Product datasheet Characteristics

ATS01N206QN

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



Main

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Range of product	Altistart 01	
Product or component type	Soft starter	
Product destination	Asynchronous motors	
Product specific application	Simple machine	
Device short name	ATS01	
Network number of phases	3 phases	
[Us] rated supply voltage	380415 V (- 1010 %)	
Motor power kW	3 kW at 380415 V 3 phases 2.2 kW at 380415 V 3 phases	
	1.5 kW at 380415 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	64 W in transient state 4 W at full load and at end of starting	
Ormaliantentent		
Complementary	With heat sink	
Assembly style		
Function available	Integrated bypass	
Supply voltage limits	342456 V	
Supply frequency	5060 Hz (- 55 %)	
Network frequency	47.563 Hz	
Output voltage	<= power supply voltage	
Control circuit voltage	Built into the starter	
Starting time	Adjustable from 1 to 10 s 10 s / 10 start(s) per hour 1 s / 100 start(s) per hour	
0+20-2040	5 s / 20 start(s) per hour	

Complementary

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Assembly style	With heat sink	-
Function available	Integrated bypass	
Supply voltage limits	342456 V	
Supply frequency	5060 Hz (- 55 %)	
Network frequency	47.563 Hz	2
Output voltage	<= power supply voltage	
Control circuit voltage	Built into the starter	
Starting time	Adjustable from 1 to 10 s 10 s / 10 start(s) per hour 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	3080 % 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	2440 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	(R1A, R1C) relay outputs NO (LO1) open collector logic end of starting signal	
Discrete output voltage	24 V (630 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 (yellow) for nominal voltage reached 1 LED (green) for starter powered up	
Tightening torque	0.5 N.m 1.92.5 N.m	
Electrical connection	 1 conductor(s) flexible cable without cable end, connection via 4 mm screw clamp terminal 1.510 mm² / AWG 8 for power circuit 2 conductor(s) flexible cable with cable end, connection via 4 mm screw clamp terminal 16 mm² / AWG 10 for power circuit 1 conductor(s) rigid cable, connection via screw connector 0.52.5 mm² / AWG 14 for control circuit 2 conductor(s) rigid cable, connection via screw connector 0.51 mm² / AWG 17 for control circuit 2 conductor(s) rigid cable, connection via screw connector 0.51 mm² / AWG 10 for power circuit 2 conductor(s) rigid cable, connection via 4 mm screw clamp terminal 16 mm² / AWG 10 for power circuit 1 conductor(s) flexible cable with cable end, connection via screw connector 0.51.5 mm² / AWG 16 for control circuit 1 conductor(s) rigid cable, connection via 4 mm screw clamp terminal 110 mm² / AWG 8 for power circuit 1 conductor(s) rigid cable, connection via 4 mm screw clamp terminal 110 mm² / AWG 8 for power circuit 2 conductor(s) flexible cable without cable end, connection via 4 mm screw clamp terminal 1.56 mm² / AWG 10 for power circuit 2 conductor(s) flexible cable without cable end, connection via screw connector 0.51.5 mm² / AWG 16 for control circuit 2 conductor(s) flexible cable without cable end, connection via screw connector 0.51.5 mm² / AWG 16 for control circuit 2 conductor(s) flexible cable without cable end, connection via screw connector 0.51.5 mm² / AWG 16 for control circuit 1 conductor(s) flexible cable without cable end, connection via screw connector 0.51.5 mm² / AWG 16 for control circuit 1 conductor(s) flexible cable without cable end, connection via screw connector 0.52.5 mm² / AWG 16 for control circuit 1 conductor(s) flexible cable without cable end, connection via screw connector 0.52.5 mm² / 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	
	ATS01N2	

Environment

Electromagnetic compatibility	Electrostatic discharge conforming to IEC 61000-4-2 level 3			
Liceromagnetic company	Harmonics conforming to IEC 1000-3-2 Harmonics conforming to IEC 1000-3-4 EMC immunity conforming to EN 50082-2 Damped oscillating waves conforming to IEC 61000-4-12 level 3			
				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 CISPR 11 level B
	Immunity to conducted interference caused by radio-electrical fields conforming to IEC 61000-4-6 level 3			
	Micro-cuts and voltage fluctuation conforming to IEC 61000-4-11			
	Conducted and radiated emissions conforming to IEC 60947-4-2 level B			
	Immunity to radiated radio-electrical interference conforming to IEC 61000-4-3 level 3 EMC immunity conforming to EN 50082-1			
Standards	EN/IEC 60947-4-2			
Product certifications	B44.1-96/ASME A17.5 for starter wired to the motor delta terminal CCC CSA C-Tick UL GOST			



IP degree of protection	IP20	
Pollution degree	2 conforming to EN/IEC 60947-4-2	
Vibration resistance	1.5 mm peak to peak (f = 313 Hz) conforming to EN/IEC 60068-2-6 1 gn (f = 13150 Hz) conforming to EN/IEC 60068-2-6	
Shock resistance	15 gn for 11 ms conforming to EN/IEC 60068-2-27	
Relative humidity	595 % without condensation or dripping water conforming to EN/IEC 60068-2-3	
Ambient air temperature for operation	4050 °C with current derating of 2 % per °C -1040 °C without derating	
Ambient air temperature for storage	-2570 °C conforming to EN/IEC 60947-4-2	
Operating altitude	> 1000 m with current derating of 2.2 % per additional 100 m <= 1000 m without derating	

Contractual warranty

Warranty period

18 months

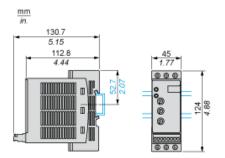


Product datasheet **Dimensions Drawings**

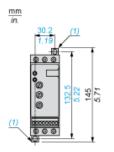
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Dimensions

Mounting on Symetrical (35 mm) Rail



Screw Fixing



(1) Retractable fixings



Product datasheet

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Connections and Schema

Example of Manual Control

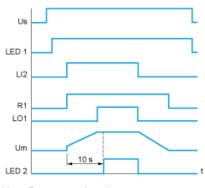
- A1: Soft start/soft stop unit
- (1) For type 2 coordination
 Q1 : Motor circuit-breaker
 F3 : 3 fast-acting fuses



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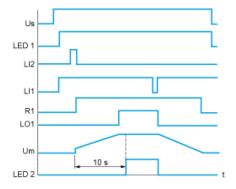
Function Diagram





Us : Power supply voltage LED 1Green LED LI2 : Logic input R1 : Relay output LO1 :Logic output LED 2/ ellow LED

3-wire Control with Deceleration



Us : Power supply voltage LED 1Green LED LI2, LL0gic inputs R1 : Relay output LO1 :Logic output Um : Motor voltage LED 2/zellow LED

