

soft starter for asynchronous motor, Altistart 01, ATS01, 12A, 110 to 480V, 1.5 to 5.5kW

ATS01N112FT

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	1 phase	
[Us] rated supply voltage	110480 V - 1010 %	
Motor power kW	2.2 kW, 3 phases at 230 V 5.5 kW, 3 phases at 400 V 1.5 kW, 1 phase at 230 V	
Motor power hp	3 hp, 3 phases at 230 V 1.5 hp, 3 phases at 210 V 7.5 hp, 3 phases at 460 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	1 W at full load and at end of starting 61 W in transient state	

Complementary

Assembly style	With heat sink	
Function available	Integrated bypass	
Supply voltage limits	99528 V	
Supply frequency	5060 Hz - 55 %	
Network frequency	47.563 Hz	
Output voltage	<= power supply voltage	
[Uc] control circuit voltage	110 V AC +/- 10 % at 35 mA 24 V AC/DC +/- 10 % at 30 mA 240 V AC +/- 10 % at 80 mA	
Starting time	1 s / 100 5 s / 20 Adjustable from 1 to 5 s	
Starting torque	3080 % of starting torque of motor connected directly on the line supply	
Discrete output current	2 A DC-13 3 A AC-15	

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 1.56 mm² AWG 10 power circuit 5 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 mm² AWG 16 control circuit	
Marking	CE	
Operating position	Vertical +/- 10 degree	
Height	124 mm	
Width	45 mm	
Depth	131 mm	
Product weight	0.28 kg	
Compatibility code	ATS01N1	
Motor power range AC-3	1.12 kW at 200240 V 1 phase 2.23 kW at 200240 V 3 phases 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	C-Tick CCC UL CSA 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 Height	5.200 cm
Package 1 Width	15.500 cm
Package 1 Length	17.500 cm
Package 1 Weight	343.000 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	5.353 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	53.940 kg

Contractual warranty

Warranty 18 months



Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Use Better

Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
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

Use Again

○ Repack and remanufacture		
Take-back	No	
WEEE Label	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins	

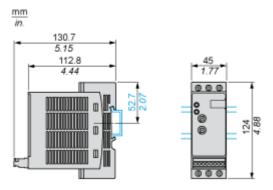
Product data sheet

ATS01N112FT

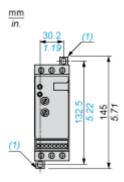
Dimensions Drawings

Dimensions

Mounting on Symetrical (35 mm) Rail



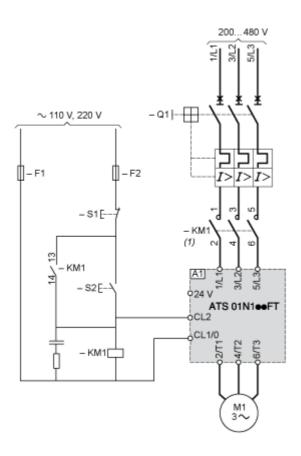
Screw Fixing



(1) Retractable fixings

Connections and Schema

Example of 3-phase Power Supply Connection



(1) A line contactor must be used in the sequence.

A1: Soft starter

Q1: Motor circuit-breaker

KM1: Contactors

F1, F2: Control protection fuses

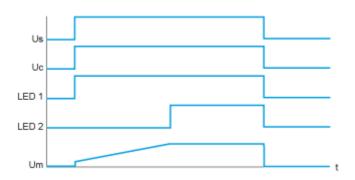
S1, S2: Pushbuttons

Product data sheet

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Technical Description

Function Diagram



Us: Power supply voltage
Uc: Control supply voltage

LED 1 : Green LED
LED 2 : Yellow LED
Um : Motor voltage