

Table 1.1: (IEEE 1584-2002) 480V, Three-Phase MCC (Gap = 25mm, Working Distance = 18in, X-factor = 1.641)

**Impedance Grounded or Ungrounded
Bolted Three Phase Current = 10kA
Arcing Fault Current = 6.56kA**

Fault Clearing Time (sec)	Incident Energy (cal/cm ²)	Arc Flash Boundary (in)
0.05	1.36	19.5
0.10	2.73	29.7
0.20	5.46	45.3
0.30	8.19	58.0
0.40	10.9	69.1
0.50	13.6	79.2
1.00	27.3	121
1.25	34.1	138
1.50	40.9	155
1.75	47.8	170
2.00	54.6	184

Table 1.2: (IEEE 1584-2002) 480V, Three-Phase MCC (Gap = 25mm, Working Distance = 18in, X-factor = 1.641)

**Solidly Grounded
Bolted Three Phase Current = 10kA
Arcing Fault Current = 6.56kA**

Fault Clearing Time (sec)	Incident Energy (cal/cm ²)	Arc Flash Boundary (in)
0.05	1.05	16.6
0.10	2.10	25.3
0.20	4.21	38.7
0.30	6.31	49.5
0.40	8.41	59.0
0.50	10.5	67.6
1.00	21.0	103
1.25	26.3	118
1.50	31.6	132
1.75	36.8	145
2.00	42.1	157

Table 2.1: (IEEE 1584-2002) 480V, Three-Phase MCC (Gap = 25mm, Working Distance = 18in, X-factor = 1.641)

**Impedance Grounded or Ungrounded
Bolted Three Phase Current = 20kA
Arcing Fault Current = 11.9kA**

Fault Clearing Time (sec)	Incident Energy (cal/cm ²)	Arc Flash Boundary (in)
0.05	2.59	28.8
0.10	5.18	43.9
0.20	10.4	66.9
0.30	15.5	85.7
0.40	20.7	102
0.50	25.9	117
1.00	51.8	178
1.25	64.7	204
1.50	77.6	228
1.75	90.6	251
2.00	104	272

Table 2.2: (IEEE 1584-2002) 480V, Three-Phase MCC (Gap = 25mm, Working Distance = 18in, X-factor = 1.641)

**Solidly Grounded
Bolted Three Phase Current = 20kA
Arcing Fault Current = 11.9kA**

Fault Clearing Time (sec)	Incident Energy (cal/cm ²)	Arc Flash Boundary (in)
0.05	2.00	24.5
0.10	4.00	37.4
0.20	8.00	57.1
0.30	12.0	73.1
0.40	16.0	87.1
0.50	20.0	99.8
1.00	39.9	152
1.25	49.9	174
1.50	59.8	195
1.75	69.8	214
2.00	79.8	232

Table 3.1: (IEEE 1584-2002) 480V, Three-Phase MCC (Gap = 25mm, Working Distance = 18in, X-factor = 1.641)

**Impedance Grounded or Ungrounded
Bolted Three Phase Current = 30kA
Arcing Fault Current = 16.8kA**

Fault Clearing Time (sec)	Incident Energy (cal/cm ²)	Arc Flash Boundary (in)
0.05	3.75	36.1
0.10	7.53	55.1
0.20	15.1	84.1
0.30	22.6	108.0
0.40	128	30.1
0.50	147	37.6
1.00	224	75.3
1.25	257	94.1
1.50	287	113
1.75	315	132
2.00	342	151

Table 3.2: (IEEE 1584-2002) 480V, Three-Phase MCC (Gap = 25mm, Working Distance = 18in, X-factor = 1.641)

Solidly Grounded
Bolted Three Phase Current = 30kA
Arcing Fault Current = 16.8kA

Fault Clearing Time (sec)	Incident Energy (cal/cm ²)	Arc Flash Boundary (in)
0.05	2.9	30.8
0.10	5.80	47
0.20	11.6	71.7
0.30	17.4	91.9
0.40	23.2	109
0.50	29.0	125
1.00	58.0	191
1.25	72.5	219
1.50	87.0	245
1.75	102	269
2.00	116	292