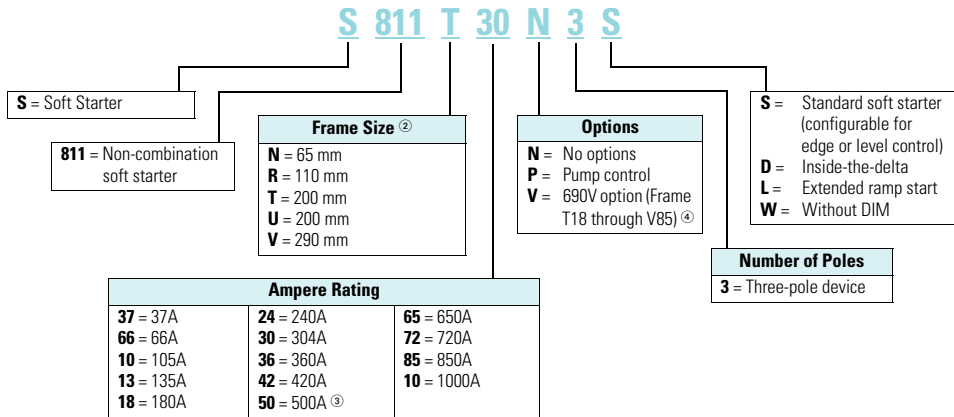


Catalog Number Selection

S811 Open Soft Starters ^①



Notes

- ^① All units require a 24 Vdc power supply found on catalog **Page V6-T1-107**, or equivalent.
- ^② T-, U- and V-Frames require lug kits found on **Page V6-T1-107**.
- ^③ U-Frame 500A unit does not have IEC certification.
- ^④ Not available in U-Frame.

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, 4 Starts per Hour, 300% Current Limit at 40°C

Max. Current	Three-Phase Motors kW Rating (50 Hz)			hp Rating (60 Hz)						575–690V ^①		Catalog Number
	230V	380–400V	440V	200V 1.0SF	230V 1.15SF	460V 1.0SF	1.15SF	1.0SF	1.15SF	1.0SF	1.15SF	
Frame Size N												
37	10	18.5	18.5	10	10	10	10	25	20	30	30	S811N37N3S
66	18.5	30	37	20	15	20	20	50	40	60	50	S811N66N3S
Frame Size R												
105	30	55	59	30	25	40	30	75	60	100	75	S811R10N3S
135	40	63	80	40	30	50	40	100	75	125	100	S811R13N3S
Frame Size T												
180	51	90	110	60	50	60	60	150	125	150	150	S811T18N3S
240	75	110	147	75	60	75	75	200	150	200	200	S811T24N3S
304	90	160	185	100	75	100	100	250	200	300	250	S811T30N3S
Frame Size U												
360	110	185	220	125	100	150	125	300	250	350	300	S811U36N3S
420	129	220	257	150	125	175	150	350	300	450	350	S811U42N3S
500	150	257	300	150	150	200	150	400	350	500	450	S811U50N3S^②
Frame Size V												
360	110	185	220	125	100	150	125	300	250	350	300	S811V36N3S
420	129	220	257	150	125	175	150	350	300	450	350	S811V42N3S
500	150	257	300	150	150	200	150	400	350	500	450	S811V50N3S
650	200	355	425	250	200	250	200	500	450	600	500	S811V65N3S
720	220	400	450	—	—	300	250	600	500	700	600	S811V72N3S
850	257	475	500	—	—	350	300	700	600	900	700	S811V85N3S
1000	277	525	550	—	—	400	350	800	700	900	800	S811V10N3S^③

For **Pump Option**, replace character **8** with **"P"** and also, see **Page V6-T1-108**.

Notes

- ① 690V is available only from T18 thru V85. Not available on U-Frames.
- ② 500A rating does not have IEC certification.
- ③ For more information on optimum performance of the 1000A Frame Size V S811, see Appendix E of MN03902002E.

