

ATS01N112FT

soft starter for asynchronous motor - ATS01 - 12 A - 110..480V - 1.5..5.5 KW



Main

Range of product	Altistart 01
Product or component type	Soft starter
Product destination	Asynchronous motors
Product specific application	Simple machine
Component name	ATS01
Network number of phases	3 phases Single phase
[Us] rated supply voltage	110...480 V (- 10...10 %)
Motor power kW	1.5 kW at 230 V single phase 2.2 kW at 230 V 3 phases 5.5 kW at 400 V 3 phases
Motor power hp	3 hp at 230 V 3 phases 1.5 hp at 210 V 3 phases 7.5 hp at 460 V 3 phases
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	99...528 V
Supply frequency	50...60 Hz (- 5...5 %)
Network frequency limits	47.5...63 Hz
Output voltage	<= power supply voltage
Control circuit voltage	110 V +/- 10 % AC, 35 mA 24 V +/- 10 % AC/DC, 30 mA 240 V +/- 10 % AC, 80 mA
Starting time	1 s/100 start(s) per hour 5 s/20 start(s) per hour 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
Tightening torque	0.5 N.m 1.9...2.5 N.m
Electrical connection	1 conductor(s) rigid cable, connection via 4 mm screw clamp terminal 1...10 mm ² /AWG 8 for power circuit 1 conductor(s) rigid cable, connection via screw connector 0.5...2.5 mm ² /AWG 14 for control circuit 2 conductor(s) rigid cable, connection via 4 mm screw clamp terminal 1...6 mm ² /AWG 10 for power circuit 2 conductor(s) rigid cable, connection via screw connector 0.5...1 mm ² /AWG 17 for control circuit 1 conductor(s) flexible cablewith cable end, connection via screw connector 0.5...1.5 mm ² /AWG 16 for control circuit 1 conductor(s) flexible cablewithout cable end, connection via 4 mm screw clamp terminal 1.5...10 mm ² /AWG 8 for power circuit 1 conductor(s) flexible cablewithout cable end, connection via screw connector 0.5...2.5 mm ² /AWG 14 for control circuit 2 conductor(s) flexible cablewith cable end, connection via 4 mm screw clamp terminal 1...6 mm ² /AWG 10 for power circuit 2 conductor(s) flexible cablewithout cable end, connection via 4 mm screw clamp

The information provided in this documentation contains general descriptions and/or technical characteristics of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

terminal 1.5...6 mm²/AWG 10 for power circuit
 2 conductor(s) flexible cable without cable end, connection via screw connector
 0.5...1.5 mm²/AWG 16 for control circuit

Marking	CE
Operating position	Vertical +/- 10 degree
Height	124 mm
Width	45 mm
Depth	131 mm
Product weight	0.28 kg

Environment

Electromagnetic compatibility	<p>Conducted and radiated emissions conforming to CISPR 11 level B Conducted and radiated emissions conforming to IEC 60947-4-2 level B Damped oscillating waves conforming to IEC 61000-4-12 level 3 Electrostatic discharge conforming to IEC 61000-4-2 level 3 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 conforming to IEC 61000-4-6 level 3 Immunity to electrical transients conforming to IEC 61000-4-4 level 4 Immunity to radiated radio-electrical interference conforming to IEC 61000-4-3 level 3 Micro-cuts and voltage fluctuation conforming to IEC 61000-4-11 Voltage/current impulse conforming to IEC 61000-4-5 level 3</p>
Standards	EN/IEC 60947-4-2
Product certifications	<p>B44.1-96/ASME A17.5 for starter wired to the motor delta terminal CCC CSA C-Tick GOST UL</p>
IP degree of protection	IP20
Pollution degree	2 conforming to EN/IEC 60947-4-2
Vibration resistance	<p>1.5 mm peak to peak (f = 3...13 Hz) conforming to EN/IEC 60068-2-6 1 gn (f = 13...150 Hz) conforming to EN/IEC 60068-2-6</p>
Shock resistance	15 gn for 11 ms conforming to EN/IEC 60068-2-27
Relative humidity	5...95 % without condensation or dripping water conforming to EN/IEC 60068-2-3
Ambient air temperature for operation	<p>-10...40 °C without derating 40...50 °C with current derating of 2 % per °C</p>
Ambient air temperature for storage	-25...70 °C conforming to EN/IEC 60947-4-2
Operating altitude	<p><= 1000 m without derating > 1000 m with current derating of 2.2 % per additional 100 m</p>