Arc Flash Analysis

Fault Current Decay Calculation Method

Arc Fault at Bus: **Bus4**

Solution Method: **Fault Current Decay**

Nominal kV	= 230.000	Prefault Voltage	= 100% of nominal bus kV	System Grounding	= Grounded
Base kV	= 230.000		= 100% of base kV	Working Distance	= 48 inches

Bus Arc Flash Results

Total Bolted (kA)	Total Arcing (kA)	Fault Clearing Time (cycles)	(Seconds)	(cal/cm²)	
Ibf'' = 1.549	Ia'' = 1.549	FCT1 = 4.0	0.067	Incident Energy 1 =	8.185
Ibf' = 1.268	Ia' = 1.268	FCT2 = 8.0	0.133	Incident Energy 2 =	13.399
Ibf = 0.930	Ia = 0.930				
		Fault Clearing Time = 12.0	0.200	**Total Incident Energy =**	21.584

Energy Level* **Level D**

Arc Flash Boundary = 17.00 ft

Arc Fault at Device			Individual Contribution to Bus Arc Fault			Incident Energy					
ID	Phase Type	Type	Bolted (kA)	Arcing (kA)	FCT (cycles)	Arcing (kA)	FCT (cycles)	Protective Device ID for FCT	Incident E (cal/cm²)	AFB (ft)	Energy Level*

* User-Defined energy levels are used.

♦ Arcing current variation was applied at this location.