

Product data sheet

Characteristics

ATS01N209QN

soft starter for asynchronous motor - ATS01 - 9 A
- 380..415 V - 4 KW

Product availability: Non-Stock - Not 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	380...415 V (- 10...10 %)
motor power kW	4 kW at 380...415 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	94 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	342...456 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	10 s/10 start(s) per hour Adjustable from 1 to 10 s 1 s/100 start(s) per hour 5 s/20 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	(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) 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	1 conductor(s) rigid cable, connection via screw connector 0.5...2.5 mm ² /AWG 14 control circuit 1 conductor(s) flexible cable with cable end, connection via screw connector 0.5...1.5 mm ² /AWG 16 control circuit 2 conductor(s) flexible cable without cable end, connection via screw connector 0.5...1.5 mm ² /AWG 16 control circuit 2 conductor(s) flexible cable without cable end, connection via 4 mm screw clamp terminal 1.5...6 mm ² /AWG 10 power circuit 1 conductor(s) rigid cable, connection via 4 mm screw clamp terminal 1...10 mm ² /AWG 8 power circuit 1 conductor(s) flexible cable without cable end, connection via 4 mm screw clamp terminal 1.5...10 mm ² /AWG 8 power circuit 2 conductor(s) rigid cable, connection via 4 mm screw clamp terminal 1...6 mm ² /AWG 10 power circuit 2 conductor(s) flexible cable with cable end, connection via 4 mm screw clamp terminal 1...6 mm ² /AWG 10 power circuit 1 conductor(s) flexible cable without cable end, connection via screw connector 0.5...2.5 mm ² /AWG 14 control circuit 2 conductor(s) rigid cable, connection via screw connector 0.5...1 mm ² /AWG 17 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	Immunity to electrical transients conforming to IEC 61000-4-4 level 4 EMC immunity conforming to EN 50082-1 EMC immunity conforming to EN 50082-2 Conducted and radiated emissions conforming to IEC 60947-4-2 level B Electrostatic discharge conforming to IEC 61000-4-2 level 3 Micro-cuts and voltage fluctuation conforming to IEC 61000-4-11 Harmonics conforming to IEC 1000-3-4 Conducted and radiated emissions conforming to CISPR 11 level B Damped oscillating waves conforming to IEC 61000-4-12 level 3 Immunity to conducted interference caused by radio-electrical fields conforming to IEC 61000-4-6 level 3 Immunity to radiated radio-electrical interference conforming to IEC 61000-4-3 level 3 Harmonics conforming to IEC 1000-3-2 Voltage/Current impulse conforming to IEC 61000-4-5 level 3
standards	EN/IEC 60947-4-2
product certifications	GOST B44.1-96/ASME A17.5 for starter wired to the motor delta terminal CCC UL C-Tick CSA
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	00785901578888
Nbr. of units in pkg.	1
Returnability	N
Country of origin	DE

Contractual warranty

Warranty period	18 months
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