

Life Is On

Schneider
Electric

Reduce mechanical stress on your machines

Altistart 01
Altistart 22
Altistart 48

Complete range of soft starters from 0.37 kW (3 Amps)
to 900 kW (1200 Amps)



schneider-electric.com

Why use Altistart soft starters?

Open and easy to integrate in your installation, Altistart™ is a wide and consistent range of soft starters that makes your machines last longer.

Altistart soft starters

- Reduce mechanical stress on drive-train components
- Ensure smooth acceleration of conveyors
- Suppress water hammer on pumping applications
- Eliminate belt slippage on fan loads
- Minimize voltage sags on the distribution system
- Lower peak demand charges from the utility
- Communicate easily with the other components of your automation architecture



Altistart range: soft starters designed for your machines

Small and simple

Altistart 01 — small footprint and high soft start value



The best partner for simple machines from 0.37 to 15 kW

- Designed for 1-phase and 3-phase AC motors and simple machines
- Minimum dimensions (22.5 mm/45 mm width)
- Quick and easy set-up
- Suppression of torque surges at startup
- Limitation of current peaks
- Suppression of voltage drops
- Side-by-side mounting

All-in-one device

Altistart 22 — compact soft start/soft stop unit with integrated by-pass



Covers most light-duty industrial applications from 4 to 400 kW

- Designed for 3-phase AC motors and standard applications
- True 3-phase control
- Integrated by-pass contactor for compact design, reduced wiring time, low heat dissipation
- Voltage and torque control to manage soft start/soft stop
- Complete motor/starter/application protection
- Integrated modbus communication
- Type 1 coordination
- User-friendly human machine interface (HMI)

High performance with TCS concept

Altistart 48 — high-performance soft starter








Dedicated to heavy-duty industrial applications from 4 to 900 kW

- Designed for 3-phase AC motors and harsh applications (starting time >30s)
- Patented torque control system (TCS) to manage soft start and dynamic breaking
- Motor thermal protection and motor preheating function
- Machine under- and overload protection
- Cascaded starting and deceleration of a number of motors
- Integrated modbus communication and other gateway solutions
- Type 2 coordination
- Large number of configurable I/O
- Automatic restart
- Plug-and-play factory setting

Innovative soft starters for office buildings and industrial applications

Altistart soft starters are easy to integrate at the heart of your installation with simplified wiring. Open communication protocols ensure that they are ready for immediate start up.

Type of application				
 <p>Crusher</p> <ul style="list-style-type: none"> • Overtorque • Starting current • Brake vibration 				
 <p>Compressor</p> <ul style="list-style-type: none"> • Torque • Mechanical stress • Pressure drops 				
 <p>Pump</p> <ul style="list-style-type: none"> • Water hammer • Rotor protection • Voltage drops 				
 <p>Fan</p> <ul style="list-style-type: none"> • Inertia • Under/overload • Slipping belt 				
 <p>Conveyor</p> <ul style="list-style-type: none"> • Torque • Conveyor length • Jammed belt 	Altistart 01	Altistart 22	Altistart 48	
Characteristics	Simple	Standard	Harsh	
Ramp-up time	< 5s	< 30s	> 30s	
Start per hour	1 to 100	1 to 6	1 to 10	

Select the soft starter that meets your installation requirements

Whatever your installation, there is an Altistart soft starter to protect your motors. Simply use the specifications in the below table to quickly select the soft starter that meets your needs.

	Altistart 01	Altistart 22	Altistart 48
			
Voltage range	110 Vac to 480 Vac - 1 ph 110 Vac to 480 Vac - 3 ph	230 Vac to 440 Vac - 3 ph 208 Vac to 575 Vac - 3 ph	230 Vac to 415 Vac - 3 ph 208 Vac to 690 Vac - 3 ph
Current range (ICL)	3 A to 12 A - 1 ph 6 A to 32 A - 3 ph	17 to 590 A	17 to 1200 A
Control power supply voltage	24 V AC/DC 110 – 240 Vac	110 to 230 Vac	110 to 230 Vac
Power range (kW)	0.37 to 15	4 to 400	4 to 900
Communication	No	Embedded modbus	Embedded modbus Options: Web-based Ethernet, FIPIO, Modbus Plus, Devicenet™
Software	No	SoMove™	SoMove
Inputs/outputs	3LI/1LO 1 relay output	3LI/1 AI (PTC probe) 2 relay outputs	3 LI/1 AI (PTC probe) 3 relay outputs
HMI	Adjustment dials 2 indicator LEDs	4 LEDs 4 seven-segment displays	3 seven-segment displays
Current limitation	No	350% ICL	500% ICL (TCS system)
Controlled starting capacity	No	20s at 3.5 In (warm state, S4 95%)	25s at 4 In (warm state, S4 50%)
Display keypad	No	Embedded and remote keypad	Embedded and remote keypad
Motor preheating	No	No	Yes
Additional motor	No	Up to 2 different motor configurations	Up to 2 different motor configurations
Cascade	No	No	Successive starting of several motors
Protections	No	Full motor and starter protection	Full motor and starter protection
Soft stop	Freewheel or stop on ramp	Deceleration time settings For voltage and torque ramp > than freewheel	Dynamic braking < than freewheel
Ramp-up time	< 5 s	< 30 s	> 30 s
Starts per hour	1 to 100	1 to 6	1 to 10
Type 1 coordination	No	Yes	Yes
Type 2 coordination	No	No	Yes
3-phase control	No	Yes	Yes
Automatic restart	No	No	Yes

Quick selection guide: Find the right reference for your motor

Now that you have selected the soft starter that suits your requirements, use the below table to easily identify the right reference.

