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Product datasheet

Specifications



# Altistart 22, Soft starter, ATS22 control 220V power 230V(7.5kW)/ 400...440V(15kW)

ATS22D32Q

## Main

Range Of Produc	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	230440 V - 1510 %		
Motor Power Kw	15 kW 400 V		
	15 kW 440 V		
	7.5 kW 230 V		
Factory Setting Current	28.5 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 In)		
Icl Starter Rating	32 A for 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 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 4.3 kOhm				
Discrete Input Voltage	24 V <= 30 V				
Discrete Input Logic	Positive logic LI1, LI2, LI3 at State 0: < 5 V and <= 2 mA at State 1: > 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	265 mm				
Width	130 mm				
Depth	169 mm				
Net Weight	7 kg				
Motor Power Range Ac-3	711 kW at 200240 V 3 phases 1525 kW at 380440 V 3 phases				
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				

Relative Humidity 0...95 % without condensation or dripping water conforming to IEC 60068-2-3

1 gn (f= 13...200 Hz) conforming to IEC 60068-2-6 1.5 mm (f= 2...13 Hz) conforming to IEC 60068-2-6

15 gn for 11 ms conforming to IEC 60068-2-27

Level 2 conforming to IEC 60664-1

GOST C-Tick UL CCC CSA

45 dB

**Product Certifications** 

Vibration Resistance

Shock Resistance

Pollution Degree

Noise Level

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	27 cm	
Package 1 Width	22 cm	
Package 1 Length	33.5 cm	
Package 1 Weight	5.6 kg	
Unit Type Of Package 2	P06	
Number Of Units In Package 2	10	
Package 2 Height	73.5 cm	
Package 2 Width	80 cm	
Package 2 Length	60 cm	
Package 2 Weight	69.52 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 >

Guide to assess a product's sustainability >

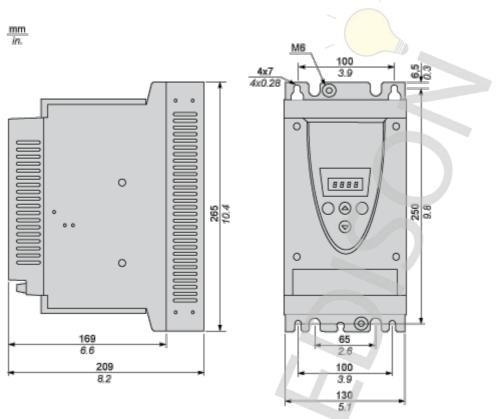
## Well-being performance

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
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

**Dimensions Drawings** 

### Frame Size A

### Dimensions





ATS22D32Q

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.



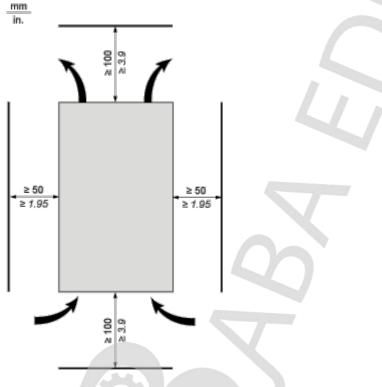
# HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

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.



