

Product datasheet

Specifications



soft starter for asynchronous motor - ATS01 - 22 A - 380..415V - 7.5..11 KW

ATS01N222QN

Price: 8,215.86 ZAR

Main

| | |
|------------------------------|---|
| Range of product | Altistart 01 |
| Product destination | Asynchronous motors |
| Product or component type | Soft starter |
| Product specific application | Simple machine |
| Device short name | ATS01 |
| Network number of phases | 3 phases |
| [Us] rated supply voltage | 380...415 V - 10...10 % |
| Motor power kW | 11 kW, 3 phases at 380...415 V 7.5 kW, 3 phases at 380...415 V |
| IcL starter rating | 22 A |
| Utilisation category | AC-53B conforming to 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 4.5 W at full load and at end of starting |

Complementary

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|------------------------------|--|
| Assembly style | With heat sink |
| Function available | Integrated bypass |
| Supply voltage limits | 342...456 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 5 s / 20 10 s / 10 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 at State 0: < 5 V and <= 0.2 mA at State 1: > 13 V, >= 0.5 mA |

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

| | |
|----------------------------------|--|
| Discrete output current | 2 A DC-13 3 A AC-15 |
| Discrete output type | Open collector logic LO1 end of starting signal Relay outputs R1A, R1C NO |
| Discrete output voltage | 24 V (voltage limits: 6...30 V) open collector logic |
| Minimum switching current | 10 mA at 6 V DC for relay outputs |
| Maximum switching current | Relay outputs: 2 A at 250 V AC cos phi = 0.5 and L/R = 20 ms inductive load Relay outputs: 2 A at 30 kV DC cos phi = 0.5 and L/R = 20 ms inductive load |
| Display type | 1 LED (green) for starter powered up 1 LED (yellow) for nominal voltage reached |
| tightening torque | 0.5 N.m 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 without cable end 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 |
| Marking | CE |
| Operating position | Vertical +/- 10 degree |
| Height | 154 mm |
| Width | 45 mm |
| Depth | 131 mm |
| Net weight | 0.56 kg |
| Compatibility code | ATS01N2 |
| Power range | 7...11 kW at 380...440 V 3 phases |
| Motor starter type | Soft starter |

Environment

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|--------------------------------------|--|
| Electromagnetic compatibility | Conducted and radiated emissions level B conforming to CISPR 11 Conducted and radiated emissions level B conforming to IEC 60947-4-2 Damped oscillating waves level 3 conforming to IEC 61000-4-12 Electrostatic discharge level 3 conforming to IEC 61000-4-2 EMC immunity level 3 conforming to EN 50082-1 EMC immunity level B conforming to EN 50082-2 Harmonics level 3 conforming to IEC 1000-3-2 Harmonics level 3 conforming to IEC 1000-3-4 Immunity to conducted interference caused by radio-electrical fields level 3 conforming to IEC 61000-4-6 Immunity to electrical transients level 4 conforming to IEC 61000-4-4 Immunity to radiated radio-electrical interference level 3 conforming to IEC 61000-4-3 Micro-cuts and voltage fluctuation conforming to IEC 61000-4-11 Voltage/current impulse level 3 conforming to IEC 61000-4-5 |
| Standards | EN/IEC 60947-4-2 |
| Product certifications | CSA UL CCC C-Tick GOST |
| IP degree of protection | IP20 |
| Pollution degree | 2 conforming to EN/IEC 60947-4-2 |

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|--|---|
| 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 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 | -10...40 °C (without derating) 40...50 °C (with current derating of 2 % per °C) |
| Ambient air temperature for storage | -25...70 °C conforming to EN/IEC 60947-4-2 |
| Operating altitude | <= 1000 m without derating > 1000 m with current derating of 2.2 % per additional 100 m |

Packing Units

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|-------------------------------------|-----------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 5.500 cm |
| Package 1 Width | 17.500 cm |
| Package 1 Length | 15.200 cm |
| Package 1 Weight | 664.000 g |
| Unit Type of Package 2 | S03 |
| Number of Units in Package 2 | 14 |
| Package 2 Height | 30.000 cm |
| Package 2 Width | 30.000 cm |
| Package 2 Length | 40.000 cm |
| Package 2 Weight | 9.900 kg |
| Unit Type of Package 3 | P06 |
| Number of Units in Package 3 | 112 |
| Package 3 Height | 75.000 cm |
| Package 3 Width | 60.000 cm |
| Package 3 Length | 80.000 cm |
| Package 3 Weight | 90.588 kg |

Contractual warranty

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|-----------------------------|----|
| Warranty (in months) | 18 |
|-----------------------------|----|



Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

Use Better



Materials and Substances

Packaging made with recycled cardboard

Yes

Packaging without single use plastic

Yes

[EU RoHS Directive](#)

Pro-active compliance (Product out of EU RoHS legal scope)

REACH Regulation

[REACH Declaration](#)

Use Longer



Lifetime extension

Repair

No

Use Again



Repack and remanufacture

Take-back

No

WEEE Label

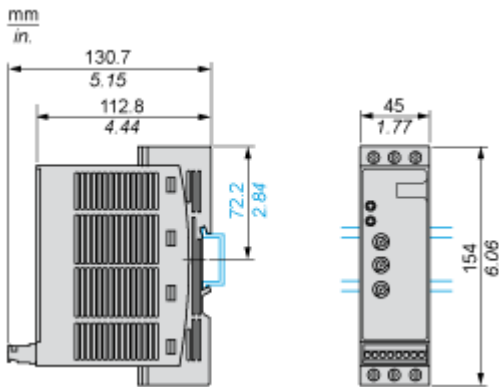


The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

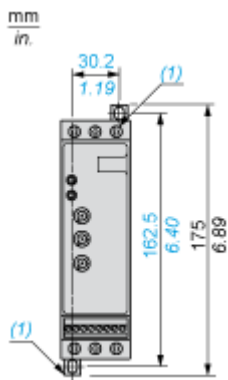
Dimensions Drawings

Dimensions

Mounting on Symetrical (35 mm) Rail



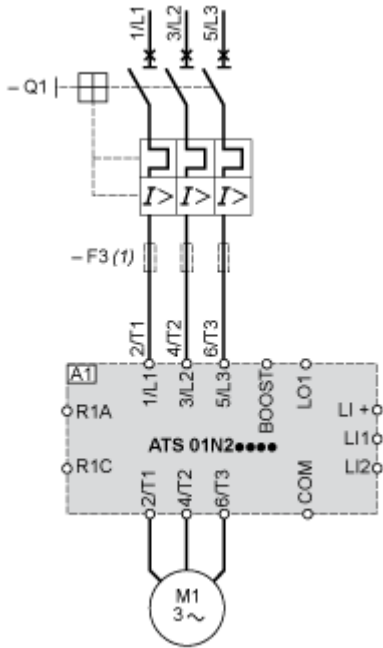
Screw Fixing



(1) Retractable fixings

Connections and Schema

Example of Manual Control



- A1 : Soft start/soft stop unit
- (1) For type 2 coordination
- Q1 : Motor circuit-breaker
- F3 : 3 fast-acting fuses

Technical Description

Function Diagram

2-wire Control with Deceleration



- Us : Power supply voltage
- LED 1 : Green LED
- LI2 : Logic input
- R1 : Relay output
- LO1 : Logic output
- LED 2 : Yellow LED

3-wire Control with Deceleration



- Us : Power supply voltage
- LED 1 : Green LED
- LI2, LI1 : Logic inputs
- R1 : Relay output
- LO1 : Logic output
- Um : Motor voltage
- LED 2 : Yellow LED