S811



Standard Duty—25 Second Ramp, 4 Starts per Hour, 300% Current Limit at 40°C

Max. Current	Three-Phase Motors kW Rating (50 Hz)			hp Rating (60 Hz)				575–690V ^①				Catalog Number
	230V	380–400V	440V	200V 1.0SF	1.15SF	230V 1.0SF	1.15SF	460V 1.0SF	1.15SF	1.0SF	1.15SF	
Frame Size N												
34	9	15	18.5	10	7-1/2	10	10	25	20	30	25	S811N37N3S
63	15	30	33	20	15	20	20	40	40	60	50	S811N66N3S
Frame Size R												
96	25	45	55	30	25	30	30	75	60	75	75	S811R10N3S
120	33	63	63	40	30	40	40	75	75	100	100	S811R13N3S
Frame Size T												
150	45	80	90	50	40	50	50	100	100	150	125	S811T18N3S
215	63	110	132	60	60	75	60	150	150	200	150	S811T24N3S
278	80	147	160	75	75	100	75	200	200	250	250	S811T30N3S
Frame Size U												
320	90	160	185	100	75	125	100	250	200	300	250	S811U36N3S
380	110	200	220	125	100	150	125	300	250	350	300	S811U42N3S
460	140	250	280	150	125	150	150	350	300	450	400	S811U50N3S^②
Frame Size V												
320	90	160	185	100	75	125	100	250	200	300	250	S811V36N3S
380	110	200	220	125	100	150	125	300	250	350	300	S811V42N3S
460	140	250	280	150	125	150	150	350	300	450	400	S811V50N3S
610	185	315	375	250	150	200	200	500	450	600	500	S811V65N3S
680	200	375	445	—	200	250	200	600	500	700	600	S811V72N3S
810	250	450	500	—	—	300	300	700	600	900	700	S811V85N3S
890	290	510	560	—	—	400	350	700	600	900	700	S811V10N3S^③

For **Pump Option**, replace character **8** with **“P”** and also, see **Page V6-T1-108**.

Notes

- ① 690V is available only from T18 thru V85. Not available on U-Frames.
- ② 500A rating does not have IEC certification.
- ③ For more information on optimum performance of the 1000A Frame Size V S811, see Appendix E of MN03902002E.

S811



Standard Duty— 15 Second Ramp, 4 Starts per Hour, 300% Current Limit at 50°C

Max. Current	Three-Phase Motors kW Rating (50 Hz)			hp Rating (60 Hz)		230V		460V		575–690V ^①		Catalog Number
	230V	380–400V	440V	200V 1.0SF	1.15SF	1.0SF	1.15SF	1.0SF	1.15SF	1.0SF	1.15SF	
Frame Size N												
34	9	15	18.5	10	7-1/2	10	10	25	20	30	25	S811N37N3S
63	15	30	33	20	15	20	20	40	40	60	50	S811N66N3S
Frame Size R												
96	25	45	55	30	25	30	30	75	60	75	75	S811R10N3S
120	33	63	63	40	30	40	40	75	75	100	100	S811R13N3S
Frame Size T												
150	45	80	90	50	40	50	50	100	100	150	125	S811T18N3S
215	63	110	132	60	60	75	60	150	150	200	150	S811T24N3S
278	80	147	160	75	75	100	75	200	200	250	250	S811T30N3S
Frame Size U												
320	90	160	185	100	75	125	100	250	200	300	250	S811U36N3S
460	110	200	220	125	100	150	125	300	250	350	300	S811U42N3S
460	140	250	280	150	125	150	150	350	300	450	400	S811U50N3S^②
Frame Size V												
320	90	160	185	100	75	125	100	250	200	300	250	S811V36N3S
380	110	200	220	125	100	150	125	300	250	350	300	S811V42N3S
460	140	250	280	150	125	150	150	350	300	450	400	S811V50N3S
610	185	315	375	250	150	200	200	500	450	600	500	S811V65N3S
680	200	375	445	—	200	250	200	600	500	700	600	S811V72N3S
830	257	450	500	—	—	300	300	700	600	900	700	S811V85N3S
960	302	510	540	—	—	350	300	800	700	900	800	S811V10N3S^③

For **Pump Option**, replace character **8** with **“P”** and also, see **Page V6-T1-108**.

