



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	230...690 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	195...759 V
Power supply frequency	50...60 Hz (- 5...5 %)
Power supply frequency limits	47.5...63 Hz
Motor power kW	22 kW at 230 V 3 phases 45 kW at 400 V 3 phases 75 kW at 690 V 3 phases
Motor power hp	30 hp at 230 V 3 phases 50 hp at 400 V 3 phases 60 hp at 460 V 3 phases 75 hp at 575 V 3 phases
Output voltage	<= power supply voltage
Control circuit voltage	110 V +/- 10 % AC
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

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

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 UL 508</p> <p>3 conforming to IEC 60664-1</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