

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)



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



The best partner for simple machines
from 0.37 to 15 kW

Altistart 01 – small footprint and high soft start value

- Designed for 1-phase and 3-phase AC motors and simple machines
- Minimum dimensions (22.5mm/45mm 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



Covers most light duty industrial applications
from 4 to 400 kW

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

- 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 HMI

High performance with TCS concept



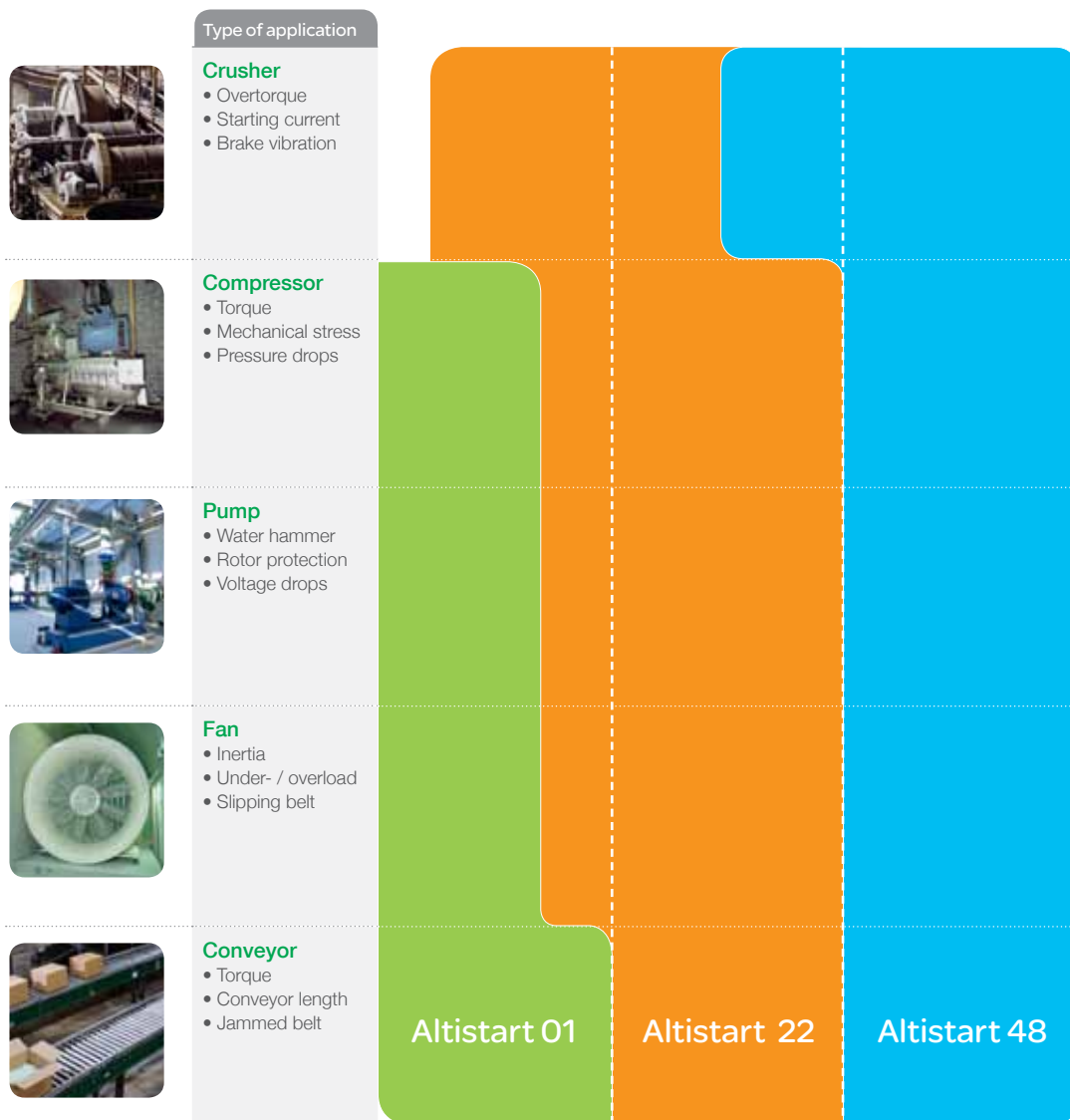
Dedicated to heavy duty industrial applications
from 4 to 900 kW

Altistart 48 – high performance soft starter

- 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.






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 - 1ph	230 Vac to 440 Vac - 3ph	230 Vac to 415 Vac - 3ph
	110 Vac to 480 Vac - 3ph	208 Vac to 575 Vac - 3ph	208 Vac to 690 Vac - 3ph
Current range (ICL)	3A to 12A - 1ph	17 to 590A	17 to 1200A
	6A to 32A - 3 ph		
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	3LI / 1 AI (PTC probe)	3LI / 1 AI (PTC probe)
	1 relay output	2 relay outputs	3 relay outputs
HMI (human machine interface)	Adjustment dials and 2 indicator LEDs	4 LEDs	3 Seven-segment displays
		4 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	Dynamic braking
		For voltage and torque ramp	
		> than freewheel	< 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	124	45	130.7	
ATS01N112••	12	1.5	5.5				
ATS01N125••	25	2.2	7.5				
ATS01N206••	6	-	2.2	154			
ATS01N209••	9	-	4				
ATS01N212••	12	-	5.5				
ATS01N222••	22	-	7.5				
ATS01N232••	32	-	15				



• Very small footprint

Altistart 01 with TesysU motor starter

Reference	Rail-mounting with connector						
	In (Amp.)	Power (kW)		Height (mm)	Width (mm)	Depth (mm)	IP Level
		1-phase	3-phase				
ATSU01N106LT	6	0.75	2.2	284	45	135	IP20
ATSU01N109LT	9	1.1	4				
ATSU01N112LT	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				
ATSU01N106LT	6	0.75	2.2	154	99	135	IP20
ATSU01N109LT	9	1.1	4				
ATSU01N112LT	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	IP20
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				
ATS48D47●	47	22				
ATS48D62●	62	30	190	290	235	IP20
ATS48D75●	75	37				
ATS48D88●	88	45				
ATS48C11●	110	55				
ATS48C14●	140	75				
ATS48C17●	170	90	340	200	265	IP00
ATS48C21●	210	110	380	320	265	
ATS48C25●	250	132				
ATS48C32●	320	160				
ATS48C41●	410	220	670	400	300	
ATS48C48●	480	250				
ATS48C59●	590	315				
ATS48C66●	660	355				
ATS48C79●	790	400				
ATS48M10●	1000	500	890	770	315	IP00
ATS48M12●	1200	630				



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

(●) For full reference by voltage, please refer to the product catalogue.

* Please find reference details in the respective catalogues 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.

 **Make the most of your energySM**

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