Altistart 01

Reference	In (Amp.)	Power (kW)		Height (mm)	Width (mm)	Depth (mm)	IP level
		1-phase	3-phase				
ATS01N103••	3	0.37	1.1	100	22.5	100.4	IP20
ATS01N106••	6	0.75	2.2				
ATS01N109••	9	1.1	4				
ATS01N112••	12	1.5	5.5	124	45	130.7	
ATS01N125••	25	2.2	7.5				
ATS01N206••	6	-	2.2				
ATS01N209••	9	-	4				
ATS01N212••	12	-	5.5	154	45	130.7	
ATS01N222••	22	-	7.5				
ATS01N232••	32	-	15				



- Very small footprint

Altistart 01 with Tesys™ U motor starter

Reference	Rail-mounting with connector						
	In (Amp.)	Power (kW)		Height (mm)	Width (mm)	Depth (mm)	IP level
		1-phase	3-phase				
ATSU01N206LT	6	0.75	2.2	284	45	135	IP20
ATSU01N209LT	9	1.1	4				
ATSU01N212LT	12	1.5	5.5				
ATSU01N222LT	22	-	7.5	314	45	135	
ATSU01N232LT	32	-	15				



- Advanced protection features
- Open to communication protocols

Reference	Side-by-side mounting						
	In (Amp.)	Power (kW)		Height (mm)	Width (mm)	Depth (mm)	IP level
		1-phase	3-phase				
ATSU01N206LT	6	0.75	2.2	154	99	135	IP20
ATSU01N209LT	9	1.1	4				
ATSU01N212LT	12	1.5	5.5				
ATSU01N222LT	22	-	7.5	154	99	135	
ATSU01N232LT	32	-	15				

Altistart 22

Reference*	In (Amp.)	Power (kW)	Height (mm)	Width (mm)	Depth (mm)	IP level
		3-phase				
ATS22D17•••	17	7.5	265	130	169	IP20
ATS22D32•••	32	15				
ATS22D47•••	47	22				
ATS22D62•••	65	30	295	145	207	IP00
ATS22D75•••	75	37				
ATS22D88•••	88	45				
ATS22C11•••	110	55	356	150	229	IP00
ATS22C14•••	140	75				
ATS22C17•••	170	90				
ATS22C21•••	210	110	425	206	299	IP00
ATS22C25•••	250	132				
ATS22C32•••	320	160				
ATS22C41•••	410	220	455	304	340	IP00
ATS22C48•••	480	250				
ATS22C59•••	590	315				



- Compact
- Integrated by-pass
- True 3-phase control

Altistart 48

Reference*	In (Amp.)	Power (kW)	Height (mm)	Width (mm)	Depth (mm)	IP level
		3-phase				
ATS48D17•	17	7.5	275	160	190	IP20
ATS48D22•	22	11				
ATS48D32•	32	15				
ATS48D38•	38	18.5	190	290	235	IP00
ATS48D47•	47	22				
ATS48D62•	62	30				
ATS48D75•	75	37	340	200	265	IP00
ATS48D88•	88	45				
ATS48C11•	110	55				
ATS48C14•	140	75	380	320	265	IP00
ATS48C17•	170	90				
ATS48C21•	210	110				
ATS48C25•	250	132	670	400	300	IP00
ATS48C32•	320	160				
ATS48C41•	410	220				
ATS48C48•	480	250	890	770	315	IP00
ATS48C59•	590	315				
ATS48C66•	660	355				
ATS48C79•	790	400	890	770	315	IP00
ATS48M10•	1000	500				
ATS48M12•	1200	630				





- High-performance
- Torque control system (TCS)
- Harsh environment

(•) For full reference by voltage, please refer to the product catalog.

* Please find reference details in the respective catalogs for motor delta connection.

For other versions or more detailed information, please consult the Schneider Electric website or your Schneider Electric sales office. Standards and equipment data given in this document are not contractual and are subject to confirmation by Schneider Electric.

Features of softstarters depending on the application

Families	Sizes	References	Protection Thermic Motor	Starts per hour	Current	Starting Time	Protection Thermic Motor	Starts per hour	Current	Starting Time
	A	ATS22D17Q/S6(U) ATS22D32Q/S6(U) ATS22D47Q/S6(U)	Class 10	6	3,5 x IN	20 s	Class 20	need over size	if > 3,5 x ICL	maxi 32 s
	B	ATS22D62Q/S6(U) ATS22D75Q/S6(U) ATS22D88Q/S6(U)								
	C	ATS22C11Q/S6(U) ATS22C14Q/S6(U) ATS22C17Q/S6(U)		4	3,5 x IN					
	A to F	ATS48D17** to ATS48M12**	Class 10	10	3 x IN 4 x IN	23 s 12 s	Class 20	5	4 x IN	25 s

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Schneider Electric Industries SAS

Head Office
35, rue Joseph Monier - CS30323
F92505 Rueil-Malmaison Cedex
FRANCE

www.schneider-electric.com

February 2016

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