Specifications



# soft starter for asynchronous motor - ATS01 - 32 A - 380..415V - 15 KW

ATS01N232QN

# Main

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, 3 phases at 380415 V
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	4.5 W at full load and at end of starting 324.5 W in transient state

# 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
[Uc] control circuit voltage	Built into the starter
Starting time	Adjustable from 1 to 10 s 1 s / 50 10 s / 5 5 s / 10
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	Logic (LI1, LI2, BOOST) stop, run and boost on start-up functions <= 8 mA 27 kOhm
Discrete input voltage	2440 V

Discrete input logic	Positive LI1, LI2, BOOST at State 0: < 5 V and <= 0.2 mA at State 1: > 13 V, >= 0.5 mA
Discrete output current	2 A DC-13 3 A AC-15
Discrete output type	Open collector logic LO1 end of starting signal Relay outputs R1A, R1C NO
Discrete output voltage	24 V (voltage limits: 630 V) open collector logic
Minimum switching current	10 mA at 6 V DC for relay outputs
Maximum switching current	Relay outputs: 2 A at 250 V AC cos phi = 0.5 and L/R = 20 ms inductive load Relay outputs: 2 A at 30 V DC cos phi = 0.5 and L/R = 20 ms inductive load
Display type	LED (green) for starter powered up     LED (yellow) for nominal voltage reached
Tightening torque	0.5 N.m 1.92.5 N.m
Electrical connection	4 mm screw clamp terminal - rigid 1 110 mm² AWG 8 power circuit  Screw connector - rigid 1 0.52.5 mm² AWG 14 control circuit  4 mm screw clamp terminal - rigid 2 16 mm² AWG 10 power circuit  Screw connector - rigid 2 0.51 mm² AWG 17 control circuit  Screw connector - flexible with cable end 1 0.51.5 mm² AWG 16 control circuit  4 mm screw clamp terminal - flexible without cable end 1 1.510 mm² AWG 8 power circuit  Screw connector - flexible without cable end 1 0.52.5 mm² AWG 14 control circuit  4 mm screw clamp terminal - flexible with cable end 2 16 mm² AWG 10 power circuit  4 mm screw clamp terminal - flexible without cable end 2 1.56 mm² AWG 10 power circuit  Screw connector - flexible without cable end 2 0.51.5 mm² AWG 16 control circuit  4 mm screw clamp terminal - flexible with cable end 1 16 mm² AWG 10 power circuit
Marking	CE
Operating position	Vertical +/- 10 degree
Height	154 mm
Width	45 mm
Depth	131 mm
Net weight	0.56 kg
Compatibility code	ATS01N2
Motor power range AC-3	1525 kW at 380440 V 3 phases
Motor starter type	Soft starter
Environment	
Electromagnetic compatibility	Conducted and radiated emissions level B conforming to CISPR 11 Conducted and radiated emissions level B conforming to IEC 60947-4-2 Damped oscillating waves level 3 conforming to IEC 61000-4-12 Electrostatic discharge level 3 conforming to IEC 61000-4-2 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 level 3 conforming to IEC 61000-4-6

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Standards	EN/IEC 60947-4-2
Product certifications	C-Tick CSA CCC GOST UL B44.1-96/ASME A17.5 for starter wired to the motor delta terminal
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 1.5 mm peak to peak (f= 313 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	-10…40 °C (without derating) 40…50 °C (with current derating of 2 % per °C)
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
Packing Units	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	15.500 cm
Package 1 Width	17.500 cm
Package 1 Length	5.500 cm
Package 1 Weight	678.000 g
Unit Type of Package 2	S03
Number of Units in Package 2	14
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	10.058 kg
Unit Type of Package 3	P06
Number of Units in Package 3	112
Package 3 Height	75.000 cm
Package 3 Width	60.000 cm
Package 3 Length	80.000 cm
Package 3 Weight	90.140 kg
Offer Sustainability	
REACh Regulation	REACh Declaration
REACh free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
China RoHS Regulation	China RoHS declaration
RoHS exemption information	Yes
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Contractual warranty	
Warranty	18 months

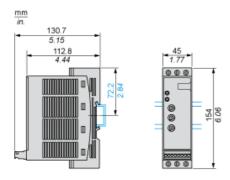
Warranty	18 months
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# **ATS01N232QN**

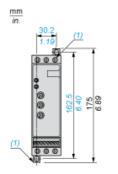
**Dimensions Drawings** 

#### **Dimensions**

# Mounting on Symetrical (35 mm) Rail



### **Screw Fixing**

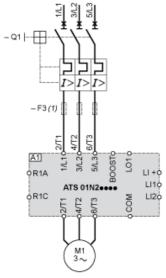


(1) Retractable fixings

# **ATS01N232QN**

Connections and Schema

#### **Example of Manual Control**



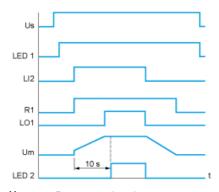
A1: Soft start/soft stop unit
(1) For type 2 coordination
Q1: Motor circuit-breaker
F3: 3 fast-acting fuses

# ATS01N232QN

**Technical Description** 

#### **Function Diagram**

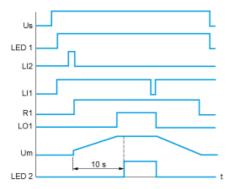
#### 2-wire Control with Deceleration



Us: Power supply voltage LED 1: Green LED

LED 1: Green LED
LI2: Logic input
R1: Relay output
LO1: Logic output
LED 2: Yellow LED

#### 3-wire Control with Deceleration



**Us:** Power supply voltage

LED 1: Green LED
LI2, LI1: Logic inputs
R1: Relay output
LO1: Logic output
Um: Motor voltage
LED 2: Yellow LED

# Recommended replacement(s)