



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	380...415 V (- 10...10 %)
Motor power kW	4 kW at 380...415 V 3 phases
Icl nominal current	9 A
Utilisation category	AC-53B conforming to EN/IEC 60947-4-2
Current at nominal load	45 A at nominal load
Type of start	Start with voltage ramp
Power dissipation in W	4 W at full load and at end of starting 94 W in transient state

Complementary

Assembly style	With heat sink
Function available	Integrated bypass
Power supply voltage limits	342...456 V
Power supply frequency	50...60 Hz (- 5...5 %)
Power supply frequency limits	47.5...63 Hz
Output voltage	<= power supply voltage
Control circuit voltage	Built into the starter
Starting time	1 s/100 start(s) per hour 10 s/10 start(s) per hour 5 s/20 start(s) per hour Adjustable from 1 to 10 s
Deceleration time symb	Adjustable from 1 to 10 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 logic <= 8 mA 27 kOhm
Discrete input voltage	24...40 V
Discrete input logic	(LI1, LI2, BOOST)positive state 0 < 5 V and < 0.2 mA state 1 > 13 V and > 0.5 mA
Discrete output current	2 A DC-13 3 A AC-15
Discrete output type	(LO1)Open collector logic end of starting signal (R1A, R1C)relay outputs NO
Discrete output voltage	24 V (6...30 V)open collector logic
Minimum switching current	Relay outputs 10 mA 6 V DC
Maximum switching current	Relay outputs 2 A 250 V AC inductive load, cos phi = 0.5 L/R = 20 ms Relay outputs 2 A 30 V DC inductive load, cos phi = 0.5 L/R = 20 ms
Display type	1 LED (green) for starter powered up 1 LED (yellow) for nominal voltage reached
Tightening torque	0.5 N.m 1.9...2.5 N.m

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Electrical connection	1 conductor(s)rigid cable , connection via 4 mm screw clamp terminal 1...10 mm²/ AWG 8 for power circuit 1 conductor(s)rigid cable , connection via screw connector 0.5...2.5 mm²/AWG 14 for control circuit 2 conductor(s)rigid cable , connection via 4 mm screw clamp terminal 1...6 mm²/ AWG 10 for power circuit 2 conductor(s)rigid cable , connection via screw connector 0.5...1 mm²/AWG 17 for control circuit 1 conductor(s)flexible cable with cable end, connection via screw connector 0.5...1.5 mm²/AWG 16 for control circuit 1 conductor(s)flexible cable without cable end, connection via 4 mm screw clamp terminal 1.5...10 mm²/AWG 8 for power circuit 1 conductor(s)flexible cable without cable end, connection via screw connector 0.5...2.5 mm²/AWG 14 for control circuit 2 conductor(s)flexible cable with cable end, connection via 4 mm screw clamp terminal 1...6 mm²/AWG 10 for power circuit 2 conductor(s)flexible cable without cable end, connection via 4 mm screw clamp terminal 1.5...6 mm²/AWG 10 for power circuit 2 conductor(s)flexible cable without cable end, connection via screw connector 0.5...1.5 mm²/AWG 16 for control circuit
Marking	CE
Operating position	Vertical +/- 10 degree
Product weight	0.42 kg

Environment

Electromagnetic compatibility	Conducted and radiated emissions conforming to CISPR 11 level B Conducted and radiated emissions conforming to IEC 60947-4-2 level B Damped oscillating waves conforming to IEC 61000-4-12 level 3 Electrostatic discharge conforming to IEC 61000-4-2 level 3 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 conforming to IEC 61000-4-6 level 3 Immunity to electrical transients conforming to IEC 61000-4-4 level 4 Immunity to radiated radio-electrical interference conforming to IEC 61000-4-3 level 3 Micro-cuts and voltage fluctuation conforming to IEC 61000-4-11 Voltage/Current impulse conforming to IEC 61000-4-5 level 3
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
Pollution degree	2 conforming to EN/IEC 60947-4-2
Vibration resistance	1 gn (f = 13...150 Hz) conforming to EN/IEC 60068-2-6 1.5 mm peak to peak (f = 3...13 Hz) conforming to EN/IEC 60068-2-6
Shock resistance	15 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	-10...40 °C without derating 40...50 °C with current derating of 2 % per °C
Ambient air temperature for storage	-25...70 °C conforming to EN/IEC 60947-4-2
Operating altitude	<= 1000 m without derating > 1000 m with current derating of 2.2 % per additional 100 m
RoHS EUR status	Compliant
RoHS EUR conformity date	0905