

## ITEM OPPORTUNITY SYNOPSIS

<b>Scouting Number:</b>	2024-247
<b>Name of the item to be scouted:</b>	Motor Soft Starter
<b>State item to be used in:</b>	Washington
<b>Describe the Item:</b>	
<b>Please describe the item application/the end use of the item.</b>	Electronic motor soft starter, 200-600VAC, maximum current capacity 37amps, overload 30-100%FLA, .5-180 ramp time, operating temp rage -22 TO 131 degrees F, control power voltage 24VDC or 120VAC, Virbration resistance 3g, mounting din rail.
<b>Supplier Information:</b>	
<b>Type of Supplier Being Sought (select from the list below):</b>	
Manufacturer	
Contract Manufacturer	
Distributor	x
Other (Please Specify)	
<b>Reason for Scouting Submission (select from the list below)</b>	
2nd Supplier	
Price	
Re-Shore	
Past supplier no longer available	
New Product Startup	
BABA	x
Other (Please Specify)	
<b>Summary of Technical Specifications and Performance Requirements:</b>	
<b>Describe the manufacturing processes (elaborate to provide as much detail as possible)</b>	Electronic Assembly
<b>Provide dimensions / size / tolerances / performance specifications of the item</b>	3"W x 7.5Ht x 6.5"D See attached document for additional information.
<b>List required materials needed to make the product, including materials of product components, if applicable</b>	Various as needed for implementation
<b>Are there applicable certification requirements?</b>	
Yes	x
No	
<b>Please explain:</b>	UL
<b>Are there any applicable regulations that apply to the production of this item?</b>	
Yes	
No	x
<b>Please explain:</b>	
<b>Are there any other standards / requirements?</b>	
Yes	
No	x
<b>Please explain:</b>	
<b>NAICS CODES:</b>	
NAICS 1	335312 Motor and generator manufacturing
NAICS 2	
<b>Additional Comments:</b>	
<b>Additional technical comments:</b>	Similar to EATON S11+N37
<b>Volume and Pricing:</b>	
<b>Estimated Potential Business Volume (i.e. #units per day, month, year):</b>	20 per year
<b>Estimated Target Price/Unit Cost Information:</b>	\$1750.00 EA
<b>Delivery Requirements:</b>	
<b>When is it needed by? (Immediate, 30 days, 6 months, etc.)</b>	2 months
<b>Describe packaging requirements (i.e. individually/group packaging, etc.)</b>	Individually Wrapped
<b>Where will this item be shipped?</b>	Troutdale, Oregon
<b>Additional Comments:</b>	

**Is there other information you would like to include?**

Federal Aviation Administration Point of Contact information for questions including BABA/Buy American compliance: Carlos Fields carlos@faa.gov  
Please copy scouting@nist.gov on all correspondence.

## S811+/S801+ soft starters



# Advanced intelligence. Compact footprint.



The S811+ provides an intuitive user interface.

### High-performance family

The Eaton S811+/S801+ soft starter family delivers solid performance beyond standard protection features found in most soft starters. Choosing a soft starter will increase your productivity and reduce your costs by:

- Eliminating abrupt starts and stops, extending mechanical life of system
- Better control of motor torque, increasing gearbox and bearing life, reducing belt wear and eliminating water hammer
- Lowering inrush, reducing peak demand charges
- Reducing brownouts and decreasing overall energy usage
- Integrating overload protection
- Reducing number of devices, panel size, installation time and assembly costs with internal run bypass contactors

### S811+ key features

Compact, easy to program and easy to install, the S811+ line of soft starters is ideally suited for open, enclosed and motor control center (MCC) applications. Ranging from 11 A to 1000 A, the S811+ provides an array of built-in features designed to address the needs of industrial and OEM customers.

- Sophisticated pump algorithm
- Communication ready—native Modbus® RTU and QCPort with external EtherNet/IP and Modbus TCP communication modules
- Advanced protection capabilities
- Sophisticated monitoring functions: power, power factor, phase currents, phase voltage, device temperature and more
- Selectable warnings available to avoid nuisance tripping
- Streamlined menu structure for programming, easy installation, setup, maintenance and monitoring
- Copy-and-paste keypad user interface
- Pump and 690 V versions (P3S and V3S) include ground fault protection

- Engineered to industry standards:
  - IEC 60947-4-2
  - EN 60947-4-2
  - C-Tick
  - CSA® elevator duty



The S801+ is available with dials and DIP switches for configuration.

# EATON

Powering Business Worldwide

## Key benefits

### Smaller size

The S811+/S801+ units are among the smallest starters in the industry. Reducing enclosure size for new production units, and enabling easier retrofits, minimizes the system costs.



### Severe duty capable

The S811+/S801+ soft starters have been time tested in various applications and environments.

This family features conformally coated boards suitable for harsh environments. Kick-start function enables soft starting of high inertia loads.

### Integrated advanced intelligence

High levels of protection are built into the S811+/S801+ soft starters.

