ATSU01N222LT

soft starter for asynchronous motor - ATSU01 - 22 A - 200..480 V - 4..11 KW



Main	
Range of Product	Altistart U01 and TeSys U
Product or Component Type	Soft starter
Product destination	Asynchronous motors
Product Specific Application	Simple machine
Device short name	ATSU01
Phase	3 phase
[Us] rated supply voltage	200480 V - 1010 %
Motor power kW	11 KW, 3 phase 400 V 4 KW, 3 phase 230 V 7.5 KW, 3 phase 400 V 5.5 kW, 3 phase 230 V
Maximum Horse Power Rating	5 Hp, 3 phase 230 V 7.5 Hp, 3 phase 230 V 10 Hp, 3 phase 460 V 15 hp, 3 phase 460 V
IcL starter rating	22 A
Utilisation category	AC-53B EN/IEC 60947-4-2
Current consumption	100 mA
Type of start	Start with voltage ramp
Power dissipation in W	2.5 W at full load and at end of starting 222.5 W in transient state

Complementary

Assembly style	With heat sink
Function Available	Integrated bypass
Supply voltage limits	180528 V
Supply frequency	5060 Hz - 55 %
Network Frequency	47.563 Hz
Output voltage	<= power supply voltage
[Uc] control circuit voltage	24 V DC +/- 10 %
Starting time	1 s / 100 5 s / 20 10 s / 10 Adjustable from 1 to 10 s
Deceleration time symb	Adjustable from 1 to 10 s
Starting torque	3080 % of starting torque of motor connected directly on the line supply
Discrete input type	Logic LI1, LI2, BOOST) stop, run and boost on start-up functions <= 8 mA 27 kOhm
Discrete input voltage	2440 V
Input output isolation	Galvanic between power and control
Discrete input logic	Positive LI1, LI2, BOOST < 5 V <= 0.2 mA > 13 V, >= 0.5 mA
Discrete output current	2 A DC-13 3 A AC-15
Discrete output type	Open collector logic LO1 end of starting signal Relay outputs R1A, R1C NO
Discrete output voltage	24 V 630 V) open collector logic
Minimum switching current	10 mA 6 V DC relay outputs
Maximum switching current	Relay outputs 2 A 30 V DC cos phi = 0.5 20 ms inductive Relay outputs 2 A 250 V AC AC-15 cos phi = 0.5 20 ms inductive

Maximum switching voltage	440 V relay outputs
Display type	LED Green)starter powered up LED Yellow)nominal voltage reached
Tightening torque	16.8222.13 Lbf.ln (1.92.5 N.m) 4.43 lbf.in (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	12.36 in (314 mm)
Width	1.77 in (45 mm)
Depth	6.69 in (170 mm)
Net Weight	1.08 lb(US) (0.49 kg)
Motor power range AC-3	46 KW 200240 V 3 phase 711 kW 380440 V 3 phase
Motor starter type	Soft starter

Environment

Electromagnetic compatibility	Conducted and radiated emissions level B CISPR 11 Conducted and radiated emissions level B IEC 60947-4-2 Damped oscillating waves level 3 IEC 61000-4-12 Electrostatic discharge level 3 IEC 61000-4-2 EMC immunity EN 50082-1 EMC immunity EN 50082-2 Harmonics IEC 1000-3-2 Harmonics IEC 1000-3-4 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 3 IEC 61000-4-6 Immunity to conducted interference caused by radio-electrical fields IEC 61000-4-11
Standards	EN/IEC 60947-4-2
Product Certifications	C-tick CSA UL CCC
IP Degree of Protection	IP20
Pollution degree	2 EN/IEC 60947-4-2
Vibration resistance	1 gn 13150 Hz)EN/IEC 60068-2-6 1.5 mm peak to peak 313 Hz)EN/IEC 60068-2-6
Shock resistance	15 gn 11 ms EN/IEC 60068-2-27
Relative humidity	595 % without condensation or dripping water EN/IEC 60068-2-3
Ambient air temperature for operation	14104 °F (-1040 °C) without derating) 104122 °F (4050 °C) with current derating of 2 % per °C)
Ambient air temperature for storage	-13158 °F (-2570 °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-ATSU01/ATS01 LOW HP SOFT STARTERS
Discount Schedule	l11
GTIN	3389110667110
Returnability	Yes
Country of origin	DE

