Product data sheet
Characteristics

ATS01N209QN
soft starter for asynchronous motor, Altistart 01, ATS01, 9A, 380 to 415V, 4kW



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	4 KW, 3 phases at 380...415 V
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

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
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 V 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 mm² 8 AWG power circuit Screw connector - rigid without cable end 1 0.5...2.5 mm² 14 AWG control circuit 4 mm screw clamp terminal - rigid 2 1...6 mm² 10 AWG power circuit Screw connector - rigid 2 0.5...1 mm² 17 AWG control circuit Screw connector - flexible with cable end 1 0.5...1.5 mm² 16 AWG control circuit 4 mm screw clamp terminal - flexible without cable end 1 1.5...10 mm² 8 AWG power circuit Screw connector - flexible without cable end 1 0.5...2.5 mm² 14 AWG control circuit 4 mm screw clamp terminal - flexible with cable end 2 1...6 mm² 10 AWG power circuit 4 mm screw clamp terminal - flexible without cable end 2 1.5...6 mm² 10 AWG power circuit Screw connector - flexible without cable end 2 0.5...1.5 mm² 16 AWG control circuit
Marking	CE
Operating position	Vertical +/- 10 degree
Height	124 Mm
Width	45 Mm
Depth	131 Mm
Net weight	0.42 Kg
Compatibility code	ATS01N2
Power range	4…6 KW at 380…440 V 3 phases
Motor starter type	Soft starter

Environment

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 610 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	GOST[RETURN]CCC[RETURN]CSA[RETURN]C-Tick[RETURN]UL
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 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

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.300 Cm
Package 1 Width	15.200 Cm
Package 1 Length	17.300 Cm
Package 1 Weight	526.000 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	8.053 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	74.124 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

Warranty (in months)	18

Product Life Status : Commercialised