

Pole Capacitor Bank

Guide Specification

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This specification is for an automatic, medium voltage, pole-mounted three-phase power capacitor bank consisting ofkVAR atkV RMS andHertz.	consist of 3–6ft 16/3 SO cables with 5-point molded connectors. The control cable when provided shall be 35 ft, 12/5 SO cable, with 4-jaw or 6-jaw meter socket.	
The capacitor bank shall be automatically switched based on one of the following parameters, or systems: current, power factor,	All high voltage wiring shall have suitable weatherproof cover to provide protection from bird and animal contact.	
reactive power, temperature, time or voltage. All components for the pole mounted capacitor bank shall be mounted to the pole frame. The power capacitor bank shall be	Capacitors shall be all propylene film type, Trinetics capacitors with stainless steel tanks and non-PCB oil insulation. Basic capacitor construction shall also include 15 sheets of 5mil thick insulation.	
supplied fully assembled and ready for use. All exceptions to this specification shall be clearly stated in your bid. If no exceptions are	Control when provided shall be selected from one of the following controls or other specified control:	
taken, the bid should include the phrase "NO EXCEPTIONS HAVE BEEN TAKEN."	ProCap 150T: Volt-time control	
The electrical ratings for the power capacitor bank shall be compatible with the following power system ratings:	 ProCap C1600: Volt-time-temperature control with multiple schedules and data logging ProCap C2000: VAR control with voltage override neutral unbalance protection and data logging 	
 Basic insulation level (BIL)kV crest Maximum system voltagekV rms 		
 Nominal system voltagekV rms Short circuit current (sym) available at the pole bank. Line-to-groundkA rms Three-phasekA rms 	The control power transformer (CPT) when provided shall be constructed with one high voltage bushing, one low voltage secondary terminal and two ground terminals. The CPT shall be ratedkV/120V, 0.5kVA, andBIL, and shall internally fused on the high voltage side. Quality System The manufacturer shall be ISO-9001 certified.	
Pole Bank Construction		
The capacitor bank shall be assembled to a heavy-duty all aluminum frame designed for pole mounting, and with 4 lifting eyes for balanced lift. The frame shall be designed for a level self-supporting		
stand for ground staging and transport, and shall accommodate up	The Manufacturer's quality system shall meet all applicable industry	

Submittals

standards.

The manufacturer of the power capacitor bank shall provide upon request:

cables, the control cable and the LV wiring. Switch cables shall

- Bill of material
- Component data sheets
- Control circuit schematics
- Installation & maintenance instructions
- MSDS of the oil used in capacitors and oil switches

- · Outline drawings
- Power circuit schematic



_A, ____kV, and ____ kV BIL.



to 6 capacitors, 3 switches, the junction box, and the CPT. Switches shall be Trinetics CSD, VS, UltraVac, UltraVacLT, or

SmartClose type with manual handle for manual CLOSE/OPEN

operation, 120V motor for automatic operation, wildlife guards, and

5-pin receptacle for switch cable connection. Switch rating shall be

The junction box assembly shall consist of a weather proof molded

assembly with removable captive cover and shall accommodate

terminal blocks knockouts and weather proof seals for 3-switch