



## YVEA MAXIMUM AVAILABLE FAULT CURRENT

### Single-Phase, 120/240V Maximum Available Fault Current

Size (kVA)	Line-to-Neutral (A)	Line-to-Line (A)
5	2,600	1,600
10	4,600	2,800
15	6,500	3,900
25	11,400	6,900
37½	14,500	8,700
50	21,500	12,900
75	34,100	20,500
100	32,200	19,300
167	46,100	27,700

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 mean value of YVEA 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 (provide that the next higher transformer size is used). YVEA 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.



## YVEA MAXIMUM AVAILABLE FAULT CURRENT

3-Phase, 120/208V Size (kVA)	Maximum Available Fault Current	
	L-N/3 $\phi$ (A)	Line-to-Line (A)
30	5,500	4,800
45	7,800	6,700
75	13,700	11,800
75 (UD)	9,000	7,800
112½	17,400	15,100
150	25,800	22,300
150 (UD)	24,400	21,200
225	40,900	35,400
225 (UD)	26,800	23,200
300	38,600	33,500
300 (UD)	35,700	30,900
500 (UD)	59,400	51,500
501	55,300	47,900
750 (UD)	40,000	34,600

Table 2: Fault Current for Three-phase, 120/208V Transformers

### Additional Notes for Three-phase Transformers:

1. UD denotes padmounted transformer. All others assume an overhead bank of three transformers, equal sizes and impedances.
2. Calculation for three-phase transformers assume a grounded wye configuration. For open-wye/open-delta, wild-leg or any other transformer configuration, please consult with YVEA Engineering.



## YVEA MAXIMUM AVAILABLE FAULT CURRENT

3-Phase, 277/480V Size (kVA)	Maximum Available Fault Current	
	L-N/3 $\phi$ (A)	Line-to-Line (A)
30	2,400	2,100
45	3,400	2,900
75	5,900	5,200
75 (UD)	3,900	3,400
112½	7,600	6,600
150	11,200	9,700
150 (UD)	10,600	9,200
225	17,700	15,400
225 (UD)	11,600	10,100
300	16,800	14,500
300 (UD)	15,500	13,400
500 (UD)	25,800	22,300
501	24,000	20,800
750 (UD)	17,300	15,000
1000	23,100	20,000
1500	34,600	30,000
2500	53,100	46,000

Table 3: Fault Current for Three-phase, 277/480V Transformers

See notes following previous tables.