

# ATS01N106FT

soft starter for asynchronous motor - ATS01 - 6  
A - 110..480V - 0.75..3 KW

Product availability: Stock - Normally stocked in distribution facility



## 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
Phase	1 phase
[Us] rated supply voltage	110...480 V - 10...10 %
Motor power kW	3 kW 3 phases 400 V 0.75 kW 3 phases 230 V 1.1 kW 3 phases 230 V 2.2 kW 3 phases 400 V 0.75 kW 1 phase 230 V
Motor power hp	1 hp 3 phases 230 V 2 hp 3 phases 460 V 3 hp 3 phases 460 V 0.5 hp 3 phases 210 V 1.5 hp 3 phases 230 V
lcl starter rating	6 A
Utilisation category	AC-53B 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	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 % 30 mA 24 V AC/DC +/- 10 % 25 mA 240 V AC +/- 10 % 65 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
Tightening torque	7.08 lbf.in (0.8 N.m)

Electrical connection	Cage type connector rigid 1 2.5 mm <sup>2</sup> AWG 14 control circuit Cage type connector rigid 1 2.5 mm <sup>2</sup> AWG 14 power circuit Cage type connector rigid 2 1 mm <sup>2</sup> AWG 17 control circuit Cage type connector rigid 2 1 mm <sup>2</sup> AWG 17 power circuit Cage type connector flexible with cable end 1 2.5 mm <sup>2</sup> AWG 14 control circuit Cage type connector flexible with cable end 1 2.5 mm <sup>2</sup> AWG 14 power circuit Cage type connector flexible without cable end 1 2.5 mm <sup>2</sup> AWG 14 control circuit Cage type connector flexible without cable end 1 2.5 mm <sup>2</sup> AWG 14 power circuit Cage type connector flexible with cable end 2 0.75 mm <sup>2</sup> AWG 18 control circuit Cage type connector flexible with cable end 2 0.75 mm <sup>2</sup> AWG 18 power circuit Cage type connector flexible without cable end 2 1 mm <sup>2</sup> AWG 17 control circuit Cage type connector flexible without cable end 2 1 mm <sup>2</sup> AWG 17 power circuit
Marking	CE
Operating position	Vertical +/- 10 degree
Height	3.94 in (100 mm)
Width	0.91 in (23 mm)
Depth	3.94 in (100 mm)
Product weight	0.35 lb(US) (0.16 kg)
Compatibility code	ATS01N1
Motor power range AC-3	0.55...1 kW at 200...240 V 1 phase 2.2...3 kW at 380...440 V 3 phases 0.55...1 kW at 200...240 V 3 phases 1.1...2 kW at 380...440 V 3 phases 1.1...2 kW at 200...240 V 3 phases
Motor starter type	Soft starter

## Environment

Electromagnetic compatibility	Damped oscillating waves level 3 IEC 61000-4-12 Electrostatic discharge level 3 IEC 61000-4-2 Immunity to electrical transients level 4 IEC 61000-4-4 Immunity to radiated radio-electrical interference level 3 IEC 61000-4-3 Voltage/Current impulse level 3 IEC 61000-4-5 Conducted and radiated emissions level B CISPR 11 Conducted and radiated emissions level B IEC 60947-4-2 EMC immunity EN 50082-2 Harmonics IEC 1000-3-2 Harmonics IEC 1000-3-4 Immunity to conducted interference caused by radio-electrical fields level 3 IEC 61000-4-6 Micro-cuts and voltage fluctuation IEC 61000-4-11 EMC immunity EN 50082-1
Standards	EN/IEC 60947-4-2
Product certifications	UL C-Tick CCC CSA B44.1-96/ASME A17.5 for starter wired to the motor delta terminal GOST
IP degree of protection	IP20
Pollution degree	2 EN/IEC 60947-4-2
Vibration resistance	1.5 mm peak to peak 3...13 Hz EN/IEC 60068-2-6 1 gn 13...150 Hz 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	22392 - ATS01/ATS01 LOW HP SOFT STARTERS
Discount Schedule	I11
GTIN	00785901416937
Nbr. of units in pkg.	1
Package weight(Lbs)	0.40000000000000002

Returnability	Y
Country of origin	DE

### Offer Sustainability

California proposition 65	WARNING: This product can expose you to chemicals including:
- - - - - Substance 1	Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm.
- - - - - Substance 2	Bisphenol A (BPA), which is known to the State of California to cause birth defects or other reproductive harm.
- - - - - More information	For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>

### Contractual warranty

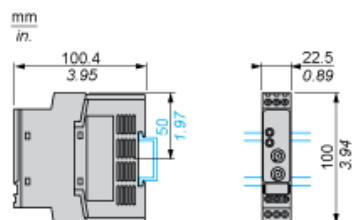
Warranty period	18 months
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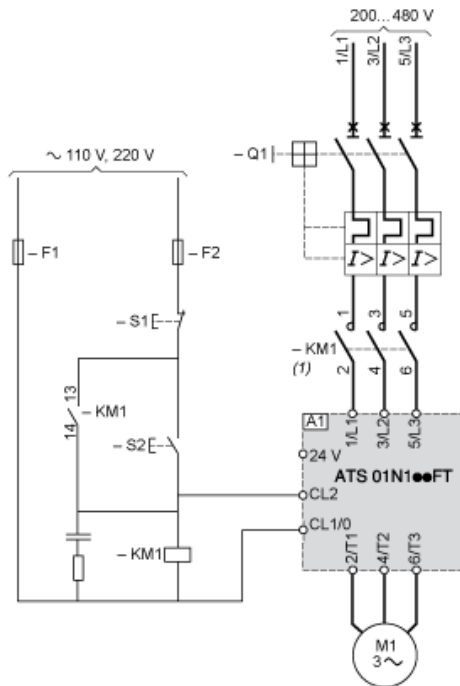
## Dimensions

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



### 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

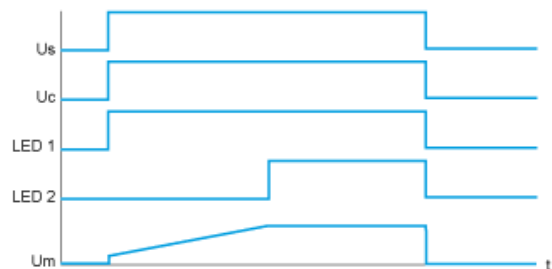
S1, S2 :

Pushbuttons

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## Function Diagram

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Us : Power supply voltage  
Uc : Control supply voltage  
LED : Green LED  
1 :  
LED : Yellow LED  
2 :  
Um : Motor voltage

# Mouser Electronics

Authorized Distributor

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