Product data sheet Characteristics

ATS01N232RT

soft starter for asynchronous motor - ATS01 - 32 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	20 hp at 460480 V 3 phases
IcL starter rating	32 A
utilisation category	AC-53B conforming to EN/IEC 60947-4-2
current consumption	160 A at nominal load
type of start	Start with voltage ramp
power dissipation in W	324.5 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
control circuit voltage	Built into the starter
starting time	1 s / 50 start(s) per hour 10 s / 5 start(s) per hour 5 s / 10 start(s) per hour Adjustable from 1 to 10 s
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	(LI1, LI2, BOOST) stop, run and boost on start-up functions logic <= 8 mA 27 kOhm
discrete input voltage	2440 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 (630 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 = $0.5 \text{L/R} = 20 \text{ms}$ Relay outputs 2 A 250 V AC inductive load, cos phi = $0.5 \text{L/R} = 20 \text{ms}$
display type	LED (green) for starter powered up LED (yellow) for nominal voltage reached
tightening torque	0.5 N.m 1.92.5 N.m

electrical connection	1 conductor(s) rigid cable, connection via 4 mm screw clamp terminal 110 mm² / AWG 8 for power circuit 2 conductor(s) flexible cable without cable end, connection via 4 mm screw clamp terminal 1.56 mm² / AWG 10 for power circuit 2 conductor(s) flexible cable with cable end, connection via 4 mm screw clamp terminal 16 mm² / AWG 10 for power circuit 2 conductor(s) rigid cable, connection via 4 mm screw clamp terminal 16 mm² / AWG 10 for power circuit 1 conductor(s) rigid cable, connection via screw connector 0.52.5 mm² / AWG 14 for control circuit 2 conductor(s) flexible cable without cable end, connection via screw connector 0.51.5 mm² / AWG 16 for control circuit 1 conductor(s) flexible cable with cable end, connection via screw connector 0.51.5 mm² / AWG 16 for control circuit 1 conductor(s) flexible cable without cable end, connection via screw connector 0.52.5 mm² / AWG 14 for control circuit 2 conductor(s) rigid cable, connection via screw connector 0.51 mm² / AWG 17 for control circuit 1 conductor(s) flexible cable without cable end, connection via 4 mm screw clamp terminal 1.510 mm² / AWG 8 for power 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

Environment

electromagnetic compatibility	Immunity to radiated radio-electrical interference conforming to IEC 61000-4-3 level 3		
	EMC immunity conforming to EN 50082-2		
	Harmonics conforming to IEC 1000-3-2		
	EMC immunity conforming to EN 50082-1		
	Electrostatic discharge conforming to IEC 61000-4-2 level 3		
	Harmonics conforming to IEC 1000-3-4		
	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 Micro-cuts and voltage fluctuation conforming to IEC 61000-4-11 Conducted and radiated emissions conforming to IEC 60947-4-2 level B Conducted and radiated emissions conforming to CISPR 11 level B		
			Immunity to electrical transients conforming to IEC 61000-4-4 level 4
			Voltage/Current impulse conforming to IEC 61000-4-5 level 3
		standards	EN/IEC 60947-4-2
product certifications	GOST		
	C-Tick		
	CCC		
	B44.1-96/ASME A17.5 for starter wired to the motor delta terminal		
	CSA		
	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 = 313 Hz) conforming to EN/IEC 60068-2-6 1 gn (f = 13150 Hz) conforming to EN/IEC 60068-2-6		
shock resistance	15 gn for 11 ms conforming to EN/IEC 60068-2-27		
relative humidity	595 % without condensation or dripping water conforming to 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 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		

Contractual warranty

Warranty period	18 months
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