

soft starter for asynchronous motor, Altistart 22, control 110V, 208 to 575V, 7.5 to 25hp

ATS22D32S6U

- ! To be discontinued on: Jun 30, 2027
- ! To be end-of-service on: Jun 29, 2035

Main

Range of product	Altistart 22	
Product or component type	Soft starter	
Product destination	Asynchronous motors	
Product specific application	Pumps and fans	
Component name	ATS22	
Network number of phases	3 phases	
[Us] rated supply voltage	208600 V - 1510 %	
Motor power hp	10 hp 230 V 20 hp 460 V 25 hp 575 V 7.5 hp 208 V	
Factory setting current	27 A	
Power dissipation in W	44 W for standard applications	
Utilisation category	AC-53A	
Type of start	Start with torque control (current limited to 3.5 ln)	
IcL starter rating	32 A for connection in the motor supply line for standard applications	
IP degree of protection	IP20	

Complementary

J		
Assembly style	With heat sink	
Function available	Internal bypass	
Supply voltage limits	177660 V	
Supply frequency	5060 Hz - 1010 %	
Network frequency	4566 Hz	
Device connection	In the motor supply line	
[Uc] control circuit voltage	110 V - 1510 % 50/60 Hz	
Control circuit consumption	20 W	
Discrete output number	2	
Discrete output type	Relay outputs R1 230 V running, alarm, trip, stopped, not stopped, starting, ready C/O Relay outputs R2 230 V running, alarm, trip, stopped, not stopped, starting, ready C/O	

Aug 30, 2025 Life Is On Schneider

Minimum switching current	100 mA at 12 V DC (relay outputs)	
Maximum switching current	5 A 250 V AC resistive 1 relay outputs 5 A 30 V DC resistive 1 relay outputs 2 A 250 V AC inductive 0.4 20 ms relay outputs 2 A 30 V DC inductive 7 ms relay outputs	
Discrete input number	3	
Discrete input type	(LI1, LI2, LI3) logic, 5 mA 20 kOhm	
Discrete input voltage	110 V <= 121 V	
Discrete input logic	Positive logic Ll1, Ll2, Ll3 at State 0: < 20 V and <= 15 mA at State 1: > 79 V, <= 2 mA	
Output current	0.41 lcl adjustable	
PTC probe input	750 Ohm	
Communication port protocol	Modbus	
Connector type	1 RJ45	
Communication data link	Serial	
Physical interface	RS485 multidrop	
Transmission rate	4800, 9600 or 19200 bps	
Installed device	31	
Protection type	Phase failure: line Thermal protection: motor Thermal protection: starter	
Marking	CE	
Type of cooling	Forced convection	
Operating position	Vertical +/- 10 degree	
Height	265 mm	
Width	130 mm	
Depth	169 mm	
Product weight	7 kg	

Environment

Electromagnetic compatibility	Conducted and radiated emissions level A conforming to IEC 60947-4-2 Damped oscillating waves level 3 conforming to IEC 61000-4-12 Electrostatic discharge level 3 conforming to IEC 61000-4-2 Immunity to electrical transients level 4 conforming to IEC 61000-4-4 Immunity to radiated radio-electrical interference level 3 conforming to IEC 61000-4-3 Voltage/current impulse level 3 conforming to IEC 61000-4-5	
Standards	IEC 60947-4-2	
Product certifications	CCC CSA GOST C-Tick UL	
Vibration resistance	1 gn (f= 13200 Hz) conforming to IEC 60068-2-6 1.5 mm (f= 213 Hz) conforming to IEC 60068-2-6	
Shock resistance	15 gn for 11 ms conforming to IEC 60068-2-27	
Noise level	45 dB	
Pollution degree	Level 2 conforming to IEC 60664-1	
Relative humidity	095 % without condensation or dripping water conforming to IEC 60068-2-3	

Ambient air temperature for operation	-1040 °C (without derating) 4060 °C (with current derating 2.2 % per °C)	
Ambient air temperature for storage	-2570 °C	
Operating altitude	<= 1000 m without derating > 1000< 2000 m with current derating of 2.2 % per additional 100 m	

Packing Units

PCE
1
31.0 cm
23.5 cm
36.0 cm
5.673 kg
P06
10
73.5 cm
80.0 cm
60.0 cm
95.0 kg

Contractual warranty

Warranty 18 months



Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Use Better

Packaging made with recycled cardboard	No
Packaging without single use plastic	No
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	7f28cbce-306d-4c94-ba04-b506c5522d63
REACh Regulation	REACh Declaration
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

