

soft starter for asynchronous motor, Altistart 22, control 110V, 208 to 575V, 40 to 125hp

ATS22C14S6U

Product availability: Stock - Normally stocked in distribution facility

Price*: 2,150.40 USD

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	
Phase	3 phase	
[Us] Rated Supply Voltage	208600 V - 1510 %	
Maximum Horse Power Rating	100 hp 460 V 125 hp 575 V 40 hp 208 V 50 hp 230 V	
Factory Setting Current	124 A	
Power Dissipation In W	82 W for standard applications	
Utilisation Category	AC-53A	
Type Of Start	Start with torque control (current limited to 3.5 ln)	
Icl Starter Rating	140 A 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 (O Relay outputs R2 230 V running, alarm, trip, stopped, not stopped, starting, ready (O	
Minimum Switching Current	100 mA 12 V DC relay outputs)	

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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 < 20 V <= 15 mA > 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 External thermal protection motor External thermal protection starter	
Marking	CE	
Type Of Cooling	Forced convection	
Operating Position	Vertical +/- 10 degree	
Height	14.02 in (356 mm)	
Width	5.91 in (150 mm)	
Depth	9.04 in (229.5 mm)	
Net Weight	39.68 lb(US) (18 kg)	

Environment

Electromagnetic Compatibility	Conducted and radiated emissions level A IEC 60947-4-2 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	
Standards	IEC 60947-4-2	
Product Certifications	C-tick CCC CSA UL GOST	
Vibration Resistance	1 gn 13200 Hz)IEC 60068-2-6 1.5 mm 213 Hz)IEC 60068-2-6	
Shock Resistance	15 gn 11 ms IEC 60068-2-27	
Noise Level	56 dB	
Pollution Degree	Level 2 IEC 60664-1	
Relative Humidity	095 % without condensation or dripping water IEC 60068-2-3	
Ambient Air Temperature For Operation	14104 °F (-1040 °C) without derating) 104140 °F (4060 °C) with current derating 2.2 % per °C)	

Ambient Air Temperature For Storage	-13158 °F (-2570 °C)
Operating Altitude	<= 3280.84 ft (1000 m) without derating > 3280.84< 6561.68 ft (> 1000< 2000 m) with current derating of 2.2 % per additional 100 m

Ordering and shipping details

Category	US1CP1G22576
Discount Schedule	CP1G
Gtin	3606480167447
Returnability	Yes
Country Of Origin	US

Packing Units

r adming dimes	
Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	9.84 in (25.0 cm)
Package 1 Width	12.99 in (33.0 cm)
Package 1 Length	16.14 in (41.0 cm)
Package 1 Weight	29.13 lb(US) (13.214 kg)
Unit Type Of Package 2	P06
Number Of Units In Package 2	4
Package 2 Height	28.94 in (73.5 cm)
Package 2 Width	31.50 in (80.0 cm)
Package 2 Length	23.62 in (60.0 cm)
Package 2 Weight	145.19 lb(US) (65.856 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	9

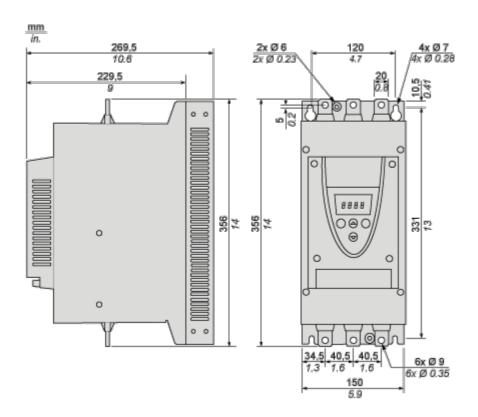
	Yes	Rohs Exemption Information
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Reach Regulation	REACh Declaration	
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
China Rohs Regulation	China RoHS declaration	
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.	
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	

Dimensions Drawings

Frame Size C

Dimensions



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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.



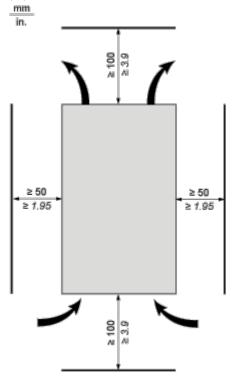
HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

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

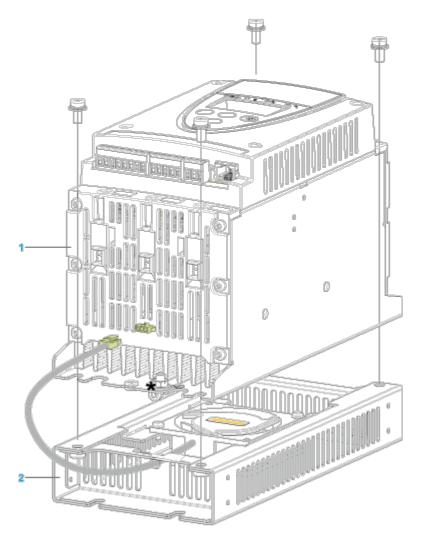
To avoid the soft starter to overheat, respect the following recommendations:

- $_{\bullet}$ 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.

