

soft starter-ATS22-ctrl110Vpower208V(100hp)/230V(125hp)/ 460V(250hp)/575V(300hp)

Local distributor code:
393438923 ATS22C32S6U

EAN Code: 3606480211218

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	100 hp 208 V 125 hp 230 V 250 hp 460 V 300 hp 575 V	
Factory Setting Current	302 A	
Power Dissipation In W	150 W for standard applications	
Utilisation Category	AC-53A	
Type Of Start	Start with torque control (current limited to 3.5 In)	
Icl Starter Rating	320 A for connection in the motor supply line for standard applications	
Ip Degree Of Protection	IP00	

Complementary

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
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 LI1, LI2, LI3 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	425 mm
Width	206 mm
Depth	299 mm
Net Weight	33 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	EN/IEC 60947-4-2	
Product Certifications	CSA C-Tick CCC UL GOST	
Vibration Resistance	1 gn (f= 13200 Hz) conforming to EN/IEC 60068-2-6 1.5 mm (f= 213 Hz) conforming to EN/IEC 60068-2-6	
Shock Resistance	15 gn for 11 ms conforming to EN/IEC 60068-2-27	
Noise Level	56 dB	
Pollution Degree	Level 2 conforming to IEC 60664-1	
Relative Humidity	095 % without condensation or dripping water conforming to EN/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

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	46.000 cm
Package 1 Width	40.000 cm
Package 1 Length	60.000 cm
Package 1 Weight	24.500 kg

Contractual warranty

Warranty 18 months

Sustainability

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

Well-being performance

Mercury Free	
Rohs Exemption Information	Yes
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration

collection and never end up in rubbish bins

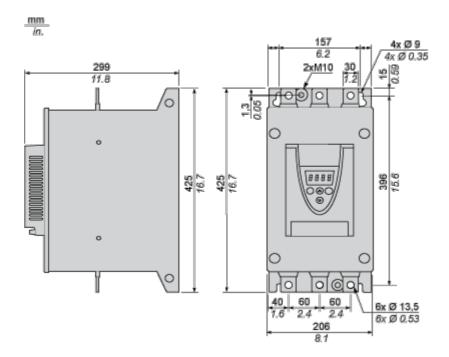
The product must be disposed on European Union markets following specific waste

Weee

Dimensions Drawings

Frame Size D

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.



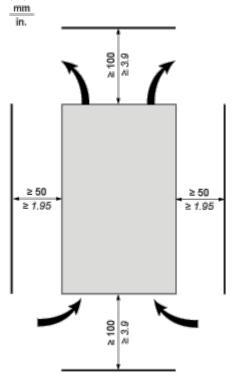
HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

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.

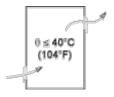
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Wall mounted or Floor-standing Enclosure with IP 23 Degree of protection

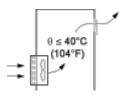
Introduction

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

Ventilation Grilles



Forced Ventilation Unit

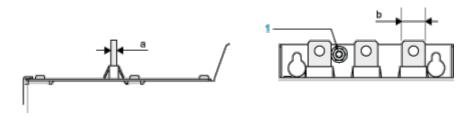


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Connections and Schema

Power Terminal

Bar Style

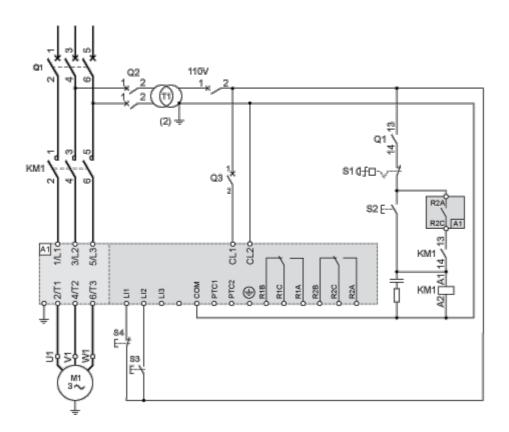


Power supply and output to motor	Bar	b	30 mm (1.18 in)
		a	5 mm (0.2 in)
		Bolt	M12 (0.47 in)
	Cable and protective cover	Size	2X150 mm²
		Gauge	2X250 MCM
		Protective cover	LA9F703
		Tightening torque	57 N.m
			498.75 lb.in

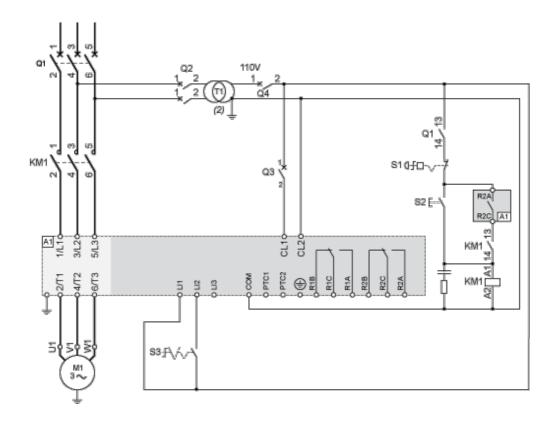
Power connections, minimum required wiring section

IEC cable	UL cable
mm² (Cu 70°C/158°F) (1)	AWG (Cu 75°C/167°F) (1)
185	2 X 3/0

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



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



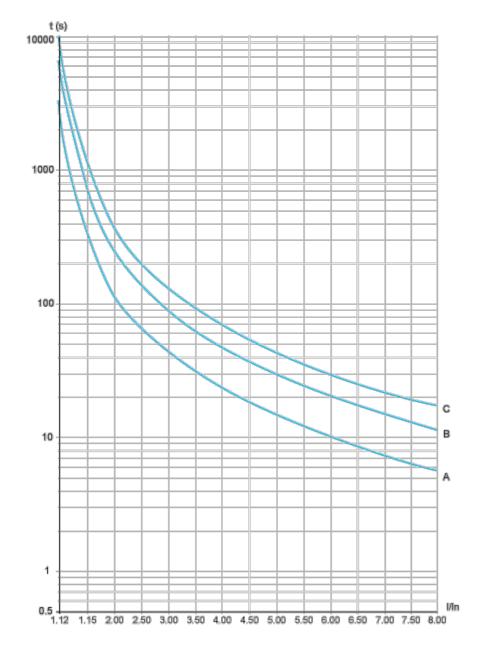
Product datasheet

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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 datasheet

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3.5 ln
63 s

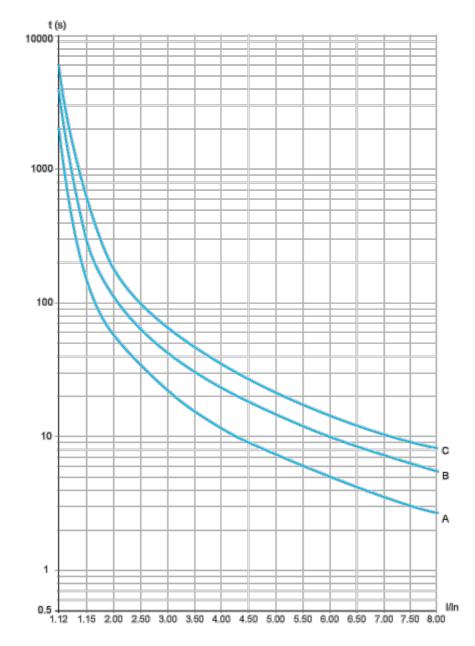
Trip time for a Severe Application (Class 30)

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 datasheet

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32 s

Trip time for a Severe Application (Class 30)

3.5 ln

48 s