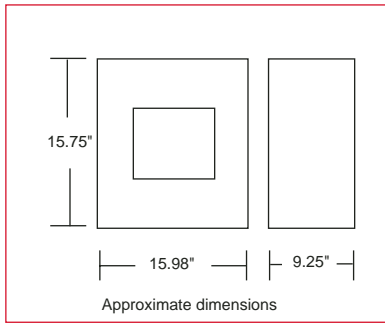




# S8

## 1600 / 2000 / 2500A

### Insulated case circuit breaker



#### Description

Breaker is shipped complete with installed trip unit and accessories. Cable terminals or rear T connectors can be included if desired. For four-wire systems an external neutral ground fault sensor must be ordered separately.

#### Trip functions

- L – Long time pick-up and delay
- S – Short time pick-up and delay
- I – Instantaneous trip
- G – Ground fault pick-up and delay

#### 3 pole, 600VAC maximum <sup>Ⓞ</sup>

Maximum continuous rating				1600A		2000A		2500A	
Breaker	IC at 480VAC	Trip type	Adjustment	Catalog number	List price	Catalog number	List price	Catalog number	List price
S8V	100kA	PR212	LSI	S8V16CW	\$ 12,540	S8V20CW	\$ 14,427	S8V25CW	\$ 21,561
			LSIG	S8V16EW	14,505	S8V20EW	16,561	S8V25EW	24,487
			I	S8V16MW	11,267	S8V20MW	12,988	S8V25MW	20,916
			MCS	S8V16DW	9620	S8V20DW	10,999	S8V25DW	16,267

#### UL/CSA Interrupting capacity (kA RMS)

##### UL489 / CSA C22.2

Voltage	V
240VAC	125
480VAC	100
600VAC	85
600VDC <sup>Ⓞ</sup>	25

#### IEC-947 Interrupting capacity (kA RMS)

Voltage	V
230VAC	120
300/400/415VAC	120
440VAC	100
500VAC	70
690VAC	50

#### Trip settings

Adjustment	Trip function	Range	Individual settings
L	Long time pick-up Long time delay	0.4 – 1.0 3.0 – 18 sec.	0.4-0.5-0.55-0.6-0.65-0.7-0.75-0.8-0.85-0.875-0.9-0.925-0.95-0.975-1.0 x Frame rating 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 x Frame rating A - B - C - D

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

Frame	Set points														Setting
	0.4	0.5	0.6	0.65	0.7	0.75	0.8	0.85	0.875	0.9	0.925	0.95	0.975	1.0	
1600A	640	800	960	1040	1120	1200	1280	1360	1400	1440	1480	1520	1560	1600	Amps
2000A	800	1000	1200	1300	1400	1500	1600	1700	1750	1800	1850	1900	1950	2000	Amps
2500A	1000	1250	1500	1625	1750	1875	2000	2125	2187.5	2250	2312.5	2375	2437.5	2500	Amps

#### UL 100% equipment rated circuit breakers

Circuit breakers and cable are sized per the National Electric Code on a basis of actual continuous load current divided by 80%. For example, a 360 ampere load should be connected by cable capable of handling 450 amperes (360A / 0.80 = 450A) and therefore be protected by a 450 ampere rated circuit breaker. Other factors may need to be considered when sizing breakers in special applications.

When applied correctly, UL-tested 100% equipment rated breakers may be applied at full rating, therefore saving the user the cost of larger cable or bus. Using the example above, the 360 ampere load could be used with cable capable of handling 360 amperes (360A / 1.00 = 360A) and only a 400 ampere rated circuit breaker (400A is next available size CB).

#### 1600A, S8 Frame 100% rated

Catalog number	List price
S8VQ16CW	\$ 13,168
S8VQ16EW	15,231

#### 2000A, S8 Frame 100% rated

Catalog number	List price
S8VQ20CW	\$ 15,148
S8VQ20EW	17,390

<sup>Ⓞ</sup> Three pole breakers are listed and approved for use in two pole applications with center-pole not connected.  
<sup>Ⓜ</sup> Applies to MCS only.