



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 | 1 phase |
| [Us] rated supply voltage | 110...480 V - 10...10 % |
| Motor power kW | 4 KW, 3 phase 400 V 1.5 KW, 3 phase 230 V 1.1 kW, 1 phase 230 V |
| Maximum Horse Power Rating | 1 Hp, 3 phase 210 V 2 Hp, 3 phase 230 V 5 hp, 3 phase 460 V |
| IcL starter rating | 9 A |
| Utilisation category | AC-53B EN/IEC 60947-4-2 |
| Current consumption | 45 A at nominal load |
| Type of start | Start with voltage ramp |
| Power dissipation in W | 1 W at full load and at end of starting 46 W in transient state |

Complementary

| | |
|------------------------------|--|
| Assembly style | With heat sink |
| Function Available | Integrated bypass |
| Supply voltage limits | 99...528 V |
| Supply frequency | 50...60 Hz - 5...5 % |
| Network Frequency | 47.5...63 Hz |
| Output voltage | <= power supply voltage |
| [Uc] control circuit voltage | 110 V AC +/- 10 % 35 mA 24 V AC/DC +/- 10 % 30 mA 240 V AC +/- 10 % 80 mA |
| Starting time | 1 s / 100 5 s / 20 Adjustable from 1 to 5 s |
| Starting torque | 30...80 % of starting torque of motor connected directly on the line supply |
| Discrete output current | 2 A DC-13 3 A AC-15 |
| Tightening torque | 4.43 Lbf.in (0.5 N.m) 16.82...22.13 lbf.in (1.9...2.5 N.m) |
| Electrical connection | 4 mm screw clamp terminal - rigid 1 1...10 mm ² AWG 8 power circuit Screw connector - rigid 1 0.5...2.5 mm ² AWG 14 control circuit 4 mm screw clamp terminal - rigid 2 1...6 mm ² AWG 10 power circuit Screw connector - rigid 2 0.5...1 mm ² AWG 17 control circuit Screw connector - flexible with cable end 1 0.5...1.5 mm ² AWG 16 control circuit 4 mm screw clamp terminal - flexible without cable end 1 1.5...10 mm ² AWG 8 power circuit Screw connector - flexible without cable end 1 0.5...2.5 mm ² AWG 14 control circuit 4 mm screw clamp terminal - flexible with cable end 2 1...6 mm ² AWG 10 power circuit 4 mm screw clamp terminal - flexible without cable end 2 1.5...6 mm ² AWG 10 power circuit Screw connector - flexible without cable end 2 0.5...1.5 mm ² AWG 16 control circuit |

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|------------------------|--|
| 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) |
| Net Weight | 0.62 lb(US) (0.28 kg) |
| Compatibility code | ATS01N1 |
| Motor power range AC-3 | 1.1...2 KW 200...240 V 1 phase 2.2...3 KW 200...240 V 3 phase 4...6 kW 380...440 V 3 phase |
| Motor starter type | Soft starter |

Environment

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|---------------------------------------|--|
| Electromagnetic compatibility | Conducted and radiated emissions level B CISPR 11 Conducted and radiated emissions level B IEC 60947-4-2 Damped oscillating waves level 3 IEC 61000-4-12 Electrostatic discharge level 3 IEC 61000-4-2 EMC immunity EN 50082-1 EMC immunity EN 50082-2 Harmonics IEC 1000-3-2 Harmonics IEC 1000-3-4 Immunity to conducted interference caused by radio-electrical fields level 3 IEC 61000-4-6 Immunity to electrical transients level 4 IEC 61000-4-4 Immunity to radiated radio-electrical interference level 3 IEC 61000-4-3 Micro-cuts and voltage fluctuation IEC 61000-4-11 Voltage/current impulse level 3 IEC 61000-4-5 |
| Standards | EN/IEC 60947-4-2 |
| Product Certifications | C-tick B44.1-96/ASME A17.5 for starter wired to the motor delta terminal GOST CSA CCC UL |
| IP Degree of Protection | IP20 |
| Pollution degree | 2 EN/IEC 60947-4-2 |
| Vibration resistance | 1 gn 13...150 Hz)EN/IEC 60068-2-6 1.5 mm peak to peak 3...13 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 | 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) 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

| | |
|-----------------------|---|
| Category | 22392-ATSU01/ATS01 LOW HP SOFT STARTERS |
| Discount Schedule | I11 |
| GTIN | 3389110667158 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 12.13 oz (344.0 g) |
| Returnability | Yes |
| Country of origin | DE |

