

Product datasheet

Specifications



soft starter for asynchronous motor,
Altistart 01, ATS01, 72A, 400V,
37kW

ATS01N272Q

❗ Discontinued on: 05 March 2021

❗ End-of-service on: 30 June 2022

❗ Discontinued

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	400 V - 15...10 %
Motor power kW	37 kW, 3 phases at 400 V
Motor power hp	40 hp, 3 phases at 400 V
IcL starter rating	72 A
Utilisation category	AC-53B conforming to EN/IEC 60947-4-2
Current consumption	216 A at nominal load
Type of start	Start with voltage ramp
Power dissipation in W	23 W at full load and at end of starting 436 W in transient state

Complementary

Assembly style	With heat sink
Function available	Integrated bypass
Supply voltage limits	340...440 V
Supply frequency	50...60 Hz - 5...5 %
Network frequency	47.5...63 Hz
Output voltage	<= power supply voltage
[Uc] control circuit voltage	Built into the starter
Starting time	1 s / 360 12 s / 30 Adjustable from 1 to 25 s
Deceleration time symb	Adjustable from 1 to 25 s
Starting torque	30...80 % of starting torque of motor connected directly on the line supply
Discrete input type	Internal (LI1, LI2, BOOST) stop, run and boost on start-up functions <= 8 mA

Discrete input voltage	24 V
Discrete input logic	Positive logic LI1, LI2, BOOST at State 0: <= 3 V at State 1: >= 10 V
Discrete output current	2 A DC-13 3 A AC-15
Discrete output type	Relay outputs R1A, R1C
Discrete output voltage	24 V DCrelay outputs 250 V ACrelay outputs
Minimum switching current	10 mA at 17 V DC for relay outputs
Display type	1 LED (green) for starter powered up 1 LED (yellow) for nominal voltage reached
Tightening torque	0.7 N.m 5 N.m
Electrical connection	Earth connection: tinned connector fixed using Ø 6 mm screws 4 mm screw clamp terminal - rigid 1 6...35 mm² power circuit Screw connector - rigid 1 0.75...1.5 mm² control circuit 4 mm screw clamp terminal - rigid 2 6...25 mm² power circuit Screw connector - rigid 2 0.75...1.5 mm² control circuit 4 mm screw clamp terminal - flexible with cable end 1 4...25 mm² power circuit Screw connector - flexible with cable end 1 0.75...1.5 mm² control circuit 4 mm screw clamp terminal - flexible without cable end 1 6...25 mm² power circuit Screw connector - flexible without cable end 1 0.75...1.5 mm² control circuit 4 mm screw clamp terminal - flexible with cable end 2 4...16 mm² power circuit Screw connector - flexible with cable end 2 0.75...1.5 mm² control circuit 4 mm screw clamp terminal - flexible without cable end 2 6...25 mm² power circuit Screw connector - flexible without cable end 2 0.75...1.5 mm² control circuit
Marking	CE
Operating position	Vertical +/- 10 degree
Height	146 mm
Width	180 mm
Depth	126 mm
Net weight	3.8 kg
Compatibility code	ATS01N2

Environment

Electromagnetic compatibility	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 61000-4-11 Voltage/current impulse level 3 conforming to IEC 61000-4-5
Standards	EN/IEC 60947-4-2
Product certifications	B44.1-96/ASME A17.5 for starter wired to the motor delta terminal GOST CSA CCC C-Tick UL
IP degree of protection	On front panel: IP20
Pollution degree	3 conforming to IEC 60664-1 3 conforming to UL 508
Vibration resistance	2 gn
Shock resistance	8 gn for 11 ms conforming to EN/IEC 60068-2-27
Relative humidity	5...95 % without condensation or dripping water conforming to EN/IEC 60068-2-3
Ambient air temperature for operation	0...55 °C

Ambient air temperature for storage	-25...70 °C conforming to EN/IEC 60947-4-2
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Operating altitude	<= 2000 m without derating > 2000 m with current derating of 0.5 % per additional 100 m
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Packing Units

Unit Type of Package 1	PCE
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Number of Units in Package 1	1
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Contractual warranty

Warranty	18 months
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Recommended replacement(s)

ATS01N272Q is replaced by:

1x



soft starter for asynchronous motor, Altistart 22, control 230V, 230 to 440V, 18.5 to 37kW
ATS22D75Q