Product data sheet Characteristics

ATS22C25S6

soft starter-ATS22-control 220V-power 230V(75kW)/400...440V(132kW)/500V(160kW)





Main

IVIAIII		
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	230600 V - 1510 %	
Motor power kW	132 kW 400 V 132 kW 440 V 160 kW 500 V 75 kW 230 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 ln)	
IcL starter rating	250 A connection in the motor supply line for standard applications	
IP degree of protection	IP00	

Complementary

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	230600 V - 1510 %	
Motor power kW	132 kW 400 V 132 kW 440 V 160 kW 500 V 75 kW 230 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 ln)	
IcL starter rating	250 A connection in the motor supply line for standard applications	
IP degree of protection	IP00	
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	
[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 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	425 mm	
Width	206 mm	
Depth	299 mm	
Product weight	33 kg	
Motor power range AC-3	55100 kW at 200240 V 3 phases 110220 kW at 380440 V 3 phases 110220 kW at 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	
	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

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		
	End of Life Information		
Product end of life instructions	Available		

Contractual warranty

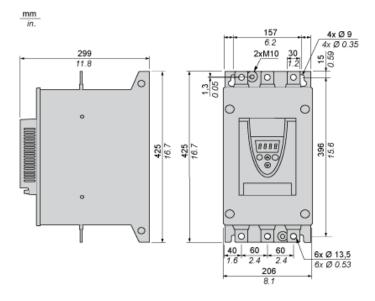
			_
Warranty period	18 months		

Product data sheet ATS22C25S6

Dimensions Drawings

Frame Size D

Dimensions



ATS22C25S6

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

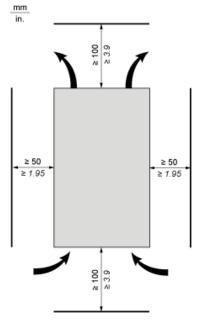
HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

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 as

Product data sheet Mounting and Clearance

ATS22C25S6

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

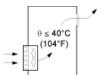
Introduction

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

Ventilation Grilles



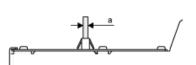
Forced Ventilation Unit

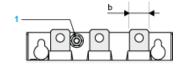


ATS22C25S6

Power Terminal

Bar Style



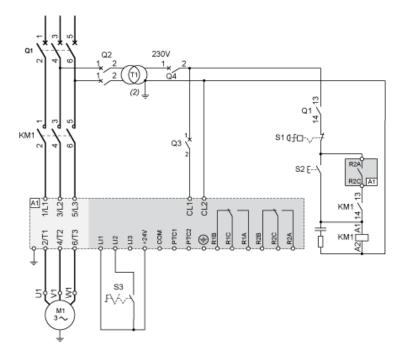


ower supply and output to motor Bar		b	30 mm (1.18 in)
		а	5 mm (0.2 in)
		Bolt	M12 (0.47 in)
	Cable and protective cover	Size	2X150 mm²
		Gauge	2X250 MCM
		Protective cover	LA9F703
		Tightening torque	57 N.m
			498.75 lb.in

Power connections, minimum required wiring section

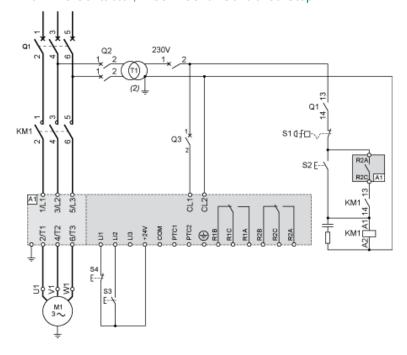
IEC cable	UL cable
mm² (Cu 70°C/158°F) (1)	AWG (Cu 75°C/167°F) (1)
120	350 MCM

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



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

With Line Contactor, Freewheel or Controlled Stop

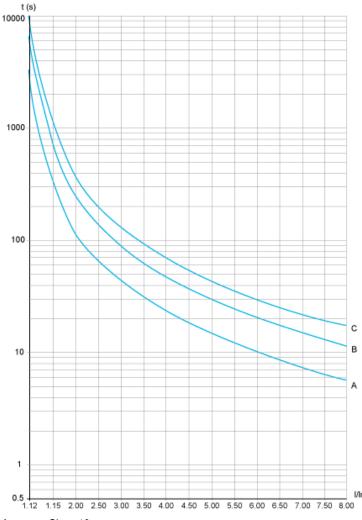


Product data sheet Performance Curves

ATS22C25S6

Motor Thermal Protection - Cold Curves

Curves



A Class 10 B Class 20 C 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)

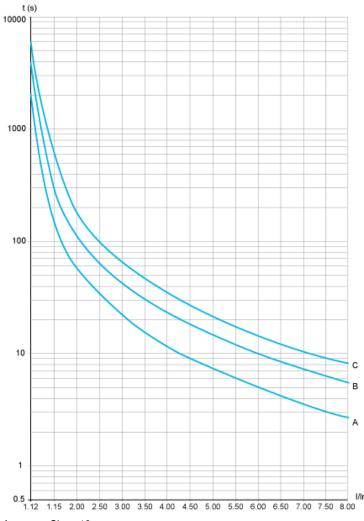
3.5 ln		
95 s		

Product data sheet Performance Curves

ATS22C25S6

Motor Thermal Protection - Warm Curves

Curves



A Class 10 B Class 20 C Class 30

Trip time for a Standard Application (Class 10)

3.5 ln 16 s

32 s

Trip time for a Severe Application (Class 20)

3.5 ln

Trip time for a Severe Application (Class 30)

3.5 ln	
48 s	