

soft starter for asynchronous motor, Altistart 01, ATS01, 12A, 380 to 415V, 5.5kW

ATS01N212QN

Main

Range Of Product	Altistart 01	
Product Or Component Type	Soft starter	
Product Destination	Asynchronous motors	
Product Specific Application	Simple machine	
Device Short Name	ATS01	
Network Number Of Phases	3 phases	
[Us] Rated Supply Voltage	380415 V - 1010 %	
Motor Power Kw	5.5 kW, 3 phases at 380415 V	
Icl Starter Rating	12 A	
Utilisation Category	AC-53B conforming to EN/IEC 60947-4-2	
Current Consumption	60 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 124 W in transient state	

Complementary

With heat sink	
Integrated bypass	
342456 V	
5060 Hz - 55 %	
47.563 Hz	
<= power supply voltage	
Built into the starter	
Adjustable from 1 to 10 s	
Adjustable from 1 to 10 s	
3080 % of starting torque of motor connected directly on the line supply	
Logic (LI1, LI2, BOOST) stop, run and boost on start-up functions <= 8 mA 27 kOhm	
2440 V	
Positive LI1, LI2, BOOST at State 0: < 5 V and <= 0.2 mA at State 1: > 13 V, >= 0.5 mA	
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: 630 V) open collector logic t 10 mA at 6 V DC for relay outputs	
Minimum Switching Current		
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	LED (green) for starter powered up LED (yellow) for nominal voltage reached	
Fightening Torque	1.92.5 N.m 0.5 N.m	
Electrical Connection	4 mm screw clamp terminal - rigid 1 110 mm² AWG 8 power circuit Screw connector - rigid without cable end 1 0.52.5 mm² AWG 14 control circuit 4 mm screw clamp terminal - rigid 2 16 mm² AWG 10 power circuit Screw connector - rigid 2 0.51 mm² AWG 17 control circuit Screw connector - flexible with cable end 1 0.51.5 mm² AWG 16 control circuit 4 mm screw clamp terminal - flexible without cable end 1 1.510 mm² AWG 8 power circuit Screw connector - flexible without cable end 1 0.52.5 mm² AWG 14 control circuit 4 mm screw clamp terminal - flexible with cable end 2 16 mm² AWG 10 power circuit 4 mm screw clamp terminal - flexible without cable end 2 1.56 mm² AWG 10 power circuit 5 crew connector - flexible without cable end 2 0.51.5 mm² AWG 10 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	
Motor Power Range Ac-3	46 kW at 380440 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
	i s
	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	CCC
	UL
	GOST
	CSA
	C-Tick
Ip Degree Of Protection	IP20
Pollution Degree	2 conforming to EN/IEC 60947-4-2
Vibration Resistance	1 gn (f= 13150 Hz) conforming to EN/IEC 60068-2-6
	1.5 mm peak to peak (f= 313 Hz) conforming to EN/IEC 60068-2-6

Shock Resistance	15 gn for 11 ms conforming to EN/IEC 60068-2-27
Relative Humidity	595 % without condensation or dripping water conforming to EN/IEC 60068-2-3
Ambient Air Temperature For Operation	-1040 °C (without derating) 4050 °C (with current derating of 2 % per °C)
Ambient Air Temperature For Storage	-2570 °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

. acimig cimes	
Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	5.500 cm
Package 1 Width	15.200 cm
Package 1 Length	17.500 cm
Package 1 Weight	534.000 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	7.985 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	74.012 kg

Contractual warranty

Warranty 18 months

Sustainability

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

Well-being performance

Reach Free Of Svhc	
Toxic Heavy Metal Free	
Mercury Free	
Rohs Exemption Information	Yes
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
China Rohs Regulation	China RoHS declaration
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
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

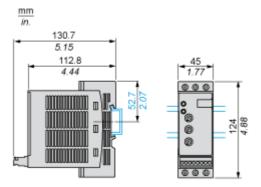
Product data sheet

ATS01N212QN

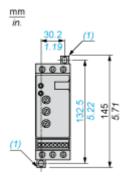
Dimensions Drawings

Dimensions

Mounting on Symetrical (35 mm) Rail



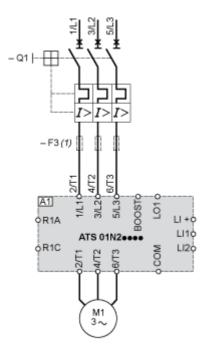
Screw Fixing



(1) Retractable fixings

Connections and Schema

Example of Manual Control



A1: Soft start/soft stop unit(1) For type 2 coordinationQ1: Motor circuit-breakerF3: 3 fast-acting fuses

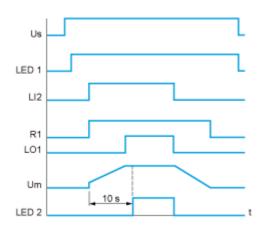
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Technical Description

Function Diagram

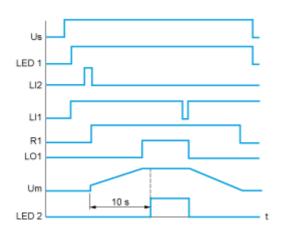
2-wire Control with Deceleration



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