

soft starter for asynchronous motor - ATS01 - 6 A - 380..415V - 1.5..3 KW

ATS01N206QN

Product availability : Stock - Normally stocked in distribution facility

Price*: 159.60 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 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

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

^{*} Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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
	B44.1-96/ASME A17.5 for starter wired to the motor delta terminal
	CSA
	GOST
	C-tick
	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

15 gn 11 ms EN/IEC 60068-2-27
595 % without condensation or dripping water EN/IEC 60068-2-3
14104 °F (-1040 °C) without derating) 104122 °F (4050 °C) with current derating of 2 % per °C)
-13158 °F (-2570 °C) EN/IEC 60947-4-2
<= 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	3389110667202
Returnability	No
Country of origin	DE

Packing Units

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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

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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
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
Contractual warranty	
Warranty	18 months

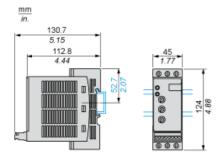
Product data sheet

ATS01N206QN

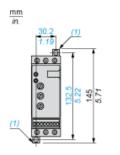
Dimensions Drawings

Dimensions

Mounting on Symetrical (35 mm) Rail



Screw Fixing



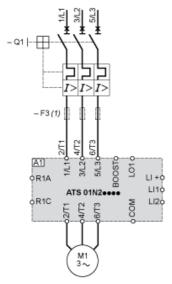
(1) Retractable fixings

Product data sheet

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Connections and Schema

Example of Manual Control



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

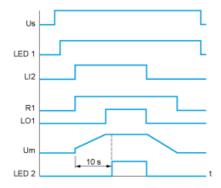
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Technical Description

Function Diagram

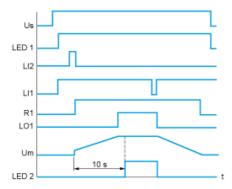
2-wire Control with Deceleration



Us: Power supply voltage LED 1: Green LED

LED 1: Green LED
LI2: Logic input
R1: Relay output
LO1: Logic output
LED 2: Yellow LED

3-wire Control with Deceleration



Us: Power supply voltage

LED 1: Green LED
LI2, LI1: Logic inputs
R1: Relay output
LO1: Logic output
Um: Motor voltage
LED 2: Yellow LED

Recommended replacement(s)