Product datasheet Characteristics

ATS01N212QN

soft starter for asynchronous motor - ATS01 - 12 A - 380..415V - 5.5 KW



Main

BB conforming to EN/IEC 60947-4-2 at nominal load with voltage ramp t full load and at end of starting V in transient state
at nominal load with voltage ramp t full load and at end of starting
at nominal load
3B conforming to EN/IEC 60947-4-2
V at 380415 V 3 phases
415 V (- 1010 %)
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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	
Control circuit voltage	Built into the starter	
Starting time	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	(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 (green) for starter powered up 1 LED (yellow) for nominal voltage reached
Tightening torque	1.92.5 N.m 0.5 N.m
Electrical connection	 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 0.52.5 mm² / AWG 14 for control circuit 1 conductor(s) flexible cable with cable end, connection via screw connector 0.51.5 mm² / AWG 16 for control circuit 2 conductor(s) rigid cable, connection via 4 mm screw clamp terminal 16 mm² / AWG 10 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, connector 0.52.5 mm² / AWG 14 for control circuit 2 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 0.52.5 mm² / AWG 14 for control 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 4 mm screw clamp terminal 16 mm² / AWG 10 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) rigid cable, connection via screw connector 0.51 mm² / AWG 17 for control circuit 1 conductor(s) flexible cable without cable end, connection via 4 mm screw clamp terminal 1.510 mm² / AWG 8 for power circuit
Marking	CE
Operating position	Vertical +/- 10 degree
Height	124 mm
Width	45 mm
Depth	131 mm
Product weight	0.42 kg

Environment

Compatibility code

Electromagnetic compatibility	Immunity to electrical transients conforming to IEC 61000-4-4 level 4	
	Immunity to conducted interference caused by radio-electrical fields conforming to IEC 61000-4-6 level 3	
	Harmonics conforming to IEC 1000-3-2	
	Damped oscillating waves conforming to IEC 61000-4-12 level 3	
	Harmonics conforming to IEC 1000-3-4	
	EMC immunity conforming to EN 50082-2	
	EMC immunity conforming to EN 50082-1	
	Immunity to radiated radio-electrical interference conforming to IEC 61000-4-3 level 3	
	Voltage/Current impulse conforming to IEC 61000-4-5 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 Conducted and radiated emissions conforming to CISPR 11 level B	
	Electrostatic discharge conforming to IEC 61000-4-2 level 3	
Standards	EN/IEC 60947-4-2	
Product certifications	GOST	
	UL	
	B44.1-96/ASME A17.5 for starter wired to the motor delta terminal	
	CCC	
	C-Tick	
	CSA	
IP degree of protection	IP20	
Pollution degree	2 conforming to EN/IEC 60947-4-2	
Vibration resistance	1 gn (f = 13150 Hz) conforming to EN/IEC 60068-2-6	



ATS01N2

1.5 mm peak to peak (f = 313 Hz) conforming to EN/IEC 60068-2-6
15 gn for 11 ms conforming to EN/IEC 60068-2-27
595 % without condensation or dripping water conforming to EN/IEC 60068-2-3
-1040 °C without derating 4050 °C with current derating of 2 % per °C
-2570 °C conforming to EN/IEC 60947-4-2
<= 1000 m without derating > 1000 m with current derating of 2.2 % per additional 100 m

Contractual warranty

Warranty period

18 months

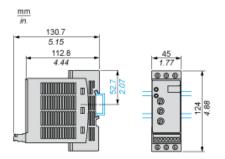


Product datasheet **Dimensions Drawings**

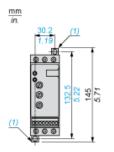
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Dimensions

Mounting on Symetrical (35 mm) Rail



Screw Fixing



(1) Retractable fixings

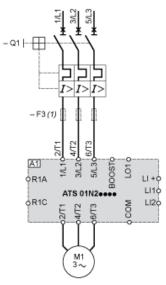


Product datasheet

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Connections and Schema

Example of Manual Control



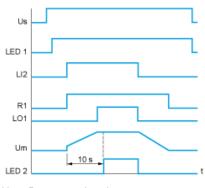
- A1: Soft start/soft stop unit
- (1) For type 2 coordination Q1 : Motor circuit-breaker
- F3: 3 fast-acting fuses

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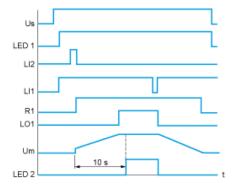
Function Diagram





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, LLogic inputs R1 : Relay output LO1 :Logic output Um : Motor voltage LED 2/zellow LED

