G&W Engineered to order. Built to last.

TRIDENT® Compact Design

Fault Current Detection

Internal Current Transformers

G&W Trident switchgear is equipped with internally molded current transformers (CTs), which are completely contained within the switch module. These CTs provide the relay with a ±1% accuracy input for all currents within the minimum and maximum pickup.

Minimum Pickup Currents

The tables below compare the minimum and maximum pickup levels depending on the current transformer ratio used with the specified relay. The G&W Type VI controls are excluded and can be found in the catalog.

SEL 751

Protection elements	Current Input to relay:		Corresponding Primary Current CT set to:							
	Secondary pickups		1000:1 ratio		500:1 ratio		400:1 ratio		200:1 ratio	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
min. 50P (A)	0.05	20	50	20,000	25	10,000	20	8,000	10	4,000
min. 51P (A)	0.05	4.8	50	4,800	25	2,400	20	1,920	10	960

SEL 751A

Protection elements	Current Input to relay:		Corresponding Primary Current CT set to:							
	Secondary pickups		1000:1 ratio		500:1 ratio		400:1 ratio		200:1 ratio	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
min. 50P (A)	0.10	20	100	20,000	50	10,000	40	8,000	20	4,000
min. 51P (A)	0.10	3.2	100	3,200	50	1,600	40	1,280	20	640

SEL 700GW, SEL 787

Protection elements	Current Input to relay:		Corresponding Primary Current CT set to:							
	Secondary pickups		1000:1 ratio		500:1 ratio		400:1 ratio		200:1 ratio	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
min. 50P (A)	0.10	19.2	100	19,200	50	9,600	40	7,680	20	3,840
min. 51P (A)	0.10	3.2	100	3,200	50	1,600	40	1,280	20	640

SEL 351, SEL 351R, SEL 451, SEL 487B, SEL 487E, SEL 651RA, SEL651R

Protection elements	Current Input to relay:		Corresponding Primary Current CT set to:							
	Secondary pickups		1000:1 ratio		500:1 ratio		400:1 ratio		200:1 ratio	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
min. 50P (A)	0.05	20	50	20,000	25	10,000	20	8,000	10	4,000
min. 51P (A)	0.05	3.2	50	3,200	25	1,600	20	1,280	10	640

50P: Instantaneous/Definite-Time Overcurrent Elements, Phase
51P: Time Overcurrent Elements, Phase

G&W Electric Company • 305 W. Crossroads Pkwy • Bolingbrook, IL 60440 USA • 708.388.5010
Fax 708.388.0755 • gwelec.com