Specifications



# soft starter for asynchronous motor, Altistart 22, control 230V, 230 to 440V, 75 to 132kW

ATS22C25Q

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

## Price\*: 3,256.80 USD

## Main

Altistart 22
Soft starter
Asynchronous motors
Pumps and fans
ATS22
3 phase
230440 V - 1510 %
132 kW 400 V 132 kW 440 V 75 kW 230 V
233 A
129 W for standard applications
AC-53A
Start with torque control (current limited to 3.5 In)
250 A connection in the motor supply line for standard applications
IP00

## 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 Icl 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	16.7 in (425 mm)
Width	8.1 in (206 mm)
Depth	11.8 in (299 mm)
Net Weight	72.8 lb(US) (33 kg)
Motor power range AC-3	55100 kW 200240 V 3 phase 110220 kW 380440 V 3 phase
Motor starter type	Soft starter
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 GOST UL CCC CSA
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	3606480211263
Returnability	No
Country of origin	CN

# **Packing Units**

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	19.29 in (49.0 cm)
Package 1 Width	14.45 in (36.7 cm)
Package 1 Length	21.85 in (55.5 cm)
Package 1 Weight	57.87 lb(US) (26.25 kg)
Unit Type of Package 2	P06
Number of Units in Package 2	2
Package 2 Height	30.31 in (77.0 cm)
Package 2 Width	31.50 in (80.0 cm)
Package 2 Length	23.62 in (60.0 cm)
Package 2 Weight	134.5 lb(US) (61.0 kg)

## **Contractual warranty**

Warranty

18 months

## **Sustainability**

**Green Premium<sup>TM</sup> 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-CO<sub>2</sub> 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 >

How we assess product sustainability >

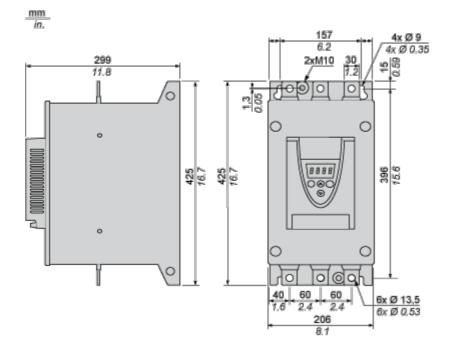
## Well-being performance

Mercury Free	
Rohs Exemption Information	Yes
Pacab Pagulation	
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
Scip Number	74d74380-6cb3-4414-bfb8-7b8212ccd88c

**Dimensions Drawings** 

### Frame Size D

#### 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.

# **DANGER**

## HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

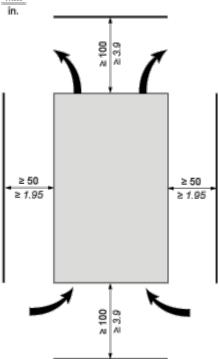
ATS22 soft starters are open devices and must be mounted in a suitable enclosure.

### 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.

mm



#### Overheating

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

- 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

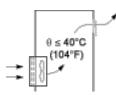
#### Introduction

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

#### **Ventilation Grilles**



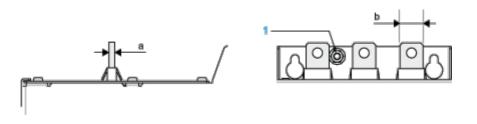
#### **Forced Ventilation Unit**



Connections and Schema

### **Power Terminal**

### Bar Style



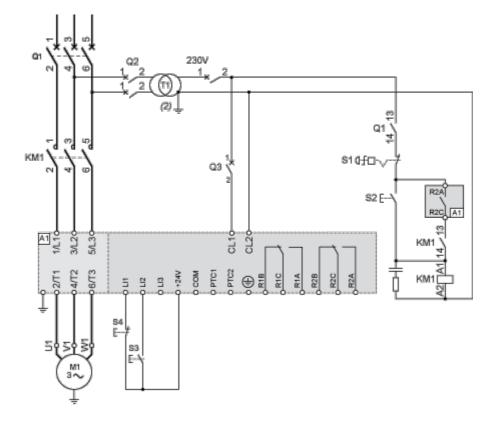
		b	30 mm (1.18 in)
	Bar	а	5 mm (0.2 in)
		Bolt	M12 (0.47 in)
Power supply and output to motor		Size	2X150 mm²
		Gauge	2X250 MCM
	Cable and protective cover	Protective cover	LA9F703
		Tiebłowie o termus	57 N.m
		Tightening torque	498.75 lb.in

