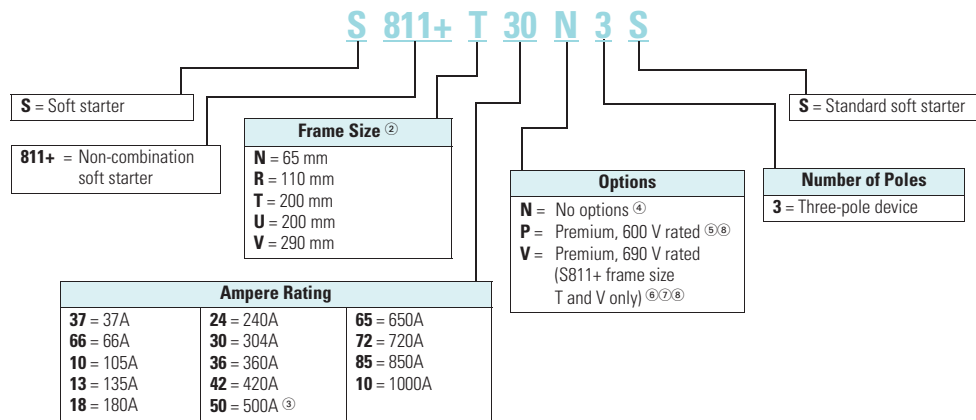


Catalog Number Selection

S811+ Open Soft Starters ^①



Notes

- ① All units require a 24 Vdc power supply found on catalog **Page V6-T1-88**, or equivalent.
- ② S811+T..., S811+U... and S811+V... units require lug kits found on **Page V6-T1-88**.
- ③ S811+U50... unit does not have IEC certification.
- ④ Level/Edge Sense, Inline or Inside-the-Delta wiring configuration.
- ⑤ Level/Edge Sense, Inline or Inside-the-Delta wiring configuration, pump control and extended ramp.
- ⑥ Not available in S811+U...
- ⑦ Level/Edge Sense, Inline wiring configuration, pump control, extended ramp.
- ⑧ Ground fault protection included.

Product Selection

Standard Duty Ratings

Starting Method	Ramp Current % of FLA	Ramp Time Seconds	Starts per Hour	Ambient Temperature
Soft start	300%	30 sec.	3	50°C
Full voltage	500%	10 sec.	3	50°C
Wye-delta	350%	20 sec.	3	50°C
80% RVAT	480%	20 sec.	2	50°C
65% RVAT	390%	20 sec.	3	50°C
50% RVAT	300%	20 sec.	4	50°C

Motor applications and customer needs come in many different varieties. With the standard and severe duty rating tables, we have attempted to provide

guidelines on what the soft starter is capable of. If the application falls under these categories, you can use these charts. For other applications, or when a

question arises, consult with your local Eaton representative or call our Technical Resource Center.

S811+



Standard Duty—15 Second Ramp, 300% Current Limit at 40°C, Inline Connection

Rated Current	Three-Phase Motors kW Rating (50 Hz)			hp Rating (60 Hz)				575–690 V				Catalog Number ^①
	230 V	380–400 V	440 V	200 V		230 V		460 V		1.0SF		
Frame Size N												
37	10	18.5	18.5	10	10	10	10	25	20	30	30	S811+N37N3S
66	18.5	30	37	20	15	20	20	50	40	60	50	S811+N66N3S
Frame Size R												
105	30	55	59	30	25	40	30	75	60	100	75	S811+R10N3S
135	40	63	80	40	30	50	40	100	75	125	100	S811+R13N3S
Frame Size T												
180	51	90	110	60	50	60	60	150	125	150	150	S811+T18N3S
240	75	110	147	75	60	75	75	200	150	200	200	S811+T24N3S
304	90	160	185	100	75	100	100	250	200	300	250	S811+T30N3S
Frame Size U												
360	110	185	220	125	100	150	125	300	250	350	300	S811+U36N3S
420	129	220	257	150	125	175	150	350	300	450	350	S811+U42N3S
500	150	257	300	150	150	200	150	400	350	500	450	S811+U50N3S^②
Frame Size V												
360	110	185	220	125	100	150	125	300	250	350	300	S811+V36N3S
420	129	220	257	150	125	175	150	350	300	450	350	S811+V42N3S
500	150	257	300	150	150	200	150	400	350	500	450	S811+V50N3S
650	200	355	425	250	200	250	200	500	450	600	500	S811+V65N3S
720	220	400	450	—	—	300	250	600	500	700	600	S811+V72N3S
850	257	475	500	—	—	350	300	700	600	900	700	S811+V85N3S
1000	277	525	550	—	—	400	350	800	700	900	800	S811+V10N3S

Notes

- ① Replace N3S with P3S for premium/pump option.
- ② S811+U50... rating does not have IEC certification.