Notes

- ① 690V is available only from T18 thru V85. Not available on U-Frames.
- ② 500A rating does not have IEC certification.
- ③ For more information on optimum performance of the 1000A Frame Size V S811, see Appendix E of MN03902002E.

S811



Standard Duty—50 Second Ramp, 2 Starts per Hour, 300% Current Limit at 50°C

Max. Current	Three-Phase Motors kW Rating (50 Hz)			hp Rating (60 Hz)				575–690V ^①				Catalog Number
	230V	380–400V	440V	200V 1.0SF	1.15SF	230V 1.0SF	1.15SF	460V 1.0SF	1.15SF	1.0SF	1.15SF	
Frame Size N												
21	5.5	10	11	5	5	5	5	15	10	15	15	S811N37N3S
42	11	18.5	22	10	10	15	10	30	25	40	30	S811N66N3S
Frame Size R												
60	15	30	33	15	15	20	15	40	40	50	50	S811R10N3S
80	22	40	45	25	20	30	25	60	50	75	60	S811R13N3S
Frame Size T												
115	33	59	63	30	30	40	30	75	75	100	100	S811T18N3S
150	45	80	90	50	40	50	50	100	100	150	125	S811T24N3S
192	55	100	110	60	50	60	60	150	125	200	150	S811T30N3S
Frame Size U												
280	80	150	160	75	75	100	75	200	200	250	250	S811U36N3S
340	110	180	200	100	100	125	100	250	200	350	300	S811U42N3S
380	110	200	220	125	100	150	125	300	250	350	300	S811U50N3S^②
Frame Size V												
280	80	150	160	75	75	100	75	200	200	250	250	S811V36N3S
340	110	180	200	100	100	125	100	250	200	350	300	S811V42N3S
380	110	200	220	125	100	150	125	300	250	350	300	S811V50N3S
420	129	220	257	150	125	150	150	350	300	450	350	S811V65N3S
480	147	257	295	150	150	200	150	400	350	500	450	S811V72N3S
590	180	315	375	200	150	200	200	500	400	600	500	S811V85N3S
650	205	370	415	250	200	250	200	500	450	600	500	S811V10N3S^③

For **Pump Option**, replace character **8** with **"P"** and also, see **Page V6-T1-108**.

Notes

- ① 690V is available only from T18 thru V85. Not available on U-Frames.
- ② 500A rating does not have IEC certification.
- ③ For more information on optimum performance of the 1000A Frame Size V S811, see Appendix E of MN03902002E.

S811



Standard Duty—15 Second Ramp, 4 Starts per Hour, 450% Current Limit at 40°C

Max. Current	Three-Phase Motors kW Rating (50 Hz)			hp Rating (60 Hz)				575–690V ^①				Catalog Number		
	230V	380–400V	440V	200V		230V		460V		1.0SF			1.15SF	
				1.0SF	1.15SF	1.0SF	1.15SF	1.0SF	1.15SF	1.0SF	1.15SF			
Frame Size N														
29	7.5	12.5	15	7-1/2	7-1/2	10	7-1/2	20	15	25	20	S811N37N3S		
49	12.5	22	25	15	10	15	15	30	30	40	40	S811N66N3S		
Frame Size R														
73	18.5	37	40	20	20	25	20	50	40	60	60	S811R10N3S		
94	25	45	55	30	25	30	30	60	60	75	75	S811R13N3S		
Frame Size T														
155	45	80	90	50	40	60	50	100	100	150	125	S811T18N3S		
219	63	110	132	60	60	75	60	150	150	200	150	S811T24N3S		
280	80	150	160	75	75	100	75	200	200	250	250	S811T30N3S		
Frame Size U														
345	100	185	200	100	100	125	100	250	200	350	300	S811U36N3S		
405	110	200	250	125	100	150	125	300	250	400	350	S811U42N3S		
Frame Size V														
345	100	185	200	100	100	125	100	250	200	350	300	S811V36N3S		
405	110	200	250	125	100	150	125	300	250	400	350	S811V42N3S		
465	140	250	280	150	125	150	150	350	300	450	400	S811V50N3S		
530	160	280	335	150	150	200	150	450	350	500	450	S811V65N3S		
590	180	315	375	200	150	—	200	500	400	600	500	S811V72N3S		
651	200	355	425	—	—	—	—	600	450	700	600	S811V85N3S		
754	220	400	465	—	—	—	—	600	500	800	700	S811V10N3S^②		

