Product data sheet Characteristics

ATS22C11S6 soft starter-ATS22-control 220V-power 230V(30kW)/400...440V(55kW)/500V(75kW)

Green Premium'



Main

		specific user applications
Main		specific L
Range of product	Altistart 22	s for s
Product or component type	Soft starter	duct
Product destination	Asynchronous motors	se pro
Product specific application	Pumps and fans	of the
Component name	ATS22	oility c
Network number of phases	3 phases	reliat
[Us] rated supply voltage	230600 V - 1510 %	ity or
Motor power kW	30 kW 230 V 55 kW 400 V 55 kW 440 V 75 kW 500 V	not to be used for determining suitability or reliability of these products for
Factory setting current	96 A	r dete
Power dissipation in W	73 W for standard applications	ed fo
Utilisation category	AC-53A	sn eq
Type of start	Start with torque control (current limited to 3.5 In)	lot to
IcL starter rating	110 A connection in the motor supply line for standard applications	r
IP degree of protection	IP20	for and is

Complementary

Utilisation category	AC-53A		
Type of start	Start with torque control (current limited to 3.5 In)		
IcL starter rating	110 A 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	195660 V		
Supply frequency	5060 Hz - 1010 %		
Network frequency	4566 Hz		
Device connection	In the motor supply line		
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
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 4.3 kOhm
Discrete input voltage	24 V <= 30 V
Discrete input logic	Positive logic LI1, LI2, LI3 < 5 V and <= 2 mA > 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 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
Motor power range AC-3	3050 kW 200240 V 3 phases 55100 kW 380440 V 3 phases 55100 kW 480500 V 3 phases
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	EN/IEC 60947-4-2
Product certifications	CCC CSA C-Tick UL GOST
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 0938 - 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	<u> </u>
	🛃 End of life manual	

Contractual warranty Warranty period 18 months

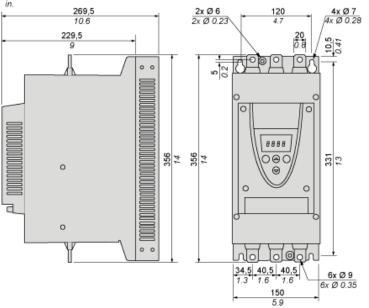
Product data sheet Dimensions Drawings

ATS22C11S6

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

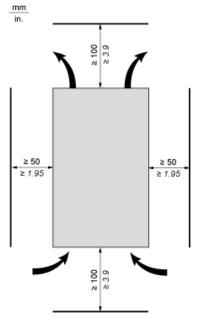
HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

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

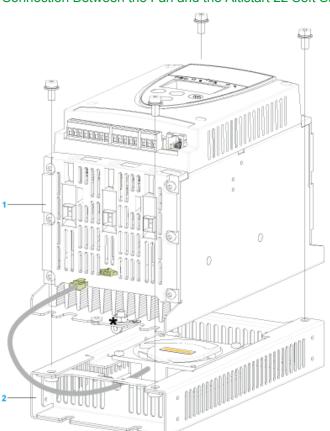
To avoid the soft starter to overheat, respect the following recommendations:

- 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

ATS22C11S6

Mounting



1 Altistart 22 Soft Starter

2 Fan

Connection Between the Fan and the Altistart 22 Soft Starter

Product data sheet Mounting and Clearance

ATS22C11S6

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



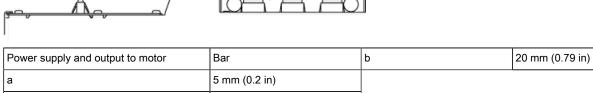
Forced Ventilation Unit



Power Terminal

Bar Style



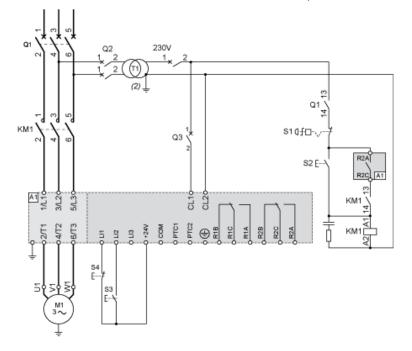


		~	
а	5 mm (0.2 in)		
Bolt	M8 (0.31 in)		
Cable and protective cover	Size	95 mm²	
Gauge	250 MCM		
Protective cover	LA9F702		
Tightening torque	18 N.m		
157.5 lb.in		-	
•	_		

Power connections, minimum required wiring section

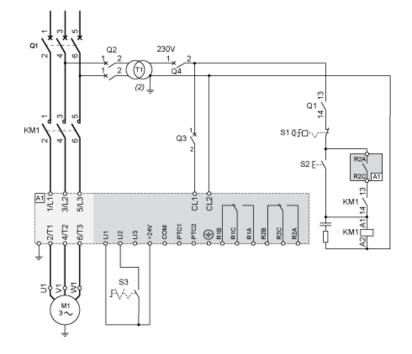
IEC cable	UL cable
mm² (Cu 70°C/158°F) (1)	AWG (Cu 75°C/167°F) (1)
35	1/0

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



10

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)

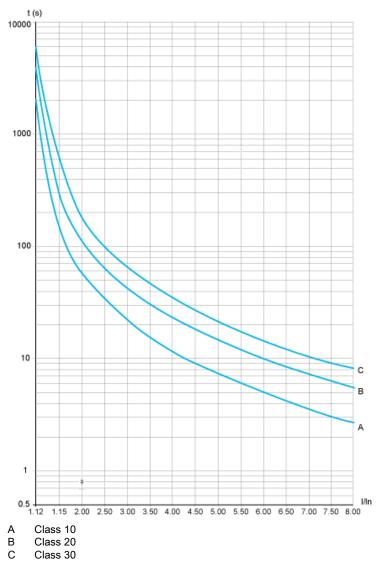
3.5 ln		
63 s		

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