## Product data sheet Characteristics

# ATS22C17S6U softstarter-ATS22-control110Vpower208V(50hp)/230V(60hp)/460V(125hp)/575V(150hp





#### Main

		r applications
Main		specific use
Range of product	Altistart 22	e for s
Product or component type	Soft starter	dd ucts
Product destination	Asynchronous motors	
Product specific application	Pumps and fans	f these
Component name	ATS22	o mility
Network number of phases	3 phases	reliab
[Us] rated supply voltage	208600 V - 1510 %	tv or
Motor power hp	125 hp 460 V 150 hp 575 V 50 hp 208 V 60 hp 230 V	not to be used for determining suitability of these products for specific user applications
Factory setting current	156 A	r dete
Power dissipation in W	91 W for standard applications	ed fo
Utilisation category	AC-53A	pe us
Type of start	Start with torque control (current limited to 3.5 In)	ot to
IcL starter rating	170 A connection in the motor supply line for standard applications	ם מ. ס
IP degree of protection	IP00	for and is

### Complementary

IF degree of protection	IFUU	, i i i i i i i i i i i i i i i i i i i
Complementary		
Assembly style	With heat sink	  
Function available	Internal bypass	
Supply voltage limits	177660 V	<u>.</u>
Supply frequency	5060 Hz - 1010 %	۱ ۵. ۲
Network frequency	4566 Hz	C
Device connection	In the motor supply line	
[Uc] control circuit voltage	110 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
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	356 mm
Width	150 mm
Depth	229.5 mm
Product weight	18 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 UL CSA GOST 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	

### 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

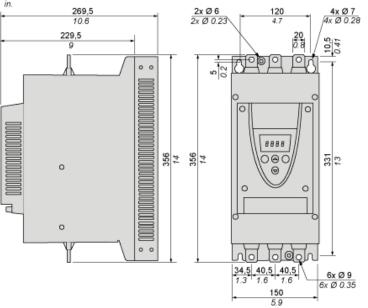
# Product data sheet Dimensions Drawings

# ATS22C17S6U

### Frame Size C

#### 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

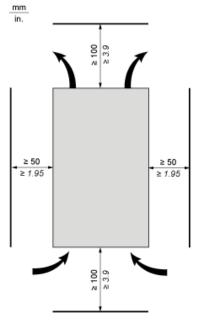
HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

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

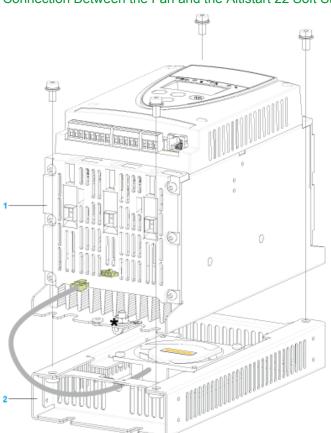
To avoid the soft starter to overheat, respect the following recommendations:

- 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

Product data sheet Mounting and Clearance

# ATS22C17S6U

### Mounting



1 Altistart 22 Soft Starter

2 Fan

# Connection Between the Fan and the Altistart 22 Soft Starter

Product data sheet Mounting and Clearance

# ATS22C17S6U

### 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**



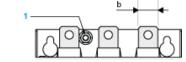
Forced Ventilation Unit



### **Power Terminal**

### Bar Style



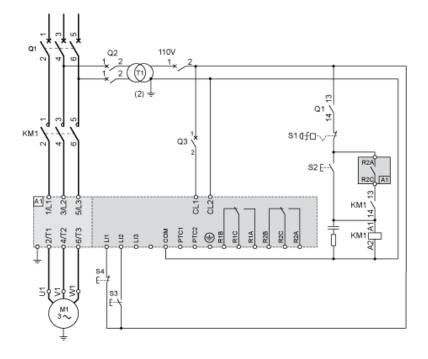


Power supply and output to motor	Bar	b	20 mm (0.79 in)
а	5 mm (0.2 in)		
Bolt	M8 (0.31 in)		
Cable and protective cover	Size	95 mm²	
Gauge	250 MCM		-
Protective cover	LA9F702		
Tightening torque	18 N.m		
157.5 lb.in		-	

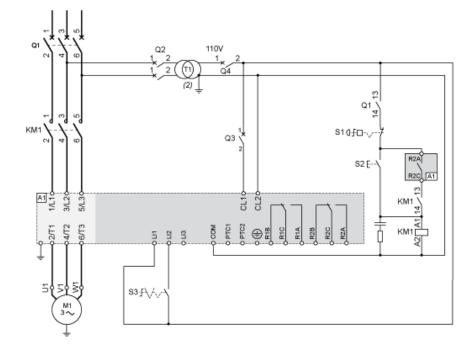
#### Power connections, minimum required wiring section

IEC cable	UL cable
mm² (Cu 70°C/158°F) (1)	AWG (Cu 75°C/167°F) (1)
70	4/0

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



110 Vac control, Logic Inputs (LI) 110 Vac, 2-wire control, freewheelstop



### Motor Thermal Protection - Cold Curves

# Curves t (s) 10000 1000 100 с в 10 А 1 l/In 0.5 1.12 1.15 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 А Class 10 В Class 20 С Class 30

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

3.5 ln	
32 s	

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

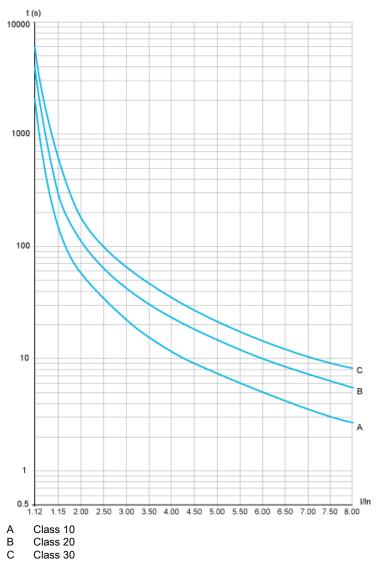
3.5 ln		
63 s		

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

3.5 ln 95 s

### Motor Thermal Protection - Warm Curves

#### 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