

# Product data sheet

## Characteristics

# ATS01N103FT

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

Product availability: Stock - Normally stocked in distribution facility  
Price\*: 100.00 USD



### 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	3 phases Single phase
[Us] rated supply voltage	110...480 V (- 10...10 %)
motor power kW	0.37 kW at 230 V single phase 0.55 kW at 230 V 3 phases 1.1 kW at 400 V 3 phases 0.37 kW at 230 V 3 phases
motor power hp	0.5 hp at 460 V 3 phases 1.5 hp at 460 V 3 phases 0.5 hp at 230 V 3 phases
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	99...528 V
supply frequency	50...60 Hz (- 5...5 %)
network frequency	47.5...63 Hz
output voltage	<= power supply voltage
control circuit voltage	110 V +/- 10 % AC, 30 mA 24 V +/- 10 % AC/DC, 25 mA 240 V +/- 10 % AC, 65 mA
starting time	1 s/100 start(s) per hour Adjustable from 1 to 5 s 5 s/20 start(s) per hour
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)

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electrical connection	<p>2 conductor(s) flexible cable without cable end, connection via cage type connector 1 mm<sup>2</sup>/AWG 17 control circuit</p> <p>1 conductor(s) flexible cable without cable end, connection via cage type connector 2.5 mm<sup>2</sup>/AWG 14 control circuit</p> <p>2 conductor(s) flexible cable without cable end, connection via cage type connector 1 mm<sup>2</sup>/AWG 17 power circuit</p> <p>2 conductor(s) rigid cable, connection via cage type connector 1 mm<sup>2</sup>/AWG 17 control circuit</p> <p>1 conductor(s) flexible cable with cable end, connection via cage type connector 2.5 mm<sup>2</sup>/AWG 14 power circuit</p> <p>2 conductor(s) flexible cable with cable end, connection via cage type connector 0.75 mm<sup>2</sup>/AWG 18 control circuit</p> <p>1 conductor(s) rigid cable, connection via cage type connector 2.5 mm<sup>2</sup>/AWG 14 power circuit</p> <p>2 conductor(s) rigid cable, connection via cage type connector 1 mm<sup>2</sup>/AWG 17 power circuit</p> <p>2 conductor(s) flexible cable with cable end, connection via cage type connector 0.75 mm<sup>2</sup>/AWG 18 power circuit</p> <p>1 conductor(s) flexible cable with cable end, connection via cage type connector 2.5 mm<sup>2</sup>/AWG 14 control circuit</p> <p>1 conductor(s) flexible cable without cable end, connection via cage type connector 2.5 mm<sup>2</sup>/AWG 14 power circuit</p> <p>1 conductor(s) rigid cable, connection via cage type connector 2.5 mm<sup>2</sup>/AWG 14 control circuit</p>
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

## Environment

electromagnetic compatibility	<p>Damped oscillating waves conforming to IEC 61000-4-12 level 3</p> <p>EMC immunity conforming to EN 50082-1</p> <p>Micro-cuts and voltage fluctuation conforming to IEC 61000-4-11</p> <p>Electrostatic discharge conforming to IEC 61000-4-2 level 3</p> <p>Conducted and radiated emissions conforming to CISPR 11 level B</p> <p>EMC immunity conforming to EN 50082-2</p> <p>Immunity to radiated radio-electrical interference conforming to IEC 61000-4-3 level 3</p> <p>Harmonics conforming to IEC 1000-3-2</p> <p>Harmonics conforming to IEC 1000-3-4</p> <p>Conducted and radiated emissions conforming to IEC 60947-4-2 level B</p> <p>Immunity to conducted interference caused by radio-electrical fields conforming to IEC 61000-4-6 level 3</p> <p>Voltage/Current impulse conforming to IEC 61000-4-5 level 3</p> <p>Immunity to electrical transients conforming to IEC 61000-4-4 level 4</p>
standards	EN/IEC 60947-4-2
product certifications	<p>B44.1-96/ASME A17.5 for starter wired to the motor delta terminal</p> <p>CSA</p> <p>C-Tick</p> <p>CCC</p> <p>UL</p> <p>GOST</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</p> <p>1 gn (f = 13...150 Hz) conforming to EN/IEC 60068-2-6</p>
shock resistance	15 gn 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>14...104 °F (-10...40 °C) without derating</p> <p>104...122 °F (40...50 °C) with current derating of 2 % per °C</p>
ambient air temperature for storage	-13...158 °F (-25...70 °C) conforming to EN/IEC 60947-4-2
operating altitude	<p>&lt;= 3280.84 ft (1000 m) without derating</p> <p>&gt; 3280.84 ft (1000 m) with current derating of 2.2 % per additional 100 m</p>

### Ordering and shipping details

Category	22392 - ATSU01/ATS01 LOW HP SOFT STARTERS
Discount Schedule	I11
GTIN	00785901534181
Nbr. of units in pkg.	1
Returnability	Y
Country of origin	DE

### Contractual warranty

Warranty period	18 months
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