# Product data sheet
## Characteristics

# ATS01N222QN
soft starter for asynchronous motor, Altistart 01, ATS01, 22A, 380 to 415V, 7.5 to 11kW



## Main

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|---|---|
| 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<br>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<br>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<br>5 s / 20<br>10 s / 10<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 at State 0: < 5 V and <= 0.2 mA at State 1: > 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 (voltage limits: 6...30 V) open collector logic |
| Minimum switching current | 10 MA at 6 V DC for relay outputs |

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|---|---|
| Maximum switching current | Relay outputs: 2 A at 250 V AC cos phi = 0.5 and L/R = 20 ms inductive load<br>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<br>1 LED (yellow) for 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 mm² 8 AWG power circuit<br>Screw connector - rigid without cable end 1 0.5...2.5 mm² 14 AWG control circuit<br>4 mm screw clamp terminal - rigid 2 1...6 mm² 10 AWG power circuit<br>Screw connector - rigid 2 0.5...1 mm² 17 AWG control circuit<br>Screw connector - flexible with cable end 1 0.5...1.5 mm² 16 AWG control circuit<br>4 mm screw clamp terminal - flexible without cable end 1 1.5...10 mm² 8 AWG power circuit<br>Screw connector - flexible without cable end 1 0.5...2.5 mm² 14 AWG control circuit<br>4 mm screw clamp terminal - flexible with cable end 2 1...6 mm² 10 AWG power circuit<br>4 mm screw clamp terminal - flexible without cable end 2 1.5...6 mm² 10 AWG power circuit<br>Screw connector - flexible without cable end 2 0.5...1.5 mm² 16 AWG 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<br>Conducted and radiated emissions level B conforming to IEC 60947-4-2<br>Damped oscillating waves level 3 conforming to IEC 61000-4-12<br>Electrostatic discharge level 3 conforming to IEC 61000-4-2<br>EMC immunity level 3 conforming to EN 50082-1<br>EMC immunity level B conforming to EN 50082-2<br>Harmonics level 3 conforming to IEC 1000-3-2<br>Harmonics level 3 conforming to IEC 1000-3-4<br>Immunity to conducted interference caused by radio-electrical fields level 3 conforming to IEC 610<br>Immunity to electrical transients level 4 conforming to IEC 61000-4-4<br>Immunity to radiated radio-electrical interference level 3 conforming to IEC 61000-4-3<br>Micro-cuts and voltage fluctuation conforming to IEC 61000-4-11<br>Voltage/Current impulse level 3 conforming to IEC 61000-4-5 |
| Standards | EN/IEC 60947-4-2 |
| Product certifications | CSA[RETURN]UL[RETURN]CCC[RETURN]C-Tick[RETURN]GOST |
| 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<br>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)<br>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<br>> 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 |

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|---|---|
| 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 |

## Offer Sustainability

| | |
|---|---|
| REACh free of SVHC | Yes |
| Toxic heavy metal free | Yes |
| Mercury free | Yes |
| Sustainable packaging | Yes |
| Packaging made with recycled cardboard | Yes |
| Packaging without single use plastic | Yes |
| REACh Regulation | Free of Substances of Very High Concern above the threshold |
| EU RoHS Directive | Compliant |
| California proposition 65 | WARNING: This product can expose you to chemicals including: Lead and lead compounds, wh |
| Take-back | No |
| WEEE Label | The product must be disposed on European Union markets following specific waste collection a |

## Contractual warranty

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

Product Life Status : Commercialised