

**Table 1:** (IEEE 1584-2018) 480V, Three-Phase MCC  
(Gap = 25mm, Working Distance = 18in)

**VCB Configuration Arcing Current = 7.6kA**



**Bolted Three Phase Fault = 10kA**

**Enclosure Dimensions**

**12 x 16 x 16**

Fault Clearing Time (sec)	Incident Energy (cal/cm <sup>2</sup> )	Arc Flash Boundary (in)
0.05	0.90	14.6
0.10	1.70	22.5
0.20	3.40	34.8
0.30	5.20	44.8
0.40	6.90	53.6
0.50	8.60	61.7
1.00	17.2	95.2
1.25	21.5	109
1.50	25.8	123
1.75	30.1	135
2.00	34.3	147

**36 x 16 x 16**

Fault Clearing Time (sec)	Incident Energy (cal/cm <sup>2</sup> )	Arc Flash Boundary (in)
0.05	0.70	13.3
0.10	1.50	20.5
0.20	3.00	31.7
0.30	4.40	40.8
0.40	5.90	48.9
0.50	7.40	56.2
1.00	14.8	86.7
1.25	18.5	99.7
1.50	22.2	112
1.75	25.9	123
2.00	29.6	134

**72 x 16 x 16**

Fault Clearing Time (sec)	Incident Energy (cal/cm <sup>2</sup> )	Arc Flash Boundary (in)
0.05	0.70	12.6
0.10	1.40	19.5
0.20	2.70	30.1
0.30	4.10	38.8
0.40	5.50	46.4
0.50	6.80	53.4
1.00	13.6	82.3
1.25	17.0	94.7
1.50	20.4	106
1.75	23.8	117
2.00	27.3	127

**Table 1:** (IEEE 1584-2018) 480V, Three-Phase MCC  
(Gap = 25mm, Working Distance = 18in)

**VCBB Configuration Arcing Current = 8.0kA**



**Bolted Three Phase Fault = 10kA**

**Enclosure Dimensions**

**12 x 16 x 16**

Fault Clearing Time (sec)	Incident Energy (cal/cm <sup>2</sup> )	Arc Flash Boundary (in)
0.05	1.10	17.1
0.10	2.20	25.0
0.20	4.40	36.7
0.30	6.50	45.9
0.40	8.70	53.8
0.50	10.9	60.9
1.00	21.8	89.3
1.25	27.2	101
1.50	32.6	112
1.75	38.1	122
2.00	43.5	131

**36 x 16 x 16**

Fault Clearing Time (sec)	Incident Energy (cal/cm <sup>2</sup> )	Arc Flash Boundary (in)
0.05	1.00	16.2
0.10	2.00	23.8
0.20	4.00	34.9
0.30	6.00	43.6
0.40	7.90	51.2
0.50	9.90	57.9
1.00	19.80	84.9
1.25	24.80	96.0
1.50	29.70	106
1.75	34.70	116
2.00	39.70	125

**72 x 16 x 16**

Fault Clearing Time (sec)	Incident Energy (cal/cm <sup>2</sup> )	Arc Flash Boundary (in)
0.05	1.00	15.8
0.10	1.90	23.2
0.20	3.80	34.1
0.30	5.70	42.7
0.40	7.60	50.0
0.50	9.50	56.6
1.00	19.0	83.0
1.25	29.8	93.9
1.50	28.6	104
1.75	33.3	113
2.00	38.1	122

**Table 1:** (IEEE 1584-2018) 480V, Three-Phase MCC  
(Gap = 25mm, Working Distance = 18in)

**HCB Configuration Arcing Current = 7.3kA**



**Bolted Three Phase Fault = 10kA**

**Enclosure Dimensions**

**12 x 16 x 16**

Fault Clearing Time (sec)	Incident Energy (cal/cm <sup>2</sup> )	Arc Flash Boundary (in)
0.05	1.70	21.6
0.10	3.50	30.4
0.20	7.00	42.8
0.30	10.4	52.3
0.40	13.9	60.2
0.50	17.4	67.2
1.00	34.8	94.6
1.25	43.5	106
1.50	52.2	116
1.75	60.9	125
2.00	69.6	133

