fields conforming to IEC 61000-4-6 level 3 Harmonics conforming to IEC 1000-3-4 Harmonics conforming to IEC 1000-3-2 EMC immunity conforming to EN 50082-2 EMC immunity conforming to EN 50082-1 Electrostatic discharge conforming to IEC 61000-4-2 level 3 Damped oscillating waves conforming to IEC 61000-4-12 level 3 Conducted and radiated emissions conforming to IEC 60947-4-2 level B Conducted and radiated emissions conforming to CISPR 11 level B |
| Standards | EN/IEC 60947-4-2 |
| Product certifications | B44.1-96/ASME A17.5 for starter wired to the motor delta terminal CCC CSA C-Tick GOST UL |
| IP degree of protection | IP20 |
| Pollution degree | 2 conforming to EN/IEC 60947-4-2 |
| Vibration resistance | 1.5 mm peak to peak (f = 3...13 Hz) conforming to EN/IEC 60068-2-6 1 gn (f = 13...150 Hz) conforming to EN/IEC 60068-2-6 |
| Shock resistance | 15 gn for 11 ms conforming to EN/IEC 60068-2-27 |
| Relative humidity | 5...95 % without condensation or dripping water conforming to EN/IEC 60068-2-3 |
| Ambient air temperature for operation | 104...122 °F (40...50 °C) with current derating of 2 % per °C 14...104 °F (-10...40 °C) without derating |
| Ambient air temperature for storage | -13...158 °F (-25...70 °C) conforming to EN/IEC 60947-4-2 |
| Operating altitude | > 3280.84 ft (1000 m) with current derating of 2.2 % per additional 100 m <= 3280.84 ft (1000 m) without derating |

Ordering and shipping details

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| Category | 22392 - ATS0 LOW HP SOFT STARTERS |
| Discount Schedule | I11 |
| GTIN | 00785901588337 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 1.11 |

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|----------------------|---|
| Product availability | Stock - Normally stocked in distribution facility |
| Returnability | Y |
| Country of origin | DE |

Contractual warranty

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| Period | 18 months |
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