

Enclosed S611 solid-state soft starter



The Eaton line of S611 reduced voltage soft starters is multi-functional, easy to install and straightforward to program. Simplified monitoring and diagnostics are possible with this revolutionary soft starter.

Simplifying commissioning

Optimized for heavy-duty applications, the Eaton S611 enclosed soft starter is a powerful combination of performance capability and application flexibility with one of the best user interface experiences. Providing advanced system information to expedite commissioning, S611 soft starters minimize downtime for heavy-duty applications. The S611 soft starter is designed to:

- Minimize shock to mechanical components
- · Extend system life
- · Increase reliability
- Reduce maintenance requirements

The S611 soft starters deliver powerful performance with an integrated run bypass and overload protection. A fully-rated bypass is available in an enclosed offering. The S611 reduces device counts, panel size, installation time and assembly costs.

S611 soft starter monitoring capabilities include:

- Overload
- Undervoltage
- Overcurrent
- Phase loss
- · Jam and stall protection
- Power monitoring

Fully stocked and readily available, the Eaton S611 enclosed soft starters are available in NEMA® 1, 12, 3R, 4 and 4X, with keypad door mounting and external bypass options. The Eaton S611 enclosed soft starters withstand rigorous duty cycles, helping construction and OEM customers improve reliability.



Product description

Designed to control acceleration and deceleration of three-phase motors up to 600V, current ratings 26–414A.

- Ease of commissioning and troubleshooting (intuitive user interface)
- Internal run bypass
- 120 Vac control voltage
- Open architecture for serviceability (PCBs and contactors can be replaced in the field)
- Built-in overload protection
 - Adjustable trip class
 5, 10, 20, 30
 - 50–100% FLA adjustment

- Selectable current limit or ramp start
- · Adjustable ramp times
 - 0–180 seconds standard
 - Extended ramps available
- Adjustable torque control
- · Adjustable kick start control
- · Soft stop control
 - 0-60 seconds standard
 - Extended times available
- Built-in low impedance contactor
- · Six SCR control in all units
- Selectable phase reversal protection

Enclosed units

- Keypad is posted outside the door
- External bypass is available
- Enclosed options include NEMA Type 1, 12, 3R, 4 and 4X

Features and benefits

Reduced mechanical stress on system

- Reduces wear on belts, gears, chains, clutches, shafts and bearings, realizing 2–6 times the life on standard belts with a soft starter
- Eliminates water-hammer in pumping applications extends component life and helps limit leakage in system

- Minimizes shock to product on conveyor lines and material handling gear
- Catches motors and fans on the fly and controls their acceleration

Electrical system improvements

- Limits the peak inrush current as required by many local codes
- Helps to eliminate sags on the plant electrical grid when starting large loads, thus avoiding brownout conditions

W34 enclosed S611 (stocked)

S611 Horsepower Ratings Based on Standard Duty-300%

	60 Hz-	-300% D	uty		NEMA Type Enclosure			Disconnect			Transformer	Cover Control	
Max. Current	208V	240V	480V	600V	12	3R	4	Non- Combo	Fusible	Breaker	СРТ	ноа	START/ STOP
52A	15	15	40	50	_		_	_	_		•		•
65A	20	20	50	60	_	_	_	_	_	_	_	_	_
77A	25	25	60	75	_		_	_	_		•	•	•
99A	30	30	75	100			_	_	_				
125A	40	40	100	125			_	_	_		•	•	•
156A	50	60	125	150	_	_	_	_	_	_	_	_	_
180A	60	60	150	150	•		_	_	_		•	•	•
242A	75	75	200	250	_		_	_	_				
302A	100	100	250	300	_	_	_	_	_	_	_	_	_
361A	125	150	300	350			_	_	_	_	_	_	_
414A	150	150	350	450	_	_	_	_	_	_	_	_	_

Note: Door-mounted keypad and pump control S611 are provided as standard.

Vista registered enclosed S611 (two weeks lead-time)

S611 Horsepower Ratings Based on Standard Duty-300%

	60 Hz /	300% Du	ity		NEMA Type Enclosure				Disconne	ect		Transformer	Cover Control		
Max. Current	208V	240V	480V	600V	1	12	3R	4	Non- Combo	Fusible	Breaker	СРТ	ноа	START/ STOP	Lead-Time
52A	15	15	40	50				_				•			
65A	20	20	50	60				_							_
77A	25	25	60	75				_							
99A	30	30	75	100				_							_
125A	40	40	100	125				_				•	•	•	
156A	50	60	125	150				_							2 weeks
180A	60	60	150	150				_							
242A	75	75	200	250				_							_
302A	100	100	250	300	_	_	_								
361A	125	150	300	350	_	_	_								_
414A	150	150	350	450	_	_	_								

Note: Door-mounted keypad and pump control S611 are provided as standard.



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