Product datasheet
Characteristics

ATS01N103FT

soft starter for asynchronous motor - ATS01 - 3 A - 110..480V - 0.55..1.1 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 Single phase
[Us] rated supply voltage	110...480 V (- 10...10 %)
Motor power kW	0.37 kW at 230 V 3 phases 0.37 kW at 230 V single phase 0.55 kW at 230 V 3 phases 1.1 kW at 400 V 3 phases
Motor power hp	0.5 hp at 230 V 3 phases 0.5 hp at 460 V 3 phases 1.5 hp at 460 V 3 phases
IcL starter rating	3 A
Utilisation category	AC-53B conforming to EN/IEC 60947-4-2
Current consumption	15 A at nominal load
Type of start	Start with voltage ramp
Power dissipation in W	19 W in transient state 4 W at full load and at end of starting

Complementary

Assembly style	With heat sink
Function available	Integrated bypass
Supply voltage limits	99...528 V
Supply frequency	50...60 Hz (- 5...5 %)
Network frequency limits	47.5...63 Hz
Output voltage	<= power supply voltage
Control circuit voltage	110 V +/- 10 % AC, 30 mA 24 V +/- 10 % AC/DC, 25 mA 240 V +/- 10 % AC, 65 mA
Starting time	1 s/100 start(s) per hour 5 s/20 start(s) per hour Adjustable from 1 to 5 s
Starting torque	30...80 % of starting torque of motor connected directly on the line supply
Discrete output current	2 A DC-13 3 A AC-15
Tightening torque	0.8 N.m
Electrical connection	1 conductor(s) rigid cable, connection via cage type connector 2.5 mm²/AWG 14 for control circuit 1 conductor(s) rigid cable, connection via cage type connector 2.5 mm²/AWG 14 for power circuit 2 conductor(s) rigid cable, connection via cage type connector 1 mm²/AWG 17 for control circuit 2 conductor(s) rigid cable, connection via cage type connector 1 mm²/AWG 17 for power circuit 1 conductor(s) flexible cablewith cable end, connection via cage type connector 2.5 mm²/AWG 14 for control circuit 1 conductor(s) flexible cablewith cable end, connection via cage type connector 2.5 mm²/AWG 14 for power circuit 1 conductor(s) flexible cablewithout cable end, connection via cage type connector 2.5 mm²/AWG 14 for control circuit 1 conductor(s) flexible cablewithout cable end, connection via cage type connector 2.5 mm²/AWG 14 for power circuit 2 conductor(s) flexible cablewith cable end, connection via cage type connector 0.75

	mm²/AWG 18 for control circuit 2 conductor(s) flexible cablewith cable end, connection via cage type connector 0.75 mm²/AWG 18 for power circuit 2 conductor(s) flexible cablewithout cable end, connection via cage type connector 1 mm²/AWG 17 for control circuit 2 conductor(s) flexible cablewithout cable end, connection via cage type connector 1 mm²/AWG 17 for power circuit
Marking	CE
Operating position	Vertical +/- 10 degree
Height	100 mm
Width	23 mm
Depth	100 mm
Product weight	0.16 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	1.5 mm peak to peak (f = 3...13 Hz) conforming to EN/IEC 60068-2-6 1 gn (f = 13...150 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