

# Product data sheet

## Characteristics

# ATS01N222RT

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

Product availability: Stock - Normally stocked in distribution facility



### Main

Commercial Status	Commercialised
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
[Us] rated supply voltage	460...480 V (- 10...10 %)
Motor power hp	15 hp at 460...480 V 3 phases 10 hp at 460...480 V 3 phases
IcL starter rating	22 A
Utilisation category	AC-53B conforming to EN/IEC 60947-4-2
Current consumption	110 A at nominal load
Type of start	Start with voltage ramp
Power dissipation in W	4.5 W at full load and at end of starting 124.5 W in transient state

### Complementary

Assembly style	With heat sink
Function available	Integrated bypass
Supply voltage limits	414...528 V
Supply frequency	50...60 Hz (- 5...5 %)
Network frequency limits	47.5...63 Hz
Output voltage	<= power supply voltage
Control circuit voltage	Built into the starter
Starting time	Adjustable from 1 to 10 s 5 s/20 start(s) per hour 10 s/10 start(s) per hour 1 s/100 start(s) per hour
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	3 A AC-15 2 A DC-13
Discrete output type	(R1A, R1C) relay outputs NO (LO1) open collector logic end of starting signal
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 30 V DC inductive load, cos phi = 0.5 L/R = 20 ms Relay outputs 2 A 250 V AC inductive load, cos phi = 0.5 L/R = 20 ms
Display type	1 LED (yellow) for nominal voltage reached 1 LED (green) for starter powered up
Tightening torque	4.42 lbf.in (0.5 N.m) 16.81...22.12 lbf.in (1.9...2.5 N.m)

Electrical connection	2 conductor(s) flexible cable without cable end, connection via screw connector 0.5...1.5 mm <sup>2</sup> /AWG 16 for control circuit 2 conductor(s) flexible cable without cable end, connection via 4 mm screw clamp terminal 1.5...6 mm <sup>2</sup> /AWG 10 for power circuit 2 conductor(s) flexible cable with cable end, connection via 4 mm screw clamp terminal 1...6 mm <sup>2</sup> /AWG 10 for power circuit 1 conductor(s) flexible cable without cable end, connection via screw connector 0.5...2.5 mm <sup>2</sup> /AWG 14 for control circuit 1 conductor(s) flexible cable without cable end, connection via 4 mm screw clamp terminal 1.5...10 mm <sup>2</sup> /AWG 8 for power circuit 1 conductor(s) flexible cable with cable end, connection via screw connector 0.5...1.5 mm <sup>2</sup> /AWG 16 for control circuit 2 conductor(s) rigid cable, connection via screw connector 0.5...1 mm <sup>2</sup> /AWG 17 for control circuit 2 conductor(s) rigid cable, connection via 4 mm screw clamp terminal 1...6 mm <sup>2</sup> /AWG 10 for power circuit 1 conductor(s) rigid cable, connection via screw connector 0.5...2.5 mm <sup>2</sup> /AWG 14 for control circuit 1 conductor(s) rigid cable, connection via 4 mm screw clamp terminal 1...10 mm <sup>2</sup> /AWG 8 for power circuit
Marking	CE
Operating position	Vertical +/- 10 degree
Height	6.06 in (154 mm)
Width	1.77 in (45 mm)
Depth	5.16 in (131 mm)
Product weight	1.23 lb(US) (0.56 kg)

## Environment

Electromagnetic compatibility	Voltage/Current impulse conforming to IEC 61000-4-5 level 3 Micro-cuts and voltage fluctuation conforming to IEC 61000-4-11 Immunity to radiated radio-electrical interference conforming to IEC 61000-4-3 level 3 Immunity to electrical transients conforming to IEC 61000-4-4 level 4 Immunity to conducted interference caused by radio-electrical fields conforming to IEC 61000-4-6 level 3 Harmonics conforming to IEC 1000-3-4 Harmonics conforming to IEC 1000-3-2 EMC immunity conforming to EN 50082-2 EMC immunity conforming to EN 50082-1 Electrostatic discharge conforming to IEC 61000-4-2 level 3 Damped oscillating waves conforming to IEC 61000-4-12 level 3 Conducted and radiated emissions conforming to IEC 60947-4-2 level B Conducted and radiated emissions conforming to CISPR 11 level B
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	104...122 °F (40...50 °C) with current derating of 2 % per °C 14...104 °F (-10...40 °C) without derating
Ambient air temperature for storage	-13...158 °F (-25...70 °C) conforming to EN/IEC 60947-4-2
Operating altitude	> 3280.84 ft (1000 m) with current derating of 2.2 % per additional 100 m <= 3280.84 ft (1000 m) without derating

## Ordering and shipping details

Category	22392 - ATS0 LOW HP SOFT STARTERS
Discount Schedule	I11
GTIN	00785901870920
Nbr. of units in pkg.	1
Package weight(Lbs)	1.45

Product availability	Stock - Normally stocked in distribution facility
Returnability	Y
Country of origin	DE

#### Contractual warranty

Period	18 months
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