Product data sheet Characteristics

ATS01N212RT

soft starter for asynchronous motor - ATS01 - 12 A - 460..480 V



Main

IVIAIII		
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	7.5 hp 3 phases 460480 V	
IcL starter rating	12 A	
Utilisation category	AC-53B EN/IEC 60947-4-2	:
Current consumption	60 A at nominal load	
Type of start	Start with voltage ramp	
Power dissipation in W	124 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	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	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	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	i
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 1.510 mm² AWG 8 power circuit Screw connector flexible without cable end 1 0.52.5 mm² AWG 14 control circuit 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	124 mm
Width	45 mm
Depth	131 mm

0.42 kg

ATS01N2

Environment

Product weight

Compatibility code

Electromagnetic compatibility	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 EMC immunity EN 50082-1
Standards	EN/IEC 60947-4-2
Product certifications	UL B44.1-96/ASME A17.5 for starter wired to the motor delta terminal C-Tick CCC GOST CSA
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 temp for op	-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

Contractual warranty

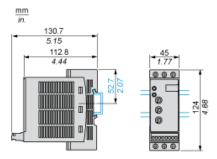
Period	18 months

Product data sheet Dimensions Drawings

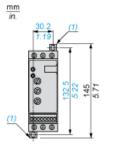
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Dimensions

Mounting on Symetrical (35 mm) Rail



Screw Fixing

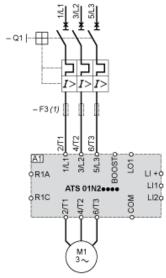


(1) Retractable fixings

Product data sheet Connections and Schema

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Example of Manual Control



A1: Soft start/soft stop unit
(1) For type 2 coordination
Q1: Motor circuit-breaker
F3: 3 fast-acting fuses

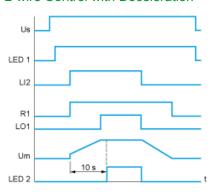
Product data sheet

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Technical Description

Function Diagram

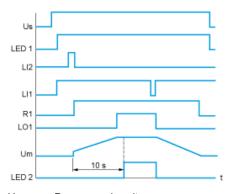
2-wire Control with Deceleration



Us: Power supply voltage

LED 1: Green LED
LI2: Logic input
R1: Relay output
LO1: Logic output
LED 2: Yellow LED

3-wire Control with Deceleration



Us: Power supply voltage

LED 1: Green LED
LI2, LI1: Logic inputs
R1: Relay output
LO1: Logic output
Um: Motor voltage
LED 2: Yellow LED