Packing Units

| | |
|------------------------------|-------------------|
| Unit Type of Package 1 | PCE |
| Package 1 Height | 2.17 in (5.5 cm) |
| Package 1 width | 6.69 in (17 cm) |
| Package 1 Length | 6.10 in (15.5 cm) |
| Unit Type of Package 2 | P06 |
| Number of Units in Package 2 | 112 |

| | |
|------------------------------|--------------------------|
| Package 2 Weight | 124.83 lb(US) (56.62 kg) |
| Package 2 Height | 30.31 in (77 cm) |
| Package 2 width | 31.50 in (80 cm) |
| Package 2 Length | 23.62 in (60 cm) |
| Unit Type of Package 3 | S03 |
| Number of Units in Package 3 | 14 |
| Package 3 Weight | 11.85 lb(US) (5.377 kg) |
| Package 3 Height | 11.81 in (30 cm) |
| Package 3 width | 11.81 in (30 cm) |
| Package 3 Length | 15.75 in (40 cm) |

Offer Sustainability

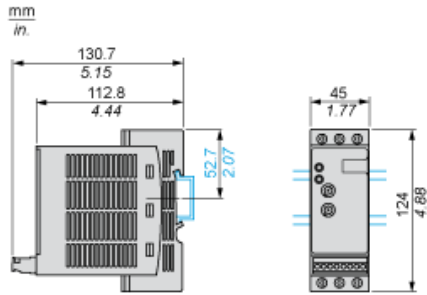
| | |
|----------------------------|---|
| California proposition 65 | WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov |
| REACH Regulation | REACH Declaration |
| REACH free of SVHC | Yes |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration |
| Toxic heavy metal free | Yes |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| China RoHS Regulation | China RoHS Declaration |
| 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

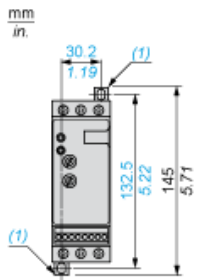
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|----------|-----------|
| Warranty | 18 months |
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Dimensions

Mounting on Symetrical (35 mm) Rail

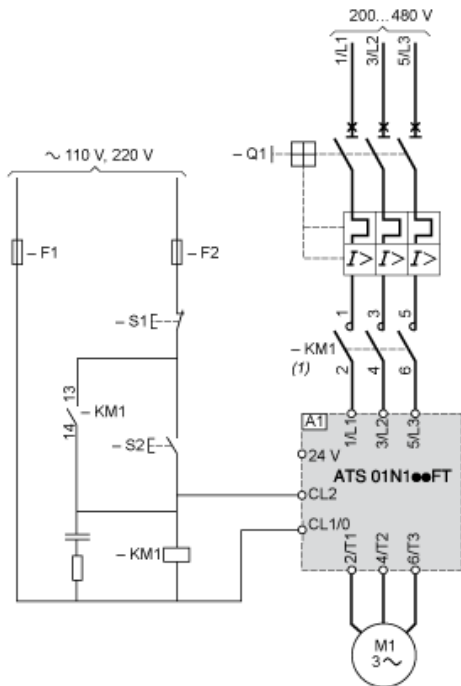


Screw Fixing



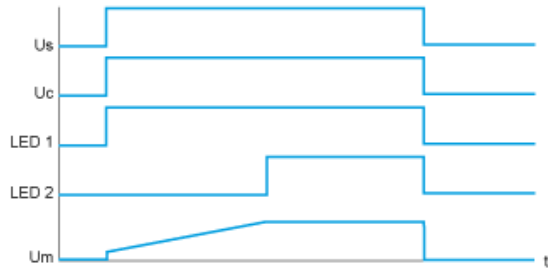
(1) Retractable fixings

Example of 3-phase Power Supply Connection



- (1) A line contactor must be used in the sequence.
A1 : Soft starter
Q1 : Motor circuit-breaker
KM1 : Contactors
F1, F2 : Control protection fuses
S1, S2 : Pushbuttons

Function Diagram



Us : Power supply voltage
Uc : Control supply voltage
LED : Green LED
1 :
LED : Yellow LED
2 :
Um : Motor voltage