

Altistart® 22 Open-style Soft Start Selection Guide



50–60 Hz , Three-phase, 208–600 Vac

The Altistart 22 unit uses both voltage and torque control to provide a soft start and soft stop for three-phase asynchronous motors between 17 A and 590 A.

Select the Altistart 22 soft start using the nameplate full-load ampere rating of the motor and the table below. The horsepower ratings are for reference only.

Horsepower reference						Soft start reference ▲ or ●	Dimensions (inches)		
208 V	230 V	400 V	460 V	575 V	Rated		W	H	D
3	5	5.5	10	15	17	ATS22D17S6,S6U	5.1	9.8	6.6
7.5	10	11	20	25	32	ATS22D32S6,S6U	5.1	9.8	6.6
■	15	18.5	30	40	47	ATS22D47S6,S6U	5.1	9.8	6.6
15	20	22	40	50	63	ATS22D62S6,S6U	5.7	10.9	8.1
20	25	30	50	60	75	ATS22D75S6,S6U	5.7	10.9	8.1
25	30	37	60	75	88	ATS22D88S6,S6U	5.7	10.9	8.1
30	40	45	75	100	110	ATS22C11S6,S6U	5.9	13	9
40	50	55	100	125	140	ATS22C14S6,S6U	5.9	13	9
50	60	75	125	150	170	ATS22C17S6,S6U	5.9	13	9
60	75	90	150	200	210	ATS22C21S6,S6U	8.1	15.6	11.8
75	100	110	200	250	250	ATS22C25S6,S6U	8.1	15.6	11.8
100	125	132	250	300	320	ATS22C32S6,S6U	8.1	15.6	11.8
125	150	160	300	350	410	ATS22C41S6,S6U	8.1	15.6	11.8
150	■	220	350	400	480	ATS22C48S6,S6U	11.9	16.8	13.4
■	200	250	400	500	590	ATS22C59S6,S6U	11.9	16.8	13.4

■ Value not indicated when there is no corresponding standardized motor

▲ S6 = 208–600 line voltage, 220 V control voltage

● S6U = 208–600 line voltage, 110 V control voltage

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SoMove™

This software enables the user to configure, set, debug and organize maintenance tasks for the Altistart 22 soft start. It can also be used to customize the integrated display terminal menus and with a direct connection or a bluetooth wireless connection equipment.

Software	Reference Number
SoMove Lite	Download from www.Schneider-Electric.us

Cable

Cable	Reference Number
USB/RJ45 cordset	TCSMCMNAM3M002P

Remote Display Terminal – Remote Keypad

Degree of Protection	Reference Number
IP54/NEMA12	VW3G22101 ^[1]
IP65	VW3G22102 ^[1]

[1] A remote-mounting cord set is also required.

Remote Mount Cords

Remote mounting cord sets equipped with 2 RJ45 connectors.

Length (feet)	Reference Number
3	VW3A1104R10
9	VW3A1104R30

Fans

Power Supply Voltage	For Soft Start	Reference Number
220 V	ATS22D17S...D47S6	VW3G22400
	ATS22D62S6...D88S6	VW3G22401
	ATS22C11S6...C17S6	VW3G22402
110 V	ATS22D17S6U...D47S6U	VW3G22U400
	ATS22D62S6U...D88S6U	VW3G22U401
	ATS22C11S6U...C17S6U	VW3G22U402

Protection Shrouds for Power Terminal

The ATS22C11S6...C59S6 and ATS22C11S6U units have six unprotected power terminals. These terminals can be fitted with protection shrouds.

For Soft Start	Reference Number
ATS22C11S6...C17S6	LA9F702
ATS22C11S6U...C17S6U	
ATS22C21S6...C59S6	LA9F703
ATS22C21S6U...C59S6U	



Feature

Configuration Selections	Acceleration ramp time: 1 to 60 seconds
	Stop type: freewheel or controlled deceleration
	Start boost time
	Voltage or torque control during starting and stopping
	Configuration of a second motor parameter set
Auto re-start, external fault monitor	
Communication	Integrated Modbus® via RJ45 connector for remote keypad connection, SoMove PC configuration software, or Modbus network
Keypad	4 tactile feedback buttons, ESC, ENT, scroll forward, scroll backward
Integrated Display	4 position seven segment display
Status Indicators	4 LEDs on front face: Indicate “ready,” “communication,” “run” and “trip” conditions

Protection

Motor Overload Protection	Class 10, 20 or 30
Motor Current Limit	Adjustable from 150% to 700% of device rating
Internal Protection	Thermal protection, phase loss, phase balance, unbalanced voltage, under voltage, over voltage, leakage current detection and time delay before restart attempt
Starts Per Hour	ATS22D17xx to ATS22D88: 6 starts per hour and 10 starts per hour with additional fan ATS22C11xx to ATS22C17: 4 starts per hour and 10 starts per hour with additional fan

Environmental Specifications

Operating Temperature	104° F (40° C) without derating, up to 140° F (60° C) with derating current 2.2% for each degree above 104° F (40° C)
Storage Temperature	-13° F (-25° C) and + 158° F (70° C)
Relative Humidity	Conforming to IEC 60068-2-3: 95% with no condensation or dripping water
Altitude	3280 ft (1000 m) without derating; above this rating, derate the nominal current by 2.2% for each additional 328 ft (100 m) to maximum of 6561 ft (2000 m)
Enclosure Rating	IP20 for ATS22D17...C11, IP00 for ATS22C14...C59
Vibration Resistance	Conforming to IEC 60068-2-6: 1.5 mm peak to peak from 2 Hz to 13 Hz, 1 gn from 13 Hz to 200 Hz
Shock Resistance	Conforming to IEC 60068-2-27: 15 gn for 11 ms
Conducted and Radiated Emissions	Conforming to IEC 60947-4-2: Class A
Maximum Ambient Pollution	Conforming to IEC 60664-1: Step 2



Standards and Certifications

- IEC/EN 60947-4-2, EMC class A
- UL, CSA, CE, GOST, C-Tick,
CCC and RoHS directive



Electrical Specifications

Shorting Contactor	Embedded
Three-phase Supply Voltage	208 V -15% to 600 V +10%
Input Frequency	Automatic sensing; 50 Hz to 60 Hz frequency (-5% to +5%)
Current Range	17 A to 590 A
Control Voltage Power Requirements	ATS22...S6U = 110 Vac (-15% to +10%) or ATS22...S6 = 220 Vac (-15% to +10%)
Logic Input Voltage	ATS22...S6U = 110 Vac (-15% to +10%) or ATS22...S6 = 24 Vdc (± 6 Vdc)
1 PTC Probe Input	750 Ω at 77° F (25° C), tripping between 2600 Ω and 3100 Ω
Logic Inputs	3; "LI1" = run enable, "LI2" and "LI3" are programmable ATS22...S6U = 110 Vac or ATS22...S6 = 24 Vdc
Relay Outputs	2 programmable Form C relays Normally Open/Normally Closed (N.O./N.C.), maximum switching = 8 A under 230 Vac or Vdc
I/O Connectors	Removable plug

Schneider Electric USA, Inc.

Automation and Control Center of Excellence
 8001 Knightdale Blvd.
 Knightdale, NC 27545
 Tel: 919-266-3671
www.us.Schneider-Electric.com/Drives

Schneider Electric Canada, Inc.

19 Waterman Avenue
 Toronto, ON M4B 1Y2
 Tel: 1-800-565-6699