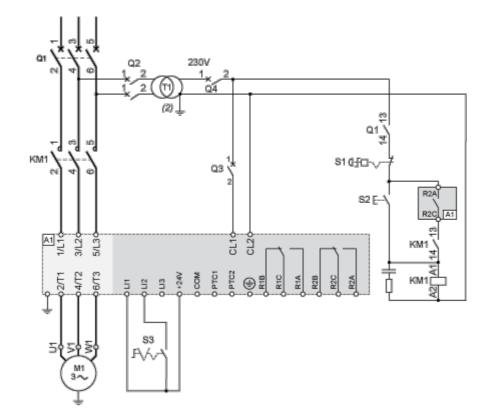
### Power connections, minimum required wiring section

IEC cable	UL cable
mm² (Cu 70°C/158°F) (1)	AWG (Cu 75°C/167°F) (1)
120	350 MCM

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

With Line Contactor, Freewheel or Controlled Stop



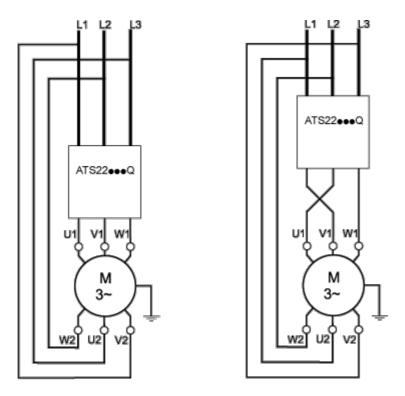


230 Vac control, logic Inputs (LI) 24 Vdc, 2-wire control, freewheel stop

#### 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.



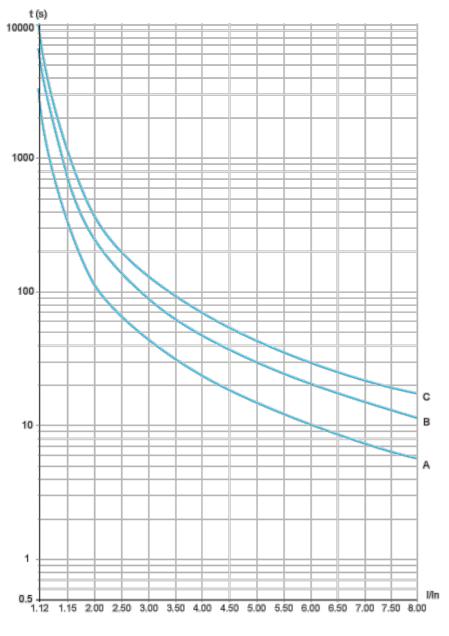
#### Example

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.

### 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)

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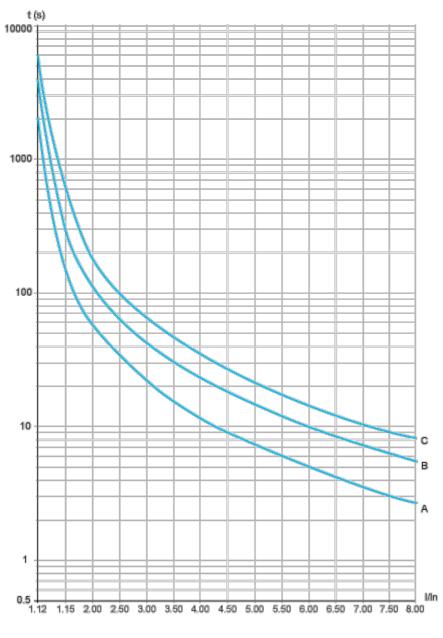


### Trip time for a Severe Application (Class 30)

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



# Trip time for a Severe Application (Class 30)

3.5 ln
48 s

Image of product / Alternate images

### Alternative











