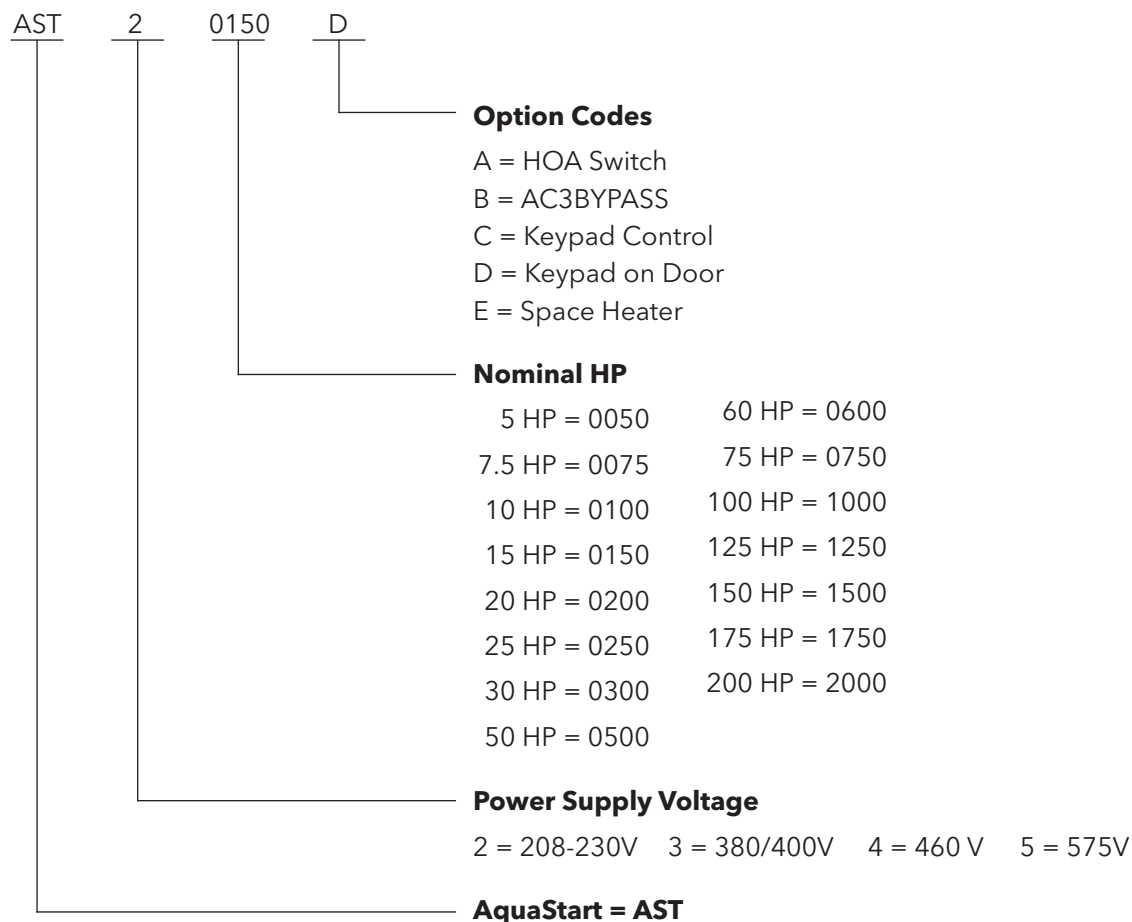




# AquaStart™ Combination Soft Starters

**FEATURES**

- SSW-07 Combination Soft Starter
- Adjustable current, ramp time and voltage overloads
- Standard NEMA 4 outdoor rated enclosures
- cULus Certified, CE available as option.
- 5-175 HP at 230V, 10-200 HP at 460V, 15-200 HP at 575V
- Built-in fusible disconnect
- Optional keypad control available
- Standard, built-in AC1 Run Rated Bypass, between start and stop (automatically bypass SSW-07 between start and stop).
- AC3 Bypass Contactor and DOL selector switch as option (allows user to bypass SSW-07 for DOL start and stop).
- Wall-mounted enclosure - Frames A-D
- Floor mount kit for Frame Size E
- Temperatures to 55°C without current derate
- 3 programmable inputs (120V)
- 2 relay outputs with NO contacts
- 240V, 11A programmable output
- Protection from:
  - Excess starting time
  - Current imbalance
  - Over / under current
  - Locked rotor
  - Phase loss
  - Under voltage

