

Product data sheet Characteristics

ATS01N106FT

soft starter for asynchronous motor, Altistart 01, ATS01, 6A, 110 to 480V, 0.75 to 3kW



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	3 KW, 3 phases at 400 V 0.75 KW, 3 phases at 230 V 1.1 KW, 3 phases at 230 V 2.2 KW, 3 phases at 400 V 0.75 kW, 1 phase at 230 V	
Motor power hp	1 Hp, 3 phases at 230 V 2 Hp, 3 phases at 460 V 3 Hp, 3 phases at 460 V 0.5 Hp, 3 phases at 210 V 1.5 hp, 3 phases at 230 V	
IcL starter rating	6 A	
Utilisation category	AC-53B conforming to EN/IEC 60947-4-2	
Current consumption	30 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 31 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 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

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Electrical connection	Cage type connector - rigid 1 2.5 mm² AWG 14 control circuit
	Cage type connector - rigid with cable end 1 2.5 mm² AWG 14 power circuit
	Cage type connector - rigid without cable end 2 1 mm² AWG 17 control circuit
	Cage type connector - rigid without cable end 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 mm ² AWG 14 control circuit
	Cage type connector - flexible without cable end 1 2.5 mm ² AWG 14 power circuit
	Cage type connector - flexible with cable end 2 0.75 mm ² AWG 18 control circuit
	Cage type connector - flexible with cable end 2 0.75 mm ² AWG 18 power circuit
	Cage type connector - flexible without cable end 2 1 mm ² AWG 17 control circuit
	Cage type connector - flexible without cable end 2 1 mm ² 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	0.551 KW at 200240 V 3 phases
	1.12 KW at 380440 V 3 phases
	0.551 KW at 200240 V 1 phase
	1.12 KW at 200240 V 3 phases
	2.23 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[RETURN]CCC[RETURN]CSA[RETURN]UL[RETURN]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

PCE	
1	
2.5 cm	
10.3 cm	
10.5 cm	
178.0 g	
S02	
_	1 2.5 cm 10.3 cm 10.5 cm 178.0 g

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	6.715 kg

Offer Sustainability

Yes
Pro-active compliance (Product out of EU RoHS legal scope) EV RoHS Declaration
Yes
Yes
China RoHS Declaration
₫Yes
The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Contractual warranty

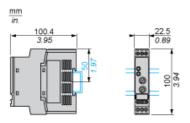
Warranty 18 mo	nths
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Product data sheet Dimensions Drawings

ATS01N106FT

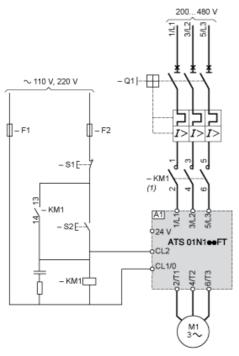
Dimensions

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 starterQ1: Motor circuit-breaker

KM1 :Contactors

F1, Control protection fuses

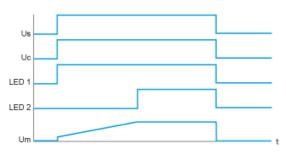
S1, Pushbuttons

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