

soft starter for asynchronous motor, Altistart U01, TeSys U, ATSU01, 12A, 200 to 480V, 2.2 to 5.5kW

ATSU01N212LT

Product availability: Non-Stock - Not normally stocked in distribution facility

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	2.2 kW, 3 phase 230 V 5.5 kW, 3 phase 400 V 3 kW, 3 phase 230 V	
Maximum Horse Power Rating	3 hp, 3 phase 230 V 7.5 hp, 3 phase 460 V	
Icl Starter Rating	12 A	
Utilisation Category	AC-53B EN/IEC 60947-4-2	
Current Consumption	65 mA	
Type Of Start	Start with voltage ramp	
Power Dissipation In W	1.5 W at full load and at end of starting 121.5 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

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Discrete Input Type	Logic L11, L12, 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.in (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 without cable end 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 5 crew connector - flexible without cable end 2 0.51.5 mm² AWG 16 control circuit
Marking	CE
Operating Position	Vertical +/- 10 degree
Height	9.21 in (234 mm)
Width	1.77 in (45 mm)
Depth	5.91 in (150 mm)
Net Weight	0.75 lb(US) (0.34 kg)
Motor Power Range Ac-3	2.23 kW 200240 V 3 phase 46 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 level B EN 50082-2 Harmonics level 3 IEC 1000-3-2 Harmonics level 3 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 61000-4-6 Immunity to conducted interference caused by radio-electrical fields level 4 IEC
Standards	61000-4-11 EN/IEC 60947-4-2

Product Certifications	UL
	CCC
	C-tick
	CSA
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	14104 °F (-1040 °C) without derating)
Operation	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	US10I1122392
Discount Schedule	0111
Gtin	3389110667103
Returnability	Yes
Country Of Origin	DE

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	2.17 in (5.5 cm)
Package 1 Width	6.89 in (17.5 cm)
Package 1 Length	5.91 in (15.0 cm)
Package 1 Weight	15.98 oz (453.0 g)
Unit Type Of Package 2	S03
Number Of Units In Package 2	14
Package 2 Height	11.81 in (30.0 cm)
Package 2 Width	11.81 in (30.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	15.19 lb(US) (6.889 kg)

Contractual warranty

Warranty 18 months

Sustainability

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

Well-being performance

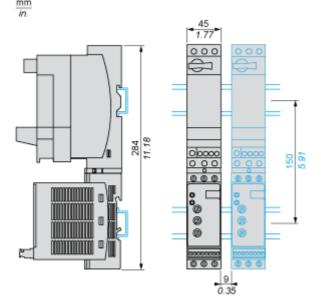
Reach Free Of Svhc	
Toxic Heavy Metal Free	
Mercury Free	
Rohs Exemption Information	Yes
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
	EU RONS Declaration
China Rohs Regulation	China RoHS declaration
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
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

Dimensions Drawings

Dimensions

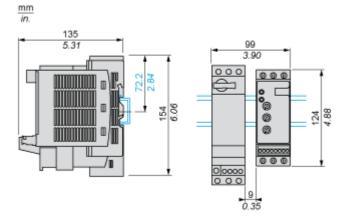
With TeSys U Combination (Non Reversing Power Base)

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



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

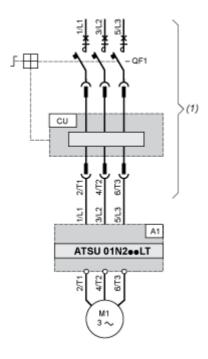
Side by side mounting



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Connections and Schema

Power Wiring



(1) TeSys U

A1: Soft start/soft stop unit

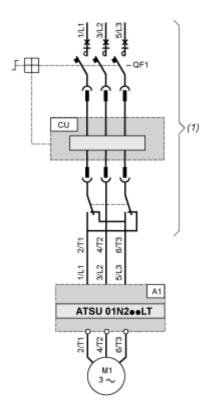
QF1: TeSys U controller-starter

CU: TeSys U control unit

With Reversing Unit

Product data sheet

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(1) TeSys U with reversing unit

A1: Soft start/soft stop unit

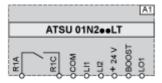
QF1: TeSys U controller-starter

CU: TeSys U control unit

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Control Wiring



A1: Soft start/soft stop unit R1A, R1C: Relay output NO

COM: Commun

LI1, LI2: Logic inputs (stop and run functions)

BOOST: Logic input (boost on start-up function)

LO1: Logic output

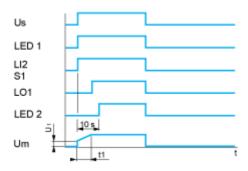
Product data sheet

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Technical Description

Functional Diagram Automatic 2-wire Control

Without Deceleration



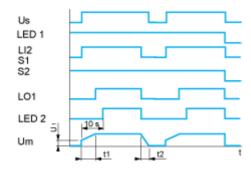
Us: Power supply voltage

LED 1 : Green LED
LI2 : Logic input
S1 : Pushbutton
LED 2 : Yellow LED
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

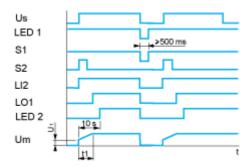
LED 1: Green LED
LI2: Logic input
S1, S2: Pushbuttons
LO1: Logic output
LED 2: Yellow LED

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

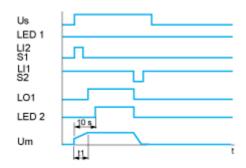
LED 1: Green LED
S1, S2: Pushbuttons

LI2: Logic input
LO1: Logic output
LED 2: Yellow LED
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 1: Green LED
S1, S2: Pushbuttons
LI1, LI2: Logic inputs
LO1: Logic output
LED 2: Yellow LED
Um: Motor voltage

t1: Acceleration time can be controlled by a potentiometer