Product data sheet Characteristics

ATS22D32S6U

softstarter-ATS22-control110V-power 208V(7.5hp)/230V(10hp)/460V(20hp)/575V(25hp)





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	208600 V - 1510 %		
Motor power hp	20 hp 460 V 25 hp 575 V 10 hp 230 V 7.5 hp 208 V		
Factory setting current	27 A		
Power dissipation in W	44 W for standard applications		
Utilisation category	AC-53A		
Type of start	Start with torque control (current limited to 3.5 ln)		
IcL starter rating	32 A connection in the motor supply line for standard applications		
IP degree of protection	IP20		

Complementary

Company of the compan		
277 277		
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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	
[Uc] control circuit voltage	110 V -1510 % 50/60 Hz	
Control circuit consumption	20 W	
Discrete output number	2	
May 0, 2040		

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 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	265 mm		
Width	130 mm		
Depth	169 mm		
Product weight	7 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	45 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

Marian Caracteria Caracteria	40 months
Contractual warranty	
Product end of life instructions	Available
Product environmental profile	Available
	Reference not containing SVHC above the threshold
REACh	Reference not containing SVHC above the threshold

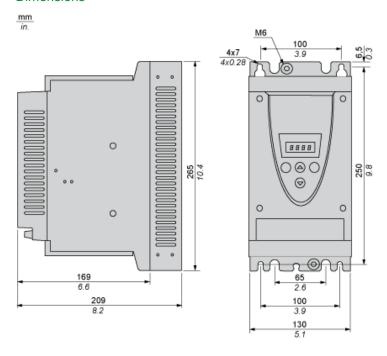
Warranty period	18 months

Product data sheet Dimensions Drawings

ATS22D32S6U

Frame Size A

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

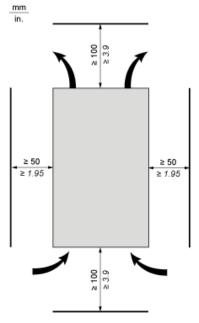
HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

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.



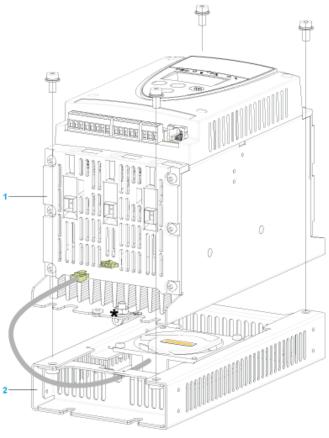
Overheating

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 as

Mounting

Connection Between the Fan and the Altistart 22 Soft Starter



- 1 2 Altistart 22 Soft Starter

Product data sheet Mounting and Clearance

ATS22D32S6U

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

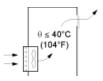
Introduction

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

Ventilation Grilles

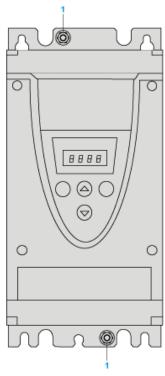


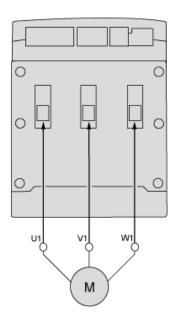
Forced Ventilation Unit



Power Terminal

Cage Style





1 Ground connection

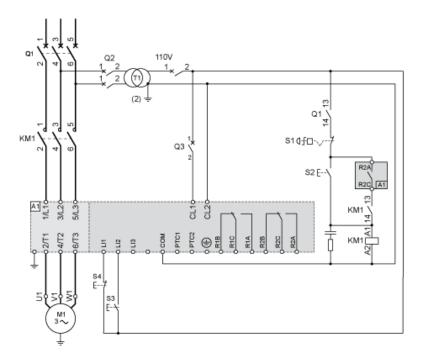
Power connections, minimum and maximum wiring capabilities, tightening torque

			IEC cable	UL cable
Power supply and output to motor	Size/gauge	min	2.5 mm	12 AWG
		max	16 mm	4 AWG
	Tightening torque	min	3 N.m	26.25 lb.in
		max	3 N.m	26.25 lb.in
	Strip length		10 mm	0.4 in.

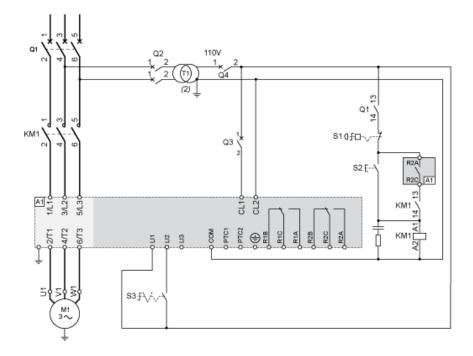
Power connections, minimum required wiring section

IEC cable	UL cable
mm² (Cu 70°C/158°F) (1)	AWG (Cu 75°C/167°F) (1)
6	8

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

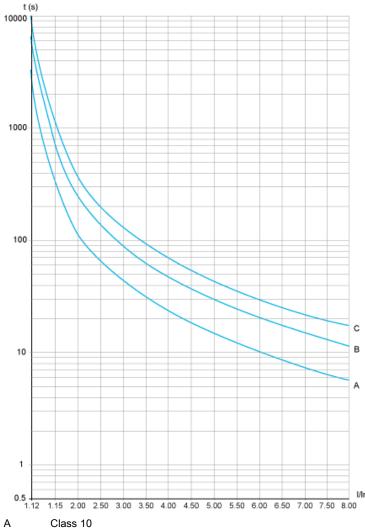


110 Vac control, Logic Inputs (LI) 110 Vac, 2-wire control, freewheelstop



Motor Thermal Protection - Cold Curves

Curves



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)

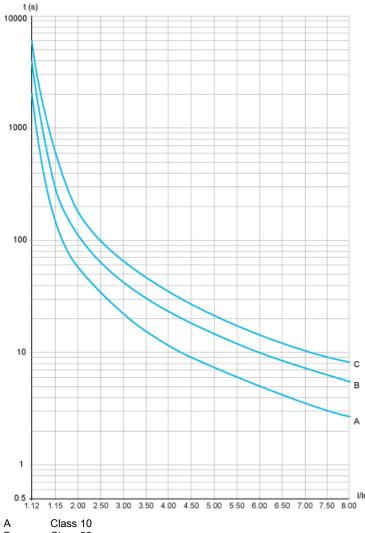
3.5 ln 63 s

Trip time for a Severe Application (Class 30)

3.5 ln	
95 s	

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

Trip time for a Severe Application (Class 20)

3.5 ln

32 s

Trip time for a Severe Application (Class 30)

	 `	<u>′</u>
3.5 ln		
48 s		