Jun 12, 2024

Mounting

Connection Between the Fan and the Altistart 22 Soft Starter



- 1 Altistart 22 Soft Starter
- 2 Fan

Product data sheet

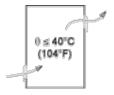
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Wall mounted or Floor-standing Enclosure with IP 23 Degree of protection

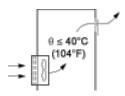
Introduction

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

Ventilation Grilles



Forced Ventilation Unit

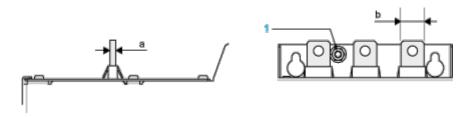


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Connections and Schema

Power Terminal

Bar Style

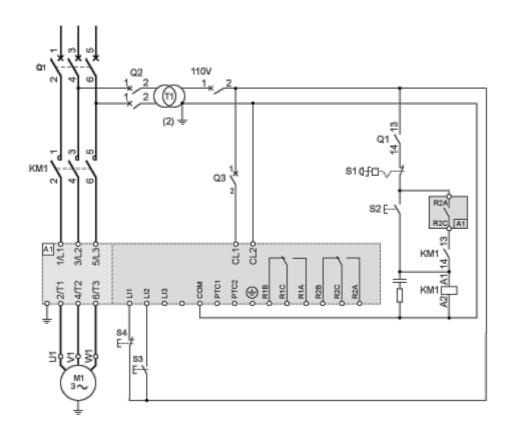


Power supply and output to motor	Bar	b	20 mm (0.79 in)
		a	5 mm (0.2 in)
		Bolt	M8 (0.31 in)
	Cable and protective cover	Size	95 mm²
		Gauge	250 MCM
		Protective cover	LA9F702
		Tightening torque	18 N.m
			157.5 lb.in

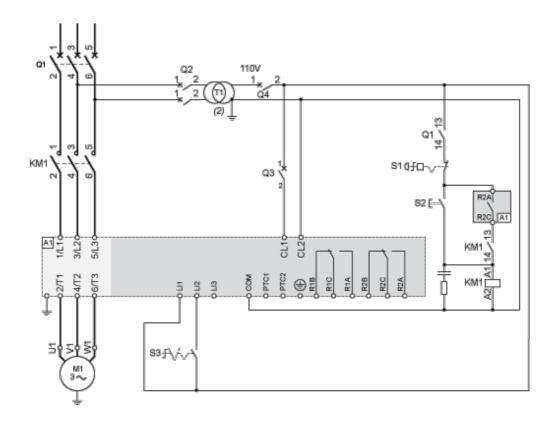
Power connections, minimum required wiring section

	•
IEC cable	UL cable
mm² (Cu 70°C/158°F) (1)	AWG (Cu 75°C/167°F) (1)
50	2/0

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



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

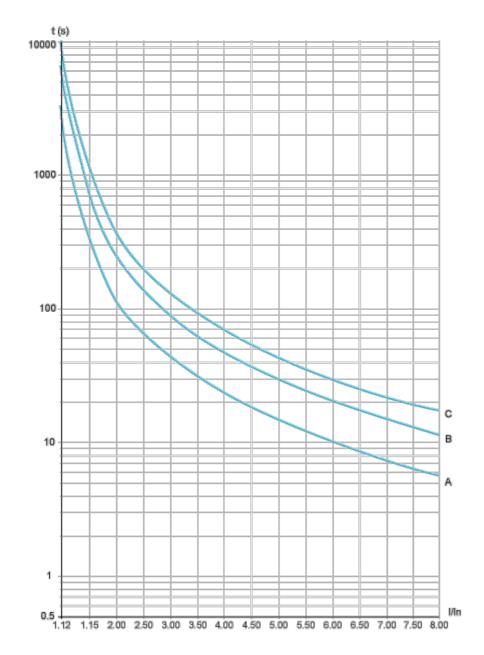


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Performance Curves

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 data sheet ATS22C14S6U

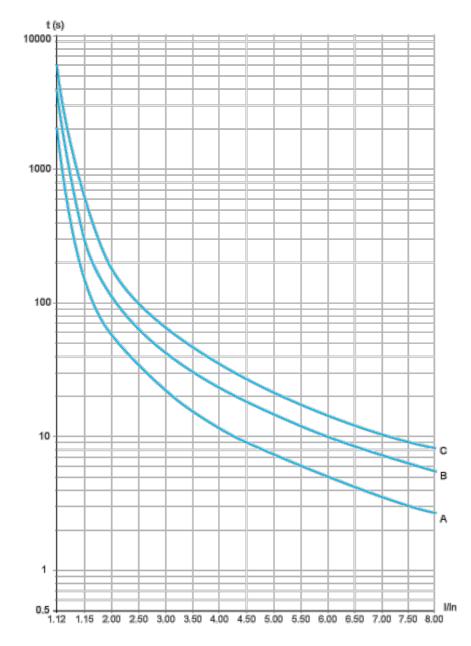
3.5 ln	
63 s	

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

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32 s

Trip time for a Severe Application (Class 30)

3.5 ln

48 s