Product data sheet

Specifications



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

ATS01N112FT

Product availability: Stock - Normally stocked in distribution facility

Main

Range of Product	Altistart 01
Product destination	Asynchronous motors
Product or Component Type	Soft starter
Product Specific Application	Simple machine
Device short name	ATS01
Phase	1 phase
[Us] rated supply voltage	110...480 V - 10...10 %
Motor power kW	2.2 kW, 3 phase 230 V 5.5 kW, 3 phase 400 V 1.5 kW, 1 phase 230 V
Maximum Horse Power Rating	3 hp, 3 phase 230 V 1.5 hp, 3 phase 210 V 7.5 hp, 3 phase 460 V
IcL starter rating	12 A
Utilisation category	AC-53B 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	99…528 V
Supply frequency	50...60 Hz - 5...5 %
Network Frequency	47.5...63 Hz
Output voltage	<= power supply voltage
[Uc] Control circuit voltage	110 V AC +/- 10 % 35 mA 24 V AC/DC +/- 10 % 30 mA 240 V AC +/- 10 % 80 mA
Starting time	1 s / 100 5 s / 20 Adjustable from 1 to 5 s
Starting torque	30...80 % of starting torque of motor connected directly on the line supply
Discrete output current	2 A DC-13 3 A AC-15

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Tightening torque	16.8…22.1 lbf.in (1.9…2.5 N.m) 4.4 lbf.in (0.5 N.m)
Electrical connection	4 mm screw clamp terminal - rigid 1 1...10 mm² AWG 8 power circuit Screw connector - rigid without cable end 1 0.5...2.5 mm² AWG 14 control circuit 4 mm screw clamp terminal - rigid 2 1...6 mm² AWG 10 power circuit Screw connector - rigid 2 0.5...1 mm² AWG 17 control circuit Screw connector - flexible with cable end 1 0.5...1.5 mm² AWG 16 control circuit 4 mm screw clamp terminal - flexible without cable end 1 1.5...10 mm² AWG 8 power circuit Screw connector - flexible without cable end 1 0.5...2.5 mm² AWG 14 control circuit 4 mm screw clamp terminal - flexible with cable end 2 1...6 mm² AWG 10 power circuit 4 mm screw clamp terminal - flexible without cable end 2 1.5...6 mm² AWG 10 power circuit Screw connector - flexible without cable end 2 0.5...1.5 mm² AWG 16 control circuit
Marking	CE
Operating position	Vertical +/- 10 degree
Height	4.9 in (124 mm)
Width	1.8 in (45 mm)
Depth	5.2 in (131 mm)
Product Weight	0.62 lb(US) (0.28 kg)
Compatibility code	ATS01N1
Power range	1.1…2 kW 200…240 V 1 phase 2.2…3 kW 200…240 V 3 phase 4…6 kW 380…440 V 3 phase
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 EN/IEC 60947-4-2
Vibration resistance	1 gn (f= 13…150 Hz) conforming to EN/IEC 60068-2-6 1.5 mm peak to peak (f= 3…13 Hz) conforming to EN/IEC 60068-2-6
Shock resistance	15 gn 11 ms EN/IEC 60068-2-27
Relative humidity	5…95 % without condensation or dripping water EN/IEC 60068-2-3
Ambient air temperature for operation	14…104 °F (-10…40 °C) (without derating) 104…122 °F (40…50 °C) (with current derating of 2 % per °C)
Ambient air temperature for storage	-13…158 °F (-25…70 °C) EN/IEC 60947-4-2

Operating altitude	<= 3280.84 ft (1000 m) without derating > 3280.84 ft (1000 m) with current derating of 2.2 % per additional 100 m

Ordering and shipping details

Category	US10I1122392
Discount Schedule	0I11
GTIN	3389110667165
Returnability	Yes
Country of origin	DE

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	2.047 in (5.200 cm)
Package 1 Width	6.102 in (15.500 cm)
Package 1 Length	6.890 in (17.500 cm)
Package weight(Lbs)	11.711 oz (332.000 g)
Unit Type of Package 2	S03
Number of Units in Package 2	14
Package 2 Height	11.811 in (30.000 cm)
Package 2 Width	11.811 in (30.000 cm)
Package 2 Length	15.748 in (40.000 cm)
Package 2 Weight	11.460 lb(US) (5.198 kg)
Unit Type of Package 3	P06
Number of Units in Package 3	112
Package 3 Height	29.528 in (75.000 cm)
Package 3 Width	23.622 in (60.000 cm)
Package 3 Length	31.496 in (80.000 cm)
Package 3 Weight	118.917 lb(US) (53.940 kg)

