



FAULT CURRENT CALCULATION

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Electrical Contractor: _____

Street Address: _____ **City:** _____ **State:** _____ **Zip:** _____

The following information is requested to determine the electrical equipment installation at:
(Electrical Permit # & Project Address Below)

Permit #

Project Address: _____ **Date** _____

Shall comply with the National Electrical Code® as it relates to available short-circuit currents and interrupting ratings. **See Sections 110.9, 110.10, 110.22, 110.24, 240.86.**

Note: All equipment must be listed and labeled or requires field evaluation.

Note:

This form is to be completed and returned to the Building Inspection Department for approval at plan review before a permit will be issued.

THE FOLLOWING INFORMATION IS TO BE SUPPLIED BY THE ELECTRICAL CONTRACTOR OR OTHER QUALIFIED RESPONSIBLE PARTY AS NOTED ON PAGE 4 SIGNATURE LINE:

TRANSFORMER KVA: _____ IMPEDANCE: _____ % SECONDARY VOLTAGE: _____

Transformer Line to Line Available Fault Current: _____

Transformer Line to Neutral Available Fault Current _____

***FULLY RATED SYSTEM**

***SERIES RATED SYSTEM**

Minimum one line drawing must be submitted.

Series rated systems require component protection data sheets (fuse / breaker or breaker / breaker combinations) Series rated systems require field markings by the installer at the service equipment and each downstream panelboard at the time of inspection for verification.

Series rating allowed when selective coordination is not required, and plans don't specify fully rated.



FAULT CURRENT CALCULATION

FROM TRANSFORMER TO AUXILIARY GUTTER / TAP CAN / METER

TYPE OF CONDUCTORS COPPER ALUMINUM SIZE OF CONDUCTORS: _____ LENGTH OF CONDUCTORS FROM TRANSFORMER TO AUXILIARY GUTTER: _____ ft

TYPE OF CONDUIT NONMETALLIC STEEL NUMBER OF CONDUCTORS PER PHASE: _____ Available Fault Current - Line to Line _____ Line to Neutral _____

FROM AUXILIARY GUTTER / TAP CAN / METER TO THE SERVICE DISCONNECT

TYPE OF CONDUCTORS COPPER ALUMINUM SIZE OF CONDUCTORS: _____ LENGTH OF CONDUCTORS FROM TRANSFORMER/ TAP CAN TO AUXILIARY GUTTER: _____ ft

TYPE OF CONDUIT METALLIC NON-METALLIC

NUMBER OF CONDUCTORS PER PHASE: _____

Available Fault Current Line to Line _____ Line to Neutral _____

FROM THE SERVICE DISCONNECT TO THE PANEL

TYPE OF CONDUCTORS COPPER ALUMINUM SIZE OF CONDUCTORS: _____ LENGTH OF CONDUCTORS FROM THE DISCONNECT TO THE PANEL: _____ ft

TYPE OF CONDUIT METALLIC NON-METALLIC

NUMBER OF CONDUCTORS PER PHASE:

Available Fault Current Line to Line _____ Line to Neutral _____

FROM PANEL #1 TO PANEL #

TYPE OF CONDUCTORS COPPER ALUMINUM SIZE OF CONDUCTORS: _____ LENGTH OF CONDUCTORS FROM THE 1ST PANEL TO THE 2ND PANEL: _____

TYPE OF CONDUIT METALLIC NON-METALLIC

NUMBER OF CONDUCTORS _____

Available Fault Current Line to Line _____ Line to Neutral _____



FAULT CURRENT CALCULATION

FROM PANEL # _____ TO PANEL # _____

TYPE OF CONDUCTORS COPPER ALUMINUM SIZE OF CONDUCTORS: _____

LENGTH OF CONDUCTORS FROM THE 1ST PANEL TO THE 2ND PANEL: _____ ft

TYPE OF CONDUIT METALLIC NON-METALLIC

NUMBER OF CONDUCTORS PER PHASE: _____

Available Fault Current Line to Line _____ Line to Neutral _____

Data Sheet for Fully Rated or Series Rated Systems

Item	Location of Short Circuit Current	Short-Circuit Current (Calculation)	Overcurrent Device Ampere Rating (15-4,000 Amps)	Overcurrent Device Interrupting Rating (10,000-100,000 amps)
1	At Transformer Secondary Terminals (Infinite Primary)		NA	NA
	At the Tap Can or Wireway		NA	NA
2	Online side of Main Service Equipment			
3	At Panel _____			
4	At Panel _____			
5	At Panel _____			
6	At Panel _____			
7	At Panel _____			



FAULT CURRENT CALCULATION

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SERVICE DISCONNECT TYPE _____ FUSE BREAKER

FUSE TYPE OR BREAKER TYPE _____

FUSE SIZE OR BREAKER SIZE _____

AIC RATING OF FUSE OR BREAKER _____

PANEL TYPE _____

PANELBOARD(S) MAIN BREAKER MLO

MAIN BREAKER SIZE _____

MAIN BREAKER AIC RATING _____

BRANCH BREAKER AIC RATING _____

The undersigned is responsible for all values given and must be the Master Electrician for the Electrical Contracting Company or the Electrical Engineer of record for the project.

Print Name: _____ Date: _____

Signature: _____ TDLR License # _____

Contact Phone Number _____

Contact Email _____

For further assistance or additional information please email:

Chief Electrical Inspector – Doug Boggus dboggus@gptx.org

Senior Electrical Inspector - Richard Crymes rcrymes@gptx.org