

CASTLE POWER SOLUTIONS LLC

5 Depot Street

Hudson Falls, New York 12839

Facsimile: (518) 743-1001, Telephone: (518) 743-1000

Medium-Voltage, Pole-Mounted, Switched Power Capacitor Banks



Application Checklist

To assist with initial design parameters, the following should be completed.

Pole Mounted Switched Capacitor Rack

Power System Characteristics

Basic Insulation Level (BIL) (2 μ S by 50 μ S): 95 kV Crest 110 kV Crest 125 kV Crest 150 kV Crest

Configuration: Delta Impedance Grounded Wye Solidly Grounded Wye

Frequency: _____ Hertz

Line-to-Line Voltage: _____ kV RMS

Phase-To-Neutral Short Circuit Current: _____ kA RMS, Symmetrical

Three-Phase Short Circuit Current: _____ kA RMS, Symmetrical

Total Effective Capacitive Reactive Power Required: _____ kVAR

Bank Connection: Delta Ungrounded Wye Grounded Wye

Power Capacitor Unit Ratings: Nameplate Voltage _____ kV RMS Nameplate kVAR _____

Power Capacitor Bank Switches: Solid Dielectric Vacuum under Oil Oil

Operator Type _____ Operator Voltage _____

Auxiliary Contact Required No Yes

If Yes, Select One of the Following: One (1) Form-A Contact Dry Wetted

One (1) Form-B Contact Dry Wetted

One (1) Form-C Contact Dry Wetted

Control Power Transformer Apparent Power Rating: _____ kVA

Power Factor Controller Required: No Yes If yes,

Customer Preference _____

Control Cable Termination Amphenol Socket _____ Number of Pins

Meter Socket _____ Number of Jaws

Distribution Arresters: No Yes

If yes, select one of the following: Heavy Duty Heavy-Duty Riser Pole Standard Duty

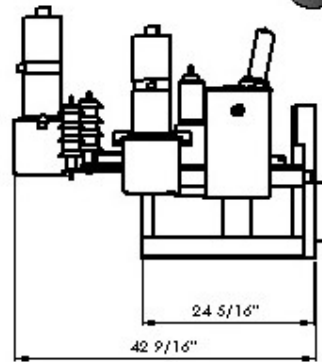
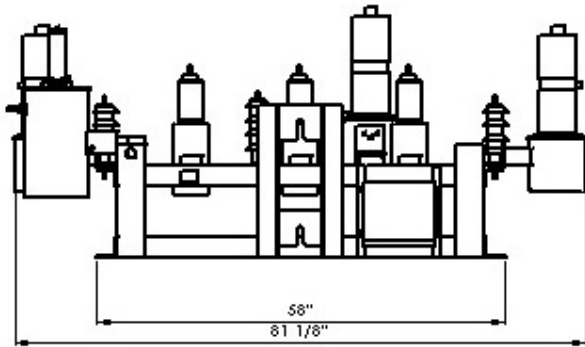
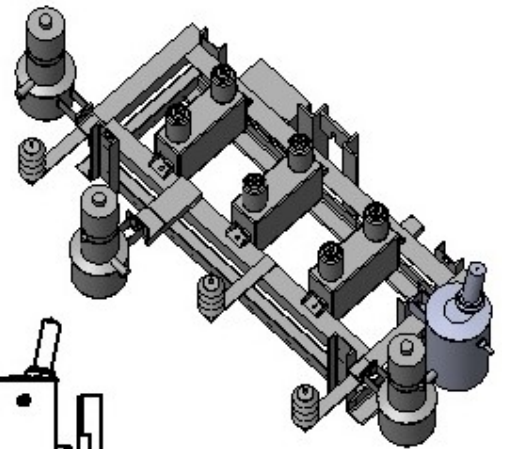
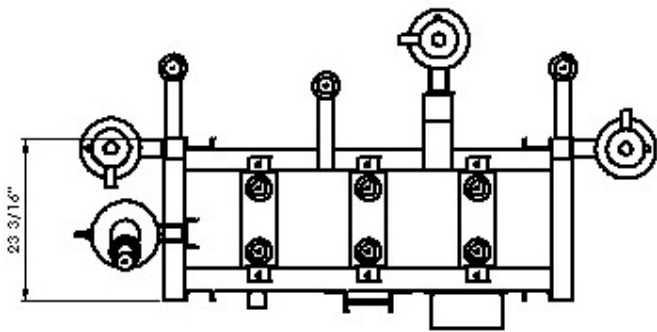
Arrester Rating _____ kV RMS

