Product datasheet Characteristics

ATS22C14Q soft starter-ATS22-control 220V-power 230V(37kW)/400...440V(75kW)



Main

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The Short Start I		olicat
		er app
		ic use
Main		specif
Range of product	Altistart 22	e for s
Product or component type	Soft starter	oducts
Product destination	Asynchronous motors	e pro
Product specific application	Severe and standard applications	of these
Component name	ATS22	oility o
Network number of phases	3 phases	relia
[Us] rated supply voltage	230440 V (- 1510 %)	ty or
Motor power kW	75 kW at 400 V	itabili
	37 kW at 230 V 75 kW at 440 V	sr D
Eactory sotting surront	131 A	<u></u>
Power dissipation in W	82 W for standard applications	dete
		d for
Utilisation category	AC-53A	n n n n n n n n n n n n n n n n n n n
Type of start	Start with torque control (current limited to 3.5 In)	ة و
IcL starter rating	140 A (connection in the motor supply line) for standard applications	s not
IP degree of protection	IP00	and
		e for
Complementary		stitut
Assembly style	With heat sink	a sut
Function available	Internal bypass	a
Supply voltage limits	195484 V	tende
Supply frequency	5060 Hz (- 1010 %)	ir.
Network frequency	4566 Hz	
Device connection	In the motor supply line To the motor delta terminals	cumentat
Control circuit voltage	220230 V -1510 % at 50/60 Hz	00 00
Control circuit consumption	20 W	iz E
Discrete output number	2	Disclaime

Complementary

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Supply frequency	5060 Hz (- 1010 %)
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Control circuit voltage	220230 V -1510 % at 50/60 Hz
Control circuit consumption	20 W
Discrete output number	2



Discrete output type	(R2)Relay outputs 230 V running, alarm, trip, stopped, not stopped, starting, ready, C/O (R1)Relay outputs 230 V running, alarm, trip, stopped, not stopped, starting, ready, C/O
Minimum switching current	Relay outputs 100 mA at 12 V, DC
Maximum switching current	Relay outputs 5 A at 30 V, DC resistive load, cos phi = 1 Relay outputs 2 A at 30 V, DC inductive load, L/R = 7 ms Relay outputs 5 A at 250 V, AC resistive load, cos phi = 1 Relay outputs 2 A at 250 V, AC inductive load, cos phi = 0.4, L/R = 20 ms
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	(LI1, LI2, LI3) positive logic state 0 < 5 V and < 2 mA state 1 > 11 V and > 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	Thermal protection on starter Phase failure on line Thermal protection on motor
Marking	CE
Type of cooling	Forced convection
Operating position	Vertical +/- 10 degree
Height	356 mm
Width	150 mm
Depth	229.5 mm
Product weight	18 kg

Environment	
Electromagnetic compatibility	Damped oscillating waves conforming to IEC 61000-4-12 level 3 Conducted and radiated emissions conforming to IEC 60947-4-2 level A Voltage/Current impulse conforming to IEC 61000-4-5 level 3 Immunity to radiated radio-electrical interference conforming to IEC 61000-4-3 level 3 Immunity to electrical transients conforming to IEC 61000-4-4 level 4 Electrostatic discharge conforming to IEC 61000-4-2 level 3
Standards	EN/IEC 60947-4-2
Product certifications	C-Tick UL CCC GOST CSA
Vibration resistance	1.5 mm (f = 213 Hz) conforming to EN/IEC 60068-2-6 1 gn (f = 13200 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	<= 95 % without condensation or dripping water conforming to 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< 2000 m with current derating of 2.2 % per additional 100 m <= 1000 m without derating

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 end of life instructions	Available

Contractual warranty

Warranty period

18 months



Presentation

The Altistart 22 soft start - soft stop unit supports the controlled starting and stopping, via voltage and torque, of three-phase squirrel cage asynchronous motors for power ratings between 4 and 400 kW.

It comes ready to use for standard applications with class 10 motor protection.

Displaying the firmware version



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Product datasheet

ATS22C14Q

Dimensions Drawings

Dimensions and Weights

Dimensions

Frame Size C



Weights

Starter	kg	lb
Without fan	11.5	25.6
With fan	13.1	29.1
Gross weight	18	40



Product datasheet Mounting and Clearance

ATS22C14Q

Mounting



1 Altistart 22 Soft Starter

2 Fan



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ATS22C14Q

Mounting



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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



Product datasheet Connections and Schema

ATS22C14Q

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Example



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	

ATS22C14Q

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	

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