

Product data sheet

Characteristics

ATS01N212LU

soft starter for asynchronous motor - ATS01 - 12
A - 200..240V - 2.2..3 KW

Product availability: Non-Stock - Not normally stocked in distribution facility
Price*: 175.00 USD



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 |
| Phase | 3 phases |
| [Us] rated supply voltage | 200...240 V (- 10...10 %) |
| motor power kW | 2.2 kW at 200...240 V 3 phases 3 kW at 200...240 V 3 phases |
| motor power hp | 3 hp at 200...240 V 3 phases |
| ICL 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 | 180...264 V |
| supply frequency | 50...60 Hz (- 5...5 %) |
| network frequency | 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 | 2 A DC-13 3 A AC-15 |
| discrete output type | (LO1) open collector logic end of starting signal (R1A, R1C) relay outputs NO |
| 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) nominal voltage reached 1 LED (green) starter powered up |

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| tightening torque | 4.42 lbf.in (0.5 N.m) 16.81...22.12 lbf.in (1.9...2.5 N.m) |
| electrical connection | 2 conductor(s) rigid cable, connection via screw connector 0.5...1 mm ² /AWG 17 control circuit 2 conductor(s) flexible cable with cable end, connection via 4 mm screw clamp terminal 1...6 mm ² /AWG 10 power circuit 2 conductor(s) rigid cable, connection via 4 mm screw clamp terminal 1...6 mm ² /AWG 10 power circuit 1 conductor(s) rigid cable, connection via screw connector 0.5...2.5 mm ² /AWG 14 control circuit 1 conductor(s) flexible cable with cable end, connection via screw connector 0.5...1.5 mm ² /AWG 16 control circuit 2 conductor(s) flexible cable without cable end, connection via screw connector 0.5...1.5 mm ² /AWG 16 control circuit 1 conductor(s) flexible cable without cable end, connection via screw connector 0.5...2.5 mm ² /AWG 14 control circuit 1 conductor(s) rigid cable, connection via 4 mm screw clamp terminal 1...10 mm ² /AWG 8 power circuit 2 conductor(s) flexible cable without cable end, connection via 4 mm screw clamp terminal 1.5...6 mm ² /AWG 10 power circuit 1 conductor(s) flexible cable without cable end, connection via 4 mm screw clamp terminal 1.5...10 mm ² /AWG 8 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) |
| compatibility code | ATS01N2 |

Environment

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| electromagnetic compatibility | Immunity to conducted interference caused by radio-electrical fields conforming to IEC 61000-4-6 level 3 Immunity to electrical transients conforming to IEC 61000-4-4 level 4 Electrostatic discharge conforming to IEC 61000-4-2 level 3 Harmonics conforming to IEC 1000-3-4 EMC immunity conforming to EN 50082-1 Voltage/Current impulse conforming to IEC 61000-4-5 level 3 Damped oscillating waves conforming to IEC 61000-4-12 level 3 Conducted and radiated emissions conforming to CISPR 11 level B EMC immunity conforming to EN 50082-2 Conducted and radiated emissions conforming to IEC 60947-4-2 level B Micro-cuts and voltage fluctuation conforming to IEC 61000-4-11 Harmonics conforming to IEC 1000-3-2 Immunity to radiated radio-electrical interference conforming to IEC 61000-4-3 level 3 |
| standards | EN/IEC 60947-4-2 |
| product certifications | B44.1-96/ASME A17.5 for starter wired to the motor delta terminal UL CCC GOST CSA C-Tick |
| IP degree of protection | IP20 |
| pollution degree | 2 conforming to EN/IEC 60947-4-2 |
| vibration resistance | 1 gn (f = 13...150 Hz) conforming to EN/IEC 60068-2-6 1.5 mm peak to peak (f = 3...13 Hz) conforming to EN/IEC 60068-2-6 |
| shock resistance | 15 gn 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 | 14...104 °F (-10...40 °C) without derating 104...122 °F (40...50 °C) with current derating of 2 % per °C |
| 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) without derating > 3280.84 ft (1000 m) with current derating of 2.2 % per additional 100 m |

Ordering and shipping details

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|-----------------------|---|
| Category | 22392 - ATSU01/ATS01 LOW HP SOFT STARTERS |
| Discount Schedule | I11 |
| GTIN | 00785901675860 |
| Nbr. of units in pkg. | 1 |
| Returnability | N |
| Country of origin | DE |

Contractual warranty

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