



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 (- 15...10 %)
Icl nominal current	85 A
Utilisation category	AC-53B conforming to EN/IEC 60947-4-2
Current at nominal load	255 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 514 W in transient state

Complementary

Assembly style	With heat sink
Function available	Integrated bypass
Power supply voltage limits	340...440 V
Power supply frequency	50...60 Hz (- 5...5 %)
Power supply frequency limits	47.5...63 Hz
Motor power kW	45 kW at 400 V 3 phases
Motor power hp	50 hp at 400 V 3 phases
Output voltage	<= power supply voltage
Control circuit voltage	Built into the starter
Starting time	1 s /360 start(s) per hour 12 s /30 start(s) per hour 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	(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	2 A DC-13 3 A AC-15
Discrete output type	(R1A, R1C) relay outputs
Discrete output voltage	24 V DC relay outputs 250 V AC relay outputs
Minimum switching current	Relay outputs 10 mA 17 V DC
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

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Electrical connection	<p>1 conductor(s) flexible cable without cable end , connection via 4 mm screw clamp terminal 6...25 mm² for power circuit</p> <p>1 conductor(s) flexible cable with cable end , connection via 4 mm screw clamp terminal 4...25 mm² for power circuit</p> <p>1 conductor(s) rigid cable , connection via 4 mm screw clamp terminal 6...35 mm² for power circuit</p> <p>1 conductor(s) flexible cable with cable end , connection via screw connector 0.75...1.5 mm² for control circuit</p> <p>1 conductor(s) flexible cable without cable end , connection via screw connector 0.75...1.5 mm² for control circuit</p> <p>1 conductor(s) rigid cable , connection via screw connector 0.75...1.5 mm² for control circuit</p> <p>2 conductor(s) flexible cable with cable end , connection via screw connector 0.75...1.5 mm² for control circuit</p> <p>2 conductor(s) flexible cable with cable end , connection via 4 mm screw clamp terminal 4...16 mm² for power circuit</p> <p>2 conductor(s) rigid cable , connection via 4 mm screw clamp terminal 6...25 mm² for power circuit</p> <p>2 conductor(s) rigid cable , connection via screw connector 0.75...1.5 mm² for control circuit</p> <p>2 conductor(s) flexible cable without cable end , connection via screw connector 0.75...1.5 mm² for control circuit</p> <p>2 conductor(s) flexible cable without cable end , connection via 4 mm screw clamp terminal 6...25 mm² for power circuit</p> <p>, connection via earth connection: tinned connector fixed using Ø 6 mm screws</p>
Marking	CE
Operating position	Vertical +/- 10 degree
Product weight	3.8 kg

Environment

Electromagnetic compatibility	<p>EMC immunity conforming to EN 50082-2</p> <p>EMC immunity conforming to EN 50082-1</p> <p>Conducted and radiated emissions conforming to IEC 60947-4-2 level B</p> <p>Damped oscillating waves conforming to IEC 61000-4-12 level 3</p> <p>Electrostatic discharge conforming to IEC 61000-4-2 level 3</p> <p>Harmonics conforming to IEC 1000-3-2</p> <p>Harmonics conforming to IEC 1000-3-4</p> <p>Immunity to conducted interference caused by radio-electrical fields conforming to IEC 61000-4-6 level 3</p> <p>Immunity to electrical transients conforming to IEC 61000-4-4 level 4</p> <p>Immunity to radiated radio-electrical interference conforming to IEC 61000-4-3 level 3</p> <p>Micro-cuts and voltage fluctuation conforming to IEC 61000-4-11</p> <p>Voltage/Current impulse conforming to IEC 61000-4-5 level 3</p>
Standards	EN/IEC 60947-4-2
Product certifications	<p>B44.1-96/ASME A17.5 for starter wired to the motor delta terminal</p> <p>C-Tick</p> <p>CCC</p> <p>CSA</p> <p>GOST</p> <p>UL</p>
IP degree of protection	IP20 on front panel
Pollution degree	<p>3 conforming to IEC 60664-1</p> <p>3 conforming to UL 508</p>
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
Operating altitude	<p>> 2000 m with current derating of 0.5 % per additional 100 m</p> <p>≤ 2000 m without derating</p>
RoHS EUR status	Will not be compliant