Specifications



soft starter-ATS22-control 220Vpower 230V(18.5kW)/ 400...440V(37kW)/500V(45kW)

ATS22D75S6

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	37 kW 400 V 37 kW 440 V 18.5 kW 230 V 45 kW 500 V
Factory Setting Current	65 A
Power Dissipation In W	63 W for standard applications
Utilisation Category	AC-53A
Type Of Start	Start with torque control (current limited to 3.5 In)
Icl Starter Rating	75 A for 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	
[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 at 12 V DC (relay outputs)	

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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	(LI1, LI2, LI3) logic, 5 mA 4.3 kOhm	
Discrete Input Voltage	24 V <= 30 V	
Discrete Input Logic	Positive logic LI1, LI2, LI3 at State 0: < 5 V and <= 2 mA at State 1: > 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: motor Thermal protection: starter	
Marking	CE	
Type Of Cooling	Forced convection	
Operating Position	Vertical +/- 10 degree	
Height	295 mm	
Width	145 mm	
Depth	207 mm	
Net Weight	12 kg	
Motor Power Range Ac-3	3050 kW at 480500 V 3 phases 1525 kW at 200240 V 3 phases 3050 kW at 380440 V 3 phases	
Motor Starter Type	Soft starter	

Environment

Electromagnetic Compatibility	Conducted and radiated emissions level A conforming to IEC 60947-4-2 Damped oscillating waves level 3 conforming to IEC 61000-4-12 Electrostatic discharge level 3 conforming to IEC 61000-4-2 Immunity to electrical transients level 4 conforming to IEC 61000-4-4 Immunity to radiated radio-electrical interference level 3 conforming to IEC 61000-4-3 Voltage/current impulse level 3 conforming to IEC 61000-4-5
Standards	IEC 60947-4-2
Product Certifications	UL CCC C-Tick CSA GOST
Vibration Resistance	1 gn (f= 13200 Hz) conforming to IEC 60068-2-6 1.5 mm (f= 213 Hz) conforming to IEC 60068-2-6
Shock Resistance	15 gn for 11 ms conforming to IEC 60068-2-27
Noise Level	45 dB
Pollution Degree	Level 2 conforming to IEC 60664-1

Relative Humidity	095 % without condensation or dripping water conforming to IEC 60068-2-3		
Ambient Air Temperature For Operation	-1040 °C (without derating) 4060 °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		

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	31.0 cm
Package 1 Width	23.0 cm
Package 1 Length	36.0 cm
Package 1 Weight	8.517 kg
Unit Type Of Package 2	P06
Number Of Units In Package 2	6
Package 2 Height	73.5 cm
Package 2 Width	80.0 cm
Package 2 Length	60.0 cm
Package 2 Weight	64.636 kg

Contractual warranty

Warranty

18 months

Sustainability

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

Well-being performance

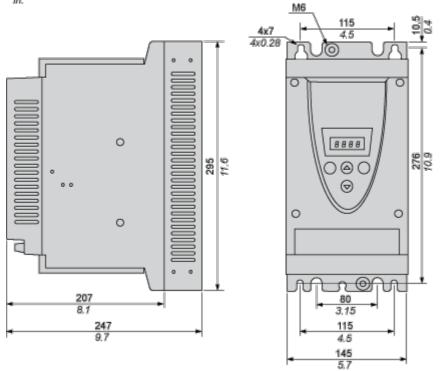
Mercury Free	
Rohs Exemption Information	Yes
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Dimensions Drawings

Frame Size B

Dimensions

<u>mm</u> *in*.



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Mounting and Clearance

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

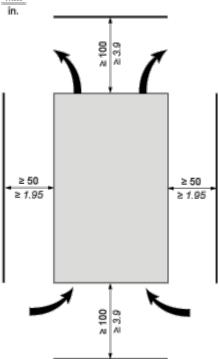
ATS22 soft starters are open devices and must be mounted in a suitable enclosure.

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.

mm



Overheating

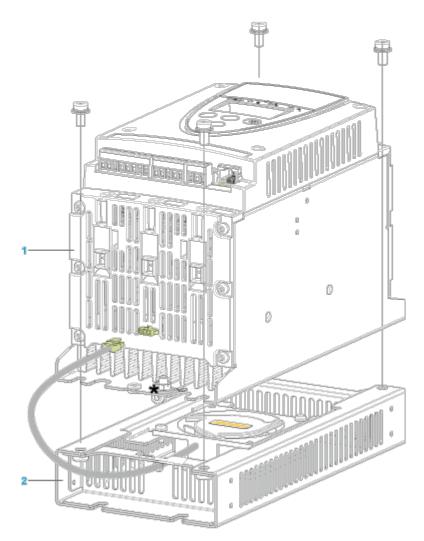
To avoid the soft starter to overheat, respect the following recommendations:

- 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 starter. To help prevent a thermal fault, provide sufficient enclosure cooling and/or ventilation to limit the ambient temperature around the soft starter.
- 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 adversely affect the ambient temperature around the top soft starter.

