



### 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 400 V
Motor power hp	40 hp 3 phases 400 V
IcL starter rating	72 A
Utilisation category	AC-53B 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 <= 3 V >= 10 V

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Discrete output current	2 A DC-13 3 A AC-15
Discrete output type	Relay outputs R1A, R1C
Discrete output voltage	24 V DC relay outputs 250 V AC relay outputs
Minimum switching current	10 mA 17 V DC relay outputs
Display type	1 LED green starter powered up 1 LED yellow 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 mm <sup>2</sup> power circuit Screw connector rigid 1 0.75...1.5 mm <sup>2</sup> control circuit 4 mm screw clamp terminal rigid 2 6...25 mm <sup>2</sup> power circuit Screw connector rigid 2 0.75...1.5 mm <sup>2</sup> control circuit 4 mm screw clamp terminal flexible with cable end 1 4...25 mm <sup>2</sup> power circuit Screw connector flexible with cable end 1 0.75...1.5 mm <sup>2</sup> control circuit 4 mm screw clamp terminal flexible without cable end 1 6...25 mm <sup>2</sup> power circuit Screw connector flexible without cable end 1 0.75...1.5 mm <sup>2</sup> control circuit 4 mm screw clamp terminal flexible with cable end 2 4...16 mm <sup>2</sup> power circuit Screw connector flexible with cable end 2 0.75...1.5 mm <sup>2</sup> control circuit 4 mm screw clamp terminal flexible without cable end 2 6...25 mm <sup>2</sup> power circuit Screw connector flexible without cable end 2 0.75...1.5 mm <sup>2</sup> control circuit
Marking	CE
Operating position	Vertical +/- 10 degree
Height	146 mm
Width	180 mm
Depth	126 mm
Product weight	3.8 kg
Compatibility code	ATS01N2

## Environment

Electromagnetic compatibility	Damped oscillating waves level 3 IEC 61000-4-12 Electrostatic discharge level 3 IEC 61000-4-2 Immunity to electrical transients level 4 IEC 61000-4-4 Immunity to radiated radio-electrical interference level 3 IEC 61000-4-3 Voltage/Current impulse level 3 IEC 61000-4-5 Conducted and radiated emissions level B IEC 60947-4-2 EMC immunity EN 50082-2 Harmonics IEC 1000-3-2 Harmonics IEC 1000-3-4 Immunity to conducted interference caused by radio-electrical fields level 3 IEC 61000-4-6 Micro-cuts and voltage fluctuation IEC 61000-4-11 EMC immunity EN 50082-1
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 IEC 60664-1 3 UL 508
Vibration resistance	2 gn
Shock resistance	8 gn 11 ms EN/IEC 60068-2-27
Relative humidity	5...95 % without condensation or dripping water EN/IEC 60068-2-3
Ambient air temperature for operation	0...55 °C
Ambient air temperature for storage	-25...70 °C EN/IEC 60947-4-2
Operating altitude	<= 2000 m without derating > 2000 m with current derating of 0.5 % per additional 100 m

## Contractual warranty

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Warranty period	18 months
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