## Product data sheet Characteristics

## ATS01N272Q

soft starter for asynchronous motor - ATS01 - 72 A - 400 V - 37 KW



Main	
Range of product	Altistart 01
Product or component type	Soft starter
Product destination	Asynchronous motors
Product specific application	Simple machine
Component name	ATS01
Network number of phases	3 phases
Power supply voltage	400 V (- 1510 %)
Motor power kW	37 kW at 400 V 3 phases
Motor power hp	40 hp at 400 V 3 phases
Icl nominal current	72 A
Utilisation category	AC-53B conforming to EN/IEC 60947-4-2
Current at nominal load	216 A at nominal load
Type of start	Start with voltage ramp
Power dissipation in W	436 W in transient state 23 W at full load and at end of starting

## Complementary

Assembly style	With heat sink
Function available	Integrated bypass
Power supply voltage limits	340440 V
Power supply frequency	5060 Hz (- 55 %)
Power supply frequency limits	47.563 Hz
Output voltage	<= power supply voltage
Control circuit voltage	Built into the starter
Starting time	Adjustable from 1 to 25 s 12 s / 30 start(s) per hour 1 s / 360 start(s) per hour
Deceleration time symb	Adjustable from 1 to 25 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 internal <= 8 mA
Discrete input voltage	24 V
Discrete input logic	(LI1, LI2, BOOST) positive logic state 0 <= 3 V, state 1 >= 10 V
Discrete output current	3 A AC-15 2 A DC-13
Discrete output type	(R1A, R1C) relay outputs
Discrete output voltage	250 V AC relay outputs 24 V DC relay outputs
Minimum switching current	Relay outputs 10 mA 17 V DC
Display type	LED (yellow) for nominal voltage reached     LED (green) for starter powered up
Tightening torque	0.7 N.m 5 N.m

2 conductor(s) flexible cable without cable end, connection via 4 mm screw of terminal 625 mm² for power circuit 2 conductor(s) flexible cable with cable end, connection via screw connector 0.751.5 mm² for control circuit 2 conductor(s) flexible cable with cable end, connection via 4 mm screw clam terminal 416 mm² for power circuit 1 conductor(s) flexible cable without cable end, connection via screw connect 0.751.5 mm² for control circuit 1 conductor(s) flexible cable without cable end, connection via 4 mm screw of terminal 625 mm² for power circuit 1 conductor(s) flexible cable with cable end, connection via screw connector 0.751.5 mm² for control circuit 1 conductor(s) flexible cable with cable end, connection via screw connector 0.751.5 mm² for control circuit 1 conductor(s) flexible cable with cable end, connection via 4 mm screw clam terminal 425 mm² for power circuit 2 conductor(s) flexible cable with cable end, connection via 4 mm screw clam terminal 425 mm² for power circuit 2 conductor(s) rigid cable, connection via screw connector 0.751.5 mm² for control circuit 1 conductor(s) rigid cable, connection via 4 mm screw clamp terminal 625 m for power circuit 1 conductor(s) rigid cable, connection via 4 mm screw clamp terminal 635 m for power circuit 1 conductor(s) rigid cable, connection via 4 mm screw clamp terminal 635 m for power circuit 2 conductor(s) rigid cable, connection via 4 mm screw clamp terminal 635 m for power circuit 3 conductor(s) rigid cable, connection via 4 mm screw clamp terminal 635 m for power circuit 4 conductor(s) rigid cable, connection via 4 mm screw clamp terminal 635 m for power circuit 5 conductor(s) rigid cable, connection via 4 mm screw clamp terminal 635 m for power circuit 6 conductor(s) rigid cable, connection via 4 mm screw clamp terminal 635 m for power circuit 7 conductor(s) rigid cable, connection via 4 mm screw clamp terminal 635 m for power circuit	Electrical connection	2 conductor(s) flexible cable without cable end, connection via screw connector 0.751.5 mm² for control circuit
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, connection via earth connection: tinned connector fixed using Ø 6 mm screw  Marking  CE  Operating position  Vertical +/- 10 degree  Height  146 mm  Width  180 mm  Depth  126 mm		1 conductor(s) rigid cable, connection via 4 mm screw clamp terminal 635 mm <sup>2</sup> for power circuit
Operating position         Vertical +/- 10 degree           Height         146 mm           Width         180 mm           Depth         126 mm		, connection via earth connection: tinned connector fixed using $\varnothing$ 6 mm screws
Height         146 mm           Width         180 mm           Depth         126 mm	Marking	CE
Width 180 mm  Depth 126 mm	Operating position	Vertical +/- 10 degree
Depth 126 mm	Height	146 mm
TP1	Width	180 mm
Droduct weight 2.9 kg	Depth	126 mm
Froduct weight 3.0 kg	Product weight	3.8 kg

## Environment

Electromagnetic compatibility	Voltage/Current impulse conforming to IEC 61000-4-5 level 3
	Micro-cuts and voltage fluctuation conforming to IEC 61000-4-11
	Immunity to radiated radio-electrical interference conforming to IEC 61000-4-3 level 3
	Immunity to electrical transients conforming to IEC 61000-4-4 level 4
	Immunity to conducted interference caused by radio-electrical fields conforming to IEC 61000-4-6 level 3
	Harmonics conforming to IEC 1000-3-4
	Harmonics conforming to IEC 1000-3-2
	EMC immunity conforming to EN 50082-2
	EMC immunity conforming to EN 50082-1 Electrostatic discharge conforming to IEC 61000-4-2 level 3 Damped oscillating waves conforming to IEC 61000-4-12 level 3
	Conducted and radiated emissions conforming to IEC 60947-4-2 level B
Standards	EN/IEC 60947-4-2
Product certifications	B44.1-96/ASME A17.5 for starter wired to the motor delta terminal
	CCC
	CSA
	C-Tick
	GOST
	UL
IP degree of protection	IP20 on front panel
Pollution degree	3 conforming to UL 508
	3 conforming to IEC 60664-1
Vibration resistance	2 gn
Shock resistance	8 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	055 °C
Ambient air temperature for storage	-2570 °C conforming to EN/IEC 60947-4-2
Operating altitude	> 2000 m with current derating of 0.5 % per additional 100 m <= 2000 m without derating