For **Pump Option**, replace character **8** with **“P”** and also, see **Page V6-T1-108**.

Notes

- ① 690V is available only from T18 thru V85. Not available on U-Frames.
- ② For more information on optimum performance of the 1000A Frame Size V S811, see Appendix E of MN03902002E.

S811


Standard Duty—30 Second Ramp, 4 Starts per Hour, 450% Current Limit at 40°C

Max. Current	Three-Phase Motors kW Rating (50 Hz)			hp Rating (60 Hz)				575–690V ^①				Catalog Number
	230V	380–400V	440V	200V 1.0SF	1.15SF	230V 1.0SF	1.15SF	460V 1.0SF	1.15SF	1.0SF	1.15SF	
Frame Size N												
21	5.5	10	12.5	5	5	5	5	15	10	15	15	S811N37N3S
40	11	18.5	22	10	10	10	10	30	25	30	30	S811N66N3S
Frame Size R												
55	15	25	30	15	15	20	15	40	30	50	40	S811R10N3S
75	22	37	45	20	20	25	20	50	50	60	60	S811R13N3S
Frame Size T												
151	45	80	90	50	40	50	50	100	100	150	125	S811T18N3S
215	63	110	132	60	60	75	60	150	150	200	150	S811T24N3S
264	80	140	160	75	75	100	75	200	150	250	200	S811T30N3S
Frame Size U												
300	90	160	185	100	75	100	100	200	200	300	250	S811U36N3S
340	100	180	200	100	100	125	100	250	200	350	300	S811U42N3S
380	110	200	220	125	100	150	125	300	250	350	300	S811U50N3S
Frame Size V												
300	90	160	185	100	75	100	100	200	200	300	250	S811V36N3S
340	100	180	200	100	100	125	100	250	200	350	300	S811V42N3S
380	110	200	220	125	100	150	125	300	250	350	300	S811V50N3S
420	129	220	257	150	125	150	150	350	300	450	350	S811V65N3S
460	140	250	280	150	125	150	150	350	300	450	400	S811V72N3S
500	150	257	300	150	150	200	150	400	350	500	450	S811V85N3S
560	160	277	325	200	150	250	200	500	400	600	500	S811V10N3S^②

For **Pump Option**, replace character **8** with **"P"** and also, see **Page V6-T1-108**.

Notes

- ① 690V is available only from T18 thru V85. Not available on U-Frames.
 ② For more information on optimum performance of the 1000A Frame Size V S811, see Appendix E of MN03902002E.

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, the number of starts per hour exceeds 4, 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, >4 Starts per Hour or >300% Current Limit

