

soft starter for asynchronous motor, Altistart 22, control 230V, 230 to 440V, 30 to 55kW

ATS22C11Q

Product availability: Non-Stock - Not normally stocked in distribution facility

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	230440 V - 1510 %	
Motor power kW	30 kW 230 V 55 kW 400 V 55 kW 440 V	
Factory setting current	100 A	
Power dissipation in W	73 W for standard applications	
Utilisation category	AC-53A	
Type of start	Start with torque control (current limited to 3.5 ln)	
IcL starter rating	110 A connection in the motor supply line for standard applications	
IP Degree of Protection	IP20	

Complementary

Assembly style	With heat sink
Function Available	Internal bypass
Supply voltage limits	195484 V
Supply frequency	5060 Hz - 1010 %
Network Frequency	4566 Hz
Device connection	In the motor supply line To the motor delta terminals
[Uc] control circuit voltage	230 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 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 4.3 kOhm	
Discrete input voltage	24 V <= 30 V	
Discrete input logic	Positive logic LI1, LI2, LI3 < 5 V <= 2 mA > 11 V, >= 5 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	14.02 in (356 mm)	
Width	5.9 in (150 mm)	
Depth	9.04 in (229.5 mm)	
Net Weight	39.7 lb(US) (18 kg)	
Motor power range AC-3	3050 kW 200240 V 3 phase 55100 kW 380440 V 3 phase	
Motor starter type	Soft starter	
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	UL CSA GOST C-tick CCC	
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 11 ms IEC 60068-2-27	
Noise level	56 dB	

 $0...95\ \%$ without condensation or dripping water IEC 60068-2-3

Level 2 IEC 60664-1

Pollution degree

Relative humidity

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	3606480167249
Returnability	Yes
Country of origin	ID

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	9.84 in (25.000 cm)
Package 1 Width	12.99 in (33.000 cm)
Package 1 Length	16.14 in (41.000 cm)
Package weight(Lbs)	28.096 lb(US) (12.744 kg)
Unit Type of Package 2	P06
Number of Units in Package 2	4
Package 2 Height	29.53 in (75.000 cm)
Package 2 Width	23.62 in (60.000 cm)
Package 2 Length	31.50 in (80.000 cm)
Package 2 Weight	142.137 lb(US) (64.472 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	F0ceff13-4dac-4695-a2e7-71002043e88b
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

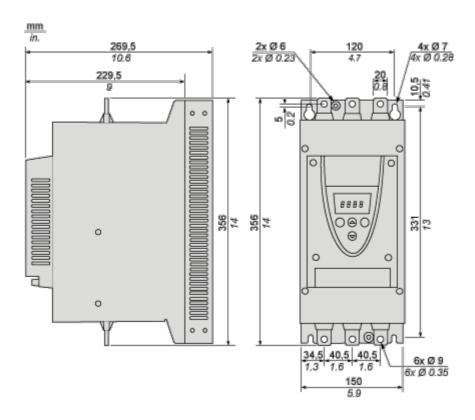
Use Again

○ Repack and remanufacture	
Circularity Profile	End of Life Information
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.

Dimensions Drawings

Frame Size C

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.



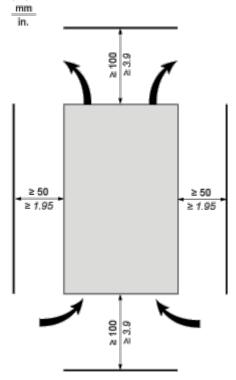
HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

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.



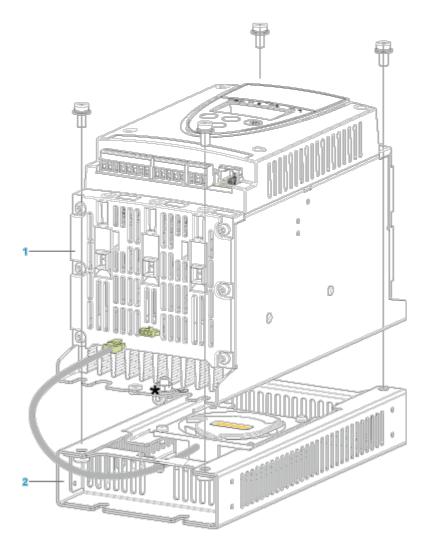
Overheating

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

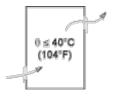
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Wall mounted or Floor-standing Enclosure with IP 23 Degree of protection

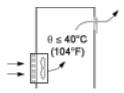
Introduction

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

Ventilation Grilles



Forced Ventilation Unit

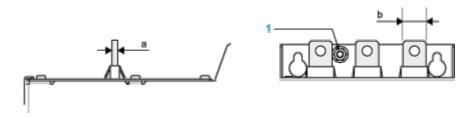


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Connections and Schema

Power Terminal

Bar Style



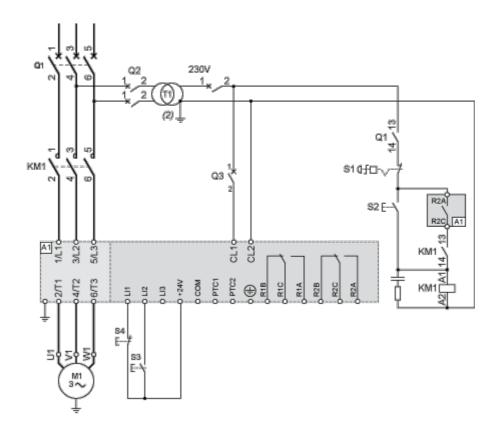
	Bar	b	20 mm (0.79 in)
		a	5 mm (0.2 in)
		Bolt	M8 (0.31 in)
Davier supply and output to mater	Cable and protective cover	Size	95 mm²
Power supply and output to motor		Gauge	250 MCM
		Protective cover	LA9F702
		Tightening torque	18 N.m
			157.5 lb.in

