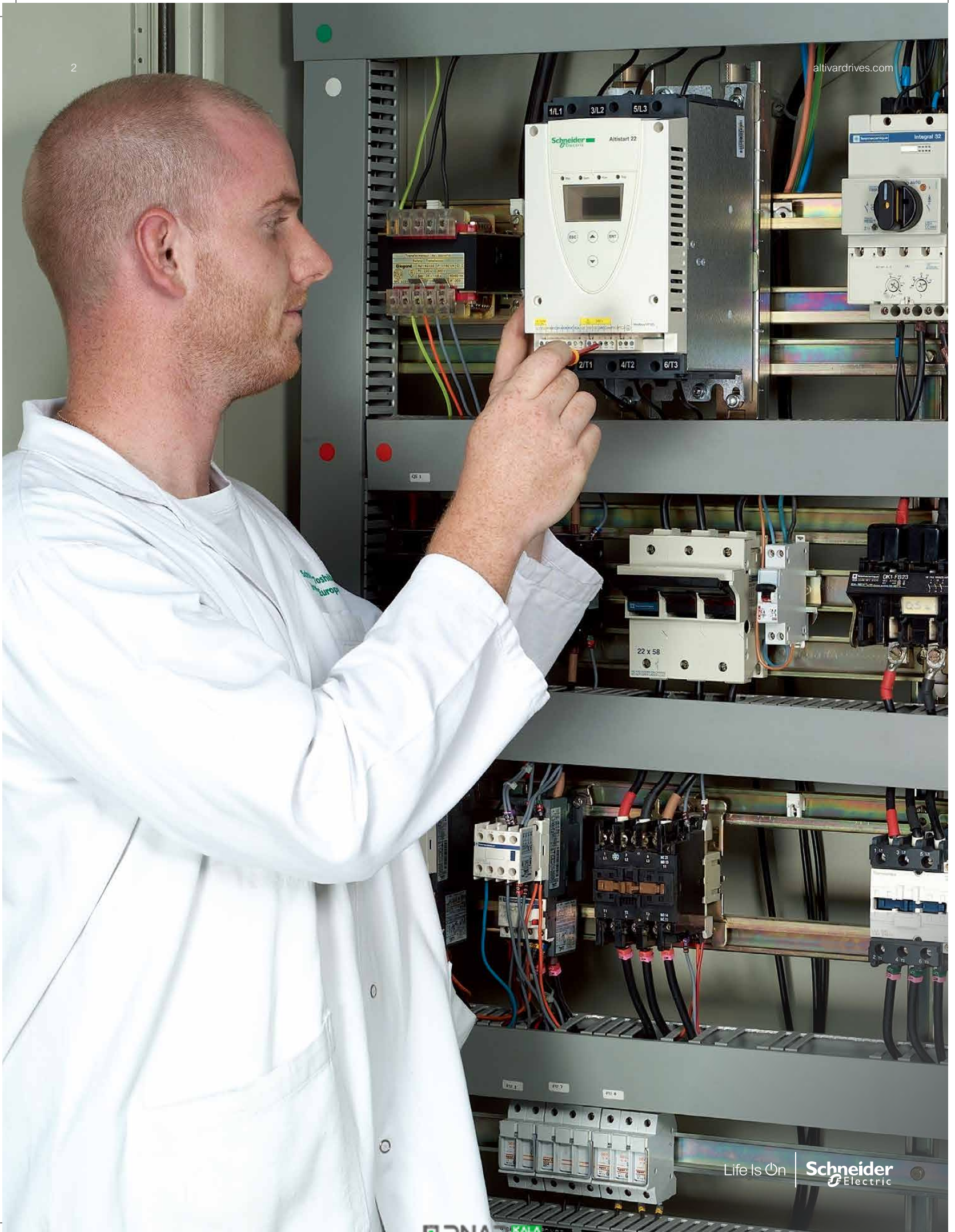


Reduce mechanical stress on your machines.

