# ATS01N206QN

soft starter for asynchronous motor, Altistart 01, ATS01, 6A, 380 to 415V, 1.5 to 3kW



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 phase
[Us] rated supply voltage	380415 V - 1010 %
Motor power kW	3 KW, 3 phase 380415 V 1.5 KW, 3 phase 380415 V 2.2 kW, 3 phase 380415 V
IcL 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	4 W at full load and at end of starting 64 W in transient state

#### Complementary

Complementary		
Assembly style	With heat sink	
Function Available	Integrated bypass	
Supply voltage limits	342456 V	
Supply frequency	5060 Hz - 55 %	
Network Frequency	47.563 Hz	
Output voltage	<= power supply voltage	
[Uc] control circuit voltage	Built into the starter	
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	
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 250 V AC cos phi = 0.5 20 ms inductive Relay outputs 2 A 30 V DC cos phi = 0.5 20 ms inductive	
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 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	4.88 in (124 mm)	
Width	1.77 in (45 mm)	
Depth	5.16 in (131 mm)	
Net Weight	0.93 lb(US) (0.42 kg)	
Compatibility code	ATS01N2	
Motor power range AC-3	1.12 KW 380440 V 3 phase 2.23 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 conducted interference caused by radio-electrical fields level 3 IEC 61000-4-6	
	Immunity to electrical transients level 4 IEC 61000-4-4	
	Immunity to radiated radio-electrical interference level 3 IEC 61000-4-3	
	Micro-cuts and voltage fluctuation IEC 61000-4-11	
	Voltage/current impulse level 3 IEC 61000-4-5	
Standards	EN/IEC 60947-4-2	
Product Certifications	UL[RETURN]B44.1-96/ASME A17.5 for starter wired to the motor delta terminal[RETURN]CSA[RETURN]GOST[RETURN]C-tick[RETURN]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)	
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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	3389110667202	
Returnability	No	
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 (5.500 cm)
Package 1 Width	5.98 in (15.200 cm)
Package 1 Length	6.89 in (17.500 cm)
Package 1 Weight	18.87 oz (535.000 g)
Unit Type of Package 2	S03
Number of Units in Package 2	14
Package 2 Height	11.81 in (30.000 cm)
Package 2 Width	11.81 in (30.000 cm)
Package 2 Length	15.75 in (40.000 cm)
Package 2 Weight	17.50 lb(US) (7.936 kg)
Unit Type of Package 3	P06
Number of Units in Package 3	112
Package 3 Height	29.53 in (75.000 cm)
Package 3 Width	23.62 in (60.000 cm)
Package 3 Length	31.50 in (80.000 cm)
Package 3 Weight	163.42 lb(US) (74.124 kg)

## Offer Sustainability

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 Declaration	
Yes	
Pro-active compliance (Product out of EU RoHS legal scope) EV RoHS Declaration	
Yes	
Yes	
☑ China RoHS Declaration	
₫Yes	
The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.	

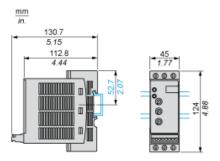
#### Contractual warranty

Contractical warranty		
Warranty	18 months	

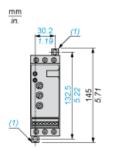
# ATS01N206QN

#### **Dimensions**

## Mounting on Symetrical (35 mm) Rail



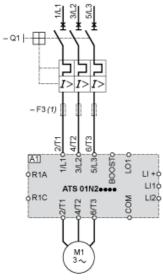
## Screw Fixing



(1) Retractable fixings

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## **Example of Manual Control**



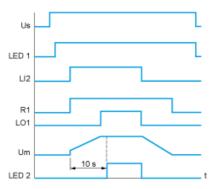
A1: Soft start/soft stop unit (1) For type 2 coordination Q1: Motor circuit-breaker F3: 3 fast-acting fuses

# Product data sheet **Technical Description**

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### **Function Diagram**

#### 2-wire Control with Deceleration



Us: Power supply voltage

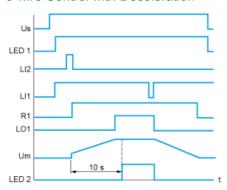
LED Green LED

LI2: Logic input R1: Relay output LO1:Logic output

LED Yellow LED

2:

#### 3-wire Control with Deceleration



Us: Power supply voltage LED Green LED

1:

LI2, Logic inputs

R1: Relay output LO1:Logic output Um: Motor voltage

LED Yellow LED