## ATS22C25S6U ATS22 - control 110 V - power 208 V (75hp)





#### Main

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Main		US C
Range of product	Altistart 22	
Product or component type	Soft starter	for st
Product destination	Asynchronous motors	
Product specific application	Pumps and fans	
Component name	ATS22	
Network number of phases	3 phases	it v
[Us] rated supply voltage	208600 V - 1510 %	
Motor power hp	100 hp 230 V	
	200 hp 460 V	
	250 hp 575 V	
	75 hp 208 V	
Factory setting current	240 A	
Power dissipation in W	129 W for standard applications	
Utilisation category	AC-53A	
Type of start	Start with torque control (current limited to 3.5 In)	
IcL starter rating	250 A connection in the motor supply line for standard applications	is not to be used for determining suitability or reliability of these products for specific user applications
IP degree of protection	IP00	
		7

### Complementary

IcL starter rating	250 A connection in the motor supply line for standard applications	not to
IP degree of protection	IP00	.0.
		or and
Complementary		substitute for
Assembly style	With heat sink	
Function available	Internal bypass	
Supply voltage limits	177660 V	habu
Supply frequency	5060 Hz - 1010 %	not intendec
Network frequency	4566 Hz	0
Device connection	In the motor supply line	tation
[Uc] control circuit voltage	110 V -1510 % 50/60 Hz	documentation
Control circuit consumption	20 W	
Discrete output number	2	siq
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	Disclaimer



Minimum switching current	100 mA 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	Logic LI1, LI2, LI3 5 mA 20 kOhm
Discrete input voltage	110 V <= 121 V
Discrete input logic	Positive logic LI1, LI2, LI3 < 20 V and <= 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 Thermal protection starter Thermal protection motor
Marking	CE
Type of cooling	Forced convection
Operating position	Vertical +/- 10 degree
Height	425 mm
Width	206 mm
Depth	299 mm
Product weight	33 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	EN/IEC 60947-4-2	
Product certifications	CCC CSA C-Tick GOST UL	
Vibration resistance	1.5 mm 213 Hz EN/IEC 60068-2-6 1 gn 13200 Hz EN/IEC 60068-2-6	
Shock resistance	15 gn 11 ms EN/IEC 60068-2-27	-
Noise level	56 dB	
Pollution degree	Level 2 IEC 60664-1	-
Relative humidity	095 % without condensation or dripping water EN/IEC 60068-2-3	-
Ambient air temperature for operation	-1040 °C without derating > 40< 60 °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	

## Offer Sustainability

Oner Oustainability	
Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0939 - Schneider Electric declaration of conformity
	Schneider Electric declaration of conformity

REACh Reference not containing SVHC above the threshold	
	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available

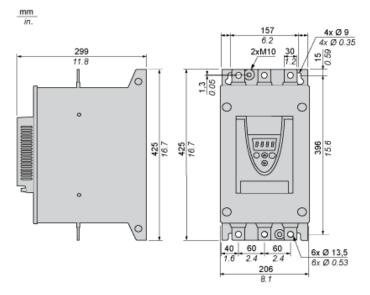
#### Contractual warranty

Warranty period

18 months

### Frame Size D

#### Dimensions



#### 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

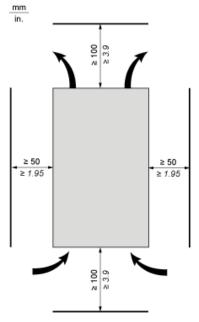
HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

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.



#### 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
- 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 address the starter can add

## 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



Product datasheet Connections and Schema

## ATS22C25S6U

### **Power Terminal**

### Bar Style

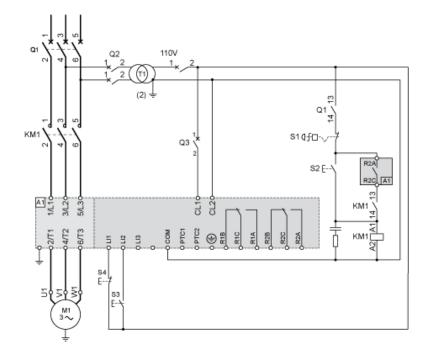


Power supply and output to motor	Bar	b	30 mm (1.18 in)
а	5 mm (0.2 in)		
Bolt	M12 (0.47 in)		
Cable and protective cover	Size	2X150 mm <sup>2</sup>	
Gauge	2X250 MCM		
Protective cover	LA9F703		
Tightening torque	57 N.m	_	
498.75 lb.in		-	

### Power connections, minimum required wiring section

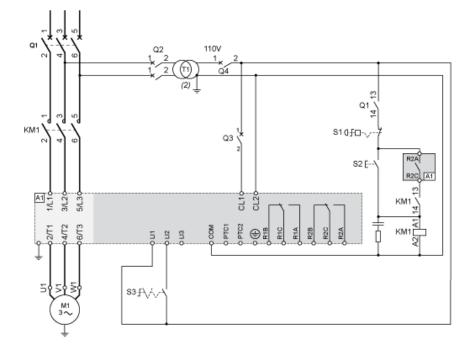
IEC cable	UL cable
mm² (Cu 70°C/158°F) (1)	AWG (Cu 75°C/167°F) (1)
120	350 MCM

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

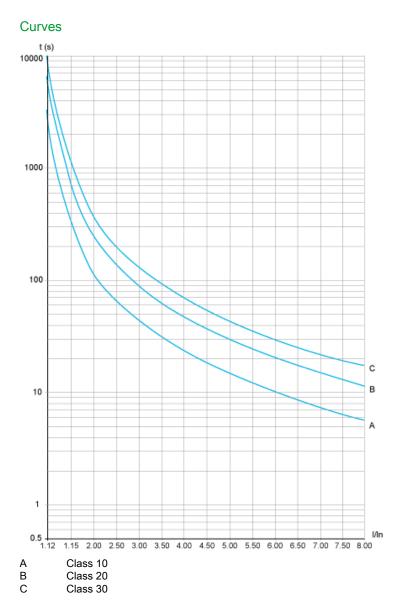


**Connections and Schema** 





### Motor Thermal Protection - Cold Curves



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

3.5 ln	
32 s	

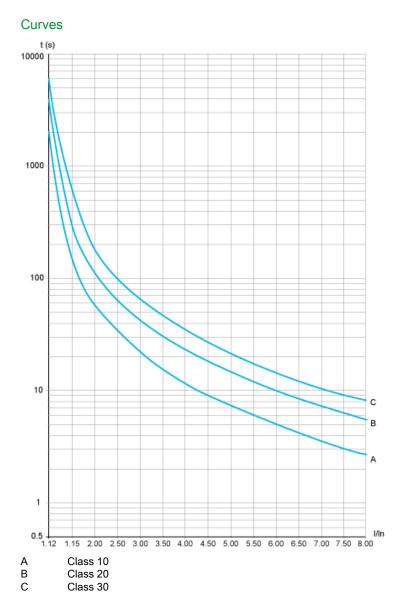
### Trip time for a Severe Application (Class 20)

3.5 ln	
63 s	

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

3.5 ln	
95 s	

### Motor Thermal Protection - Warm 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	