ATS01N222RT

soft starter for asynchronous motor - ATS01 - 22 A - $460..480\ V$



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	460480 V - 1010 %
Motor power hp	10 hp 3 phases 460480 V 15 hp 3 phases 460480 V
IcL starter rating	22 A
Utilisation category	AC-53B EN/IEC 60947-4-2
Current consumption	110 A at nominal load
Type of start	Start with voltage ramp
Power dissipation in W	124.5 W in transient state 4.5 W at full load and at end of starting

Complementary

Complementary	
Assembly style	With heat sink
Function available	Integrated bypass
Supply voltage limits	414528 V
Supply frequency	5060 Hz - 55 %
Network frequency	47.563 Hz
Output voltage	<= power supply voltage
[Uc] control circuit voltage	Built into the starter
Starting time	Adjustable from 1 to 10 s 1 s 100 10 s 10 5 s 20
Deceleration time symb	Adjustable from 1 to 10 s
Starting torque	3080 % of starting torque of motor connected directly on the line supply
Discrete input type	Logic LI1, LI2, BOOST stop, run and boost on start-up functions <= 8 mA 27 kOhm
Discrete input voltage	2440 V
Discrete input logic	Positive LI1, LI2, BOOST < 5 V and <= 0.2 mA > 13 V >= 0.5 mA
Discrete output current	2 A DC-13 3 A AC-15
Discrete output type	Open collector logic LO1 end of starting signal Relay outputs R1A, R1C NO
Discrete output voltage	24 V 630 V open collector logic
Minimum switching current	10 mA 6 V DC relay outputs
Maximum switching current	2 A 250 V AC inductive cos phi = 0.5 20 ms relay outputs 2 A 30 V DC inductive cos phi = 0.5 20 ms relay outputs
Display type	LED green starter powered up LED yellow nominal voltage reached
Tightening torque	0.5 N.m 1.92.5 N.m
Electrical connection	4 mm screw clamp terminal rigid 1 110 mm² AWG 8 power circuit Screw connector rigid 1 0.52.5 mm² AWG 14 control circuit 4 mm screw clamp terminal rigid 2 16 mm² AWG 10 power circuit Screw connector rigid 2 0.51 mm² AWG 17 control circuit Screw connector flexible with cable end 1 0.51.5 mm² AWG 16 control circuit

4 mm screw clamp terminal flexible without cable end 1 1.5...10 mm² AWG 8 power

	4 mm screw clamp terminal flexible with cable end 2 16 mm² AWG 10 power circuit 4 mm screw clamp terminal flexible without cable end 2 1.56 mm² AWG 10 power circuit Screw connector flexible without cable end 2 0.51.5 mm² AWG 16 control circuit
Marking	CE
Operating position	Vertical +/- 10 degree
Height	154 mm
Width	45 mm
Depth	131 mm
Product weight	0.56 kg
Compatibility code	ATS01N2

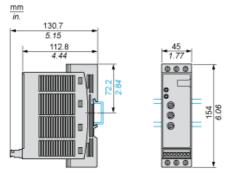
Screw connector flexible without cable end 1 0.5...2.5 mm² AWG 14 control circuit

Environment

electromagnetic compatibility	EMC immunity EN 50082-1 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 CISPR 11 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
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 EN/IEC 60947-4-2
vibration resistance	1.5 mm peak to peak 313 Hz EN/IEC 60068-2-6 1 gn 13150 Hz EN/IEC 60068-2-6
shock resistance	15 gn 11 ms EN/IEC 60068-2-27
relative humidity	595 % without condensation or dripping water EN/IEC 60068-2-3
ambient air temperature for operation	-1040 °C without derating 4050 °C with current derating of 2 % per °C
ambient air temperature for storage	-2570 °C EN/IEC 60947-4-2
operating altitude	<= 1000 m without derating > 1000 m with current derating of 2.2 % per additional 100 m

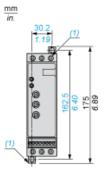
Dimensions

Mounting on Symetrical (35 mm) Rail



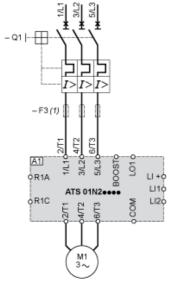
Screw Fixing





(1) Retractable fixings

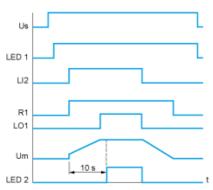
Example of Manual Control



A1: Soft start/soft stop unit(1) For type 2 coordinationQ1: Motor circuit-breakerF3: 3 fast-acting fuses

Function Diagram

2-wire Control with Deceleration



Us: Power supply voltage

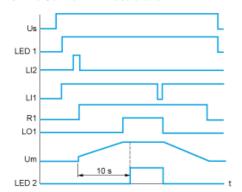
LED Green LED

1:

L12 : Logic inputR1 : Relay outputLO1 :Logic outputLED Yellow LED

2:

3-wire Control with Deceleration



Us: Power supply voltage

LED Green LED

1:

LI2, Logic inputs

LI1:

R1 : Relay output LO1 :Logic output Um :Motor voltage LED Yellow LED

2: