

Long Term Parallel Protection Settings under G59/3



Disconnection

Protection	Trip Setting Parameter	Value	Trip Time (Maximum Value)
Under Voltage Stage:1 (LV)	Nominal Volts -13 %	200.1	2.5 Seconds
Under Voltage Stage:2 (LV)	Nominal Volts -20 %	184.0	0.5 Seconds
Over Voltage Stage:1 (LV)	Nominal Volts +14 %	262.2	1. Seconds
Over Voltage Stage:2 (LV)	Nominal Volts +14 %	273.7	0.5 Seconds
Under Voltage Stage:1 (HV)	Nominal Volts -13 %	*	2.5 Seconds
Under Voltage Stage:2 (HV)	Nominal Volts -20 %	*	0.5 Seconds
Over Voltage Stage:1 (HV)	Nominal Volts +10 %	*	1. Seconds
Over Voltage Stage:2 (HV)	Nominal Volts +13 %	*	0.5 Seconds
Under Frequency Stage:1	50Hz-5%	47.5 Hz	20 Seconds
Under Frequency Stage:2	50 Hz -6%	47. Hz	0.5 Seconds
Over Frequency Stage:1	50Hz +3%	51.5 Hz	90 Seconds
Over Frequency Stage:2	50Hz +4%	52. Hz	0.5 Seconds
Vector Shift Immunity / Stability Test	49.5Hz +50 degrees 50.5Hz - 50 degrees		Does Not Trip
Loss of Mains (RoCoF)	1 Hz/s at 0.5s delay		500ms Delay SHALL not be achieved using cycle counts.

Reconnection

Automatic Reconnection	180 Seconds
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*Should be calculated from HV voltage at customers connection point

N.B. - All Trip Setting parameters are the same for HV and LV with the exception of Over Voltage Stage 1 and 2

**Infrequent Short-Term Parallel Protection Settings under
G59/3**



Disconnection

Protection	Trip Setting Parameter	Value	Trip Time (Maximum Value)
Under Voltage: LV	Nominal Volts -10 %	207.0	0.5 Seconds
Over Voltage: LV	Nominal Volts +14 %	262.2	0.5 Seconds
Under Frequency: LV	50Hz-1%	49.5 Hz	0.5 Seconds
Over Frequency Stage: LV	50Hz +1%	50.5 Hz	0.5 Seconds
Under Voltage: HV	Nominal Volts -6 %		0.5 Seconds
Over Voltage: HV	Nominal Volts +6 %		0.5 Seconds
Under Frequency: HV	50Hz-1%	49.5 Hz	0.5 Seconds
Over Frequency Stage: HV	50Hz +1%	50.5 Hz	0.5 Seconds
Vector Shift Immunity / Stability Test	N/A		
Loss of Mains (RoCoF)	N/A		
Standalone Electrical Interlock Disconnection Timer			60s



WARNING
dual supply



**Do not work on this equipment until it is
isolated from both mains and on-site
generation supplies**

Isolate on-site generator at _____

Isolate mains supply at _____