Product datasheet Characteristics

ATS01N232QN

soft starter for asynchronous motor - ATS01 - 32 A - 380..415V - 15 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	15 kW at 380415 V 3 phases
IcL starter rating	32 A
Utilisation category	AC-53B conforming to EN/IEC 60947-4-2
Current consumption	160 A at nominal load
Type of start	Start with voltage ramp
Power dissipation in W	324.5 W in transient state 4.5 W at full load and at end of starting
The state of the s	

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	.5
Control circuit voltage	Built into the starter	
Starting time	Adjustable from 1 to 10 s 5 s / 10 start(s) per hour 10 s / 5 start(s) per hour 1 s / 50 start(s) per hour	This decreased
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	(LO1) open collector logic end of starting signal (R1A, R1C) relay outputs NO	
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 30 V DC inductive load, cos phi = 0.5 L/R = 20 ms Relay outputs 2 A 250 V AC 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	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) 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) flexible cable with cable end, connection via 4 mm screw clamp terminal 16 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 without cable end, connection via screw connector 0.52.5 mm² / AWG 14 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 with 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 4 mm screw clamp terminal 1.510 mm² / AWG 8 for power circuit 2 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	154 mm	
Width	45 mm	
Depth	131 mm	
Product weight	0.56 kg	
Compatibility code	ATS01N2	

Environment

Immunity to electrical transients conforming to IEC 61000-4-4 level 4 EMC immunity conforming to EN 50082-1 EMC immunity conforming to EN 50082-2 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 CISPR 11 level B 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 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 Electrostatic discharge conforming to IEC 61000-4-2 level 3 Harmonics conforming to IEC 1000-3-2 Harmonics conforming to IEC 1000-3-4	
EN/IEC 60947-4-2	
uct certifications CCC CSA B44.1-96/ASME A17.5 for starter wired to the motor delta terminal GOST C-Tick	



	UL	
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 without derating > 1000 m with current derating of 2.2 % per additional 100 m	

Contractual warranty

Warranty period	18 months

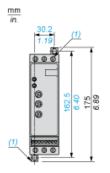
Product datasheet Dimensions Drawings

ATS01N232QN

Dimensions

Mounting on Symetrical (35 mm) Rail

Screw Fixing

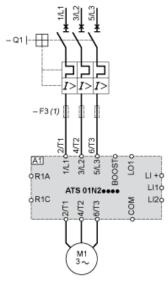


(1) Retractable fixings

Product datasheet Connections and Schema

ATS01N232QN

Example of Manual Control



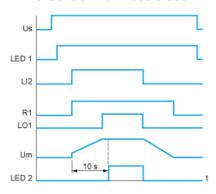
A1: Soft start/soft stop unit
(1) For type 2 coordination
Q1: Motor circuit-breaker
F3: 3 fast-acting fuses

Product datasheet Technical Description

ATS01N232QN

Function Diagram

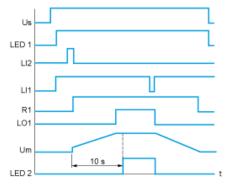
2-wire Control with Deceleration



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, L1ogic inputs
R1: Relay output
LO1:Logic output
Um: Motor voltage
LED 2/ellow LED