Severe Duty

Severe Duty Ratings

Starting Method	Ramp Current % of FLA	Ramp Time Seconds	Starts per Hour	Ambient Temperature
Soft start	450%	30 sec.	4	50°C
Full voltage	500%	10 sec.	10	50°C
Wye-delta	350%	65 sec.	3	50°C
80% RVAT	480%	25 sec.	4	50°C
65% RVAT	390%	40 sec.	4	50°C
50% RVAT	300%	60 sec.	4	50°C

Severe duty ratings are defined as any combination of parameters that exceed the standard duty ratings where

the ramp time is over 30 seconds, and/or the number of starts per hour exceeds 4, and/or the current limit set is

over 300%. *Example:* 35-second ramp, 5 starts per hour, 350% current limit at 40°C ambient.

S811+



Severe Duty—30 Second Ramp and/or 450% Current Limit at 50°C, Inline Connection

Rated Current	Three-Phase Motors kW Rating (50 Hz)			hp Rating (60 Hz)				575–690 V				Catalog Number ^①
	230 V	380–400 V	440 V	200 V		230 V		460 V		575–690 V		
				1.0SF	1.15SF	1.0SF	1.15SF	1.0SF	1.15SF	1.0SF	1.15SF	
Frame Size N												
22	5.5	10	11	5	5	7-1/2	5	15	10	20	15	S811+N37N3S
42	11	18.5	22	10	10	15	10	30	25	40	30	S811+N66N3S
Frame Size R												
65	15	30	33	15	15	20	15	50	40	50	50	S811+R10N3S
80	22	40	45	25	20	30	25	60	50	75	60	S811+R13N3S
Frame Size T												
115	33	59	63	30	30	40	30	75	75	100	100	S811+T18N3S
150	45	80	90	50	40	50	50	100	100	150	125	S811+T24N3S
192	55	100	110	60	50	75	60	150	125	200	150	S811+T30N3S
Frame Size U												
240	75	110	147	75	60	75	75	200	150	200	200	S811+U36N3S
305	90	160	185	100	75	100	100	250	200	300	250	S811+U42N3S
365	110	185	220	125	100	150	125	300	250	350	300	S811+U50N3S^②
Frame Size V												
240	75	110	147	75	60	75	75	200	150	200	200	S811+V36N3S
305	90	160	185	100	75	100	100	250	200	300	250	S811+V42N3S
365	110	185	220	125	100	150	125	300	250	350	300	S811+V50N3S
420	129	220	257	150	125	150	150	350	300	450	350	S811+V65N3S
480	147	257	295	150	150	200	150	400	350	500	450	S811+V72N3S
525	160	280	335	150	150	200	150	450	350	500	450	S811+V85N3S
575	172	303	370	200	150	250	200	500	450	600	500	S811+V10N3S

Notes

- ① Replace N3S with P3S for premium/pump option.
- ② S811+U50... rating does not have IEC certification.

Inside-the-Delta Standard Duty Ratings

S811+



Standard Duty – 15 Second Ramp, 300% Current Limit at 40°C, Inside-the-Delta Connection