Complete range of soft starters from 3 Amps to 1200 Amps



altivardrives.com



Altistart range: Soft starters designed for your machines

Small and simple



The best partner for simple machines from 3 to 32 Amp

Altistart™ 01 Small footprint and high soft start value

- Designed for 1-phase and 3-phase AC motors and simple machines
- Minimum dimensions (22.5 mm/45 mm width)
- Quick and easy setup
- Suppression of torque surges at startup
- Limitation of current peaks
- Suppress mechanical shocks
- Side-by-side mounting, din rail mounting

All-in-one device



For normal duty applications from 17 to 590 Amp

Altistart 22 Compact soft start/soft stop unit with integrated bypass

- Designed for 3-phase AC motors and standard applications
- True 3-phase control
- Integrated bypass 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
- iPad® configuration app

High performance with TCS concept








Dedicated to heavy-duty industrial applications from 17 to 1200 Amp

Altistart 48 High-performance soft starter

- 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
- iPad configuration app

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, one-way plug-in I/O connectors, modbus serial link via RJ45 port, and open communication protocols that ensure they are ready for immediate startup.

Type of application				
	Crusher <ul style="list-style-type: none"> • Overtorque • Starting current • Brake vibration 			
	Compressor <ul style="list-style-type: none"> • Torque • Mechanical stress • Pressure drops 			
	Pump <ul style="list-style-type: none"> • Water hammer • Rotor protection • Voltage drops 			
	Fan <ul style="list-style-type: none"> • Inertia • Under/overload • Slipping belt 			
	Conveyor <ul style="list-style-type: none"> • Torque • Conveyor length • Jammed belt 	Altistart 01 3 – 32 Amp	Altistart 22 17 – 590 Amp	Altistart 48 17 – 1200 Amp




Characteristics	Simple	Standard	Harsh
Ramp-up time	< 5 s	< 30 s	> 30 s
Start per hour	1 to 100	1 to 6*	1 to 10

*Up to 10 starts per hour with external fan.



Soft starters that meet your installation requirements

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

Type of motor control		Simple machines	Normal-duty machines	Heavy-duty machines
Key application/market segment		<ul style="list-style-type: none"> •Conveyors •Mixers •Gate control •Machine movement •Small pumps and fans •Positive displacement pumps 	<ul style="list-style-type: none"> •Pumps •Fans •Turbines •Compressors •Conveyors •Conveyor belts •Lifting screws •Escalators 	<ul style="list-style-type: none"> •Pumps •Fans •Punch presses •Band saws •Crushers •Centrifuges •Conveyor (high inertia loads)
Soft starters		Altistart 01 	Altistart 22 	Altistart 48 
Distribution voltage ranges for 50/60 Hz line supply		Single-phase 110 to 240 V Three-phase 230 to 480 V	Three-phase 208 to 600 V	Three-phase 230 V to 415 V Three-phase 208 V to 690 V
Horsepower ratings for three-phase motors		1/4 hp to 2 hp, 115 V/230 V 1/2 hp to 30 hp, 208 V/230 V 1/2 hp to 60 hp, 400 V/480 V 30 hp to 75 hp, 575 V/600 V	3 hp to 500 hp	3 hp to 1200 hp
Drives	Output frequency	Equals input frequency	Equals input frequency	Equals input frequency
	Type of control:	Reduced voltage start	Controlled starting and stopping via voltage and torque	Controlled starting and stopping via voltage and torque. Exclusive TCS.
	Asynchronous motor			
	Synchronous motor	—	—	—
Typical starts per hour rating	—	4 – 6	10	
Number of functions		1	29	36
Number of I/O	Analog inputs	—	1 PTC probe	1 PTC probe
	Logic inputs	2 - run and stop, 1 - boost	3	4
	Relay outputs	1 relay and 1 logic output	2	3 relay and 2 logic outputs
Communication	Integrated	—	Modbus	Modbus
	Available as an option	Combined with TeSys™ U-Line self-protected starter	—	Gateway: <ul style="list-style-type: none"> • DeviceNet™ • Ethernet TCP/IP • Fipio • Profibus™ DP V1
Other option cards		—	—	—
Enclosure rating		IP20	IP20	IP20
Standards and certifications		EC/EN 60947-4/2, C-Tick, CSA, UL, CE, CCC	UL, CSA, CE, GOST, C-Tick, CCC, and RoHS directive	EC/EN 60947-4/2, EMC class A and B, DNV, C-Tick, GOST, CCIB, NOM, UL, CE, CCC, CSA