Use Again

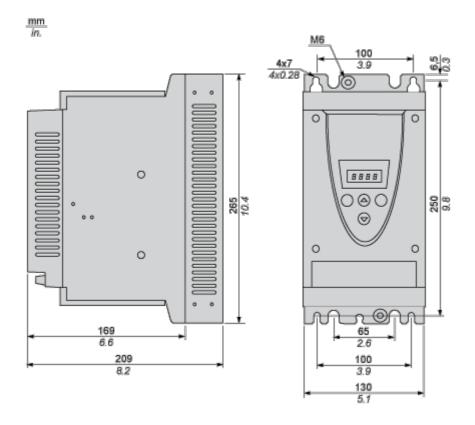
○ Repack and remanufacture		
Take-back	No	
WEEE Label	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins	

ATS22D32S6U

Dimensions Drawings

Frame Size A

Dimensions



Mounting and Clearance

Precautions

Standards

The Altistart 22 soft starter is compliant with pollution Degree 2 as defined in NEMA ICS1-1 or IEC 60664-1. For environment pollution degree 3, install the Altistart 22 soft starter inside a cabinet type 12 or IP54.



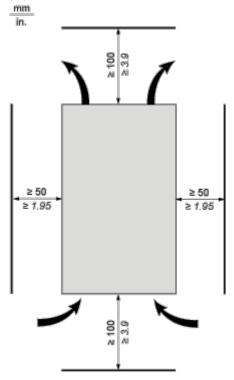
HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

ATS22 soft starters are open devices and must be mounted in a suitable enclosure.

Failure to follow these instructions will result in death or serious injury.

Air Circulation

Leave sufficient free space to help the air required for cooling purposes to circulate from the bottom to the top of the unit.



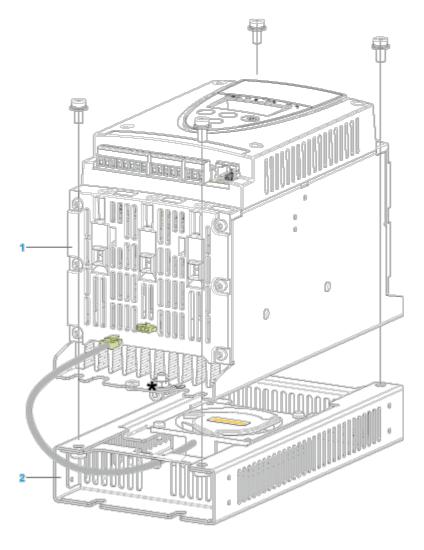
Overheating

To avoid the soft starter to overheat, respect the following recommendations:

- $_{\bullet}$ Mount the Altistart 22 Soft Starter within ± 10° of vertical.
- Do not locate the Altistart 22 Soft Starter near heat radiating elements.
- Electrical current through the Altistart 22 Soft Starter will result in heat losses that must be dissipated into the
 ambient air immediately surrounding the soft starter. To help prevent a thermal fault, provide sufficient
 enclosure cooling and/or ventilation to limit the ambient temperature around the soft starter.
- If several soft starters are installed in a control panel, arrange them in a row. Do not stack soft starters. Heat
 generated from the bottom soft starter can adversely affect the ambient temperature around the top soft
 starter.

Mounting

Connection Between the Fan and the Altistart 22 Soft Starter



- 1 Altistart 22 Soft Starter
- 2 Fan

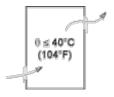
ATS22D32S6U

Wall mounted or Floor-standing Enclosure with IP 23 Degree of protection

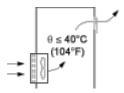
Introduction

To help proper air circulation in the soft starter, grilles and forced ventilation can be installed.

Ventilation Grilles



Forced Ventilation Unit

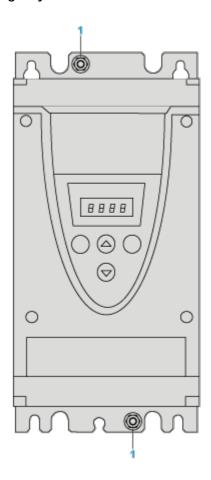


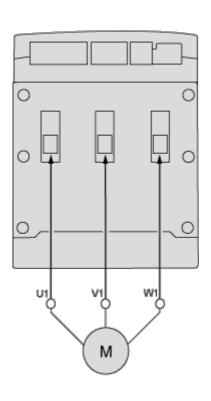
ATS22D32S6U

Connections and Schema

Power Terminal

Cage Style





1 Ground connection

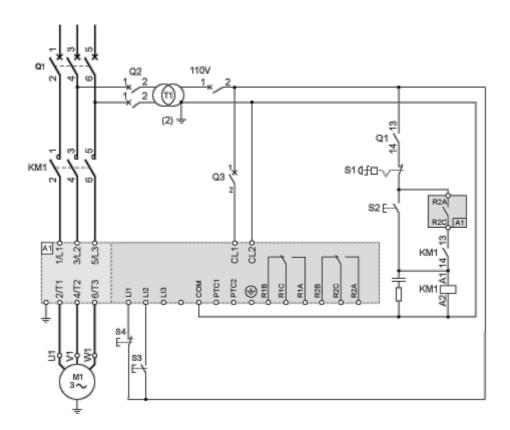
Power connections, minimum and maximum wiring capabilities, tightening torque