**36 x 16 x 16**

Fault Clearing Time (sec)	Incident Energy (cal/cm <sup>2</sup> )	Arc Flash Boundary (in)
0.05	1.70	21.0
0.10	3.30	29.6
0.20	6.60	41.6
0.30	9.90	50.9
0.40	13.2	58.6
0.50	16.5	65.4
1.00	32.9	92.0
1.25	41.2	103
1.50	49.4	112
1.75	57.6	121
2.00	65.9	130

**72 x 16 x 16**

Fault Clearing Time (sec)	Incident Energy (cal/cm <sup>2</sup> )	Arc Flash Boundary (in)
0.05	1.60	20.8
0.10	3.20	29.2
0.20	6.40	41.1
0.30	9.60	50.2
0.40	12.8	57.8
0.50	16.0	64.6
1.00	32.1	90.8
1.25	40.1	101
1.50	48.1	111
1.75	56.1	120
2.00	64.2	128

**Table 2:** (IEEE 1584-2018) 480V, Three-Phase MCC  
(Gap = 25mm, Working Distance = 18in)

**VCB Configuration Arcing Current = 15.3kA**

## Bolted Three Phase Fault = 20kA

### Enclosure Dimensions

<b>12 x 16 x 16</b>	Fault Clearing Time (sec)	Incident Energy (cal/cm <sup>2</sup> )	Arc Flash Boundary (in)
	0.05	1.80	23.2
	0.10	3.60	35.8
	0.20	7.20	55.2
	0.30	10.8	71.2
	0.40	14.4	85.2
	0.50	18.0	98.0
	1.00	36.0	151
	1.25	45.0	174
	1.50	54.0	195
	1.75	63.0	215
2.00	72.0	233	

<b>36 x 16 x 16</b>	Fault Clearing Time (sec)	Incident Energy (cal/cm <sup>2</sup> )	Arc Flash Boundary (in)
	0.05	1.60	21.2
	0.10	3.10	32.6
	0.20	6.20	50.4
	0.30	9.30	64.9
	0.40	12.4	77.7
	0.50	15.5	89.4
	1.00	31.1	138
	1.25	38.8	159
	1.50	46.6	178
	1.75	54.3	196
2.00	62.1	213	

<b>72 x 16 x 16</b>	Fault Clearing Time (sec)	Incident Energy (cal/cm <sup>2</sup> )	Arc Flash Boundary (in)
	0.05	1.40	20.1
	0.10	2.90	31.0
	0.20	5.70	47.8
	0.30	8.60	61.6
	0.40	11.4	73.8
	0.50	14.3	84.8
	1.00	28.6	131
	1.25	35.7	151
	1.50	42.9	169
	1.75	50.0	186
2.00	7.6	202	

**Table 2:** (IEEE 1584-2018) 480V, Three-Phase MCC  
 (Gap = 25mm, Working Distance = 18in)  
**VCBB Configuration Arcing Current = 16.4kA**

## Bolted Three Phase Fault = 20kA

### Enclosure Dimensions

<b>12 x 16 x 16</b>	Fault Clearing Time (sec)	Incident Energy (cal/cm <sup>2</sup> )	Arc Flash Boundary (in)
	0.05	2.45	26.7
	0.10	4.90	39.2
	0.20	9.80	57.5
	0.30	14.7	71.9
	0.40	19.6	84.3
	0.50	24.5	95.4
	1.00	49.0	140
	1.25	61.2	158
	1.50	73.5	175
	1.75	85.7	191
2.00	98.0	205	