Type of motor control	Soft starters commercial	Soft starters industrial										
Key application/market segment	<ul style="list-style-type: none"> • Pumps • Fans • Conveyors • Centrifuges 	<ul style="list-style-type: none"> • Agitators • Mixers • Grinders • Crushers 										
Packaged products	<p>Enclosed 22</p>  <p>Integrated controls protected within enclosures, optimized with disconnect means, circuit breakers, push buttons, selector switches, control logic, communication, and miscellaneous options designed to meet application requirements.</p>	<p>Enclosed 48</p>  <p>Integrated controls protected within enclosures, optimized with disconnect means, circuit breakers, push buttons, selector switches, control logic, communication, and miscellaneous options designed to meet application requirements.</p>										
Distribution voltage ranges for 50/60 Hz line supply	208 Vac, 230 Vac, 460 Vac, 575 Vac	208 Vac, 240 Vac, 480 Vac, 600 Vac										
Horsepower ratings for three-phase motors	<table border="0"> <tr> <td>Type 1 and Type 12</td> <td>Type 3R or 50 °C Rated</td> </tr> <tr> <td>3 hp to 150 hp, 208 V</td> <td>3 hp to 125 hp, 208 V</td> </tr> <tr> <td>5 hp to 200 hp, 230 V</td> <td>5 hp to 150 hp, 230 V</td> </tr> <tr> <td>10 to 400 hp, 460 V</td> <td>10 to 400 hp, 460 V</td> </tr> <tr> <td>15 to 500 hp, 575 V</td> <td>15 to 500 hp, 575 V</td> </tr> </table>	Type 1 and Type 12	Type 3R or 50 °C Rated	3 hp to 150 hp, 208 V	3 hp to 125 hp, 208 V	5 hp to 200 hp, 230 V	5 hp to 150 hp, 230 V	10 to 400 hp, 460 V	10 to 400 hp, 460 V	15 to 500 hp, 575 V	15 to 500 hp, 575 V	<p>Type 1, Type 12, and Type 3R</p> <p>3 hp to 200 hp, 208 V 5 hp to 250 hp, 230 V 10 hp to 500 hp, 480 V 15 hp to 600 hp, 575 V</p>
Type 1 and Type 12	Type 3R or 50 °C Rated											
3 hp to 150 hp, 208 V	3 hp to 125 hp, 208 V											
5 hp to 200 hp, 230 V	5 hp to 150 hp, 230 V											
10 to 400 hp, 460 V	10 to 400 hp, 460 V											
15 to 500 hp, 575 V	15 to 500 hp, 575 V											
Configurable options	<p>Basic shunt trip Full featured shunt trip nonreversing isolation Reversing isolation Integral full voltage bypass</p>	<p>Customizable products</p> <p>Nonreversing Reversing Shunt trip Extensive options</p>										
Enclosure ratings	<p>Type 1 general purpose Type 12 industrial use (dust-tight/drip-tight) Type 3R outdoor use</p>	<p>Type 1 general purpose Type 12 dust/drip proof Type 3R outdoor service entrance</p>										
Communication	Modbus (embedded)	<p>Modbus (native) Modbus Plus (gateway) Ethernet TCP/IP (gateway) DeviceNet (gateway)</p>										
Standards and certifications	<p>Service entrance rating, UL Listed per UL 508 under category NKJH, conforms to applicable NEMA ICS, NFPA, and IEC standards, manufactured under ISO 9001 standards, factory modification E10 provides Canadian cUL certification per C22.2, No.14, seismic qualification</p>	<p>UL 508, cUL/CSA, seismic qualification ICC ES AC156 acceptance test protocol, ABS</p>										

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