Rated Motor Line Current	Three-Phase Motor kW Rating (50 Hz)			hp Rating (60 Hz)								Catalog Number ^①
	230 V	380–400 V	440 V	200 V		230 V	460 V	575 V				
				1.0SF	1.15SF	1.0SF	1.15SF	1.0SF	1.15SF	1.0SF	1.15SF	
Frame Size N												
65	10	18.5	18.5	15	15	15	15	40	30	50	50	S811+R37N3S
114	18.5	30	37	30	25	30	30	75	60	100	75	S811+R66N3S
Frame Size R												
182	30	55	59	50	40	60	50	125	100	150	125	S811+R10N3S
234	40	63	80	60	50	75	60	150	125	200	150	S811+R13N3S
Frame Size T												
311	51	90	110	100	75	100	100	250	200	250	250	S811+T18N3S
415	75	110	147	125	100	125	125	300	250	300	300	S811+T24N3S
526	90	160	185	150	125	150	150	400	300	400	400	S811+T30N3S
Frame Size U												
623	110	185	220	200	150	250	200	450	400	550	450	S811+U36N3S
727	129	220	257	250	200	300	250	550	450	700	550	S811+U42N3S
865	150	257	300	250	250	300	250	600	550	750	700	S811+U50N3S ^{②③}
Frame Size V												
623	110	185	220	200	150	250	200	450	400	550	450	S811+V36N3S
727	129	220	257	250	200	300	250	550	450	700	550	S811+V42N3S
865	150	257	300	250	250	300	250	600	550	750	700	S811+V50N3S
1125	200	355	425	400	300	400	300	750	700	900	750	S811+V65N3S
1246	—	—	—	—	—	—	—	—	—	—	—	S811+V72N3S
1471	—	—	—	—	—	—	—	—	—	—	—	S811+V85N3S
—	—	—	—	—	—	—	—	—	—	—	—	S811+V10N3S

Notes

- ① Replace N3S with P3S for premium/pump option.
- ② S811+U50... unit does not have IEC certification.
- ③ 15 sec. start, 300% inrush, 40 °C, 1 start every 15 minutes. If these start parameters are exceeded, please refer to S811+V50... Catalog numbers also represent P3S and V3S units.

Inside-the-Delta Severe Duty Ratings

Severe duty ratings are defined as any combination of parameters that exceed the standard duty ratings where the ramp time is over 30 seconds, and/or the number of starts per hour exceeds 4, and/or the current limit set is over 300%.

Example: 35-second ramp, 5 starts per hour 350% current limit at 40°C ambient.

S811+



Severe Duty—30 Second Ramp and/or 450% Current Limit at 50°C, Inside-the-Delta Connection

Rated Motor Line Current	Three-Phase Motor												Catalog Number ①
	kW Rating (50 Hz)			hp Rating (60 Hz)									
	230 V	380–400 V	440 V	200 V		230 V		460 V		575 V			
			1.0SF	1.15SF	1.0SF	1.15SF	1.0SF	1.15SF	1.0SF	1.15SF			
Frame Size N													
39	5.5	10	11	7-1/2	7-1/2	10	7-1/2	25	15	30	25	S811+N37N3S	
73	11	18.5	22	15	15	25	15	50	40	60	50	S811+N66N3S	
Frame Size R													
111	15	30	33	25	25	30	25	75	60	75	75	S811+R10N3S	
138	22	40	45	40	30	50	40	100	75	120	100	S811+R13N3S	
Frame Size T													
199	33	59	63	50	50	60	50	125	125	150	150	S811+T18N3S	
257	45	80	90	75	60	75	75	150	150	250	200	S811+T24N3S	
324	55	100	110	100	75	100	100	250	200	300	250	S811+T30N3S	
Frame Size U													
415	75	110	147	125	100	125	125	300	250	300	300	S811+U36N3S	
526	90	160	185	150	120	150	150	400	300	450	400	S811+U42N3S	
623	110	185	220	200	150	250	200	450	400	550	450	S811+U50N3S ②	
Frame Size V													
415	75	110	147	125	100	125	125	300	250	300	300	S811+V36N3S	
526	90	160	185	150	120	150	150	400	300	450	400	S811+V42N3S	
623	110	185	220	200	150	250	200	450	400	550	450	S811+V50N3S	
727	129	220	257	250	200	250	250	550	450	700	550	S811+V65N3S	
816	147	257	295	250	250	300	250	600	550	750	700	S811+V72N3S	
908	160	280	335	250	250	300	250	700	550	750	700	S811+V85N3S	
												S811+V10N3S	

Notes

- ① Replace N3S with P3S for premium/pump option.
- ② S811+U50... unit does not have IEC certification.