Power connections, minimum required wiring section

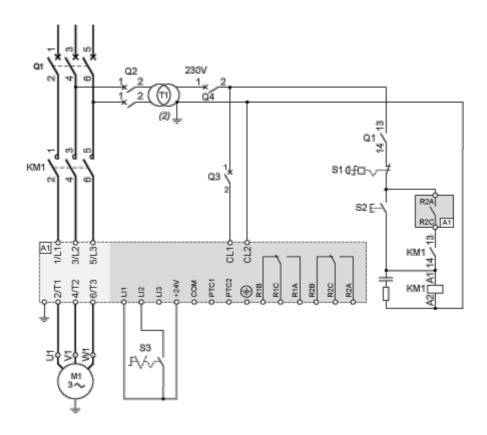
·	•
IEC cable	UL cable
mm² (Cu 70°C/158°F) (1)	AWG (Cu 75°C/167°F) (1)
35	1/0

230 Vac control, logic Inputs (LI) 24 Vdc, 3-wire control

With Line Contactor, Freewheel or Controlled Stop



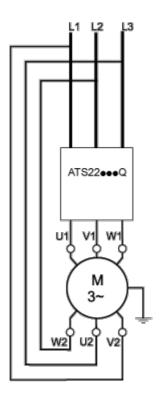
230 Vac control, logic Inputs (LI) 24 Vdc, 2-wire control,freewheel stop

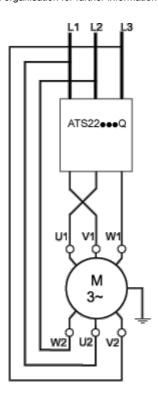


Connection in the motor delta winding in series with each winding

Wiring

ATS22 soft starters connected to motors with the delta connections can be inserted in series in the motor windings. The following wiring requieres particular attention. It is documented in the Altistart 22 Soft start - soft stop unit user manual. Please contact Schneider Electric commercial organisation for further informations.





Example

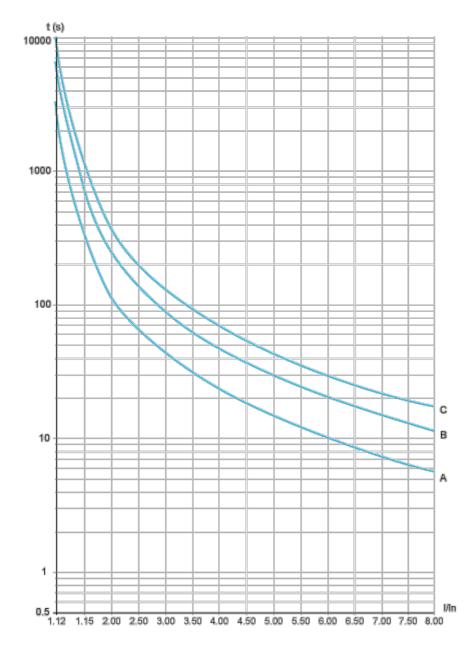
A 400 V - 110 kW motor with a line current of 195 A (nominal current for the delta connection). The current in each winding is equal to 195/1.5 or 130 A. The rating is determined by selecting the soft starter with a permanent nominal current (ICL) just above this current.

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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)



Trip time for a Severe Application (Class 20)

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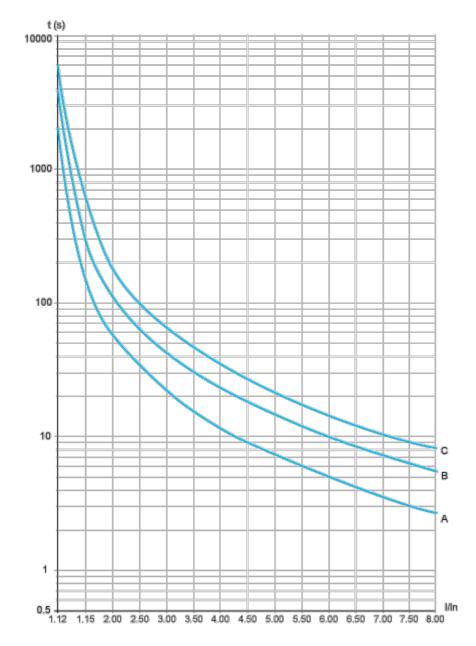
3.5 ln
63 s

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

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32 s

Trip time for a Severe Application (Class 30)

3.5 ln

48 s

Sep 2, 2025

Image of product / Alternate images

Alternative











