ATS01N222QN

soft starter for asynchronous motor - ATS01 - 22 A - 380..415V - 7.5..11 KW



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	11 KW, 3 phases at 380415 V 7.5 kW, 3 phases at 380415 V
IcL starter rating	22 A
Utilisation category	AC-53B conforming to EN/IEC 60947-4-2
Current consumption	110 A at nominal load
Type of start	Start with voltage ramp
Power dissipation in W	124.5 W in transient state 4.5 W at full load and at end of starting

Complementary

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	1 s / 100 5 s / 20 10 s / 10 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	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 kV 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 mm ² AWG 10 power circuit	
	Screw connector - rigid 2 0.51 mm ² 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 mm ² 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
	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	711 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 Immunity to electrical transients level 4 conforming to IEC 61000-4-4 Immunity to radiated radio-electrical interference level 3 conforming to IEC 61000-4-3 Micro-cuts and voltage fluctuation conforming to IEC 61000-4-5
Standards	EN/IEC 60947-4-2
Product certifications	CSA UL CCC B44.1-96/ASME A17.5 for starter wired to the motor delta terminal C-Tick GOST
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	-1040 °C (without derating) 4050 °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

PCE	
1	
5.7 cm	
15.1 cm	
17.2 cm	
	1 5.7 cm 15.1 cm

Package 1 Weight	672 g
Unit Type of Package 2	S03
Number of Units in Package 2	14
Package 2 Height	30 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	9.952 kg
Unit Type of Package 3	P06
Number of Units in Package 3	112
Package 3 Height	77 cm
Package 3 Width	80 cm
Package 3 Length	60 cm
Package 3 Weight	88.34 kg

Offer Sustainability

EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS
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

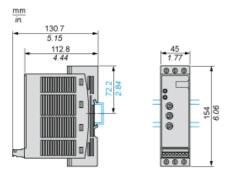
Contractual warranty

Contraction Warranty		
Warranty	18 months	

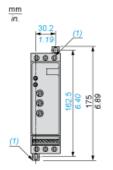
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Dimensions

Mounting on Symetrical (35 mm) Rail



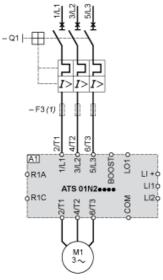
Screw Fixing



(1) Retractable fixings

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Example of Manual Control



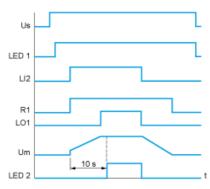
A1: Soft start/soft stop unit (1) For type 2 coordination Q1: Motor circuit-breaker F3: 3 fast-acting fuses

Product data sheet **Technical Description**

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Function Diagram

2-wire Control with Deceleration



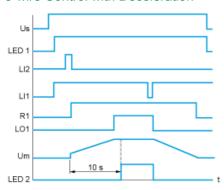
Us: Power supply voltage

LED Green LED

LI2: Logic input R1: Relay output LO1:Logic output LED Yellow LED

2:

3-wire Control with Deceleration



Us: Power supply voltage LED Green LED

1:

LI2, Logic inputs

R1: Relay output LO1:Logic output Um: Motor voltage

LED Yellow LED