

Power factor correction capacitor bank survey sheet

Date: _____



General

Customer: _____
 Customer contact: _____
 Address: _____
 Email: _____
 Phone: _____
 Eaton contact: _____

Preliminary information for budgetary estimate

Name of utility* _____
 Current billed demand* (kW/kVA) _____
 Present power factor (known/calculated)* (lagging) _____
 Desired power factor* (lagging) _____
 kVA of service transformer (kVA) _____
 Transformer primary and secondary voltages (V) _____
 Impedance of transformer (if known) (%Z) _____
 Nonlinear loads present (Y/N) _____
 Approximate ratio of nonlinear load to total load (%) _____

*If information is unknown, please provide the following:

- Rate sheet attached/rate structure _____
- Past 12 months of billing information attached (if not available, at least 3 months summer and 3 months winter bills)

Additional information required for a quote

Intent: _____

(Reduce or eliminate PF penalty, release plant/transformer/cable capacity, assist in voltage regulation, filter or correct harmonics, fault ride-through, bus voltage support, or other).

- Plant one-line drawing attached (if not available, a hand sketch of the distribution system) showing major distribution levels (HV, MV, LV and distribution panels and PF expected/observed at each distribution level)

Distribution and utilization voltage (HV/MV/LV) _____

Additional source of generation (co-gen, diesel generators, etc.) _____

Total connected load (kVA/kW/hp) _____

Total demand load (kVA/kW/hp) _____

Largest motor size (kW/hp) _____

Largest non-motive load (kVA/kW/hp) _____

Type of nonlinear load _____

- Adjustable speed drives type (DC drives, 6 pulse, 12 pulse, 18 pulse) _____

- Soft starters

- Arc furnaces

- Welders

- UPS

- UV equipment

- DC-DC, AC-DC converters (electrolysis cells, etc.) _____

- Others (please describe) _____

Type of production facility: (cement, chemical, sawmill, underground mine, etc.) _____

Type of environment: (dusty, conductive metallic dust, hazardous, very hot, marine, chemically reactive, etc.) _____

Short-circuit capacity of the system on the primary side (MVA) _____

Are there PF capacitors currently present? (Y/N) _____

(Preferably collect information on utility bulk correction capacitors for the line)

If yes, kVAR capacity and voltage (kVAR) _____
 (volts) _____

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For product support, please contact Eaton's Technical Resource Center (TRC) power factor application engineers at **1-800-809-2772**, choose option #4, then option #2. pfc@eaton.com