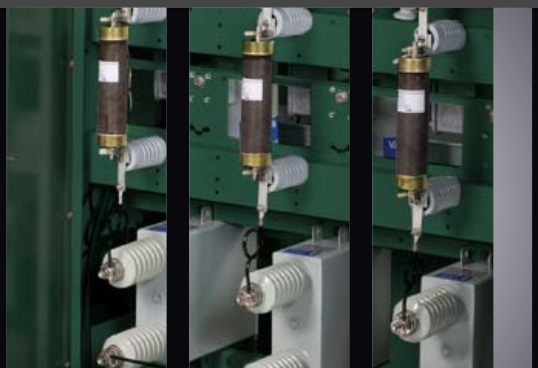
TRINETICS™

Cost-effective power factor correction for underground distribution systems

SmartBank™
Pad-Mounted Capacitor Banks



HUBBELL
POWER SYSTEMS, INC.

SmartBank™ Pad-Mounted Capacitor Banks

Trinetics cost-effective pad-mounted power factor correction capacitor banks are offered as a switched capacitor bank using Trinetics UltraVac solid dielectric switches, Trinetics VS vacuum switches, or Trinetics CSD oil switches combined with the reliability of Trinetics brand capacitors to provide a complete medium voltage capacitor bank that is fully assembled and ready for installation. Trinetics pad-mounted power factor correction capacitor banks are also available as a fixed bank which does not contain switches but still provides the reliability of Trinetics brand capacitors to provide a complete medium voltage capacitor bank that is fully assembled and ready for installation.

Trinetics also offers the customer flexibility in the choice of a capacitor bank; Trinetics can supply the bank in any state of completion to meet job requirements. Capacitor banks can be supplied without capacitors, or with customer-supplied, Trinetics-installed capacitors. Trinetics can supply capacitor controllers from various manufacturers or provisions for the customer to mount their own controller.

Trinetics pad-mount power factor correction banks, whether switched or fixed, are supplied in an outdoor weatherproof enclosure that meets ANSI standards. Our standard enclosure is mild steel, but we can also supply aluminum or stainless steel enclosures to meet specific requirements in environments prone to rusting.

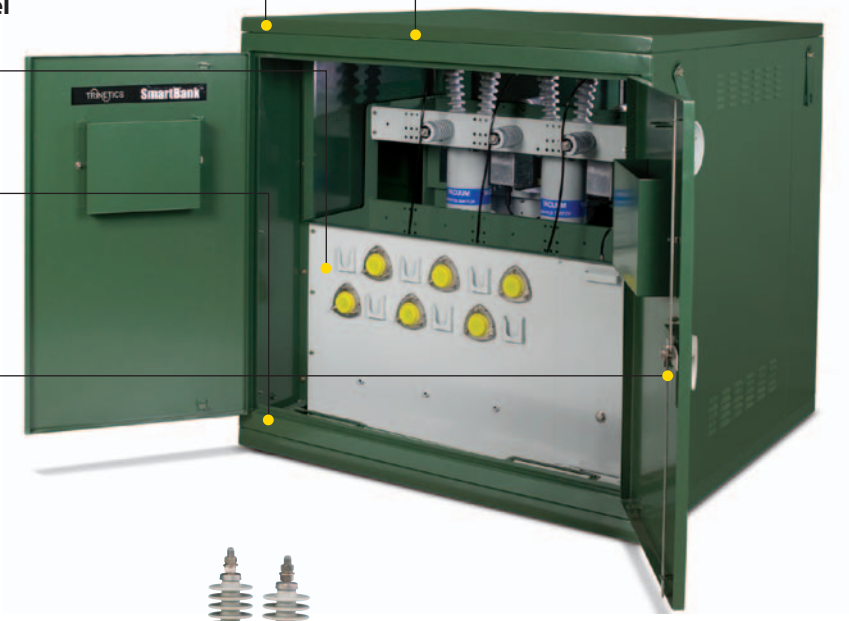
Weather resistant polyester powder paint, Munsell green, electrostatically applied, meets or exceeds ANSI coating performance requirements.

Compact enclosure constructed of **heavy-duty 12-gauge steel**

Deadfront barrier painted light gray for maximum visibility.

Open bottom design with "C" channel and two-inch lip for structural strength and for easy mounting to the concrete pad.

Includes three-point latching and pentahead bolt.