			IEC cable	UL cable
Power supply and output to motor	Size/gauge	min	2.5 mm	12 AWG
		max	16 mm	4 AWG
	Tightening torque	min	3 N.m	26.25 lb.in
		max	3 N.m	26.25 lb.in
	Strip length		10 mm	0.4 in.

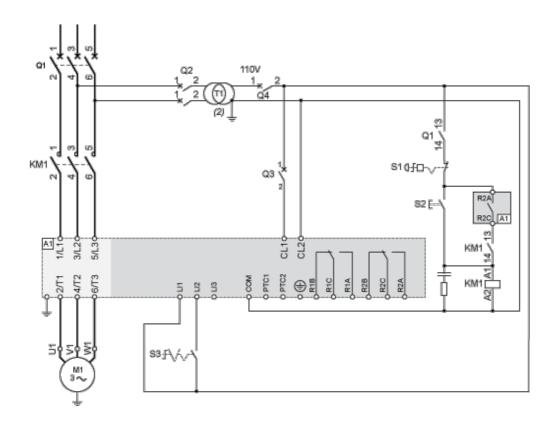
Power connections, minimum required wiring section

IEC cable	UL cable
mm² (Cu 70°C/158°F) (1)	AWG (Cu 75°C/167°F) (1)
6	8

110 Vac control, Logic Inputs (LI) 110 Vac, 3-wire control



110 Vac control, Logic Inputs (LI) 110 Vac, 2-wire control, freewheelstop



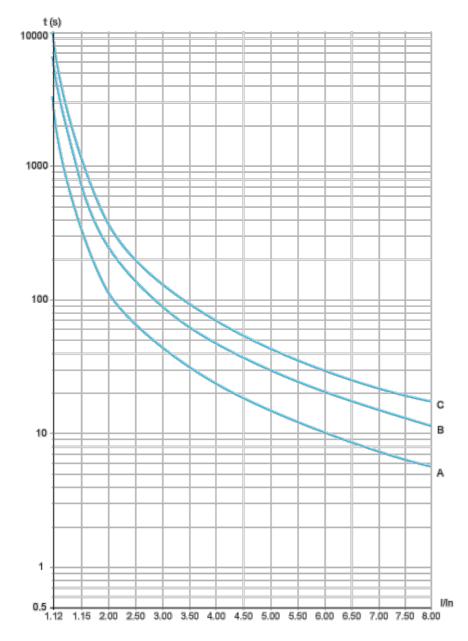
Product data sheet

ATS22D32S6U

Performance Curves

Motor Thermal Protection - Cold Curves

Curves



- A Class 10
- B Class 20
- C Class 30

Trip time for a Standard Application (Class 10)

3.5 ln	
32 s	

Trip time for a Severe Application (Class 20)

Product data sheet ATS22D32S6U

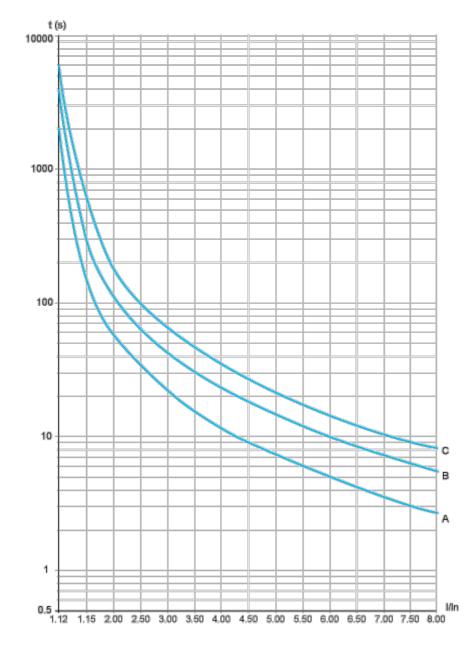
3.5 ln
63 s

Trip time for a Severe Application (Class 30)

3.5 ln
95 s

Motor Thermal Protection - Warm Curves

Curves



A Class 10

B Class 20

C Class 30

Trip time for a Standard Application (Class 10)

3.5 ln 16 s

Trip time for a Severe Application (Class 20)

3.5 ln

Product data sheet ATS22D32S6U

32 s

Trip time for a Severe Application (Class 30)

3.5 ln

48 s