ATS01N103FT

soft starter for asynchronous motor - ATS01 - 3 A - 110..480V - 0.55..1.1 KW



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	0.37 KW, 3 phases at 230 V 0.55 KW, 3 phases at 230 V 1.1 KW, 3 phases at 400 V 0.37 kW, 1 phase at 230 V
Motor power hp	0.5 Hp, 3 phases at 230 V 0.5 Hp, 3 phases at 460 V 1.5 hp, 3 phases at 460 V
IcL starter rating	3 A
Utilisation category	AC-53B conforming to EN/IEC 60947-4-2
Current consumption	15 A at nominal load
Type of start	Start with voltage ramp
Power dissipation in W	19 W in transient state 4 W at full load and at end of starting

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 30 mA 24 V AC/DC +/- 10 % at 25 mA 240 V AC +/- 10 % at 65 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	0.8 N.m
Electrical connection	Cage type connector - rigid 1 2.5 mm² AWG 14 control circuit Cage type connector - rigid 2 1 mm² AWG 17 control circuit Cage type connector - rigid 2 1 mm² AWG 17 control circuit Cage type connector - rigid 2 1 mm² AWG 17 power circuit Cage type connector - flexible with cable end 1 2.5 mm² AWG 14 control circuit Cage type connector - flexible with cable end 1 2.5 mm² AWG 14 power circuit Cage type connector - flexible without cable end 1 2.5 mm² AWG 14 control circuit Cage type connector - flexible without cable end 1 2.5 mm² AWG 14 power circuit Cage type connector - flexible without cable end 2 0.75 mm² AWG 18 control circuit Cage type connector - flexible with cable end 2 0.75 mm² AWG 18 power circuit Cage type connector - flexible without cable end 2 1 mm² AWG 17 control circuit Cage type connector - flexible without cable end 2 1 mm² AWG 17 power circuit

Marking	CE	
Operating position	Vertical +/- 10 degree	
Height	100 mm	
Width	23 mm	
Depth	100 mm	
Net weight	0.16 kg	
Compatibility code	ATS01N1	
Motor power range AC-3	00.5 KW at 200240 V 1 phase 00.5 KW at 200240 V 3 phases 0.551 KW at 200240 V 3 phases 1.12 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	CSA GOST C-Tick UL CCC 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

r acking office	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.5 cm
Package 1 Width	10.3 cm
Package 1 Length	10.5 cm
Package 1 Weight	175.0 g
Unit Type of Package 2	S02
Number of Units in Package 2	36
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	6.491 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) EV RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
China RoHS Regulation	☑ China RoHS Declaration
RoHS exemption information	₫Yes
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Contractual warranty

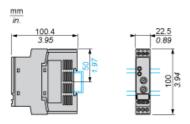
Warranty	18 months
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Product data sheet Dimensions Drawings

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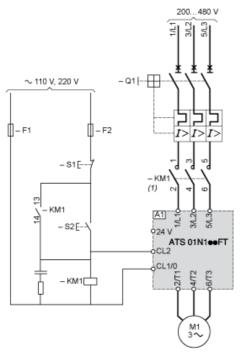
Dimensions

Mounting on Symetrical (35 mm) Rail or Asymetrical Rail with Adaptor RHZ 66



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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

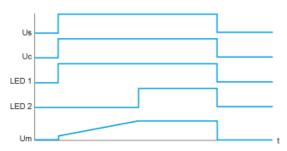
S1, Pushbuttons

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