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Mounting

Connection Between the Fan and the Altistart 22 Soft Starter



- 1 Altistart 22 Soft Starter
- 2 Fan

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

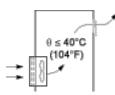
Introduction

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

Ventilation Grilles



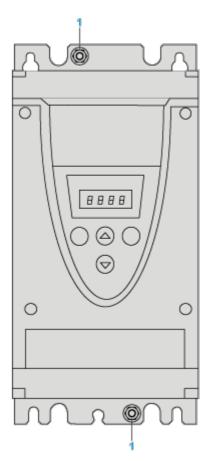
Forced Ventilation Unit

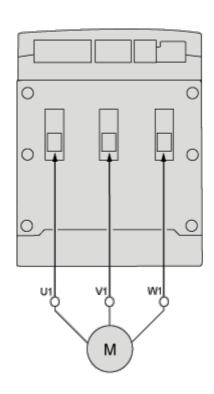


Connections and Schema

Power Terminal

Cage Style





1 Ground connection

Power connections, minimum and maximum wiring capabilities, tightening torque

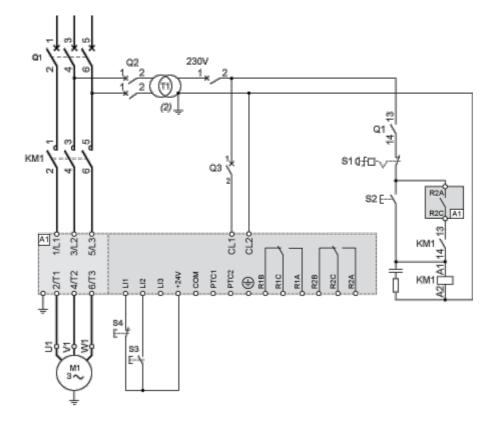
			IEC cable	UL cable
	Size/gauge	min	4 mm (a)	10 AWG (a)
		max	50 mm	1/0 AWG
Power supply and output to motor	Tightening torque	min	8 N.m	70 lb.in
		max	8 N.m	70 lb.in
	Strip length		15 mm	0.6 in.

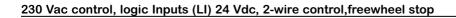
Power connections, minimum required wiring section

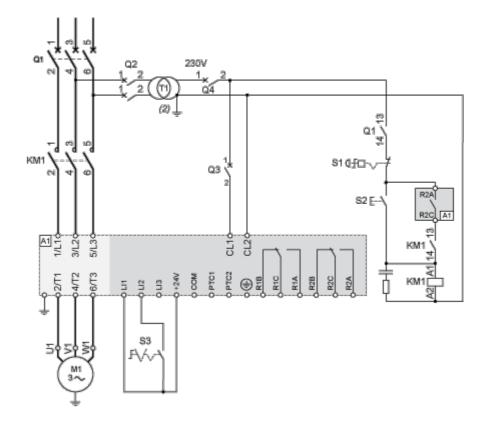
IEC cable	UL cable
mm² (Cu 70°C/158°F) (1)	AWG (Cu 75°C/167°F) (1)
25	3

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

With Line Contactor, Freewheel or Controlled Stop



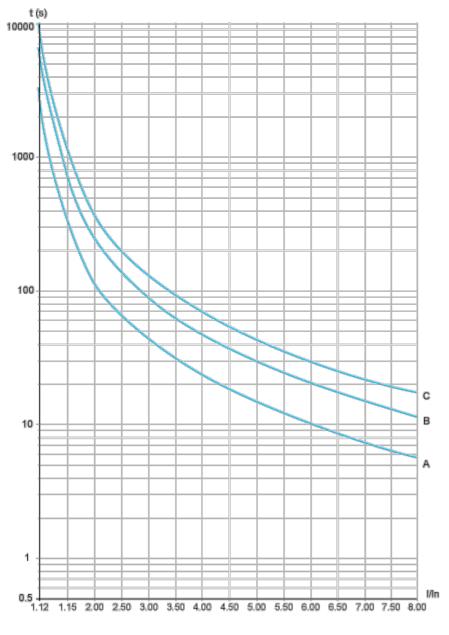




Performance Curves

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)

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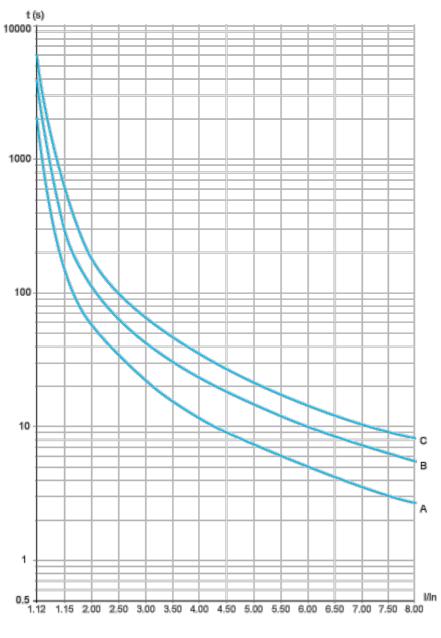
3.5 ln
63 s

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



Trip time for a Severe Application (Class 30)

3.5 ln
48 s