



# S6

## 600A / 800A, 600 VAC

### Electronic and thermal magnetic trip type

The S6 breaker family uses two available microprocessor based internal trip units. The standard **PR211** trip unit includes adjustments for long time current pick-up and instantaneous current trip point.

The optional **PR212** trip unit includes adjustments for long time current pick-up/delay, short time pick-up/delay,  $I^2t$  (on/off), instantaneous current trip point and further optional ground fault protection.

#### 600A Frame (240 – 600A adjustable continuous range)

Breaker	IC at 480VAC	Trip type	Adjustment	2 pole, 600VAC catalog number	List price	3 pole, 600VAC catalog number	List price
S6N	50kA	PR211	LI	S6N600BW-2	<b>\$ 2847</b>	S6N600BW	<b>\$ 3608</b>
		PR212	LSI	S6N600CW-2	<b>4237</b>	S6N600CW	<b>4998</b>
		PR212	LSIG	—	—	S6N600EW	<b>6998</b>
S6H	65kA	PR211	LI	S6H600BW-2	<b>4275</b>	S6H600BW	<b>5271</b>
		PR212	LSI	S6H600CW-2	<b>5665</b>	S6H600CW	<b>6661</b>
		PR212	LSIG	—	—	S6H600EW	<b>8661</b>
S6L	100kA	PR211	LI	S6L600BW-2	<b>5481</b>	S6L600BW	<b>6482</b>
		PR212	LSI	S6L600CW-2	<b>6871</b>	S6L600CW	<b>7872</b>
		PR212	LSIG	—	—	S6L600EW	<b>8972</b>

#### 800A Frame (320 – 800A adjustable continuous range)

Breaker	IC at 480VAC	Trip type	Adjustment	2 pole, 600VAC catalog number	List price	3 pole, 600VAC catalog number	List price
S6N	50kA	PR211	LI	S6N800BW-2	<b>\$ 3842</b>	S6N800BW	<b>\$ 4802</b>
		PR212	LSI	S6N800CW-2	<b>5232</b>	S6N800CW	<b>6192</b>
		PR212	LSIG	—	—	S6N800EW	<b>8192</b>
S6H	65kA	PR211	LI	S6H800BW-2	<b>5275</b>	S6H800BW	<b>6465</b>
		PR212	LSI	S6H800CW-2	<b>6665</b>	S6H800CW	<b>7855</b>
		PR212	LSIG	—	—	S6H800EW	<b>9855</b>
S6L	100kA	PR211	LI	S6L800BW-2	<b>6476</b>	S6L800BW	<b>7676</b>
		PR212	LSI	S6L800CW-2	<b>7866</b>	S6L800CW	<b>9066</b>
		PR212	LSIG	—	—	S6L800EW	<b>11,066</b>

#### Trip settings

Adjustment	Trip function	Range	Individual settings
L	Long time pick-up Long time delay	0.4 – 1.0 3.0 – 18 sec.	0.4-0.5-0.55-0.6-0.65-0.7-0.75-0.8-0.85-0.9-0.925-0.95-0.975-1.0 x Frame rating PR212 A - B - C - D
S	Short time pick-up Short time delay	1.0 – 10.0 0.05 – 0.5 sec.	Off-1.0-2.0-3.0-4.0-6.0-8.0-10.0 x Frame rating A - B - C - D (I <sup>2</sup> t On-Off)
I	Instantaneous trip	1.5 – 12.0	1.5-2.0-4.0-6.0-8.0-10.0-12.0 x Frame rating
G	Ground fault Ground fault delay	0.2 – 1.0 0.1 – 0.8 sec.	Off-0.2-0.3-0.4-0.6-0.8-0.9-1.0 x Frame rating A - B - C - D

#### Continuous amperage settings (long time adjustment) — PR211

Frame	Set points									Setting
	0.4	0.5	0.6	0.7	0.8	0.9	0.95	1.0		
600A	240	300	360	420	480	540	570	600	Amps	
800A	320	400	480	560	640	720	760	800	Amps	

#### S6 thermal-magnetic breakers, for AC and DC applications

Breaker	IC at 500VDC	Rating	Magnetic trip	2 pole, 600VAC /500DC catalog number	List price	3 pole, 600VAC/DC catalog number	List price
S6N	35kA	600A (420 – 600A)	6000A	S6N600TW-2	<b>\$ 2847</b>	S6N600TW	<b>\$ 3608</b>
		800A (560 – 800A)	8000A	S6N800TW-2	<b>3842</b>	S6N800TW	<b>4802</b>
S6H	50kA	600A (420 – 600A)	6000A	S6H600TW-2	<b>4275</b>	S6H600TW	<b>5271</b>
		800A (560 – 800A)	8000A	S6H800TW-2	<b>5275</b>	S6H800TW	<b>6465</b>
S6L	65kA	600A (420 – 600A)	6000A	S6L600TW-2	<b>5481</b>	S6L600TW	<b>6482</b>
		800A (560 – 800A)	8000A	S6L800TW-2	<b>6476</b>	S6L800TW	<b>7676</b>