**NOMENCLATURE**

**COMBINATION SOFT STARTERS**

<b>CentriPro Order Number</b>	<b>Starter Amps*</b>	<b>Supply Voltage</b>	<b>Nominal HP*</b>	<b>Frame Size</b>	<b>Weight (lbs.)</b>
AST20050	17	208 - 230	5	A	140
AST20075	24		7.5		
AST20100	30		10		
AST20150	45		15	B	150
AST20250	61		20/25		
AST20300	85		30		
AST20500	130		40/50	C	280
AST20600	171		60		
AST20750	200		75		
AST21000	255		100	D	415
AST21250	312		125		
AST21500	365		150	E	610
AST21750	412		175		
AST40100	17	460	10	A	140
AST40150	24		15		
AST40200	30		20		
AST40300	45		25/30	B	150
AST40500	61		40/50		
AST40750	85		60/75		
AST41000	130		100	C	280
AST41250	171		125		
AST41500	200		150		
AST42000	255		200	D	415
AST50150	17	575	15	A	140
AST50250	24		20/25		
AST50300	30		30		
AST50500	45		40/50	B	150
AST50750	61		60/75		
AST51000	85		100		
AST51250	130		125	C	280
AST51500	171		150		
AST52000	200		200		

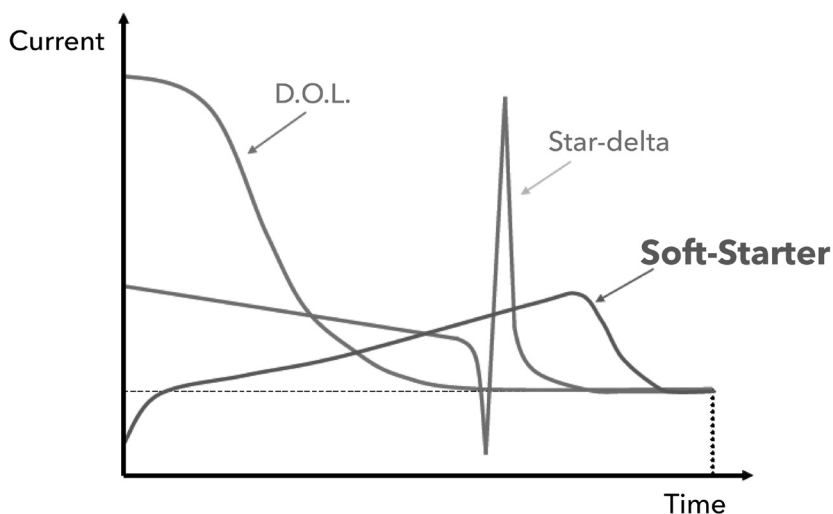
\* Horsepower values are for reference purposes only. Size soft starter by maximum amperage draw.

\*\* Power supply voltage acceptable range - (-15% to +10%)

The chart below shows the motor overload setting for standard models  
(Setting based upon Service Factor Amps).

Supply Voltage	Model Number	Rated Amps	MOTOR CURRENT SETTING					
			100%	90%	80%	70%	60%	50%
200V - 240V	AST20050	17	17	15.3	13.6	11.9	10.2	8.5
	AST20075	24	24	21.6	19.2	16.8	14.4	12.0
	AST20100	30	30	27.0	24.0	21.0	18.0	15.0
	AST20150	45	45	40.5	36.0	31.5	27.0	22.5
	AST20250	61	61	54.9	48.8	42.7	36.6	30.5
	AST20300	85	85	76.5	68.0	59.5	51.0	42.5
	AST20500	130	130	117.0	104.0	91.0	78.0	65.0
	AST20600	171	171	153.9	136.8	119.7	102.6	85.5
	AST20750	200	200	180.0	160.0	140.0	120.0	100.0
	AST21000	255	255	229.5	204.0	178.5	153.0	127.5
	AST21250	312	312	280.8	249.6	218.4	187.2	156.0
	AST21500	365	365	328.5	292.0	255.5	219.0	182.5
	AST21750	412	412	370.8	329.6	288.4	247.2	206.0
460V - 480V	AST40100	17	17	15.3	13.6	11.9	10.2	8.5
	AST40150	24	24	21.6	19.2	16.8	14.4	12.0
	AST40200	30	30	27.0	24.0	21.0	18.0	15.0
	AST40300	45	45	40.5	36.0	31.5	27.0	22.5
	AST40500	61	61	54.9	48.8	42.7	36.6	30.5
	AST40750	85	85	76.5	68.0	59.5	51.0	42.5
	AST41000	130	130	117.0	104.0	91.0	78.0	65.0
	AST41250	171	171	153.9	136.8	119.7	102.6	85.5
	AST41500	200	200	180.0	160.0	140.0	120.0	100.0
	AST42000	255	255	229.5	204.0	178.5	153.0	127.5

