Molded Case Switch — Circuit Disconnect

Maximum	2-Pole	3-Pole	Self-Protective				
Frame Rating	Catalog Number	Catalog Number	Instantaneous Override±20% ³				
100A	BQ2S060	BQ3S060	1000A				
1004	BQ2S100	BQ3S100	1000A				
125A	ED22S100A	ED23S100A	1000A				
	ED42S100A	ED43S100A	1000A				
	ED42S125A	ED43S125A	1000A				
	ED62S100A	ED63S100A	1000A				
		ED63S125A CED63S100A	1000A 1000A				
	CED62S100A	CED63S100A	1000A				
225A	QJ22S225A∎	QJ23S225A	2000A				
250	FXD62S250A	FXD63S250A	3200A				
	HFXD62S250A■	HFXD63S250A∎	3200A				
	0	CFD63S250A	3200A				
400	JXD22S400A	JXD23S400A	6000A				
	-	JXD63S400A	6000A				
	_	HJXD63S400A∎	6000A				
	0	CJD63S400A	6000A				
600	_	LXD63S600A	8000A				
	-	HLXD63S600A	8000A				
	0	CLD63S600A	8000A				
800	_	LMXD63S800A	10000A				
	-	MXD63S800A	10000A				
	0	CMD63S800A	10000A				
1200		NXD63S120A	10000A				
	0	CND63S120A	10000A				
1600	0	PXD63S160A	10000A				
2000	0	RXD63S200A	10000A				
Non Autor	matic Molded Ca	se Switch					
2000	0	TD63S2000	-				
2500	0	TD63S2500	-				
3200	0	TD63S3200	-				
4000-5000	4000-5000 See "SB" Type Insulated Case Breakers						

SELECTION

Ordering Information Order by catalog number. Switches include frame and self protective (except TD) trip unit only. Order lugs separately from pages 6-70 to 6-72.

■ Built to order. Allow 3-4 weeks for delivery. $\odot \mbox{For 2-pole application}$ use outside poles of 3-pole circuit

breaker. [®]For additional lugs see pages 6-70 to 6-72.

Image: circuit above their override set point.

Lugs pages 6/70 to 6/71 Accessories pages 6/74 to 6/86

6/60

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TECHNICAL

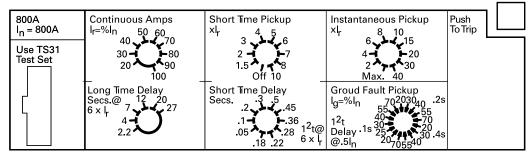
Digital Solid State Sentron Sensitrip III Series

The Sentron Sensitrip III circuit breaker is a true RMS current sensing device. Digital microprocessor circuitry within the electronic trip unit provides more precise control over the circuit breaker functions. This control allows circuit coordination flexibility not available with thermal magnetic circuit breakers.

Э	Catalog Number (Description + Suffix)	Trip Type	Cont Current Setting	Long Time Delay	Instan- taneous Setting	Short Time Pick Up	Short Time Delay	Short Time I ² t Pick Up	Ground Fault Pick Up	Ground Fault Delay
-	Basic Unit + (A)	LI	Ý	¥	*	-	-	-	-	—
	Basic Unit + (A)G	LIG	ý	¥	¥	-	-	-	¥	Ý
	Basic Unit + (A)NT	LSI	Ý	¥	¥	¥	¥	¥-	-	-
	Basic Unit + (A)NGT	LSIG	Ý	¥	¥	¥	¥	¥	¥	¥

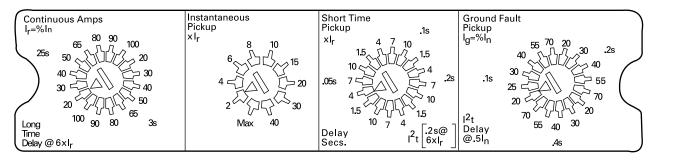
Letter "A" is used for MD and ND Solid State frame types only.