Contractual warranty

Warranty (in months)	18

Environmental Data

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	**Compliant**
REACh Regulation	**Free of Substances of Very High Concern above the threshold**
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 Longer

Lifetime extension

Repair	**No**

Use Again

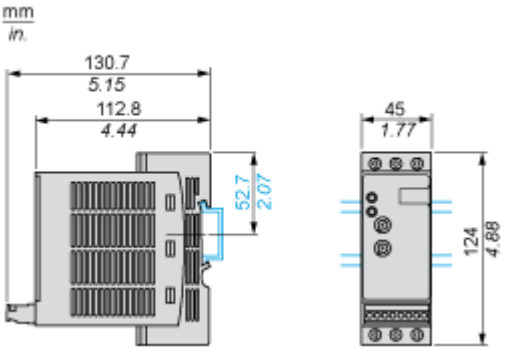
Repack and remanufacture

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.**

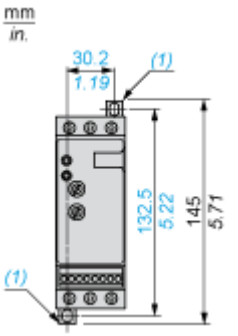
Dimensions Drawings

Dimensions

Mounting on Symetrical (35 mm) Rail



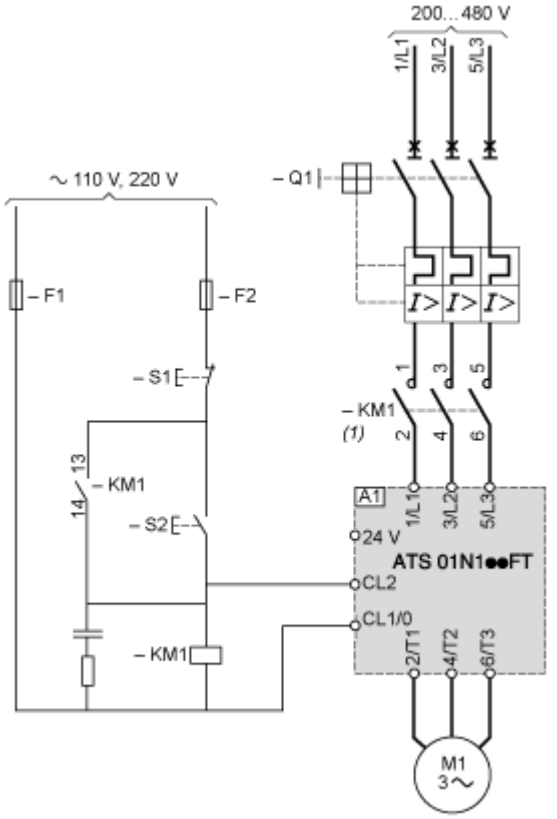
Screw Fixing



(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

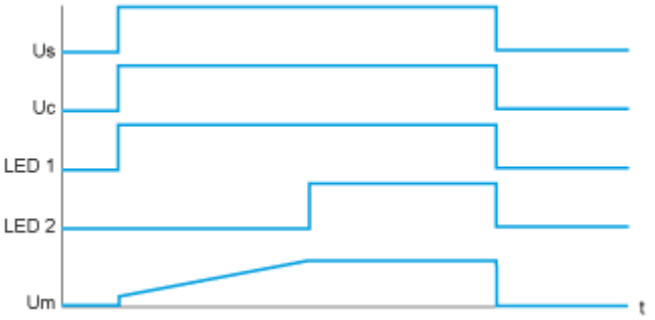
KM1 : Contactors

F1, F2 : Control protection fuses

S1, S2 : Pushbuttons

Technical Description

Function Diagram



Us : Power supply voltage

Uc : Control supply voltage

LED 1 : Green LED

LED 2 : Yellow LED

Um : Motor voltage