Bảng thông số sản phẩm Đặc diểm

ATS22C48Q

soft starter-ATS22-control 220V-power 230V(132kW)/400...440V(250kW)





Main

MainRange of productAltistart 22Product or component typeSoft starterProduct destinationAsynchronous motorsProduct specific applicationPumps and fansComponent nameATS22Network number of phases3 phases[Us] rated supply voltage230440 V - 1510 %Motor power kW132 kW 230 V 250 kW 400 V 250 kW 440 VFactory setting current437 A	
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Eactory setting current 437 A) standard applications
Power dissipation in W 218 W for standard applications	
Utilisation category AC-53A	
Type of start Start with torque control (current limited to 3.5 In)
IcL starter rating 480 A for 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 195484 V	
Supply frequency 5060 Hz - 1010 %	
Network frequency 4566 Hz	
Device connection In the motor supply line To the motor delta terminals	
[Uc] control circuit voltage 230 V - 1510 % 50/60 Hz	
Control circuit consumption 20 W	
12 05 2024	

Complementary

Assembly style	With heat sink	
Function available	Internal bypass	Ę
Supply voltage limits	195484 V	
Supply frequency	5060 Hz - 1010 %	
Network frequency	4566 Hz	
Device connection	In the motor supply line To the motor delta terminals	년 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
[Uc] control circuit voltage	230 V - 1510 % 50/60 Hz	ت ت ت
Control circuit consumption	20 W	3 2



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)	
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 Icl 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	455 mm	
Width	304 mm	
Depth	339.7 mm	
Net weight	50 kg	
Motor power range AC-3	110220 kW at 200240 V 3 phases 250500 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	

Licenomagnetic compatibility	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	EN/IEC 60947-4-2
Product certifications	GOST CSA UL C-Tick CCC
Vibration resistance	1 gn (f= 13200 Hz) conforming to EN/IEC 60068-2-6 1.5 mm (f= 213 Hz) conforming to EN/IEC 60068-2-6
Shock resistance	15 gn for 11 ms conforming to EN/IEC 60068-2-27
Noise level	56 dB
Pollution degree	Level 2 conforming to IEC 60664-1
Relative humidity	095 % without condensation or dripping water conforming to EN/IEC 60068-2-3
Ambient air temperature for operation	-10…40 °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

Packing Units

Package 1 Weight	40.000 kg	
Package 1 Height	5.450 dm	
Package 1 width	4.000 dm	
Package 1 Length	5.750 dm	

Offer Sustainability

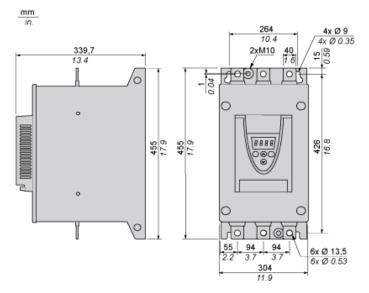
Sustainable offer status	Green Premium product	
REACh Regulation	REACh Declaration	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration	
Mercury free	Yes	
RoHS exemption information	Yes	
China RoHS Regulation	China RoHS declaration	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile End of Life Information		
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins	

Contractual warranty	
Warranty	18 months

Bảng thông số sản phẩm ATS22C48Q Dimensions Drawings

Frame Size E

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

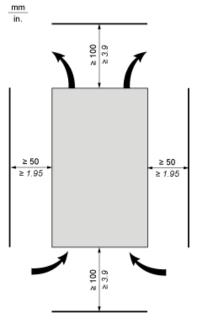
HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

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

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



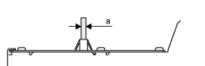
Forced Ventilation Unit

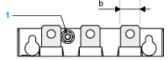


Bảng thông số sản phẩm ATS22C48Q Connections and Schema

Power Terminal

Bar Style



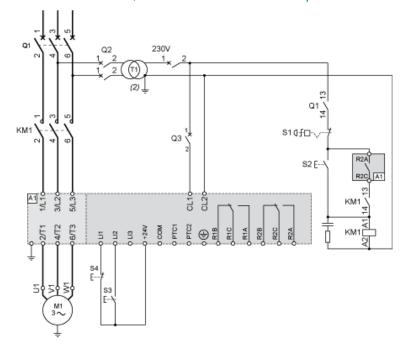


Power supply and output to motor	Bar	b	40 mm (1.18 in)
		а	5 mm (0.2 in)
		Bolt	M12 (0.47 in)
	Cable and protective cover	Size	2X240 mm ²
		Gauge	2X500 MCM
		Protective cover	LA9F703
		Tightening torque	57 N.m
			498.75 lb.in

Power connections, minimum required wiring section

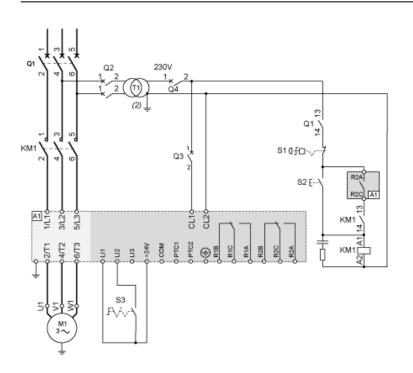
IEC cable	UL cable
mm² (Cu 70°C/158°F) (1)	AWG (Cu 75°C/167°F) (1)
2 X 150	3 X 350 MCM

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



With Line Contactor, Freewheel or Controlled Stop

Bảng thông số sản phẩm Connections and Schema



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

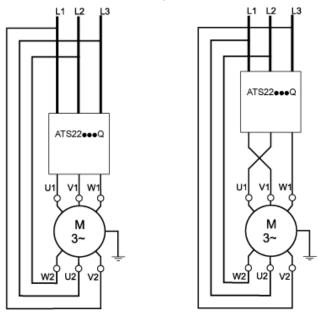
Bảng thông số sản phẩm ATS22C48Q **Connections and Schema**

Connection in the motor delta winding in series with each winding

Wiring

ATS22 soft starters connected to motors with the delta connections can be inserted in series in the motor windings.

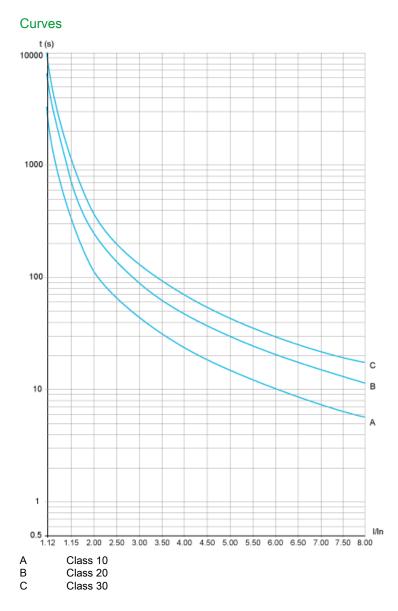
The following wiring requieres particular attention. It is documented in the Altistart 22 Soft start - soft stop unit user manual. Please contact Schneider Electric commercial organisation for further informations.



Example

A 400 V - 110 kW motor with a line current of 195 A (nominal current for the delta connection). The current in each winding is equal to 195/1.5 or 130 A. The rating is determined by selecting the soft starter with a permanent nominal current (ICL) just above this current.

Motor Thermal Protection - Cold Curves



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 t (s) 10000 1000 100 10 С в A 1 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 l/In А Class 10 B C Class 20 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)

3.5 ln 48 s