Max. Current	Three-Phase Motors kW Rating (50 Hz)				hp Rating (60 Hz)				575–690V ^①		Catalog Number	
	230V		440V		230V		460V		1.0SF	1.15SF		
	230V	380–400V	440V	200V	1.15SF	230V	1.15SF	460V	1.15SF	1.0SF		1.15SF
Frame Size N												
22	5.5	10	11	5	5	7-1/2	5	15	10	20	15	S811N37N3S
42	11	18.5	22	10	10	15	10	30	25	40	30	S811N66N3S
Frame Size R												
65	15	30	33	15	15	20	15	50	40	50	50	S811R10N3S
80	22	40	45	25	20	30	25	60	50	75	60	S811R13N3S
Frame Size T												
115	33	59	63	30	30	40	30	75	75	100	100	S811T18N3S
150	45	80	90	50	40	50	50	100	100	150	125	S811T24N3S
192	55	100	110	60	50	75	60	150	125	200	150	S811T30N3S
Frame Size U												
240	75	110	147	75	60	75	75	200	150	200	200	S811U36N3S
305	90	160	185	100	75	100	100	250	200	300	250	S811U42N3S
Frame Size V												
240	75	110	147	75	60	75	75	200	150	200	200	S811V36N3S
305	90	160	185	100	75	100	100	250	200	300	250	S811V42N3S
365	110	185	220	125	100	150	125	300	250	350	300	S811V50N3S
420	129	220	257	150	125	150	150	350	300	450	350	S811V65N3S
480	147	257	295	150	150	200	150	400	350	500	450	S811V72N3S
525	160	280	335	150	150	200	150	450	350	500	450	S811V85N3S
575	172	303	370	200	150	250	200	500	450	600	500	S811V10N3S^②

Notes

① 690V is available only from T18 thru V85. Not available on U-Frames.

② For more information on optimum performance of the 1000A Frame Size V S811, see Appendix E of MN03902002E.

Inside-the-Delta Standard Duty Ratings

S811

**Inside-the-Delta Standard Duty—15 Second Ramp, 4 Starts per Hour, 300% Current Limit at 40°C Ambient**

Max. Continuous Motor Line Current	Three-Phase Motor kW Rating (50 Hz)			hp Rating (60 Hz)								Catalog Number
	230V	380–400V	440V	200V	230V	460V	575V	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	S811N37N3D
114	18.5	30	37	30	25	30	30	75	60	100	75	S811N66N3D
Frame Size R												
182	30	55	59	50	40	60	50	125	100	150	125	S811R10N3D
234	40	63	80	60	50	75	60	150	125	200	150	S811R13N3D
Frame Size T												
311	51	90	110	100	75	100	100	250	200	250	250	S811T18N3D
415	75	110	147	125	100	125	125	300	250	300	300	S811T24N3D
526	90	160	185	150	125	150	150	400	300	400	400	S811T30N3D
Frame Size U												
623	110	185	220	200	150	250	200	450	400	550	450	S811U36N3D
727	129	220	257	250	200	300	250	550	450	700	550	S811U42N3D
865	150	257	300	250	250	300	250	600	550	750	700	S811U50N3D ^{①②}
Frame Size V												
623	110	185	220	200	150	250	200	450	400	550	450	S811V36N3D
727	129	220	257	250	200	300	250	550	450	700	550	S811V42N3D
865	150	257	300	250	250	300	250	600	550	750	700	S811V50N3D
1125	200	355	425	400	300	400	300	750	700	900	750	S811V65N3D
1246	—	—	—	—	—	—	—	—	—	—	—	S811V72N3D
1471	—	—	—	—	—	—	—	—	—	—	—	S811V85N3D
—	—	—	—	—	—	—	—	—	—	—	—	S811V10N3D ^③

Notes

- ① 15 sec. start, 300% inrush, 40°C, 1 start every 15 minutes. If these start parameters are exceeded, please refer to 290 mm V-Frame, 865A inside-the-delta starter.
- ② U-Frame 500A unit does not have IEC certification.
- ③ For more information on optimum performance of the 1000A Frame Size V S811, see Appendix E of MN03902002E.

S811



Inside-the-Delta Standard Duty—25 Second Ramp, 4 Starts per Hour, 300% Current Limit at 40°C Ambient