<b>36 x 16 x 16</b>	Fault Clearing Time (sec)	Incident Energy (cal/cm <sup>2</sup> )	Arc Flash Boundary (in)
	0.05	2.20	25.4
	0.10	4.50	37.2
	0.20	8.90	54.6
	0.30	13.4	68.3
	0.40	17.9	80.1
	0.50	22.4	90.6
	1.00	44.7	133
	1.25	55.9	150
	1.50	67.0	166
	1.75	78.2	181
2.00	89.4	195	

<b>72 x 16 x 16</b>	Fault Clearing Time (sec)	Incident Energy (cal/cm <sup>2</sup> )	Arc Flash Boundary (in)
	0.05	2.10	24.8
	0.10	4.30	36.4
	0.20	8.60	53.4
	0.30	12.9	66.8
	0.40	17.2	78.3
	0.50	21.5	88.6
	1.00	42.9	130
	1.25	53.6	147
	1.50	64.3	163
	1.75	75.1	177
2.00	86.8	191	

**Table 2:** (IEEE 1584-2018) 480V, Three-Phase MCC  
(Gap = 25mm, Working Distance = 18in)

**HCB Configuration Arcing Current = 14.8kA**



**Bolted Three Phase Fault = 20kA**

**Enclosure Dimensions**

**12 x 16 x 16**

Fault Clearing Time (sec)	Incident Energy (cal/cm <sup>2</sup> )	Arc Flash Boundary (in)
0.05	3.60	31.0
0.10	7.20	43.6
0.20	14.5	61.4
0.30	21.7	75.0
0.40	29.0	86.4
0.50	36.2	96.4
1.00	72.4	136
1.25	90.5	151
1.50	109	166
1.75	127	179
2.00	145	191

**36 x 16 x 16**

Fault Clearing Time (sec)	Incident Energy (cal/cm <sup>2</sup> )	Arc Flash Boundary (in)
0.05	3.4	30.1
0.10	6.9	42.5
0.20	13.7	59.7
0.30	20.6	73.0
0.40	27.4	84.1
0.50	34.3	93.8
1.00	68.5	132
1.25	85.7	147
1.50	103	161
1.75	120	174
2.00	137	186

**72 x 16 x 16**

Fault Clearing Time (sec)	Incident Energy (cal/cm <sup>2</sup> )	Arc Flash Boundary (in)
0.05	3.30	30.0
0.10	6.70	42.0
0.20	13.4	59.0
0.30	20.1	72.0
0.40	26.7	83.0
0.50	33.4	92.6
1.00	66.5	130
1.25	83.5	146
1.50	100	159
1.75	117	172
2.00	134	183

**Table 3:** (IEEE 1584-2018) 480V, Three-Phase MCC  
(Gap = 25mm, Working Distance = 18in)

**VCB Configuration Arcing Current = 22kA**

## Bolted Three Phase Fault = 30kA

### Enclosure Dimensions

<b>12 x 16 x 16</b>	Fault Clearing Time (sec)	Incident Energy (cal/cm <sup>2</sup> )	Arc Flash Boundary (in)
	0.05	2.70	29.7
	0.10	5.30	45.8
	0.20	10.7	70.6
	0.30	16.0	91.0
	0.40	21.3	109
	0.50	26.6	125
	1.00	53.3	193
	1.25	66.6	222
	1.50	79.9	249
	1.75	93.2	274
2.00	106	298	

<b>36 x 16 x 16</b>	Fault Clearing Time (sec)	Incident Energy (cal/cm <sup>2</sup> )	Arc Flash Boundary (in)
	0.05	2.30	27.0
	0.10	4.60	41.7
	0.20	9.20	64.4
	0.30	13.8	82.9
	0.40	18.4	99.3
	0.50	23.0	114
	1.00	46.0	176
	1.25	57.4	203
	1.50	68.9	227
	1.75	80.4	250
2.00	91.9	272	