Current Sensor: No Yes

If yes, select one of the following: Current Transformer _____ : 5 Current Ratio

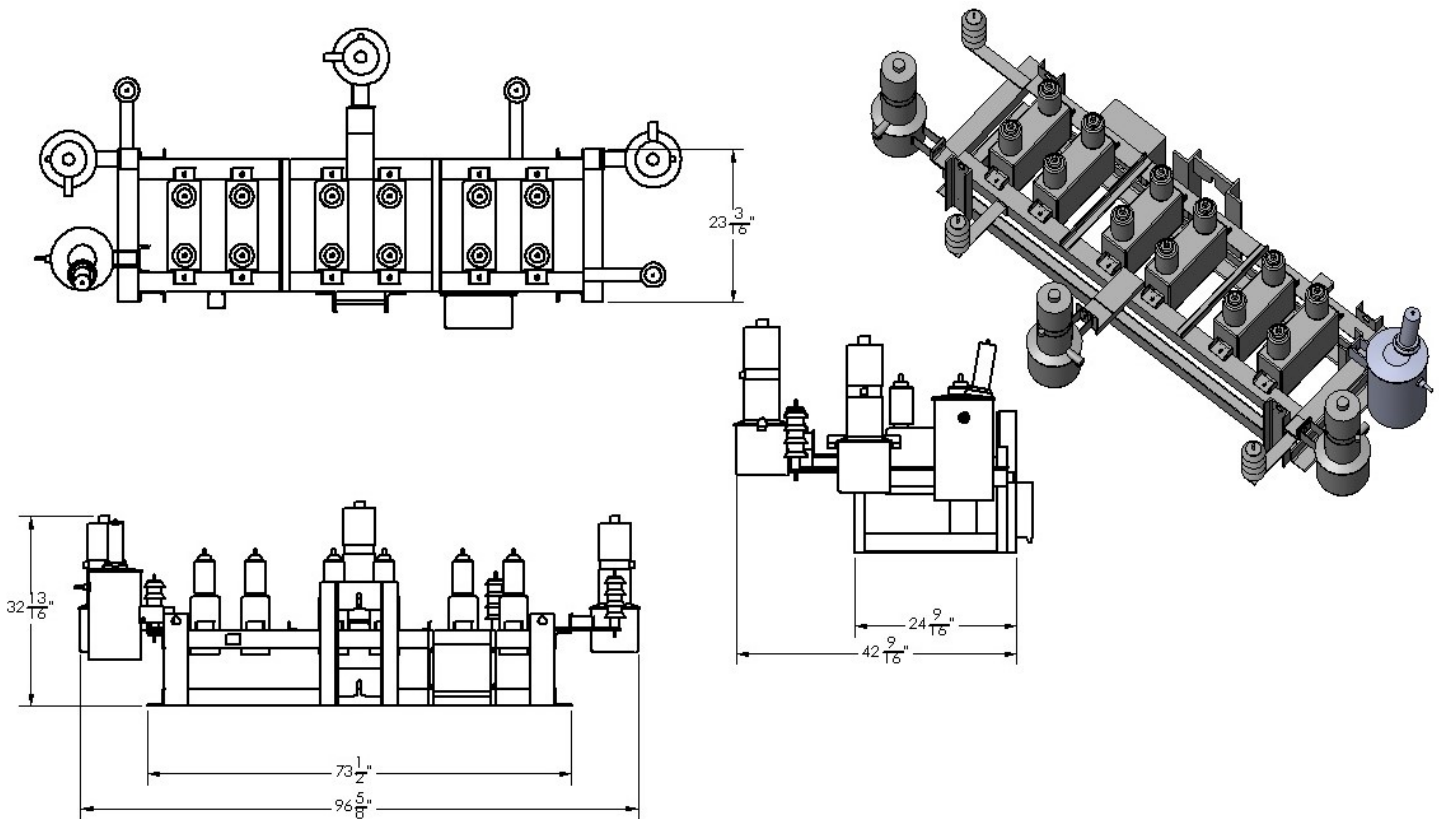
Line Post Sensor

Three Unit, Medium-Voltage, Pole-Mounted, Power Capacitor Bank