### AMP DRAW COMPARISON



#### D.O.L.

- High starting current
- High mechanical stresses

#### STAR-DELTA

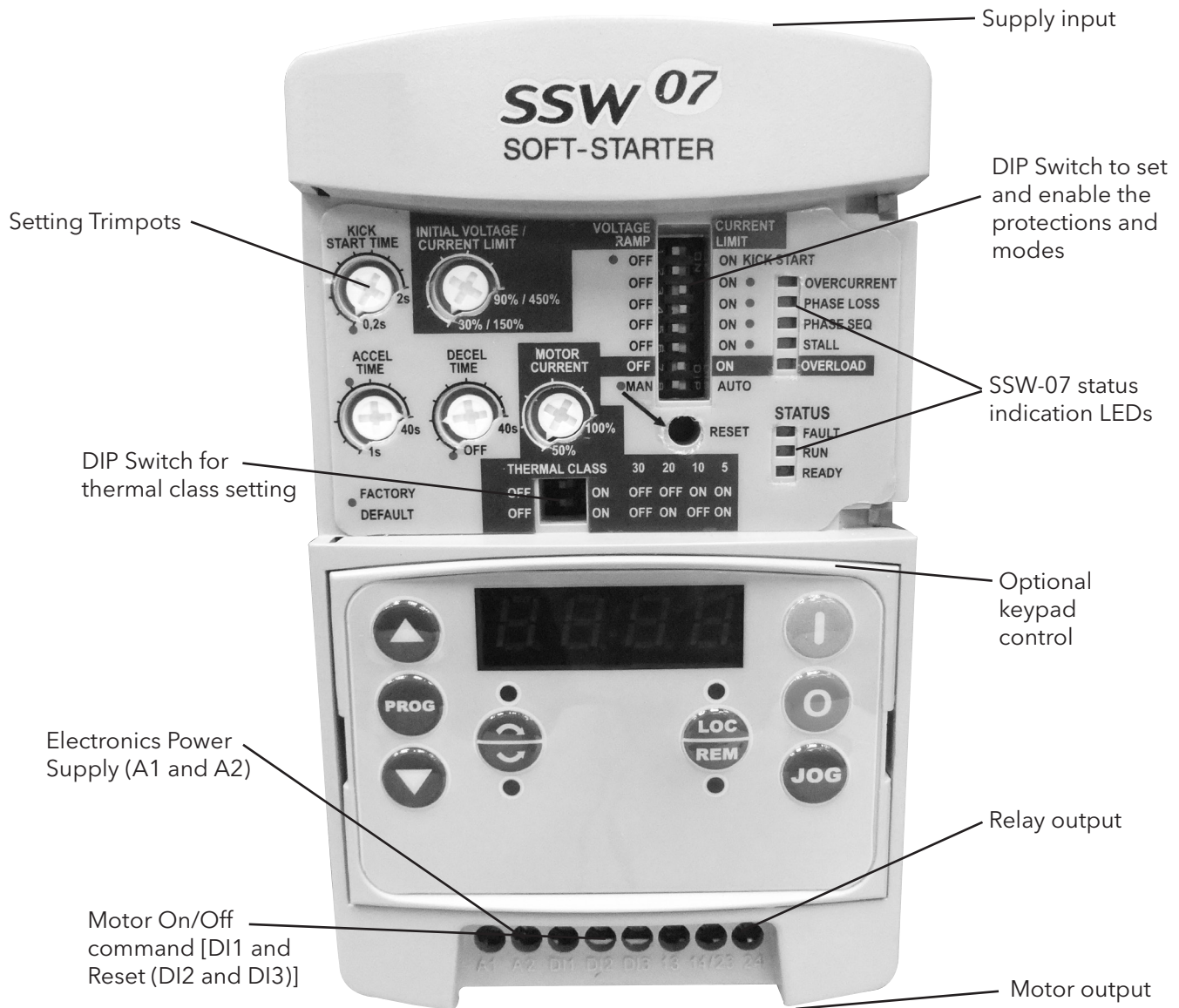
- $\frac{1}{3}$  D.O.L. start current
- Current spikes at transition

#### AQUASTART™ SOFT STARTER

- Start and stop motor over time
- Prevents mechanical shocks on load
- Prevents current spikes in supply line

### AQUASTART SOFT STARTER FEATURES

High performance Soft Starter that allows controlled starts of three phase, AC induction motors.

