# Product data sheet Characteristics

# ATS22C21S6U softstarter-ATS22-control110Vpower208V(60hp)/230V(75hp)/460V(150hp)/575V(200hp





#### Main

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         Network number of phases       3 phases         [Us] rated supply voltage       208600 V - 1510 %         Motor power hp       150 hp 460 V         200 hp 575 V       60 hp 208 V         75 hp 230 V       Factory setting current         Factory setting current       180 A         Power dissipation in W       117 W for standard applications         Utilisation category       AC-53A         Type of start       Start with torque control (current limited to 3.5 ln)         IcL starter rating       210 A connection in the motor supply line for standard applications         IP degree of protection       IP00			not to be used for determining suttability of these products for specific user applications
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	IP degree of protection	IP00	for and is

## Complementary

IF degree of protection	IFUU	
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	
Control circuit voltage	110 V -1510 % 50/60 Hz	
Control circuit consumption	20 W	i
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
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 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 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	C-Tick GOST UL CSA CCC
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	<= 95 % 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

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 environmental
Product end of life instructions	Available
	🛃 End of life manual

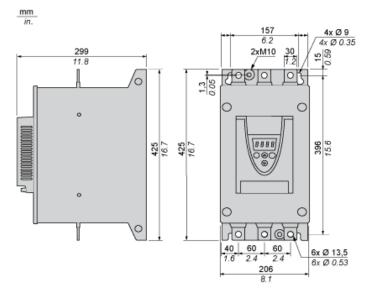
## Contractual warranty

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

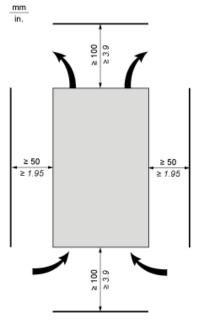
HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

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 data sheet **Connections and Schema** 

# ATS22C21S6U

### **Power Terminal**

## Bar Style

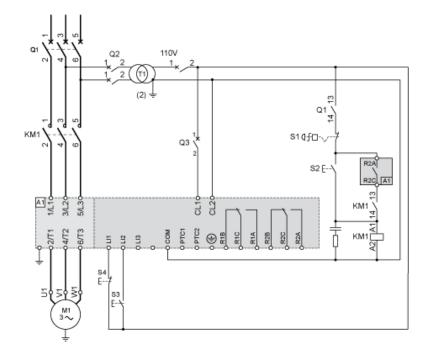


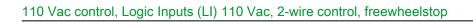
Power supply and output to motor	Bar	b	30 mm (1.18 in)
а	5 mm (0.2 in)		
Bolt	M12 (0.47 in)		
Cable and protective cover	Size	2 X 150 mm <sup>2</sup>	
Gauge	2 X 250 MCM		
Protective cover	LA9F703		
Tightening torque	57 N.m		
498.75 lb.in			

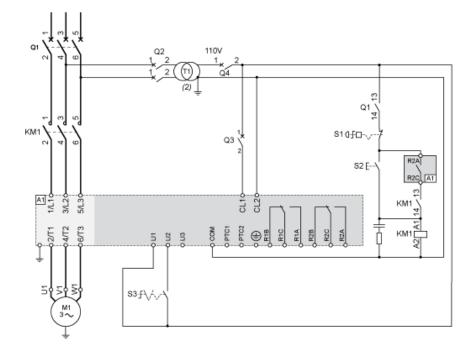
## Power connections, minimum required wiring section

IEC cable	UL cable
mm² (Cu 70°C/158°F) (1)	AWG (Cu 75°C/167°F) (1)
95	300 MCM

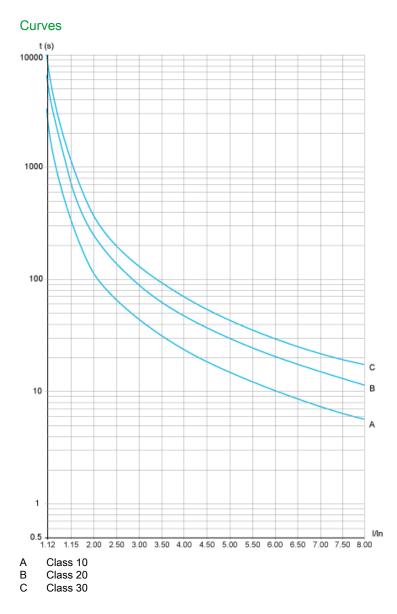
# 110 Vac control, Logic Inputs (LI) 110 Vac, 3-wire control







### Motor Thermal Protection - Cold Curves



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

3.5 ln	
32 s	

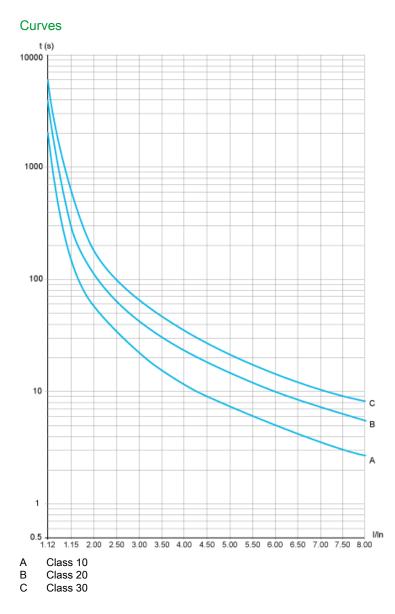
## Trip time for a Severe Application (Class 20)

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	