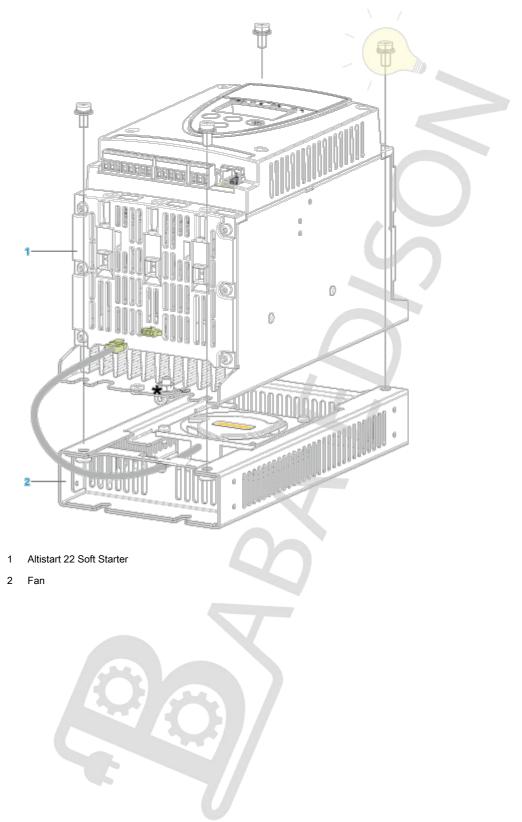
#### Overheating

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

- 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



## ATS22D32Q

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

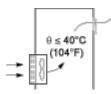
### Introduction

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

### **Ventilation Grilles**



#### **Forced Ventilation Unit**

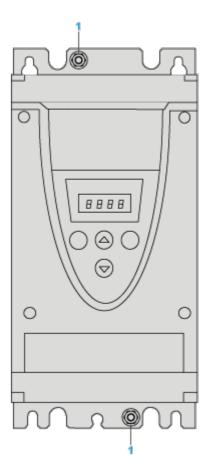


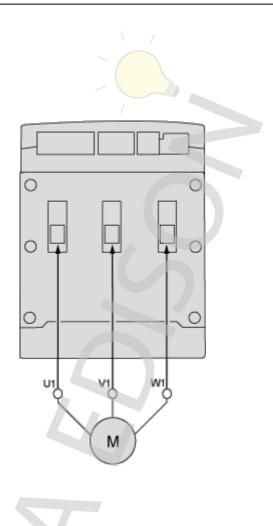
ATS22D32Q

Connections and Schema

### Power Terminal

## Cage Style





1 Ground connection

## Power connections, minimum and maximum wiring capabilities, tightening torque

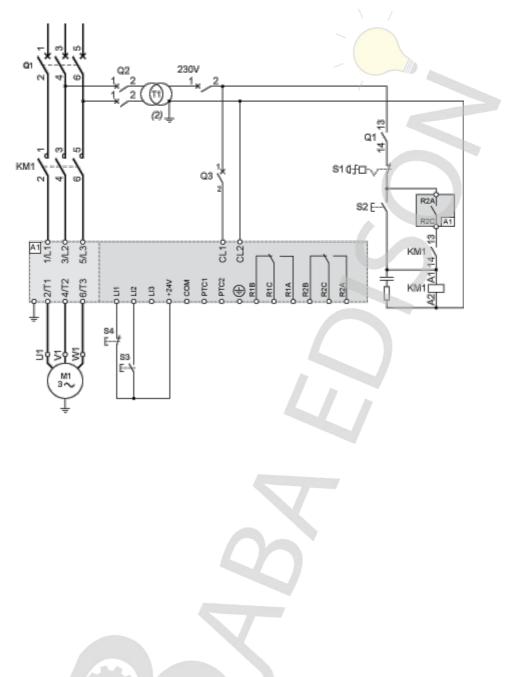
			IEC cable	UL cable
Power supply and output to motor	Size/gauge	min	2.5 mm	12 AWG
		max	16 mm	4 AWG
	Tightening torque	min	3 N.m	26.25 lb.in
		max	3 N.m	26.25 lb.in
	Strip length		10 mm	0.4 in.

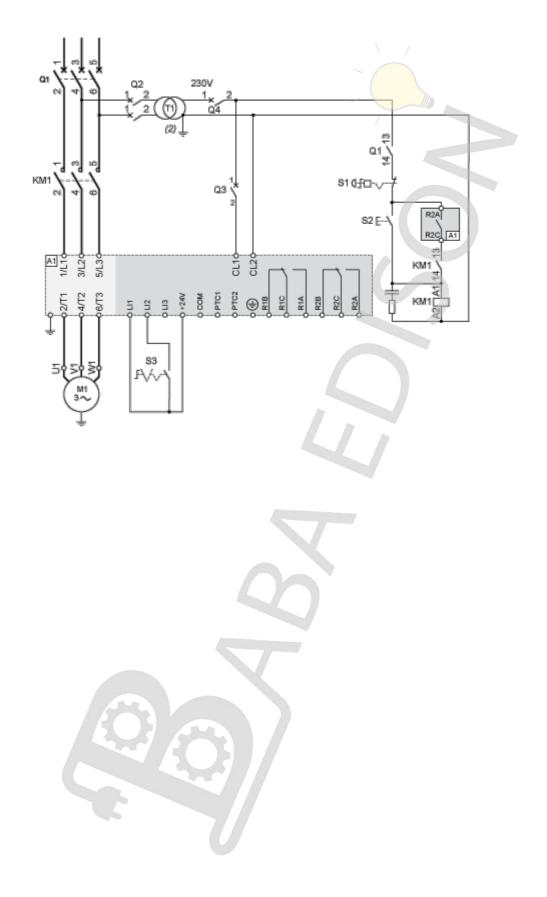
### Power connections, minimum required wiring section