Max. Continuous Motor Line Current	Three-Phase Motor kW Rating (50 Hz)			hp Rating (60 Hz)								Catalog Number
	230V	380–400V	440V	200V 1.0SF	1.15SF	230V 1.0SF	1.15SF	460V 1.0SF	1.15SF	575V 1.0SF	1.15SF	
Frame Size N												
58	9	15	18.5	15	10	15	15	40	30	50	40	S811N37N3D
108	15	30	33	30	25	30	30	60	60	100	75	S811N66N3D
Frame Size R												
164	25	45	55	50	40	50	50	125	100	125	125	S811R10N3D
206	33	63	63	60	50	60	50	125	125	150	150	S811R13N3D
Frame Size T												
257	45	80	90	75	60	75	60	150	150	250	200	S811T18N3D
365	63	110	132	100	100	125	100	250	250	300	250	S811T24N3D
477	80	147	160	125	125	150	125	300	300	400	400	S811T30N3D
Frame Size U												
554	90	160	185	150	125	200	150	400	300	450	400	S811U36N3D
646	110	200	220	200	150	250	200	500	400	550	450	S811U42N3D
796	140	250	280	250	200	250	250	550	500	700	600	S811U50N3D ①②
Frame Size V												
554	90	160	185	150	125	200	150	400	300	450	400	S811V36N3D
646	110	200	220	200	150	250	200	500	400	550	450	S811V42N3D
796	140	250	280	250	200	250	250	550	500	700	600	S811V50N3D
1055	185	315	375	400	250	300	300	800	700	900	750	S811V65N3D
1176	200	375	445	—	300	400	300	900	800	900	900	S811V72N3D
1358	—	—	—	—	—	—	—	—	—	—	—	S811V85N3D
—	—	—	—	—	—	—	—	—	—	—	—	S811V10N3D ③

Notes

- ① 15 sec. start, 300% inrush, 40°C, 1 start every 15 minutes. If these start parameters are exceeded, please refer to 290 mm V-Frame, 796A inside-the-delta starter.
- ② U-Frame 500A unit does not have IEC certification.
- ③ For more information on optimum performance of the 1000A Frame Size V S811, see Appendix E of MN03902002E.

S811


**Inside-the-Delta Standard Duty— 15 Second Ramp, 4 Starts per Hour,
300% Current Limit at 50°C Ambient**

Max. Continuous Motor Line Current	Three-Phase Motor kW Rating (50 Hz)			hp Rating (60 Hz)								Catalog Number
	230V	380–400V	440V	200V		230V		460V		575V		
				1.0SF	1.15SF	1.0SF	1.15SF	1.0SF	1.15SF	1.0SF	1.15SF	
Frame Size N												
58	9	15	18.5	15	10	15	15	40	30	50	40	S811N37N3D
108	15	30	33	30	25	30	30	60	60	100	75	S811N66N3D
Frame Size R												
164	25	45	55	50	40	50	50	125	100	125	125	S811R10N3D
206	33	63	63	60	50	60	60	125	125	150	150	S811R13N3D
Frame Size T												
257	45	80	90	75	60	75	75	150	150	250	200	S811T18N3D
365	63	110	132	100	100	125	100	250	250	300	250	S811T24N3D
477	80	147	160	125	125	150	125	300	300	400	400	S811T30N3D
Frame Size U												
554	90	160	185	150	125	200	150	400	300	450	400	S811U36N3D
646	110	200	220	200	150	250	200	450	400	550	450	S811U42N3D
796	140	250	280	250	200	250	250	550	450	700	600	S811U50N3D ^①
Frame Size V												
554	90	160	185	150	125	200	150	400	300	450	400	S811V36N3D
646	110	200	220	200	150	250	200	450	400	550	450	S811V42N3D
796	140	250	280	250	200	250	250	550	450	700	600	S811V50N3D
1055	185	315	375	400	250	300	300	750	700	900	750	S811V65N3D
1176	200	375	445	—	—	—	—	—	—	—	—	S811V72N3D
1358	257	450	500	—	—	—	—	—	—	—	—	S811V85N3D
—	—	—	—	—	—	—	—	—	—	—	—	S811V10N3D ^②

Notes

^① U-Frame 500A unit does not have IEC certification.

^② For more information on optimum performance of the 1000A Frame Size V S811, see Appendix E of MN03902002E.

