ATS01N112FT

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



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

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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 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 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 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	B44.1-96/ASME A17.5 for starter wired to the motor delta terminal 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

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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

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	
China RoHS Regulation	☑ China RoHS Declaration	
RoHS exemption information	₫Yes	
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	
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	

Contractual warranty

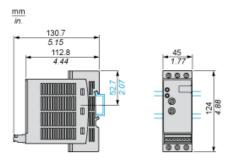
Contractual warranty		
Warranty	18 months	

Product data sheet Dimensions Drawings

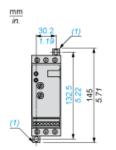
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Dimensions

Mounting on Symetrical (35 mm) Rail



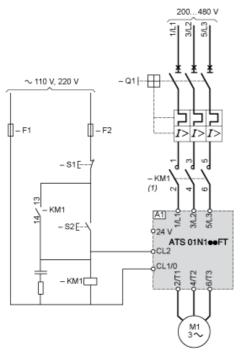
Screw Fixing



(1) Retractable fixings

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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, Control protection fuses

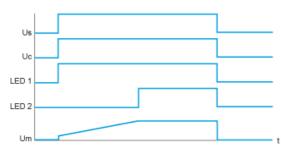
S1, Pushbuttons

S2:

Product data sheet Technical Description

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Function Diagram



Us: Power supply voltage Uc: Control supply voltage LED Green LED

1: LED Yellow LED

Um : Motor voltage