Product data sheet Characteristics

ATS22D62S6

soft starter-ATS22-control 220V-power 230V(15kW)/400...440V(30kW)/500V(37kW)





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	<u>.</u>		
[Us] rated supply voltage	230600 V - 1510 %			
Motor power kW	15 kW 230 V 30 kW 400 V 30 kW 440 V 37 kW 500 V			
Factory setting current	52 A			
Power dissipation in W	59 W for standard applications			
Utilisation category	AC-53A			
Type of start	Start with torque control (current limited to 3.5 ln)			
IcL starter rating	62 A connection in the motor supply line for standard applications			
IP degree of protection	IP20			

Complementary

A 10 0 07 0 07					
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	15 kW 230 V 30 kW 400 V 30 kW 440 V 37 kW 500 V				
Factory setting current	52 A				
Power dissipation in W	59 W for standard applications				
Utilisation category	AC-53A				
Type of start	Start with torque control (current limited to 3.5 ln)				
IcL starter rating	62 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	putput number 2				
May 24, 2017					

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	295 mm		
Width	145 mm		
Depth	207 mm		
Product weight	12 kg		
Motor power range AC-3	1525 kW 200240 V 3 phases 3050 kW 380440 V 3 phases 3050 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	UL		
	CSA		
	CCC		
	C-Tick		
	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	45 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		
	☑ End of life manual		

Contractual warranty

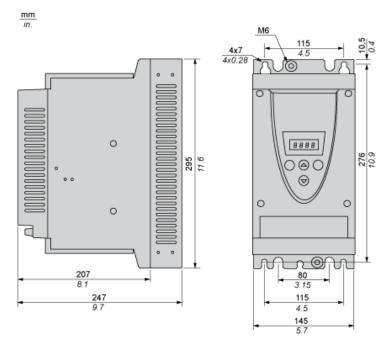
Warranty period	18 months

Product data sheet Dimensions Drawings

ATS22D62S6

Frame Size B

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

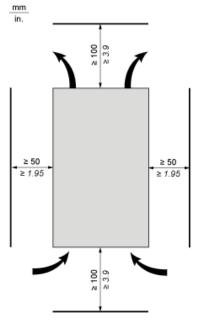
HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

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.



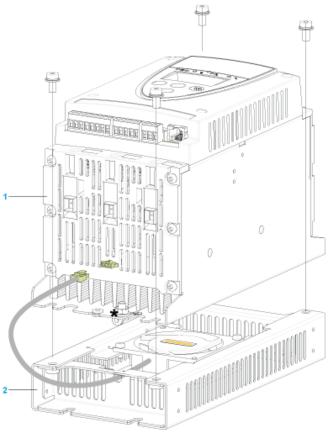
Overheating

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 Altistart 22 Soft Starter
- 2 Fan

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

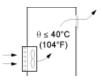
Introduction

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

Ventilation Grilles

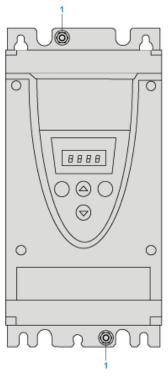


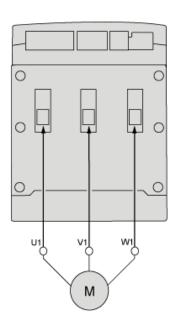
Forced Ventilation Unit



Power Terminal

Cage Style





1 Ground connection

Power connections, minimum and maximum wiring capabilities, tightening torque

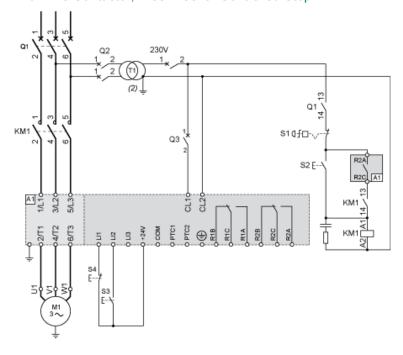
			IEC cable	UL cable
Power supply and output to motor	Size/gauge	min	4 mm (a)	10 AWG (a)
max	50 mm	1/0 AWG		
Tightening torque	min	8 N.m	70 lb.in	
max	8 N.m	70 lb.in		•
Strip length			0.6 in.	

Power connections, minimum required wiring section

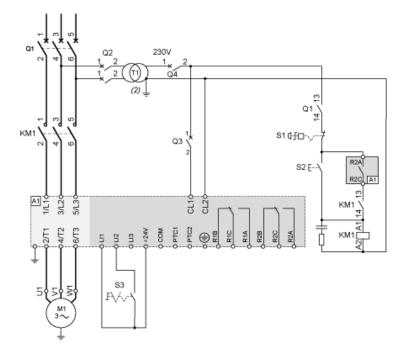
IEC cable	UL cable
mm² (Cu 70°C/158°F) (1)	AWG (Cu 75°C/167°F) (1)
16	4

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

With Line Contactor, Freewheel or Controlled Stop

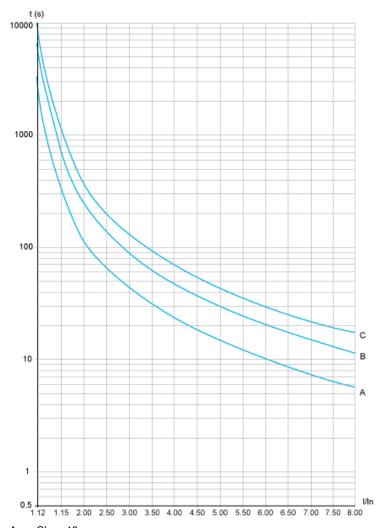


230 Vac control, logic Inputs (LI) 24 Vdc, 2-wire control,freewheel stop



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

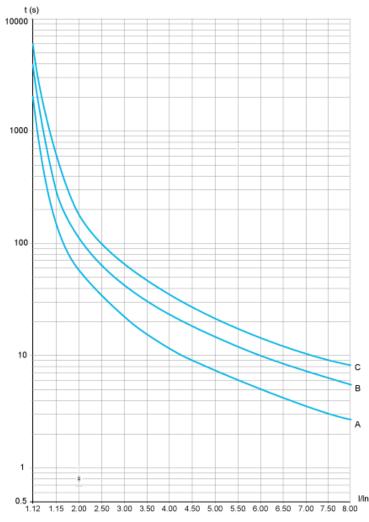
63 s

Trip time for a Severe Application (Class 30)

•	 `	<u> </u>
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>	<u> </u>	`	,
3.5 ln			
48 s			