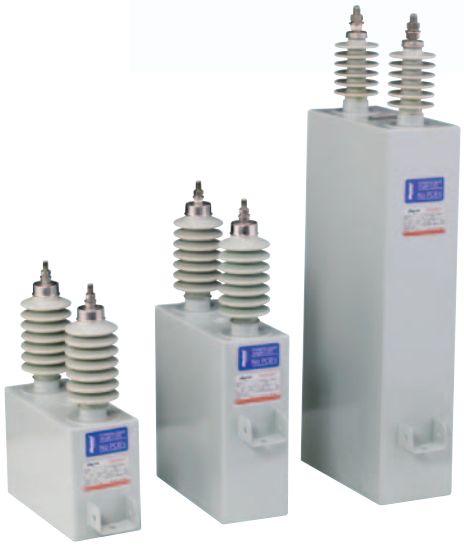
Lexan® barriers for convenient visual confirmation of switch operation.

304 stainless steel hinges.

Separate access doors for elbows and capacitor compartments.

Glass-reinforced polyester inter-phase barriers; white for maximum visibility.

Meets C57.12.28-1988 or latest revision for tamperproofing.



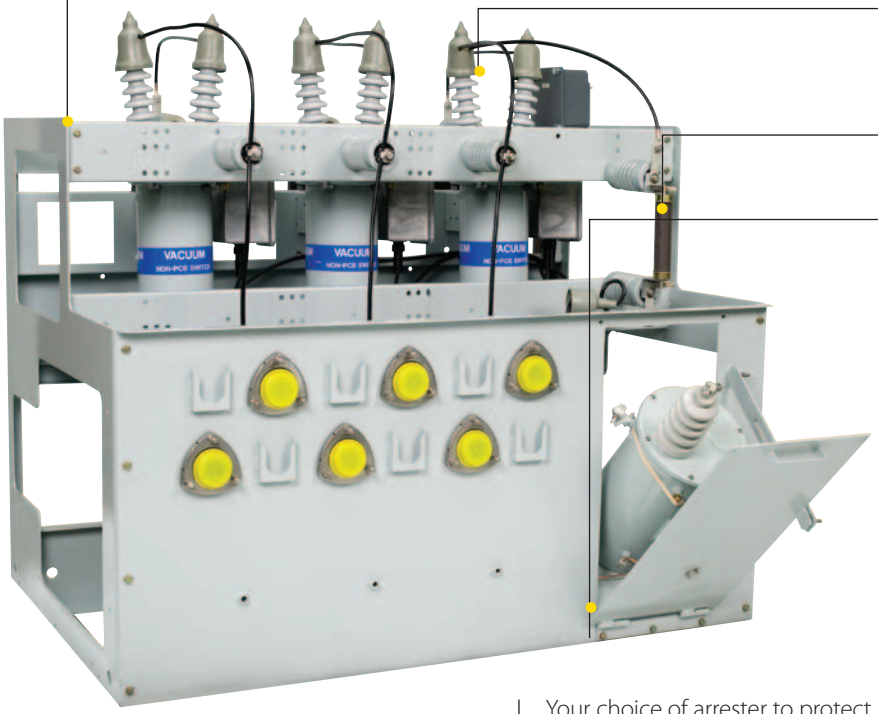
Trinetics Capacitors

- For 15kV, 25kV and 35kV applications
- 50, 100, 150, 200, 300 and 400 kVAR standard sizes
- 2-bushing or optional single bushing configuration
- External or optional internally fused
- Custom kVAR ratings for power factor correction and harmonic filter bank applications are available.

SmartBank™ Pad-Mounted Capactitor Banks

OPTIONS:

- Choice of oil, vacuum, or solid dielectric switches for switched banks
- Current-limiting reactors
- Neutral unbalance detectors
- Loop or radial feed designs
- 11 gauge enclosure
- All stainless steel/all aluminum enclosures available
- Sized for the additional units required in the future
- Available through 15-35 kV class
- Control power transformer
- Zinc-rich primer for severe environments



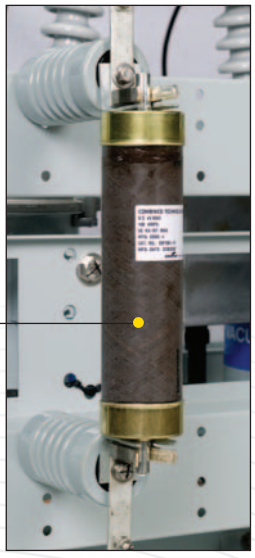
"Universal" mounting bracket designed to accommodate the standard dimensions of Trinetics or other currently available capacitors to minimize design time and enable quick turnaround.

