

ATS01N209QN

soft starter for asynchronous motor - ATS01 - 9 A - 380..415 V - 4 KW



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 |
| Component name | ATS01 |
| Network number of phases | 3 phases |
| [Us] rated supply voltage | 380...415 V (- 10...10 %) |
| Motor power kW | 4 kW at 380...415 V 3 phases |
| IcL starter rating | 9 A |
| Utilisation category | AC-53B conforming to EN/IEC 60947-4-2 |
| Current consumption | 45 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 94 W in transient state |

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 limits | 47.5...63 Hz |
| Output voltage | <= power supply voltage |
| Control circuit voltage | Built into the starter |
| Starting time | 1 s/100 start(s) per hour 10 s/10 start(s) per hour 5 s/20 start(s) per hour 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 250 V AC inductive load, cos phi = 0.5 L/R = 20 ms Relay outputs 2 A 30 V DC inductive load, cos phi = 0.5 L/R = 20 ms |
| 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 | 1 conductor(s) rigid cable, connection via 4 mm screw clamp terminal 1...10 mm ² /AWG 8 for power circuit 1 conductor(s) rigid cable, connection via screw connector 0.5...2.5 mm ² /AWG 14 for control circuit 2 conductor(s) rigid cable, connection via 4 mm screw clamp terminal 1...6 mm ² /AWG 10 for power circuit 2 conductor(s) rigid cable, connection via screw connector 0.5...1 mm ² /AWG 17 for control circuit |

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1 conductor(s) flexible cablewith cable end, connection via screw connector 0.5...1.5 mm²/AWG 16 for control circuit
 1 conductor(s) flexible cablewithout cable end, connection via 4 mm screw clamp terminal 1.5...10 mm²/AWG 8 for power circuit
 1 conductor(s) flexible cablewithout cable end, connection via screw connector 0.5...2.5 mm²/AWG 14 for control circuit
 2 conductor(s) flexible cablewith cable end, connection via 4 mm screw clamp terminal 1...6 mm²/AWG 10 for power circuit
 2 conductor(s) flexible cablewithout cable end, connection via 4 mm screw clamp terminal 1.5...6 mm²/AWG 10 for power circuit
 2 conductor(s) flexible cablewithout cable end, connection via screw connector 0.5...1.5 mm²/AWG 16 for control circuit

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| Marking | CE |
| Operating position | Vertical +/- 10 degree |
| Height | 124 mm |
| Width | 45 mm |
| Depth | 131 mm |
| Product weight | 0.42 kg |

Environment

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|---------------------------------------|---|
| Electromagnetic compatibility | <p>Conducted and radiated emissions conforming to CISPR 11 level B Conducted and radiated emissions conforming to IEC 60947-4-2 level B Damped oscillating waves conforming to IEC 61000-4-12 level 3 Electrostatic discharge conforming to IEC 61000-4-2 level 3 EMC immunity conforming to EN 50082-1 EMC immunity conforming to EN 50082-2 Harmonics conforming to IEC 1000-3-2 Harmonics conforming to IEC 1000-3-4 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 Immunity to radiated radio-electrical interference conforming to IEC 61000-4-3 level 3 Micro-cuts and voltage fluctuation conforming to IEC 61000-4-11 Voltage/current impulse conforming to IEC 61000-4-5 level 3</p> |
| Standards | EN/IEC 60947-4-2 |
| Product certifications | <p>B44.1-96/ASME A17.5 for starter wired to the motor delta terminal CCC CSA C-Tick GOST UL</p> |
| IP degree of protection | IP20 |
| Pollution degree | 2 conforming to EN/IEC 60947-4-2 |
| Vibration resistance | <p>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</p> |
| 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 | <p>-10...40 °C without derating 40...50 °C with current derating of 2 % per °C</p> |
| Ambient air temperature for storage | -25...70 °C conforming to EN/IEC 60947-4-2 |
| Operating altitude | <p><= 1000 m without derating > 1000 m with current derating of 2.2 % per additional 100 m</p> |