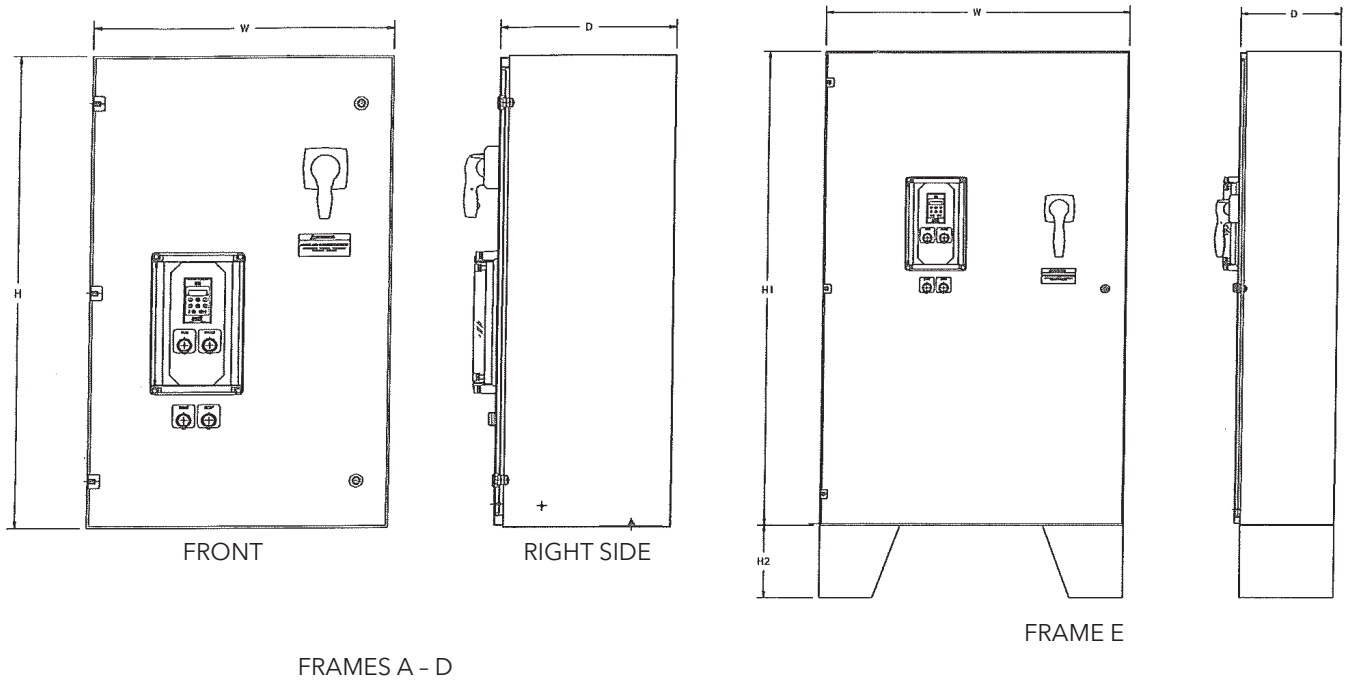


### REPLACEMENT SOFT STARTER MODULES

XYLEM PART NUMBER	DESCRIPTION
SSW07XY0017T5SZ	17A Soft Start
SSW07XY0024T5SZ	24A Soft Start
SSW07XY0030T5SZ	30A Soft Start
SSW07XY0045T5SZ	45A Soft Start
SSW07XY0061T5SZ	61A Soft Start
SSW07XY0085T5SZ	85A Soft Start
SSW07XY0130T5SZ	130A Soft Start

XYLEM PART NUMBER	DESCRIPTION
SSW07XY0171T5SZ	171A Soft Start
SSW07XY0200T5SZ	200A Soft Start
SSW07XY0255T5SZ	255A Soft Start
SSW07XY0312T5SZ	312A Soft Start
SSW07XY0365T5SZ	365A Soft Start
SSW07XY0412T5SZ	412A Soft Start

### AQUASTART DIMENSIONS



FRAME	MOUNT	W	D	H1	H2
A	Wall	16	8	24	N/A
B		24	12	32	N/A
C		24	14	40	N/A
D		32	12	48	N/A
E	Floor	36	12	60	12

### NOTES

For all of your pump and control needs, contact your  
Goulds Water Technology Pump Professional.



## Xylem |'zīləm|

- 1) The tissue in plants that brings water upward from the roots;
- 2) a leading global water technology company.

We're a global team unified in a common purpose: creating advanced technology solutions to the world's water challenges. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. Our products and services move, treat, analyze, monitor and return water to the environment, in public utility, industrial, residential and commercial building services settings. Xylem also provides a leading portfolio of smart metering, network technologies and advanced analytics solutions for water, electric and gas utilities. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise with a strong focus on developing comprehensive, sustainable solutions.

**For more information on how Xylem can help you, go to [www.xylem.com](http://www.xylem.com)**



Xylem Inc.  
2881 East Bayard Street Ext., Suite A  
Seneca Falls, NY 13148  
Phone: (866) 325-4210  
Fax: (888) 322-5877  
[www.xylemcom/goulds](http://www.xylemcom/goulds)

Xylem is a registered trademark of Xylem Inc. or one of its subsidiaries. Goulds is a registered trademark of ITT Manufacturing Enterprises LLC and is used under license. All other trademarks or registered trademarks are property of their respective owners.  
© 2023 Xylem Inc. BCPAQSTART R2 August 2023