Product data sheet Characteristics

ATS01N212RT

soft starter for asynchronous motor - ATS01 - 12 A - 460..480 V



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	460480 V - 1010 %
Motor power hp	7.5 hp, 3 phases at 460480 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
414528 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
Open collector logic LO1 end of starting signal Relay outputs R1A, R1C NO
24 V (voltage limits: 630 V) open collector logic
10 mA at 6 V DC for relay outputs
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
LED (green) for starter powered up LED (yellow) for nominal voltage reached
1.92.5 N.M 0.5 N.m

4 mm screw clamp terminal - rigid 1 110 mm² AWG 8 power circuit
Screw connector - rigid 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 mm ² AWG 10 power circuit
Screw connector - flexible without cable end 2 0.51.5 mm² AWG 16 control circuit
CE
Vertical +/- 10 degree
124 mm
45 mm
131 mm
0.42 kg
ATS01N2

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 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 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 61000-4-5
Standards	EN/IEC 60947-4-2
Product certifications	UL B44.1-96/ASME A17.5 for starter wired to the motor delta terminal CSA CCC C-Tick GOST
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

Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Weight	509 g	
Package 1 Height	5.5 cm	
Package 1 width	15.2 cm	
Package 1 Length	17.5 cm	
Unit Type of Package 2	S03	

Number of Units in Package 2	14	
Package 2 Weight	7.96 kg	
Package 2 Height	30 cm	
Package 2 width	30 cm	
Package 2 Length	40 cm	

Offer Sustainability

REACh Regulation	REACh Declaration
REACh free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	₫Yes
China RoHS Regulation	China RoHS Declaration
Circularity Profile	End Of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

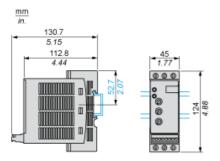
Contractual warranty

Warranty	18 months

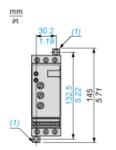
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Dimensions

Mounting on Symetrical (35 mm) Rail



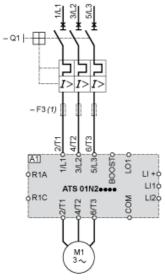
Screw Fixing



(1) Retractable fixings

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Example of Manual Control



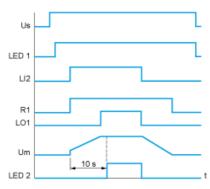
A1: Soft start/soft stop unit (1) For type 2 coordination Q1: Motor circuit-breaker F3: 3 fast-acting fuses

Product data sheet **Technical Description**

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Function Diagram

2-wire Control with Deceleration



Us: Power supply voltage

LED Green LED

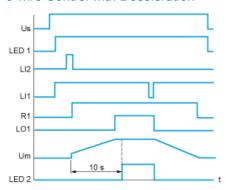
LI2: Logic input

R1: Relay output LO1:Logic output

LED Yellow LED

2:

3-wire Control with Deceleration



Us: Power supply voltage LED Green LED

1:

LI2, Logic inputs

R1: Relay output LO1:Logic output Um: Motor voltage

LED Yellow LED