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
Phase	3 phase
[Us] rated supply voltage	460480 V - 1010 %
Maximum Horse Power Rating	20 hp, 3 phase 460480 V
IcL starter rating	32 A
Utilisation category	AC-53B EN/IEC 60947-4-2
Current consumption	160 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

324.5 W in transient state

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
[Uc] control circuit voltage	Built into the starter
Starting time	Adjustable from 1 to 10 s 1 s / 50 10 s / 5 5 s / 10
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 <= 0.2 mA > 13 V, >= 0.5 mA
Discrete output current	2 A DC-13 3 A AC-15
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	Relay outputs 2 A 250 V AC cos phi = 0.5 20 ms inductive Relay outputs 2 A 30 V DC cos phi = 0.5 20 ms inductive
Display type	LED Green)starter powered up LED Yellow)nominal voltage reached
Tightening torque	16.8222.13 Lbf.In (1.92.5 N.m) 4.43 lbf.in (0.5 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	6.06 in (154 mm)
Maximum Width	1.77 in (45 mm)
Depth	5.16 in (131 mm)
Net Weight	1.23 lb(US) (0.56 kg)
Compatibility code	ATS01N2

Environment

Conducted and radiated emissions level B CISPR 11
Conducted and radiated emissions level B IEC 60947-4-2
Damped oscillating waves level 3 IEC 61000-4-12
Electrostatic discharge level 3 IEC 61000-4-2
EMC immunity EN 50082-1
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
Immunity to electrical transients level 4 IEC 61000-4-4
Immunity to radiated radio-electrical interference level 3 IEC 61000-4-3
Micro-cuts and voltage fluctuation IEC 61000-4-11
Voltage/current impulse level 3 IEC 61000-4-5
EN/IEC 60947-4-2
B44.1-96/ASME A17.5 for starter wired to the motor delta terminal
CCC
UL
CSA
C-tick
GOST
IP20
2 EN/IEC 60947-4-2
1 gn 13150 Hz)EN/IEC 60068-2-6
1.5 mm peak to peak 313 Hz)EN/IEC 60068-2-6
15 gn 11 ms EN/IEC 60068-2-27
595 % without condensation or dripping water EN/IEC 60068-2-3
-1040 °C (without derating)
104122 °F (4050 °C) with current derating of 2 % per °C)
-13158 °F (-2570 °C) EN/IEC 60947-4-2
<= 1000 m without derating
> 3280.84 ft (1000 m) with current derating of 2.2 % per additional 100 m

Ordering and shipping details

22392 - ATSU01/ATS01 LOW HP SOFT STARTERS
l11
00785901673125
1
1.53 lb(US) (0.69 kg)
Yes
DE

Packing Units

<u> </u>	
Unit Type of Package 1	PCE
Package 1 Height	2.17 in (5.5 cm)
Package 1 width	5.98 in (15.2 cm)
Package 1 Length	6.89 in (17.5 cm)
Unit Type of Package 2	S03
Number of Units in Package 2	14
Package 2 Weight	22.30 lb(US) (10.113 kg)
Package 2 Height	11.81 in (30 cm)
Package 2 width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)

Offer Sustainability

California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
REACh Regulation	☑ REACh Declaration
REACh free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EPEU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	₫Yes
China RoHS Regulation	China RoHS Declaration
Circularity Profile	End Of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

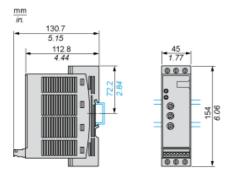
Contractual warranty

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Warranty	18 months	

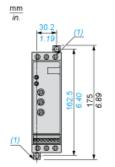
ATS01N232RT

Dimensions

Mounting on Symetrical (35 mm) Rail



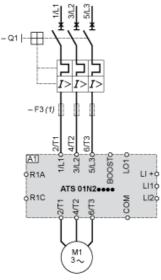
Screw Fixing



(1) Retractable fixings

ATS01N232RT

Example of Manual Control



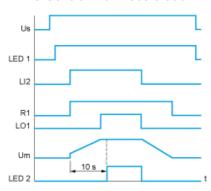
A1: Soft start/soft stop unit (1) For type 2 coordination Q1: Motor circuit-breaker F3: 3 fast-acting fuses

Product data sheet **Technical Description**

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Function Diagram

2-wire Control with Deceleration



Us: Power supply voltage

LED Green LED

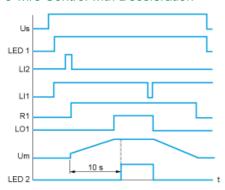
LI2: Logic input

R1: Relay output LO1:Logic output

LED Yellow LED

2:

3-wire Control with Deceleration



Us: Power supply voltage LED Green LED

1:

LI2, Logic inputs

R1: Relay output LO1:Logic output

Um: Motor voltage LED Yellow LED