"Universal" mounting bracket also accommodates **your choice of UltraVac** (not shown) **VS or CSD switches**

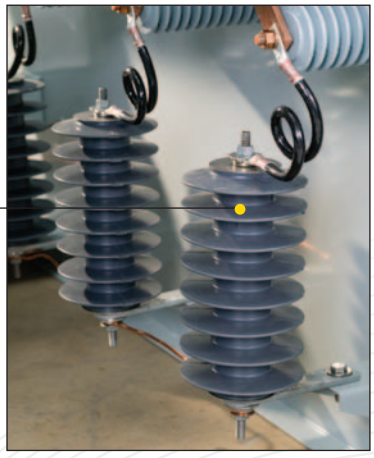
Separate fusing for Control Power Transformer (CPT) is optional

Tilt-out CPT for easy service acccess

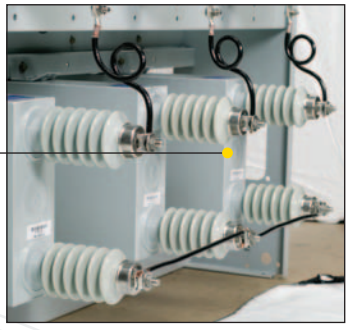
Choose group fusing or individual capacitor fusing, expulsion or current limiting fusing; coordinated with capacitor case rupture curves.



Your choice of arrester to protect against transient over-voltages caused by lightning or switching surges.



Trinetics capacitor or other brand of capacitor can be accommodated



What we need to know to build your Pad-Mount SmartBank™

Copy, fill out and fax this form or complete the form online at www.Trinetics.com.

ENCLOSURE

Material
- * 12 gauge steel (HRPO) (standard)
- * 11 gauge steel (HRPO)
- * Stainless steel
- * Aluminium
- * Other _____

Paint color
- * Munsell Green 7GY 3.29/1.5 (standard)
- * Gray (ANSI 70) Munsell 5BG 7.0/0.4
- * Gray (ANSI 61) Munsell 8.3BG 6.10/0.54
- * Other_____

Use a zinc-rich primer? * Yes * No

Configuration
- * Dead front 200A Bushing Wells
- * Dead front 600A Bushings
- * Live front

Feed style and termination
- * Radial feed (standard)
- * Loop feed with extra bushings
- * Loop feed with extra depth for elbows or tee's

CAPACITORS

Frequency
- * 50 Hz
- * 60 Hz (standard)

Rated unit voltage _____ volts

Unit kVAR rating_____ kVAR

Bushings
- * One
- * Two

Capacitor BIL _____

Volts _____

SYSTEM

System voltage line-to-line _____ volts

Bank connection
- * Grounded wye
- * Ungrounded wye
- * Delta

Phase voltage _____ volts
(line-to-ground for wye connections)

Total bank kVAR rating _____

System BIL and voltage class
- * 95kV BIL, 15kV
- * 125kV BIL, 25kV
- * 150kV BIL, 35kV

Current rating * 200A * 600A

Special requirements

SWITCHES

Capacitor switch style
- * Solid dielectric
- * Vacuum under oil
- * Oil

BIL Rating
- * 95 kV
- * 125 kV
- * 150 kV

Disconnect switch desired? * Yes * No

CONTROL TRANSFORMER

Style * Dry * Oil * None

If "Dry" or "Oil" is selected for Style, please complete the following fields:

Primary voltage _____ volts

kVA rating _____ kVA

PT fuse required? * Yes * No

ACCESSORIES

FUSING

* Grouped * Individual

Select one of the following:
- * Trinetics standard (clip mounted, current limiting, general purpose fuse)
- * Customer specification
  - Manufacturer _____
  - Style _____
  - Voltage rating_____
  - Current rating_____
  - Catalog number _____

ARRESTERS
- * None (standard)
- * Customer specification
  - Manufacturer _____
  - Style _____
  - Voltage rating_____
  - MCOV rating_____
  - Catalog number _____

Special requirements

15kV Standard Footprint

Up to 6 of each capacitor	Width	Depth	Height
50 up to 200 kVAR inclusive	64" (1,626 mm)	64" (1,626 mm)	60" (1,524 mm)
Above 200 kVAR inclusive	64" (1,626 mm)	70" (1,778 mm)	60" (1,524 mm)

Special requirements

HUBBELL POWER SYSTEMS, INC.

SS_01_020_E_0213

ISO 9001:2008 CERTIFIED AS 9100:2004