S811



Inside-the-Delta Standard Duty—50 Second Ramp, 2 Starts per Hour, 300% Current Limit at 50°C Ambient

Max. Continuous Motor Line Current	Three-Phase Motor												Catalog Number
	kW Rating (50 Hz)			hp Rating (60 Hz)									
				200V		230V		460V		575V			
	230V	380–400V	440V	1.0SF	1.15SF	1.0SF	1.15SF	1.0SF	1.15SF	1.0SF	1.15SF		
Frame Size N													
36	5.5	10	11	7-1/2	7-1/2	7-1/2	7-1/2	25	15	25	25	S811N37N3D	
73	11	18.5	22	15	15	25	15	50	40	60	50	S811N66N3D	
Frame Size R													
103	15	30	33	25	25	30	25	60	60	75	75	S811R10N3D	
138	22	40	45	40	30	50	40	100	75	125	100	S811R13N3D	
Frame Size T													
199	33	59	63	50	50	60	50	125	125	150	150	S811T18N3D	
257	45	80	90	75	60	75	75	150	150	250	200	S811T24N3D	
324	55	100	110	100	75	100	100	250	200	300	250	S811T30N3D	
Frame Size U													
485	80	150	160	125	125	150	125	300	300	400	400	S811U36N3D	
580	100	180	200	150	150	200	150	400	300	550	450	S811U42N3D	
646	110	200	220	200	150	250	200	450	400	550	450	S811U50N3D ①	
Frame Size V													
485	80	150	160	125	125	150	125	300	300	400	400	S811V36N3D	
580	100	180	200	150	150	200	150	400	300	550	450	S811V42N3D	
646	110	200	220	200	150	250	200	450	400	550	450	S811V50N3D	
727	129	220	257	250	200	250	250	550	500	700	550	S811V65N3D	
816	147	257	295	250	250	300	250	600	550	750	700	S811V72N3D	
1021	180	315	375	300	250	300	300	750	600	900	750	S811V85N3D	
—	—	—	—	—	—	—	—	—	—	—	—	S811V10N3D ②	

Notes

① U-Frame 500A unit does not have IEC certification.

② For more information on optimum performance of the 1000A Frame Size V S811, see Appendix E of MN03902002E.

1.2

Reduced Voltage Motor Starters

Solid-State Starters

1

S811



Inside-the-Delta Standard Duty— 15 Second Ramp, 4 Starts per Hour, 450% Current Limit at 40°C Ambient

Max. Continuous Motor Line Current	Three-Phase Motor												Catalog Number
	kW Rating (50 Hz)			hp Rating (60 Hz)									
	230V	380–400V	440V	200V		230V		460V		575V			
			1.0SF	1.15SF	1.0SF	1.15SF	1.0SF	1.15SF	1.0SF	1.15SF			
Frame Size N													
47	7.5	12.5	15	10	10	15	10	30	25	40	30	S811N37N3D	
83	12.5	22	25	25	15	25	25	50	50	60	60	S811N66N3D	
Frame Size R													
126	18.5	37	40	30	30	40	30	75	60	100	100	S811R10N3D	
162	25	45	55	50	40	50	50	100	100	125	125	S811R13N3D	
Frame Size T													
266	45	80	90	75	60	100	75	150	150	250	200	S811T18N3D	
379	63	110	132	100	100	125	100	250	250	300	250	S811T24N3D	
485	80	150	160	125	125	150	125	300	300	400	400	S811T30N3D	
Frame Size U													
580	100	185	200	150	150	200	150	400	300	550	450	S811U36N3D	
695	110	200	250	200	150	250	200	450	400	600	550	S811U42N3D	
798	140	250	280	250	200	250	250	550	450	700	600	S811U50N3D ^①	
Frame Size V													
580	100	185	200	150	150	200	150	400	300	550	450	S811V36N3D	
695	110	200	250	200	150	250	200	450	400	600	550	S811V42N3D	
798	140	250	280	250	200	250	250	550	450	700	600	S811V50N3D	
908	160	280	335	250	250	300	250	700	550	750	700	S811V65N3D	
1021	—	—	—	—	—	—	—	—	—	—	—	S811V72N3D	
1125	—	—	—	—	—	—	—	—	—	—	—	S811V85N3D	

Note

① U-Frame 500A unit does not have IEC certification.