<b>72 x 16 x 16</b>	Fault Clearing Time (sec)	Incident Energy (cal/cm <sup>2</sup> )	Arc Flash Boundary (in)
	0.05	2.10	25.7
	0.10	4.20	39.6
	0.20	8.50	61.1
	0.30	12.7	78.7
	0.40	16.9	94.2
	0.50	21.1	108
	1.00	42.3	167
	1.25	52.8	192
	1.50	63.4	215
	1.75	74.0	237
2.00	84.5	258	

**Table 3:** (IEEE 1584-2018) 480V, Three-Phase MCC  
(Gap = 25mm, Working Distance = 18in)

**VCBB Configuration Arcing Current = 24.1kA**

## Bolted Three Phase Fault = 30kA

### Enclosure Dimensions

<b>12 x 16 x 16</b>	Fault Clearing Time (sec)	Incident Energy (cal/cm <sup>2</sup> )	Arc Flash Boundary (in)
	0.05	3.80	34.0
	0.10	7.60	49.9
	0.20	15.2	73.1
	0.30	22.7	91.5
	0.40	30.3	107
	0.50	37.9	121
	1.00	75.8	178
	1.25	94.7	201
	1.50	114	223
	1.75	133	243
2.00	151	261	

<b>36 x 16 x 16</b>	Fault Clearing Time (sec)	Incident Energy (cal/cm <sup>2</sup> )	Arc Flash Boundary (in)
	0.05	3.50	32.3
	0.10	6.90	47.4
	0.20	13.8	69.5
	0.30	20.7	87.0
	0.40	27.7	102
	0.50	34.6	115
	1.00	69.1	169
	1.25	86.4	191
	1.50	104	212
	1.75	121	231
2.00	138	248	

<b>72 x 16 x 16</b>	Fault Clearing Time (sec)	Incident Energy (cal/cm <sup>2</sup> )	Arc Flash Boundary (in)
	0.05	3.30	31.6
	0.10	6.60	46.3
	0.20	13.3	68.0
	0.30	19.9	85.0
	0.40	26.5	99.7
	0.50	33.2	113
	1.00	66.3	165
	1.25	82.9	187
	1.50	99.5	207
	1.75	116	225
2.00	133	243	



**Table 3:** (IEEE 1584-2018) 480V, Three-Phase MCC  
(Gap = 25mm, Working Distance = 18in)

**HCB Configuration Arcing Current = 21.5kA**

## Bolted Three Phase Fault = 30kA

### Enclosure Dimensions

<b>12 x 16 x 16</b>	Fault Clearing Time (sec)	Incident Energy (cal/cm <sup>2</sup> )	Arc Flash Boundary (in)
	0.05	5.40	37.6
	0.10	10.7	52.9
	0.20	21.4	74.5
	0.30	32.2	90.9
	0.40	42.9	105
	0.50	53.6	117
	1.00	107	164
	1.25	134	184
	1.50	161	201
	1.75	187	217
2.00	214	232	

<b>36 x 16 x 16</b>	Fault Clearing Time (sec)	Incident Energy (cal/cm <sup>2</sup> )	Arc Flash Boundary (in)
	0.05	5.00	36.6
	0.10	10.1	51.5
	0.20	20.3	72.5
	0.30	30.4	88.5
	0.40	40.5	102
	0.50	50.7	114
	1.00	101	160
	1.25	127	179
	1.50	152	195
	1.75	177	211
2.00	203	225	

<b>72 x 16 x 16</b>	Fault Clearing Time (sec)	Incident Energy (cal/cm <sup>2</sup> )	Arc Flash Boundary (in)
	0.05	4.90	36.1
	0.10	9.90	50.8
	0.20	19.8	71.5
	0.30	29.6	87.3
	0.40	39.5	101
	0.50	49.4	112
	1.00	98.8	158
	1.25	123	176
	1.50	148	193
	1.75	173	208
2.00	197	222	