

DR. JONES

DAMMON ENGINEERING

Available Fault Current Calculation

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Utility Fault Current
25,897 amperes kVA =
E = 208
trans. FLA = 0

$$I = \frac{kVA \times 1000}{E} = \text{trans. FLA}$$

$I_{sca} = \frac{\text{trans. FLA} \times 100 \times PF}{\text{transformer } Z}$
PF =
Z =
 $I_{sca} = 0$ amperes

I_{sca} = ampere short-circuit current RMS symmetrical.

Point to Point Method

Length (distance) FEET 10
(ASC) 25,897

'f' factor = $\frac{2 \times L \times I}{N \times C \times E_{L-N}}$

conductors per phase N = 1
Phase conductor constant C = 0
Volt Line to Line E_{L-L} = 208 Volt

f = 0.000
Neutral conductor constant C = 0
Volt Line to Neutral E_{L-N} = 120 Volt

Multiplier M = $\frac{1}{1+f}$
f = 0.000

Line to Line M = 1.000
Line to Neutral M = 1.000

Fault Current at Service Equipment

$I_{sca} \times M$ = fault current at terminals of main disconnect L-L = 25,897 amperes

$I_{sca} \times M$ = fault current at terminals of main disconnect L-N = 25,897 amperes