ATS01N206RT

soft starter for asynchronous motor - ATS01 - 6 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	2 Hp, 3 phases at 460480 V 3 hp, 3 phases at 460480 V
IcL starter rating	6 A
Utilisation category	AC-53B conforming to EN/IEC 60947-4-2
Current consumption	30 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 64 W in transient state

Complementary

Complementary		
Assembly style	With heat sink	
Function available	Integrated bypass	
Supply voltage limits	414528 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	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	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 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	
	Screw connector - flexible without cable end 2 0.51.5 mm ² AWG 16 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	

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 61000-4-11 Voltage/current impulse level 3 conforming to IEC 61000-4-5	
Standards	EN/IEC 60947-4-2	
Product certifications	CCC UL GOST C-Tick CSA B44.1-96/ASME A17.5 for starter wired to the motor delta terminal	
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	539 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	8.022 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

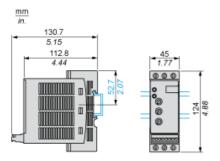
Warranty	18 months	

Product data sheet Dimensions Drawings

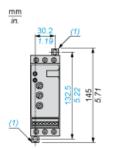
ATS01N206RT

Dimensions

Mounting on Symetrical (35 mm) Rail



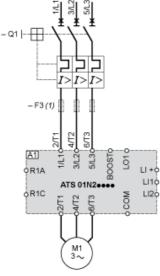
Screw Fixing



(1) Retractable fixings

ATS01N206RT

Example of Manual Control



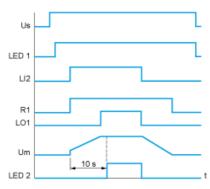
A1: Soft start/soft stop unit (1) For type 2 coordination Q1: Motor circuit-breaker F3: 3 fast-acting fuses

Product data sheet **Technical Description**

ATS01N206RT

Function Diagram

2-wire Control with Deceleration



Us: Power supply voltage

LED Green LED

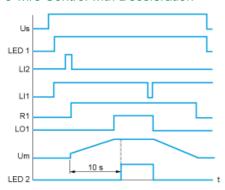
LI2: Logic input

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