



Empire Electric Association, Inc.

801 N. Broadway P.O. Drawer K Cortez, CO 81321-0676 Phone (970) 565-4444
www.eea.coop

EEA Maximum Available Fault Current

Single Phase, 120/240V	
Size (kVA)	Max Available Fault Current (A)
10	2450
15	3470
25	5790
37.5	9770
50	13020
75	17360
100	19840

Table 1. Fault current for single-phase, 120/240V transformers.

Notes:

1. Maximum available fault current calculations use the "infinite bus" method, with impedances determined by the typical/conservative value in EEA equipment inventory. According to the State of Colorado electrical inspectors, this value may be used in satisfying the criteria of NEC 110.24.
2. This value may also be used to determine a conservative AIC rating for a breaker panel (provided that the next higher transformer size is used). EEA does not recommend or condone using this value for any other electrical purpose, including arc flash analysis. **Injury to personnel, including death, and damage to equipment may result.**
3. Single phase 240/480V services will have half the available fault current of 120/240V.

EEA Maximum Available Fault Current

Three Phase, 277/480V	
Size (kVA)	Max Available Fault Current (A)
30	2120
45	3180
75	5010
112.5	7520
150	10020
225	15040
300	19000
500	30070
750	14790
1000	19720
1500	30070

Table 2. Fault current for three-phase, 277/480V transformers.

Three Phase, 120/208V	
Size (kVA)	Max Available Fault Current (A)
30	4160
45	6250
75	12250
112.5	18370
150	23130
225	41640
300	29650
500	29530
750	36200

Table 3. Fault current for three-phase, 120/208V transformers

Additional notes for three-phase transformers:

1. All three-phase transformers assumed to be “pad-mounted”. For pole mounted banks, please consult with EEA Engineering.