Product data sheet
Characteristics

ATSU01N209LT
soft starter for asynchronous motor - ATSU01 - 9 A - 200..480V - 1.5..4 KW

Product availability: Stock - Normally stocked in distribution facility
Price*: 152.00 USD

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 phases
[Us] rated supply voltage	200...480 V (- 10...10 %)
motor power kW	4 kW at 400 V 3 phases 1.5 kW at 230 V 3 phases
motor power hp	5 hp at 460 V 3 phases 2 hp at 230 V 3 phases
IcL starter rating	9 A
utilisation category	AC-53B conforming to 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 91.5 W in transient state

Complementary

assembly style	With heat sink
function available	Integrated bypass
supply voltage limits	180...528 V
supply frequency	50...60 Hz (- 5...5 %)
network frequency	47.5...63 Hz
output voltage	<= power supply voltage
control circuit voltage	24 V DC +/- 10 %
starting time	10 s/10 start(s) per hour Adjustable from 1 to 10 s 1 s/100 start(s) per hour 5 s/20 start(s) per hour
deceleration time symb	Adjustable from 1 to 10 s
starting torque	30...80 % of starting torque of motor connected directly on the line supply
discrete input type	(LI1, LI2, BOOST) stop, run and boost on start-up functions logic <= 8 mA 27 kOhm
discrete input voltage	24...40 V
input output isolation	Galvanic between power and control
discrete input logic	(LI1, LI2, BOOST) positive state 0 < 5 V and < 0.2 mA, state 1 > 13 V and > 0.5 mA
discrete output current	2 A DC-13 3 A AC-15
discrete output type	(LO1) open collector logic end of starting signal (R1A, R1C) relay outputs NO
discrete output voltage	24 V (6...30 V) open collector logic
minimum switching current	Relay outputs 10 mA 6 V DC

maximum switching current	Relay outputs 2 A 30 V DC inductive load, cos phi = 0.5 L/R = 20 ms Relay outputs 2 A 250 V AC AC-15 inductive load, cos phi = 0.5 L/R = 20 ms
maximum switching voltage	440 V relay outputs
display type	1 LED (green) starter powered up 1 LED (yellow) nominal voltage reached
tightening torque	16.81...22.12 lbf.in (1.9...2.5 N.m) 4.42 lbf.in (0.5 N.m)
electrical connection	1 conductor(s) flexible cable with cable end, connection via screw connector 0.5...1.5 mm²/AWG 16 control circuit 1 conductor(s) flexible cable without cable end, connection via 4 mm screw clamp terminal 1.5...10 mm²/AWG 8 power circuit 1 conductor(s) flexible cable without cable end, connection via screw connector 0.5...2.5 mm²/AWG 14 control circuit 1 conductor(s) rigid cable, connection via 4 mm screw clamp terminal 1...10 mm²/AWG 8 power circuit 2 conductor(s) rigid cable, connection via 4 mm screw clamp terminal 1...6 mm²/AWG 10 power circuit 2 conductor(s) flexible cable without cable end, connection via 4 mm screw clamp terminal 1.5...6 mm²/AWG 10 power circuit 2 conductor(s) flexible cable without cable end, connection via screw connector 0.5...1.5 mm²/AWG 16 control circuit 1 conductor(s) rigid cable, connection via screw connector 0.5...2.5 mm²/AWG 14 control circuit 2 conductor(s) flexible cable with cable end, connection via 4 mm screw clamp terminal 1...6 mm²/AWG 10 power circuit 2 conductor(s) rigid cable, connection via screw connector 0.5...1 mm²/AWG 17 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)
product weight	0.75 lb(US) (0.34 kg)

Environment

electromagnetic compatibility	Immunity to conducted interference caused by radio-electrical fields conforming to IEC 61000-4-11 Harmonics conforming to IEC 1000-3-2 Immunity to radiated radio-electrical interference conforming to IEC 61000-4-3 level 3 Conducted and radiated emissions conforming to IEC 60947-4-2 level B EMC immunity conforming to EN 50082-1 Harmonics conforming to IEC 1000-3-4 Immunity to electrical transients conforming to IEC 61000-4-4 level 4 Voltage/Current impulse conforming to IEC 61000-4-5 level 3 Conducted and radiated emissions conforming to IEC 61000-4-6 level 3 Damped oscillating waves conforming to IEC 61000-4-12 level 3 Electrostatic discharge conforming to IEC 61000-4-2 level 3 EMC immunity conforming to EN 50082-2 Conducted and radiated emissions conforming to CISPR 11 level B
standards	EN/IEC 60947-4-2
product certifications	CSA UL CCC C-Tick
IP degree of protection	IP20
pollution degree	2 conforming to EN/IEC 60947-4-2
vibration resistance	1.5 mm peak to peak (f = 3...13 Hz) conforming to EN/IEC 60068-2-6 1 gn (f = 13...150 Hz) conforming to EN/IEC 60068-2-6
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	104...122 °F (40...50 °C) with current derating of 2 % per °C 14...104 °F (-10...40 °C) without derating
ambient air temperature for storage	-13...158 °F (-25...70 °C) conforming to 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	I11
GTIN	00785901824312
Nbr. of units in pkg.	1
Returnability	Y
Country of origin	DE

Contractual warranty

Warranty period	18 months