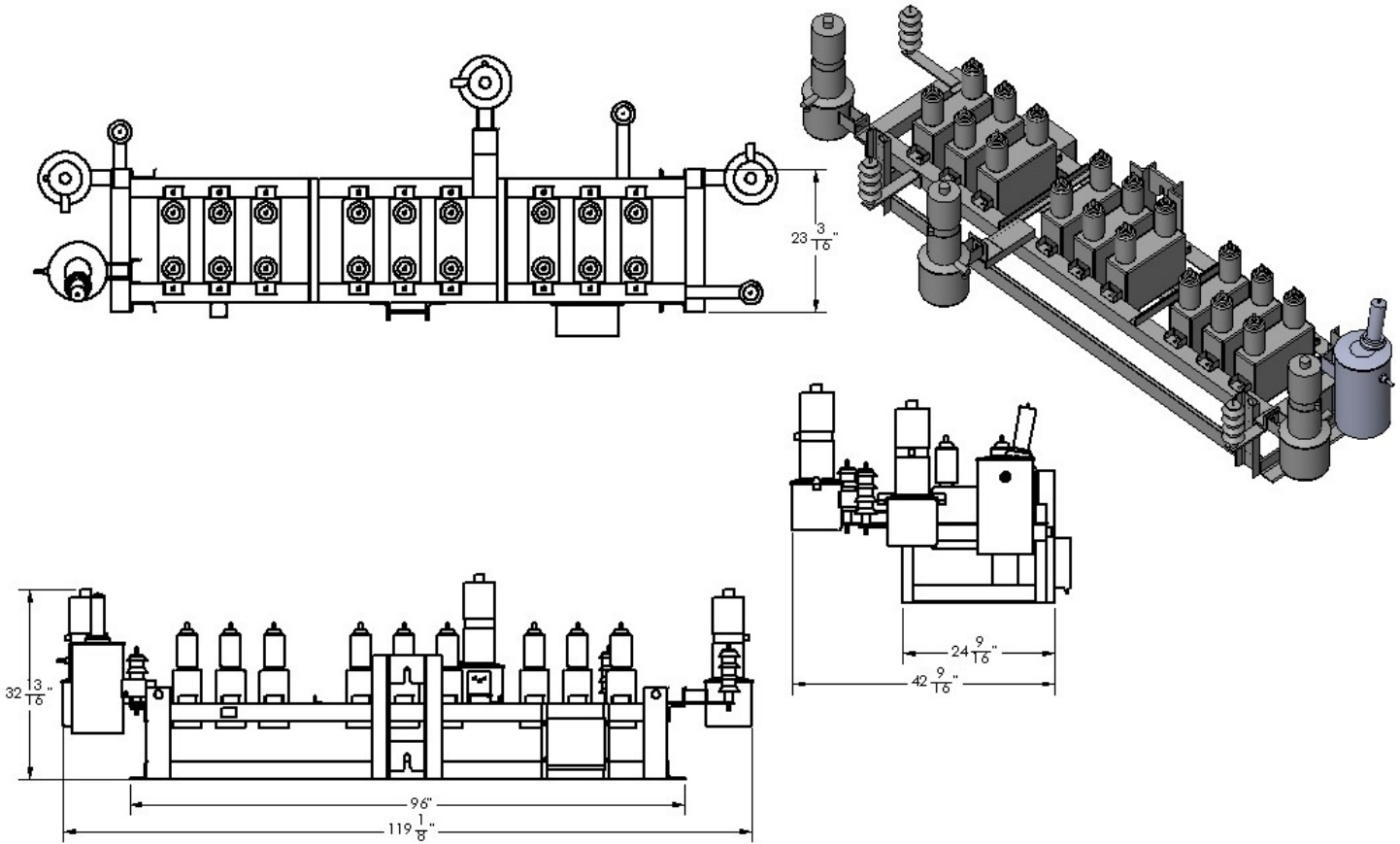
Linear dimensions are in inches.

Six Unit, Medium-Voltage, Pole-Mounted, Power Capacitor Bank



Linear dimensions are in inches.

Nine Unit, Medium-Voltage, Pole-Mounted, Power Capacitor Bank



Linear dimensions are in inches.