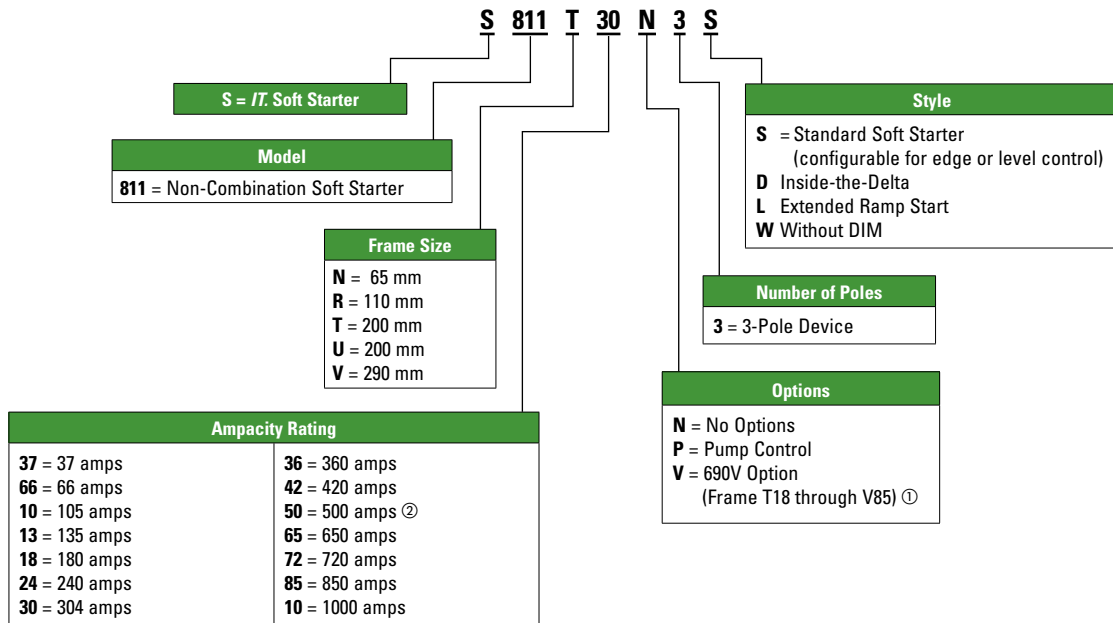


Motor Control

Soft Starters

CATALOG SELECTION

S811 Communicating Soft Starter — Catalog Numbering System



① Not available on U-Frame.

② U-Frame 500A unit does not have IEC Certification.

Motor Control

Soft Starters

PRODUCT SELECTION

S811 Communicating Soft Starter

Standard Duty Ratings

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

Note: 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 **IT** Soft Starter is capable of. If the application falls under these categories, you can use these charts.

15-Second Ramp, 4 Starts per Hour, 300% Current Limit @ 40°C

Max. Current	3-Phase Motors											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	
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 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	500	—	—	400	350	800	700	900	800	S811V10N3S ①

① For more information on optimum performance of the 1000A Frame Size V S811, see Appendix E of MN03902002E.

② 500A rating does not have IEC certification.

S811 Communicating Soft Starter

Severe Duty Ratings

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

Note: 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 @ 40°C ambient.

>30-Second Ramp, >4 Starts per Hour or >300% Current Limit

Max. Current	3-Phase Motors											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

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

① For more information on optimum performance of the 1000A Frame Size V S811, see Appendix E of MN03902002E.

Motor Control

Soft Starters

PRODUCT SELECTION

S811 Communicating Soft Starter

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

Max. Continuous Motor Line Current	3-Phase Motor											Catalog Number
	kW Rating (50 Hertz)			hp Rating (60 Hertz)								
	230	380 – 400	440	200V		230V		460V		575V		
	Volt	Volt	Volt	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	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

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 Communicating Soft Starter

Inside-the-Delta Severe Duty Ratings

Max. Continuous Motor Line Current	3-Phase Motor											Catalog Number
	kW Rating (50 Hertz)			hp Rating (60 Hertz)								
	230	380 – 400	440	200V		230V		460V		575V		
	Volt	Volt	Volt	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 S811N66N3D
73	11	18.5	22	15	15	25	15	50	40	60	50	

