Product datasheet Characteristics

ATS01N209QN

soft starter for asynchronous motor - ATS01 - 9 A - 380..415 V - 4 KW



Main

Mairi				
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	4 kW at 380415 V 3 phases			
IcL starter rating	9 A			
Utilisation category	AC-53B conforming to EN/IEC 60947-4-2			
Current consumption	45 A at nominal load			
Type of start	Start with voltage ramp			
Power dissipation in W	94 W in transient state 4 W at full load and at end of starting			
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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	5 s / 20 start(s) per hour 1 s / 100 start(s) per hour Adjustable from 1 to 10 s 10 s / 10 start(s) per hour	This documentalists
Deceleration time symb	Adjustable from 1 to 10 s	

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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	3 A AC-15 2 A DC-13		
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	LED (green) for starter powered up LED (yellow) for nominal voltage reached		
Tightening torque	1.92.5 N.m 0.5 N.m		
Electrical connection	2 conductor(s) rigid cable, connection via 4 mm screw clamp terminal 16 mm² / AWG 10 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) flexible cable without cable end, 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 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 1 conductor(s) rigid cable, connection via screw connector 0.52.5 mm² / AWG 14 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 1 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		
Marking	CE		
Operating position	Vertical +/- 10 degree		
Height	124 mm		
Width	45 mm		
Depth	131 mm		
Product weight	0.42 kg		
Compatibility code	ATS01N2		

Environment Flectromagnetic

Immunity to radiated radio-electrical interference conforming to IEC 61000-4-3 level 3
EMC immunity conforming to EN 50082-1
Harmonics conforming to IEC 1000-3-4
Conducted and radiated emissions conforming to CISPR 11 level B
Damped oscillating waves conforming to IEC 61000-4-12 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
Electrostatic discharge conforming to IEC 61000-4-2 level 3
EMC immunity conforming to EN 50082-2
Harmonics conforming to IEC 1000-3-2
Voltage/Current impulse conforming to IEC 61000-4-5 level 3
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
EN/IEC 60947-4-2
C-Tick
CSA
GOST
CCC
B44.1-96/ASME A17.5 for starter wired to the motor delta terminal
UL
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	-1040 °C without derating 4050 °C with current derating of 2 % per °C	
Ambient air temperature for storage	e -2570 °C conforming to EN/IEC 60947-4-2	
Operating altitude	<= 1000 m without derating > 1000 m with current derating of 2.2 % per additional 100 m	

Contractual warranty

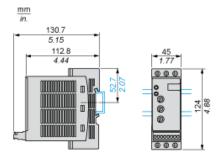
Warranty period	18 months	

Product datasheet Dimensions Drawings

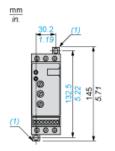
ATS01N209QN

Dimensions

Mounting on Symetrical (35 mm) Rail



Screw Fixing

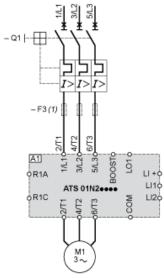


(1) Retractable fixings

Product datasheet Connections and Schema

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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 datasheet Technical Description

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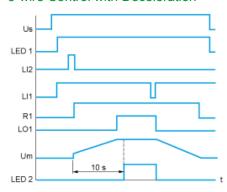
Function Diagram

2-wire Control with Deceleration

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, Ltogic inputs R1: Relay output LO1:Logic output Um: Motor voltage LED 2/ellow LED