- Protective features: electronic overload, jam, stall, SCR overtemperature, phase loss, phase imbalance, automatic or manual reset, phase reversal, shorted SCR detection, open SCR detection, undercurrent, undervoltage, overvoltage, diagnostics

### Packaged options

Packaged S811+/S801+ units give you more starting torque and more motor current in dramatically reduced enclosures. Enclosed soft starter units are up to 78 percent smaller, and MCC units are up to 63 percent smaller, than competitive offerings.



Features	S811+	S801+
Communications	■	
Pump algorithm option	■	
Dials and DIP switches (CIM)		■
Digital interface (DIM)	■	
Programmable inputs	■	
Analog input	■	
Programmable relays	■	
Inside the delta	■	
Fault warnings	■	
690 V option	■	
Long ramp option	■	
Integrated bypass	■	■
24 Vdc control	■	■
Overload	■	■

### S811+/S801+ technical data

Description	Specifications
<b>General information</b>	
Initial torque	0–85%
Ramp time range	0.5–180 seconds
Soft stop time range	0–60 seconds
Kick-start time range	0–2 seconds
Vibration resistance—non-operating	3 g
Vibration resistance—operating	3 g
Shock resistance	15 g
<b>Electrical information</b>	
Operating voltage	200–600 V (T-, V-Frame—up to 690 V)
Overload setting (frame)	30–100% FLA
Trip class	5, 10, 20, 30
<b>Control power requirements</b>	
Voltage range (24 V ±10%)	21.6–26.4 V
Steady-state current	1 A
In-rush current	10 A
<b>Relays Class A and C</b>	
Voltage AC—maximum	230 V
Voltage DC—maximum	24 V
Amperes—maximum	3 A
<b>Environment</b>	
Temperature—operating	–30 °C to +50 °C
Temperature—storage	–50 °C to +70 °C
Altitude	<2000 m
Humidity	<95% noncondensing
Operating position	Any
Pollution degree IEC947-1	3
Impulse withstand voltage IEC947-1	6000 V

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### Current capacity and dimensions

Soft starter (partial catalog number)		Maximum current capacity (amperes)	Dimensions in inches (mm)			Weight lb (kg)
S811+	S801+		Width	Height	Depth	
<b>S811+N37</b>	<b>S801+N37</b>	37	2.66 (67.6)	7.37 (187.2)	6.45 (163.8)	5.8 (2.6)
<b>S811+N66</b>	<b>S801+N66</b>	66	2.66 (67.6)	7.37 (187.2)	6.45 (163.8)	5.8 (2.6)
<b>S811+R10</b>	<b>S801+R10</b>	105	4.38 (111.3)	7.92 (201.2)	6.64 (168.7)	10.5 (4.8)
<b>S811+R13</b>	<b>S801+R13</b>	135	4.38 (111.3)	7.92 (201.2)	6.64 (168.7)	10.5 (4.8)
<b>S811+T18</b>	<b>S801+T18</b>	180	7.65 (194.4)	12.71 (322.8)	6.47 (164.3)	48 (21.8)
<b>S811+T24</b>	<b>S801+T24</b>	240	7.65 (194.4)	12.71 (322.8)	6.47 (164.3)	48 (21.8)
<b>S811+T30</b>	<b>S801+T30</b>	300	7.65 (194.4)	12.71 (322.8)	6.47 (164.3)	48 (21.8)
<b>S811+U36</b>	<b>S801+U36</b>	360	7.73 (196.3)	12.72 (323.1)	7.16 (181.9)	48 (21.8)
<b>S811+U42</b>	<b>S801+U42</b>	420	7.73 (196.3)	12.72 (323.1)	7.16 (181.9)	48 (21.8)
<b>S811+U50</b>	<b>S801+U50</b>	500	7.73 (196.3)	12.72 (323.1)	7.16 (181.9)	48 (21.8)
<b>S811+V36</b>	<b>S801+V36</b>	360	11.05 (280.7)	16.57 (420.9)	7.38 (187.5)	103 (46.7)
<b>S811+V42</b>	<b>S801+V42</b>	420	11.05 (280.7)	16.57 (420.9)	7.38 (187.5)	103 (46.7)
<b>S811+V50</b>	<b>S801+V50</b>	500	11.05 (280.7)	16.57 (420.9)	7.38 (187.5)	103 (46.7)
<b>S811+V65</b>	<b>S801+V65</b>	650	11.05 (280.7)	16.57 (420.9)	7.38 (187.5)	103 (46.7)
<b>S811+V72</b>	<b>S801+V72</b>	720	11.05 (280.7)	16.57 (420.9)	7.38 (187.5)	103 (46.7)
<b>S811+V85</b>	<b>S801+V85</b>	850	11.05 (280.7)	16.57 (420.9)	7.38 (187.5)	103 (46.7)
<b>S811+V10</b>	<b>S801+V10</b>	1000	11.05 (280.7)	16.57 (420.9)	7.38 (187.5)	103 (46.7)