Frame Size R

111	15	30	33	25	25	30	25	75	60	75	75	S811R10N3D S811R13N3D
138	22	40	45	40	30	50	40	100	75	120	100	

Frame Size T

199	33	59	63	50	50	60	50	125	125	150	150	S811T18N3D S811T24N3D S811T30N3D
257	45	80	90	75	60	75	75	150	150	250	200	
324	55	100	110	100	75	100	100	250	200	300	250	

Frame Size U

415	75	110	147	125	100	125	125	300	250	300	300	S811U36N3D S811U42N3D S811U50N3D ①
526	90	160	185	150	120	150	150	400	300	450	400	
623	110	185	220	200	150	250	200	450	400	550	450	

Frame Size V

415	75	110	147	125	100	125	125	300	250	300	300	S811V36N3D S811V42N3D S811V50N3D S811V65N3D S811V72N3D S811V85N3D S811V10N3D ②
526	90	160	185	150	120	150	150	400	300	450	400	
623	110	185	220	200	150	250	200	450	400	550	450	
727	129	220	257	250	200	250	250	550	450	700	550	
816	147	257	295	250	250	300	250	600	550	750	700	
908	160	280	335	250	250	300	250	700	550	750	700	
—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	

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.

Motor Control

Soft Starters

PRODUCT SELECTION


S811 Communicating Soft Starter — Accessories

Pump Control Option

Frame Size	Max. Current	Catalog Number
N	37	S811N37P3S
	66	S811N66P3S
R	105	S811R10P3S
	135	S811R13P3S
T	180	S811T18P3S
	240	S811T24P3S
	304	S811T30P3S
U	360	S811U36P3S
	420	S811U42P3S
	500	S811U50P3S
V	360	S811V36P3S
	420	S811V42P3S
	500	S811V50P3S
	650	S811V65P3S
	720	S811V72P3S
	850 1000	S811V85P3S S811V10P3S

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


Surge Suppressors

	Description	Catalog Number
	600V MOV for 200 mm and 290 mm Units	EMS39
	690V MOV for 200 mm ①	EMS41

① T-Frame only.

Note: The surge suppressor can mount on either the line or load side of the **IT** Soft Starter. It is designed to clip the line voltage (or load side induced voltage).

Lug Kits

	Frame Size	Frame Designation	Description	Catalog Number
	200 mm SSRV	T, U	2 Cable Connections, 4 AWG to 1/0 Cable 1 Cable Connection, 4/0 to 500 MCM Cable 2 Cable Connections, 4/0 to 500 MCM Cable 1 Cable Connection, 2/0 to 300 MCM Cable 2 Cable Connections, 2/0 to 300 MCM Cable	EML22 EML23 EML24 EML25 EML26
	290 mm SSRV	V	2 Cable Connections, 4/0 to 500 MCM Cable 4 Cable Connections, 4/0 to 500 MCM Cable 6 Cable Connections, 4/0 to 500 MCM Cable 4 Cable Connections, 2/0 to 300 MCM Cable	EML28 EML30 EML32 EML33

① The EML33 does not have a CSA Listing.

Note: The 200 mm and 290 mm soft starters do not include lugs.

The 200 mm and 290 mm soft starters each have different lug options based on your wiring needs. Each lug kit contains three lugs which can be mounted on either the load or line side.

Digital Interface Module

Description	Catalog Number
Blank Cover (Filler)	EMA68
DIM	EMA91
Panel Mounting Kit — 3 ft. Cable 5 ft. Cable 8 ft. Cable 10 ft. Cable	EMA69A EMA69B EMA69C EMA69D

Note: The Digital Interface Module (DIM) is available as a replacement part. 24V dc Power Supply can be used with the S811 SSRV or as a stand-alone device.

Power Supplies

Description	Catalog Number
115V ac Input 24V dc Output	PSS55A
230V ac Input 24V dc Output	PSS55B
380 – 480V AC Input 24V dc Output	PSS55C