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

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

With Line Contactor, Freewheel or Controlled Stop



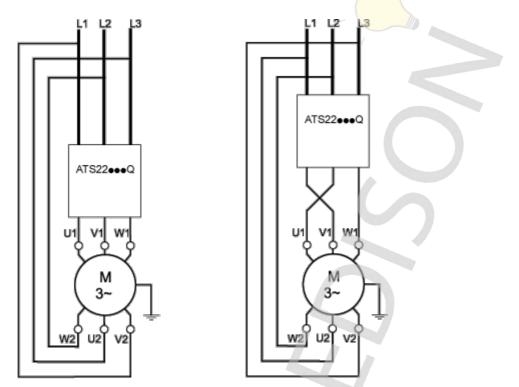


230 Vac control, logic Inputs (LI) 24 Vdc, 2-wire control, freewheel stop

#### 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.

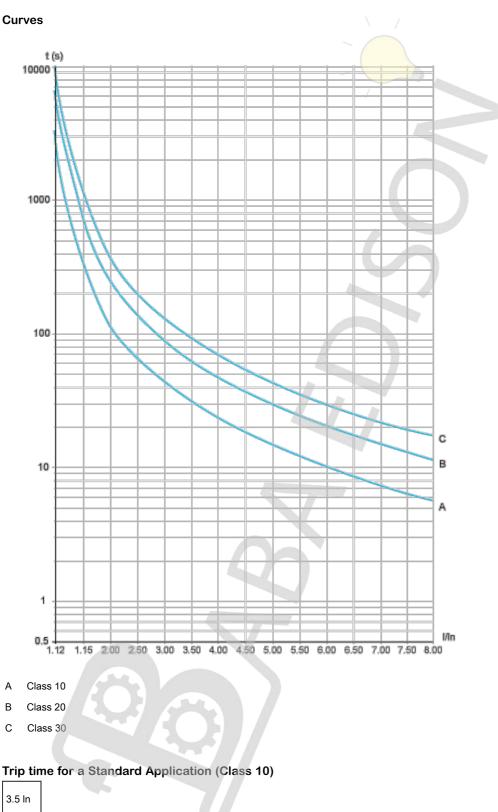


#### Example

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



## Trip time for a Severe Application (Class 20)

ATS22D32Q

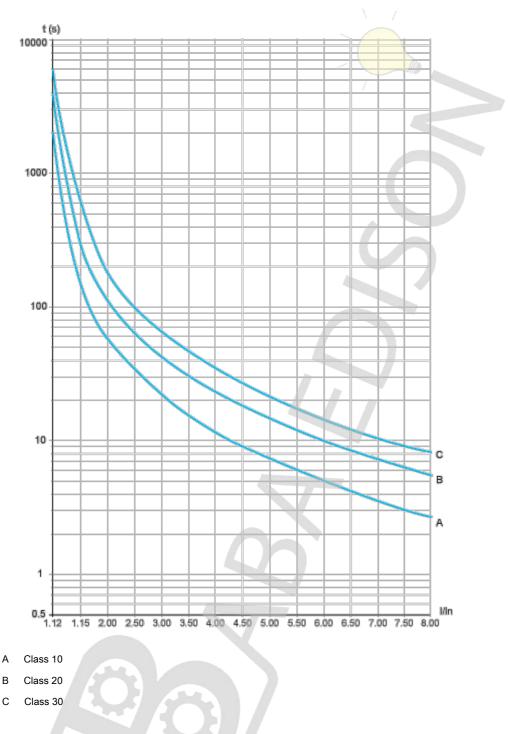
3.5 ln	
63 s	

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

3.5 ln
95 s

### Motor Thermal Protection - Warm Curves

#### Curves



### Trip time for a Standard Application (Class 10)

3.5 ln 16 s

## Trip time for a Severe Application (Class 20)

3.5 ln

32 s

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

3.5 ln	
48 s	