Packing Units

PCE
1
1.97 in (5.000 cm)
5.91 in (15.000 cm)
6.77 in (17.200 cm)
19.54 oz (554.000 g)
S03
14
11.81 in (30.000 cm)
11.81 in (30.000 cm)
15.75 in (40.000 cm)
18.53 lb(US) (8.405 kg)
P06
112
29.53 in (75.000 cm)
23.62 in (60.000 cm)
31.50 in (80.000 cm)
169.84 lb(US) (77.036 kg)

Offer Sustainability

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
REACh Regulation	☑ REACh Declaration
REACh free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
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.
	waste collection and never end up in rubbish bins.

Contractual warranty

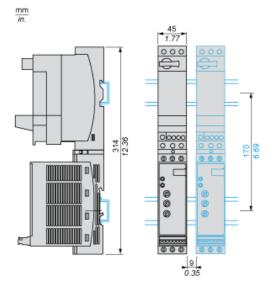
Warranty 18 months	Warranty	

ATSU01N222LT

Dimensions

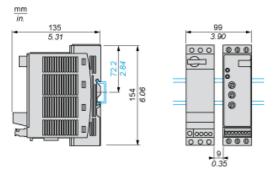
With TeSys U Combination (Non Reversing Power Base)

Mounting on symetrical (35 mm) rail with power connector between ATS and TeSys U.



With TeSys U Combination (Non Reversing or Reversing Power Base)

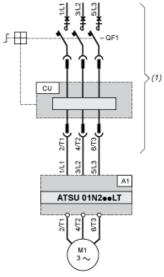
Side by side mounting



Product data sheet Connections and Schema

ATSU01N222LT

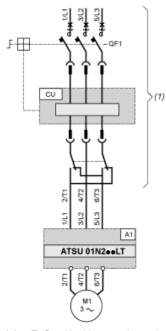
Power Wiring



(1) TeSys U

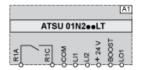
A1: Soft start/soft stop unit QF1:TeSys U controller-starter CU: TeSys U control unit

With Reversing Unit



(1) TeSys U with reversing unit A1: Soft start/soft stop unit QF1:TeSys U controller-starter CU: TeSys U control unit

Control Wiring



A1 : Soft start/soft stop unit R1A, Relay output NO

R1C:

COM Commun

LI1, Logic inputs (stop and run functions)

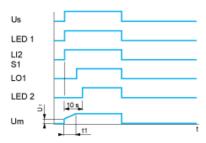
LI2:
BOO\$Togic input (boost on start-up function)
LO1:Logic output

Product data sheet Technical Description

ATSU01N222LT

Functional Diagram Automatic 2-wire Control

Without Deceleration



Us: Power supply voltage

LED Green LED

1:

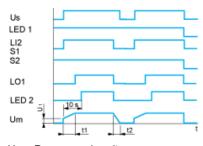
LI2: Logic input S1: Pushbutton LED Yellow LED

2:

Um: Motor voltage

t1: Acceleration time can be controlled by a potentiometer U1: Starting time can be controlled by a potentiometer

With and without Deceleration



Us: Power supply voltage

LED Green LED 1:

LI2: Logic input

S1, Pushbuttons

S2:

LO1:Logic output

LED Yellow LED

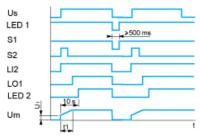
2 :

Um: Motor voltage

t1: Acceleration time can be controlled by a potentiometer
t2: Deceleration time can be controlled by a potentiometer
U1: Starting time can be controlled by a potentiometer

Functional Diagram Automatic 3-wire Control

Without Deceleration



Us: Power supply voltage LED Green LED

1:

Pushbuttons S1,

S2:

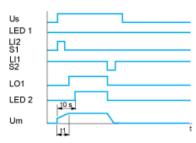
LI2: Logic input LO1 :Logic output LED Yellow LED

2:

Um : Motor voltage

t1: Acceleration time can be controlled by a potentiometer U1: Starting time can be controlled by a potentiometer

With Deceleration



Us: Power supply voltage

LED Green LED

1:

S1, Pushbuttons

S2:

LI1, Logic inputs

LI2:

LO1:Logic output

LED Yellow LED

2:

Um: Motor voltage

t1: Acceleration time can be controlled by a potentiometer

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