S811



Inside-the-Delta Standard Duty—30 Second Ramp, 4 Starts per Hour, 450% Current Limit at 40°C Ambient

Max. Continuous Motor Line Current	Three-Phase Motor kW Rating (50 Hz)			hp Rating (60 Hz)								Catalog Number
				200V		230V		460V		575V		
	230V	380–400V	440V	1.0SF	1.15SF	1.0SF	1.15SF	1.0SF	1.15SF	1.0SF	1.15SF	
Frame Size N												
36	5.5	10	12.5	7-1/2	7-1/2	7-1/2	7-1/2	25	15	25	25	S811N37N3D
69	11	18.5	22	15	15	15	15	50	40	50	50	S811N66N3D
Frame Size R												
96	15	25	30	25	25	30	25	60	50	75	60	S811R10N3D
130	22	37	45	30	30	40	30	75	75	100	100	S811R13N3D
Frame Size T												
257	45	80	90	75	60	75	75	150	150	250	200	S811T18N3D
365	63	110	132	100	100	125	100	250	250	300	250	S811T24N3D
448	80	140	160	125	125	150	125	300	250	400	300	S811T30N3D
Frame Size U												
503	90	160	185	150	125	150	150	300	300	450	400	S811U36N3D
580	100	180	200	150	150	200	150	400	300	550	450	S811U42N3D
646	110	200	220	200	150	250	200	450	400	550	450	S811U50N3D ^①
Frame Size V												
503	90	160	185	150	125	150	150	300	300	450	400	S811V36N3D
580	100	180	200	150	150	200	150	400	300	550	450	S811V42N3D
646	110	200	220	200	150	250	200	450	400	550	450	S811V50N3D
727	129	220	257	250	200	250	250	550	450	700	550	S811V65N3D
796	—	—	—	—	—	—	—	—	—	—	—	S811V72N3D
865	—	—	—	—	—	—	—	—	—	—	—	S811V85N3D

Note

① U-Frame 500A unit does not have IEC certification.

1.2

Reduced Voltage Motor Starters

Solid-State Starters

1

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, the number of starts per hour exceeds 4, or the current limit set is over 300%.

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

S811



Inside-the-Delta Severe Duty

Max. Continuous Motor Line Current	Three-Phase Motor												Catalog Number
	kW Rating (50 Hz)			hp Rating (60 Hz)									
	230V	380-400V	440V	200V		230V		460V		575V			
			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		S811N37N3D
73	11	18.5	22	15	15	25	15	50	40	60	50		S811N66N3D
Frame Size R													
111	15	30	33	25	25	30	25	75	60	75	75		S811R10N3D
138	22	40	45	40	30	50	40	100	75	120	100		S811R13N3D
Frame Size T													
199	33	59	63	50	50	60	50	125	125	150	150		S811T18N3D
257	45	80	90	75	60	75	75	150	150	250	200		S811T24N3D
324	55	100	110	100	75	100	100	250	200	300	250		S811T30N3D
Frame Size U													
415	75	110	147	125	100	125	125	300	250	300	300		S811U36N3D
526	90	160	185	150	120	150	150	400	300	450	400		S811U42N3D
623	110	185	220	200	150	250	200	450	400	550	450		S811U50N3D ^①
Frame Size V													
415	75	110	147	125	100	125	125	300	250	300	300		S811V36N3D
526	90	160	185	150	120	150	150	400	300	450	400		S811V42N3D
623	110	185	220	200	150	250	200	450	400	550	450		S811V50N3D
727	129	220	257	250	200	250	250	550	450	700	550		S811V65N3D
816	147	257	295	250	250	300	250	600	550	750	700		S811V72N3D
908	160	280	335	250	250	300	250	700	550	750	700		S811V85N3D
—	—	—	—	—	—	—	—	—	—	—	—		S811V10N3D ^②

Notes

- ^① U-Frame 500A unit does not have IEC certification.
- ^② For more information on optimum performance of the 1000A Frame Size V S811, see Appendix E of MN03902002E.