Product datasheet Characteristics

ATS22C41Q soft starter-ATS22-control 220V-power 230V(110kW)/400...440V(220kW)



Price* : 2002.00 GBP



Main

		not to be used for determining suitability or reliability of these products for specific user applications
Main		for sp
Range of product	Altistart 22	ducts
Product or component type	Soft starter	e pro
Product destination	Asynchronous motors	thes
Product specific application	Pumps and fans	lity of
Component name	ATS22	eliabi
Network number of phases	3 phases	y or r
[Us] rated supply voltage	230440 V - 1510 %	tabilit
Motor power kW	110 kW 230 V 220 kW 400 V 220 kW 440 V	ermining sui
Factory setting current	388 A	or det
Power dissipation in W	177 W for standard applications	sed for
Utilisation category	AC-53A	pe
Type of start	Start with torque control (current limited to 3.5 ln)	not to
IcL starter rating	410 A connection in the motor supply line for standard applications	
IP degree of protection	IP00	for and is

Complementary

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	Device connection		
Control circuit consumption 20 W	[Uc] control circuit voltage	230 V -1510 % 50/60 Hz	i
	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 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 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
Power range	110220 kW at 380440 V 3 phases 110220 kW at 200240 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
<u> </u>	

	volago, carona inpulso lovor o izo o roco i ro
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 Product end of life instructions Available

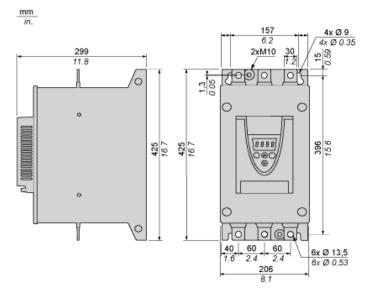
Contractual warranty

Warranty period

18 months

Frame Size D

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

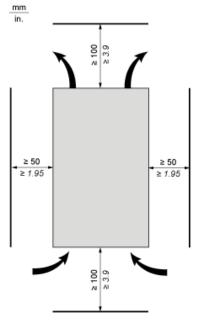
HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

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



Product datasheet Connections and Schema

ATS22C41Q

Power Terminal

Bar Style

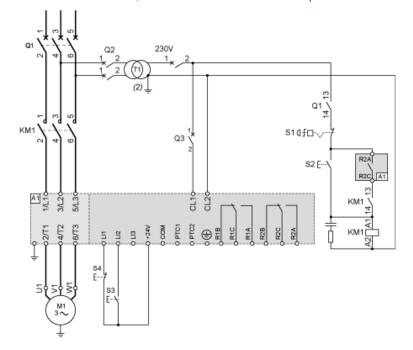


Power supply and output to motor	Bar	b	30 mm (1.18 in)
а	5 mm (0.2 in)		
Bolt	M12 (0.47 in)		
Cable and protective cover	Size	2X150 mm ²	
Gauge	2X250 MCM		
Protective cover	LA9F703		
Tightening torque	57 N.m		
498.75 lb.in			

Power connections, minimum required wiring section

IEC cable	UL cable
mm² (Cu 70°C/158°F) (1)	AWG (Cu 75°C/167°F) (1)
2 X 150	2 X 250 MCM

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



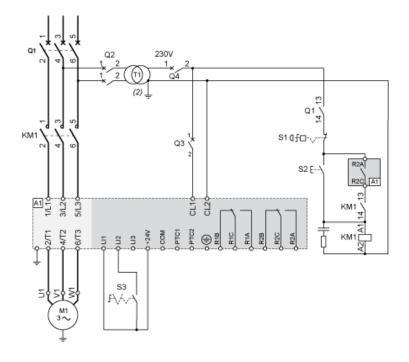
With Line Contactor, Freewheel or Controlled Stop

Product datasheet

ATS22C41Q

Connections and Schema



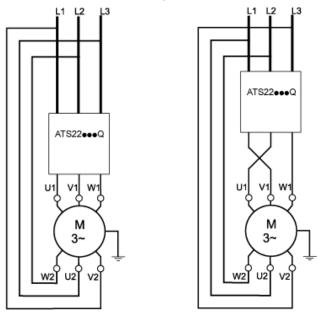


Connection in the motor delta winding in series with each winding

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.

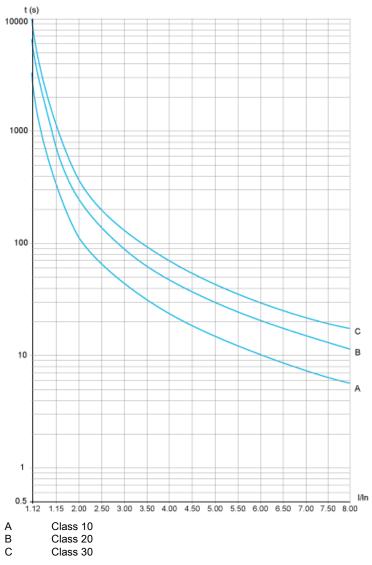


Example

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

Curves



Trip time for a Standard Application (Class 10)

3.5 ln	
32 s	

Trip time for a Severe Application (Class 20)

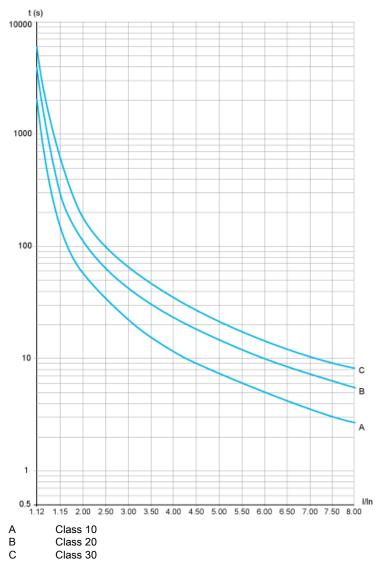
3.5 ln		
63 s		

Trip time for a Severe Application (Class 30)

3.5 ln 95 s

Motor Thermal Protection - Warm Curves

Curves



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

Our Proposal: Circuit Breaker + Contactor + Soft starter for Motor Power 220 kW and 400 VAC

Motor power (kW)	ICU (kA)	Breaker	Contactor (*)	Instantaneous auxiliary conta	Motor Starter
220	36		(
		LV432948	LC1F400P7	LADN22	ATS22C41Q

Non contractual pictures.

Motor power kW	Coil voltage VDC	24	48	110	125	220	230	Other
220	LC1F400	-	ED	FD	GD	MD	-	Complete Offer

(*) You can select the contactor proposed or variants. Please consider examples hereafter or follow the link to the complete offer.

Motor power kW	Coil voltage VAC 40400 Hz	24	48	110	115	120	220	230	240	400	Other	
220	LC1F400	-	E7	F7	FE7	G7	M7	P7	U7	V7	Complet Offer	:e

(**) You can select the breaker proposed or variants. Please consider examples hereafter or follow the link to the complete offer.

Motor power	ICU (Breaker with capacity level	ICU	Breaker with capacity level	ICU (Breaker with capacity level	Other
kW	F	F	Н	н	Ν	Ν	
220	36	LV432948	70	LV432950	50	LV432949	Complete Offer