

# Product data sheet

## Characteristics

# ATS01N209RT

soft starter for asynchronous motor - ATS01 - 9 A  
- 460..480 V

Product availability: Stock - Normally stocked in distribution facility

Price\*: 152.00 USD



### 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
Phase	3 phases
[Us] rated supply voltage	460...480 V (- 10...10 %)
motor power hp	5 hp at 460...480 V 3 phases
IcL starter rating	9 A
utilisation category	AC-53B conforming to EN/IEC 60947-4-2
current consumption	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
supply voltage limits	414...528 V
supply frequency	50...60 Hz (- 5...5 %)
network frequency	47.5...63 Hz
output voltage	<= power supply voltage
control circuit voltage	Built into the starter
starting time	5 s/20 start(s) per hour Adjustable from 1 to 10 s 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	2 A DC-13 3 A AC-15
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 (green) starter powered up 1 LED (yellow) nominal voltage reached

tightening torque	16.81...22.12 lbf.in (1.9...2.5 N.m) 4.42 lbf.in (0.5 N.m)
electrical connection	2 conductor(s) flexible cable without cable end, connection via 4 mm screw clamp terminal 1.5...6 mm <sup>2</sup> /AWG 10 power circuit 1 conductor(s) rigid cable, connection via 4 mm screw clamp terminal 1...10 mm <sup>2</sup> /AWG 8 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 power circuit 1 conductor(s) rigid cable, connection via screw connector 0.5...2.5 mm <sup>2</sup> /AWG 14 control circuit 1 conductor(s) flexible cable without cable end, connection via screw connector 0.5...2.5 mm <sup>2</sup> /AWG 14 control circuit 1 conductor(s) flexible cable with cable end, connection via screw connector 0.5...1.5 mm <sup>2</sup> /AWG 16 control circuit 2 conductor(s) rigid cable, connection via 4 mm screw clamp terminal 1...6 mm <sup>2</sup> /AWG 10 power circuit 2 conductor(s) rigid cable, connection via screw connector 0.5...1 mm <sup>2</sup> /AWG 17 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 power circuit 2 conductor(s) flexible cable without cable end, connection via screw connector 0.5...1.5 mm <sup>2</sup> /AWG 16 control circuit
marking	CE
operating position	Vertical +/- 10 degree
height	4.88 in (124 mm)
width	1.77 in (45 mm)
depth	5.16 in (131 mm)
product weight	0.93 lb(US) (0.42 kg)
compatibility code	ATS01N2

## Environment

electromagnetic compatibility	Electrostatic discharge conforming to IEC 61000-4-2 level 3 Micro-cuts and voltage fluctuation conforming to IEC 61000-4-11 Voltage/Current impulse conforming to IEC 61000-4-5 level 3 Conducted and radiated emissions conforming to IEC 60947-4-2 level B Immunity to electrical transients conforming to IEC 61000-4-4 level 4 EMC immunity conforming to EN 50082-2 Immunity to conducted interference caused by radio-electrical fields conforming to IEC 61000-4-6 level 3 EMC immunity conforming to EN 50082-1 Harmonics conforming to IEC 1000-3-4 Immunity to radiated radio-electrical interference conforming to IEC 61000-4-3 level 3 Damped oscillating waves conforming to IEC 61000-4-12 level 3 Conducted and radiated emissions conforming to CISPR 11 level B Harmonics conforming to IEC 1000-3-2
standards	EN/IEC 60947-4-2
product certifications	UL B44.1-96/ASME A17.5 for starter wired to the motor delta terminal CSA GOST CCC C-Tick
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 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 - ATSU01/ATS01 LOW HP SOFT STARTERS
Discount Schedule	I11
GTIN	00785901875871
Nbr. of units in pkg.	1
Returnability	Y
Country of origin	DE

### Contractual warranty

Warranty period	18 months
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