

# ATS01N206QN

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



## Main

Range of product	Altistart 01
Product or component type	Soft starter
Product destination	Asynchronous motors
Product specific application	Simple machine
Component name	ATS01
Network number of phases	3 phases
[Us] rated supply voltage	380...415 V (- 10...10 %)
Motor power kW	3 kW at 380...415 V 3 phases 1.5 kW at 380...415 V 3 phases 2.2 kW at 380...415 V 3 phases
IcL starter rating	6 A
Utilisation category	AC-53B conforming to 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	342...456 V
Supply frequency	50...60 Hz (- 5...5 %)
Network frequency limits	47.5...63 Hz
Output voltage	<= power supply voltage
Control circuit voltage	Built into the starter
Starting time	1 s/100 start(s) per hour 10 s/10 start(s) per hour 5 s/20 start(s) per hour Adjustable from 1 to 10 s
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
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 250 V AC inductive load, cos phi = 0.5 L/R = 20 ms Relay outputs 2 A 30 V DC inductive load, cos phi = 0.5 L/R = 20 ms
Display type	1 LED (green) for starter powered up 1 LED (yellow) for nominal voltage reached
Tightening torque	0.5 N.m 1.9...2.5 N.m
Electrical connection	1 conductor(s) rigid cable, connection via 4 mm screw clamp terminal 1...10 mm <sup>2</sup> /AWG 8 for power circuit 1 conductor(s) rigid cable, connection via screw connector 0.5...2.5 mm <sup>2</sup> /AWG 14 for control circuit 2 conductor(s) rigid cable, connection via 4 mm screw clamp terminal 1...6 mm <sup>2</sup> /AWG 10 for power circuit

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2 conductor(s) rigid cable, connection via screw connector 0.5...1 mm<sup>2</sup>/AWG 17 for control circuit  
 1 conductor(s) flexible cablewith cable end, connection via screw connector 0.5...1.5 mm<sup>2</sup>/AWG 16 for control circuit  
 1 conductor(s) flexible cablewithout cable end, connection via 4 mm screw clamp terminal 1.5...10 mm<sup>2</sup>/AWG 8 for power circuit  
 1 conductor(s) flexible cablewithout cable end, connection via screw connector 0.5...2.5 mm<sup>2</sup>/AWG 14 for control circuit  
 2 conductor(s) flexible cablewith cable end, connection via 4 mm screw clamp terminal 1...6 mm<sup>2</sup>/AWG 10 for power circuit  
 2 conductor(s) flexible cablewithout cable end, connection via 4 mm screw clamp terminal 1.5...6 mm<sup>2</sup>/AWG 10 for power circuit  
 2 conductor(s) flexible cablewithout cable end, connection via screw connector 0.5...1.5 mm<sup>2</sup>/AWG 16 for control circuit

Marking	CE
Operating position	Vertical +/- 10 degree
Height	124 mm
Width	45 mm
Depth	131 mm
Product weight	0.42 kg

## Environment

Electromagnetic compatibility	<p>Conducted and radiated emissions conforming to CISPR 11 level B          Conducted and radiated emissions conforming to IEC 60947-4-2 level B          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 50082-1          EMC immunity conforming to EN 50082-2          Harmonics conforming to IEC 1000-3-2          Harmonics conforming to IEC 1000-3-4          Immunity to conducted interference caused by radio-electrical fields conforming to IEC 61000-4-6 level 3          Immunity to electrical transients conforming to IEC 61000-4-4 level 4          Immunity to radiated radio-electrical interference conforming to IEC 61000-4-3 level 3          Micro-cuts and voltage fluctuation conforming to IEC 61000-4-11          Voltage/current impulse conforming to IEC 61000-4-5 level 3</p>
Standards	EN/IEC 60947-4-2
Product certifications	<p>B44.1-96/ASME A17.5 for starter wired to the motor delta terminal          CCC          CSA          C-Tick          GOST          UL</p>
IP degree of protection	IP20
Pollution degree	2 conforming to EN/IEC 60947-4-2
Vibration resistance	<p>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</p>
Shock resistance	15 gn for 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	<p>-10...40 °C without derating          40...50 °C with current derating of 2 % per °C</p>
Ambient air temperature for storage	-25...70 °C conforming to EN/IEC 60947-4-2
Operating altitude	<p>&lt;= 1000 m without derating          &gt; 1000 m with current derating of 2.2 % per additional 100 m</p>