Typical Trip Unit Labeling and Adjustment Positions for the Sentron Sensitrip Circuit Breaker.



SMD6, SHMD6, SCMD6, SND6, SHND6, SCND6, SPD6, SHPD6

SJD6, SHJD6, SCJD6, SCD6, SHLD6, SCLD6



I_n = Maximum circuit breaker ampere rating.

 I_r = Current Rating — a function of continuous ampere adjustment setting expressed in % of I_n .

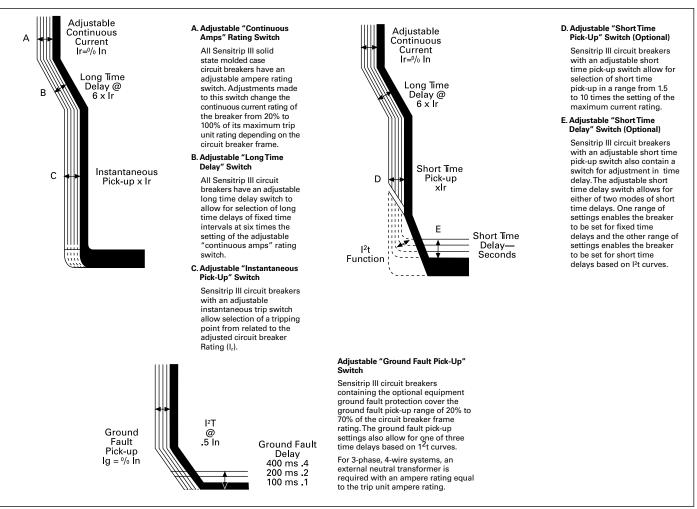
 I_{g} = Ground Fault Pickup — a function of adjustment setting expressed in % of I_{n} .

CIRCUIT BREAKERS

Molded Case Circuit Breakers

TECHNICAL

Digital Solid State Sentron Sensitrip III Series



In = Maximum circuit breaker ampere rating.

- Ir = Current Rating a function of adjustment setting expressed in % of In.
- I_g = Ground Fault Pick-up a function of adjustment setting expressed in % of I_n .

Examples of Adjustment Settings Catalog Number SMD69800A

l _n = 800	Continuous Current Setting	Long Time Delay Setting	Instantaneous Setting		
I _n = 800 amperes Results	30 240 amperes I _r = 30% of 800	12 12 seconds trip at 6 x 240 amps = 1440.	8 1920 amperes 8 x l _r = 8 x 240		

Catalog Number SMD69800ANGT

I _n	l _r Setting	Long Time Delay	Short Time Pick-Up Off	Instantaneous Setting	Short Time Pick-Up On	Short Time Delay	l²T Set	Ground Fault Pick-Up	Ground Fault Delay
800 amperes Results	70 560	20 20 sec.	_	10 I _r 5600A	8 I _r 4480A	.5 .5 secs	.28 .28 sec @ 4480A	40 320A	.2 .2 sec
• 10 • 10	1000	3°	۵ ۰	5×	©*	.0 0000 जि	®*	®*	12 000 ®*

⊕l_n = 800 amperes.

I_r = 560 amperes (70% of 800).

Delay = 20 seconds at 3360 amps (6 x l_r). Breaker will trip in 20 seconds with 3360 amperes.

Short Time Pick-Up Off — Instantaneous can be used.

 \odot Instantaneous set at 10 x I_r = 10 x 560 = 5600 amperes.

 \odot Short Time Pick-Up On — Set at 8 = 8 x 560 = 4480 amperes.

Short Time Delay = .5 seconds. (Definite Time) Note: S& are mutually exclusive. Is switch on .28 seconds @ 6 x 560 = 3360 amperes. (Inverse time)

 \odot Ground Fault Pick-Up set at 40 = 40% of I_n = 320 amperes. (Definite Time)

Ground Fault Delay set at .2 seconds. Breaker will trip in 200 milliseconds with a 400 ampere ground fault.

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