Product datasheet



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

ATS01N212QN

Main

Range Of Produc	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

Assembly Style	With heat sink		
Function Available	Integrated bypass		
Supply Voltage Limits	342456 V		
Supply Frequency	5060 Hz - 55 %		
Network Frequency	47.563 Hz		
Output Voltage	<= power supply voltage		
[Uc] Control Circuit Voltage	Built into the starter		
Starting Time	Adjustable from 1 to 10 s		
Deceleration Time Symb	Adjustable from 1 to 10 s		
Starting Torque	3080 % 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	2440 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: 630 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	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 16 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 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 60068-2-27 595 % without condensation or dripping water conforming to EN/IEC 60068-2-3 -1040 °C (without derating) 4050 °C (with current derating of 2 % per °C)		
Relative Humidity			
Ambient Air Temperature For Operation			
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

PCE	
1	
5.500 cm	
15.200 cm	
17.500 cm	1
534.000 g	
S03	
14	
30.000 cm	
30.000 cm	
40.000 cm	
7.985 kg	
P06	5//
112	
75.000 cm	
60.000 cm	
80.000 cm	
74.012 kg	
	1 5.500 cm 15.200 cm 17.500 cm 534.000 g S03 14 30.000 cm 40.000 cm 7.985 kg P06 112 75.000 cm 60.000 cm 80.000 cm

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

Ø	Reach Free Of Svhc		
⊘	Toxic Heavy Metal Free		
⊘	Mercury Free		
②	Rohs Exemption Information	Yes	

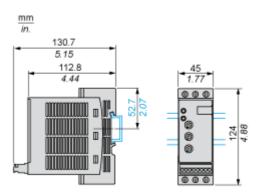
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
China Rohs Regulation	China RoHS declaration
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish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



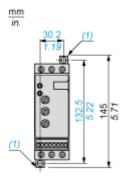
Dimensions Drawings

Dimensions

Mounting on Symetrical (35 mm) Rail



Screw Fixing

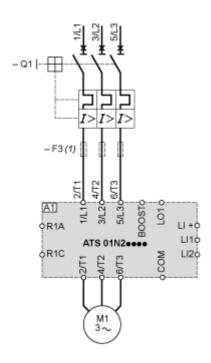


(1) Retractable fixings



Connections and Schema

Example of Manual Control



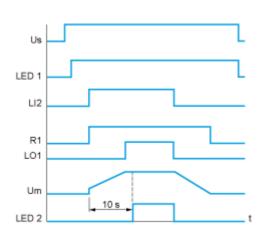
A1: Soft start/soft stop unit
(1) For type 2 coordination
Q1: Motor circuit-breaker
E3: 3 fast-acting fuses



Technical Description

Function Diagram

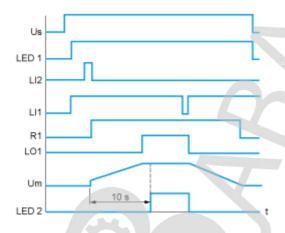
2-wire Control with Deceleration



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

LED 2: Yellow LED

Motor voltage