



The most
comprehensive
solution for
automatic power
factor correction

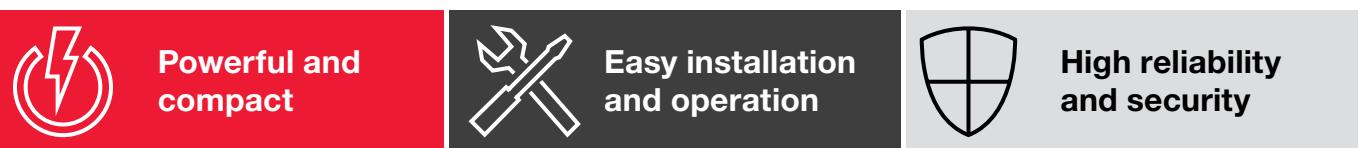


Power Quality Products | Brochure

Low voltage capacitor banks

Series 100, 300, 500, 700, 300R and 500R

| Series | Max. Stages | Max. kvar/Step | Max. kvar | Voltage | Dimension (inches) | Enclosure type | Aprox. Weight | Cable entry |
|-------------|-------------|----------------|-----------|-----------|--------------------|----------------|---------------|-------------|
| 100 | 3 | 15 | 45 | 480 / 600 | 24 x 20 x 10 | 1, 12, 3R | 90 lb | Top |
| 300 | 3 | 50 | 150 | 480 / 600 | 36 x 30 x 16 | 1, 12, 3R | 200 lb | Top / Side |
| 500 | 5 | 50 | 250 | 480 / 600 | 60 x 36 x 16 | 1, 12, 3R | 300 lb | Top / Side |
| 700 | 5 | 100 | 500 | 480 / 600 | 72 x 42 x 20 | 1, 12, 3R | 500 lb | Top / Side |
| 300R | 3 | 50 | 150 | 480 / 600 | 60 x 36 x 16 | 1, 12, 3R | 400 lb | Top / Side |
| 500R | 5 | 50 | 250 | 480 / 600 | 72 x 42 x 20 | 1, 12, 3R | 650 lb | Top / Side |



CLM3 and CLMR capacitor banks series

More Modularity and Ease of Configuration

CLM3 - Automatic capacitor bank

Possible configurations:

- 4-5-6-7-8 steps of single units
- Main protection can be added to the bank on request.
- Maximum step size is 100 kvar @ 480V / 600V

Technical specification:

- Maximum kvar size 1200 kvar @ 480V / 600V
- Dimensions: depends on the size
 - 4 steps (90“H x 38“W x 20“D)
 - 5 steps (90“H x 50“W x 20“D)
 - 6 steps (90“H x 62“W x 20“D)
 - 7/8 steps (90“H x 74“W x 20“D)
- Weight: depend on bank configuration
- Cable entry: top, bottom or side
- Up 12 steps configuration with slave unit



CLMR - Detuned capacitor bank (with reactors)

Possible configurations:

- 3-4-5-6 steps
- Main protection can be added to the bank on request.
- Maximum step size is 100 kvar @ 480V / 600V

Technical specification:

- Maximum kvar size 1200 kvar @ 480V / 600V
- Dimensions: depends on the size
 - 3 steps (90“H x 38“W x 20“D)
 - 4 steps (90“H x 50“W x 20“D)
 - 5 steps (90“H x 62“W x 20“D)
 - 6 steps (90“H x 74“W x 20“D))
- Weight: depend on bank configuration
- Cable entry: top, bottom or side
- Up 12 steps configuration with slave unit





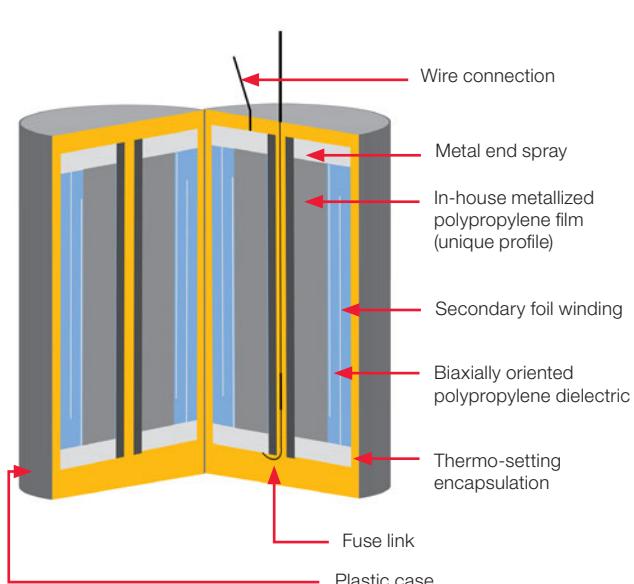
Automatic capacitor banks

Components: Capacitors

capacitors: CLMD

The dielectric of the capacitor windings is made of in-house metallized polypropylene film resulting in exceptional properties:

- High voltage withstand capability
- Excellent peak current handling capacity
- High capacitance stability
- Long life, even under high electrical stress
- Very low losses
- Exceptional self-healing properties
- Fire protection



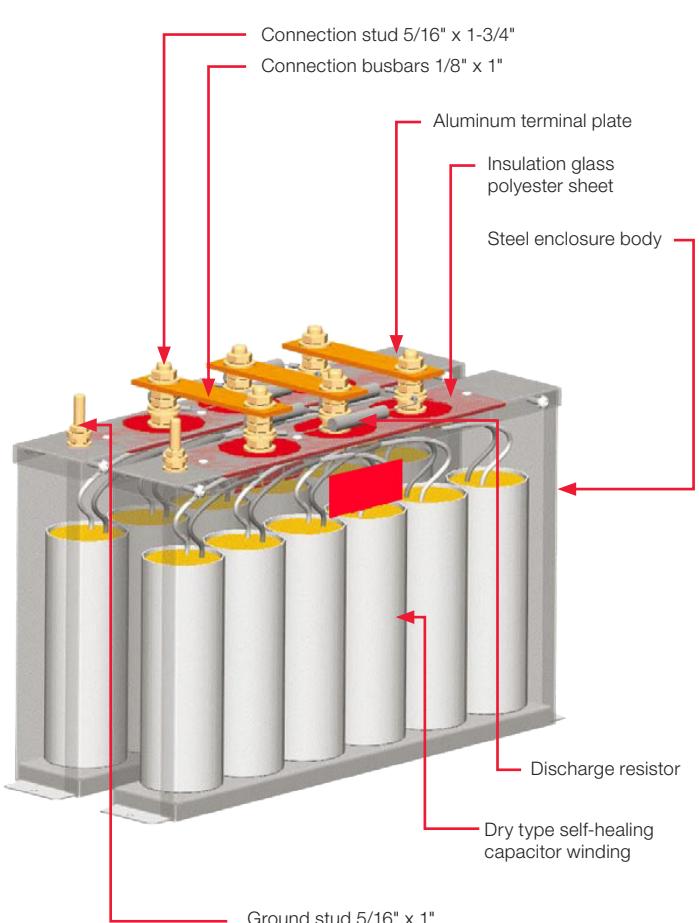
CLMD33C capacitors, utilized in series 300 to 700 bank, come with a unique voltage rating suitable for all voltage networks

The CLMD33C protection system offers reliable and safe protection. It is based on:

- The instant reaction of state of the art overpressure detection and disconnection devices.
- Double casing insulation protects the windings from the environment and assures high capacitance stability over the whole capacitor service life.

The CLMD33C is suitable for a maximum ambient temperature of +55°C (class D) and a minimum of -25°C.

The ISO 9001 and 14001 certification guarantees our commitment to the environment.



Automatic capacitor banks

Components: Power factor controller

RVT, for maximum protection of your capacitor bank against temporary deterioration of network quality

Features of RVT power factor controller

- Programmable protection thresholds (under voltage, over temperature, excessive harmonic distortion, etc...). RVT is recommended for installation where over voltage, resonance or over temperature occurs
- Guided navigation and programming
- Network information and bank monitoring (voltage, current, harmonic spectrum, etc...).
- Optional RS-485 Modbus adapter allowing communication with a monitoring system. All RVT parameters are remotely accessible (including harmonic spectra and tables)

- Multi-language support
- Help button giving instant access to a description of all RVT features and functionality
- Optional printer connection
- Input contacts for day/night power factor correction ($\cos \phi$) and external alarm
- Output contacts for alarm and fan relays (For further information on the RVT controller, please refer to the technical spec of the RVT controller)
- Backlit



LCD display with indication of:

- Full graphics display
- Inductive/Capacitive Power Factor
- Active outputs
- Demand for switching on/off of a capacitor step
- Alarm conditions
- Overtemperature condition
- Phase shift
- C/k
- Number of outputs
- Type of switching sequence
- Alarm conditions

Keypad with auto/manual mode, enabling easy commissioning with automatic recognition of:

- Special connections (Single-phase, CT leads)
- Number of outputs
- Number of outputs
- Type of switching sequence
- Alarm conditions



Modbus adapter

Automatic capacitor banks

Components: Reactors and other items

Reactors (for series ...R execution)

The dry type resin embedded reactors are specially designed to suit the reactive power compensation application. Their exceptional linearity and thermal stress resistance characteristics ensure a high reliability degree even in case of temporary overvoltage.



Contactors*

Contactors for automatic capacitor banks are specially selected for their excellent handling capability during endurance tests.

A key feature of the contactors is a special configuration (e.g. a front-mounted contact block) ensuring the serial insertion into the circuit of damping resistors limiting current peak on energizing of the capacitor bank. This connection also ensures capacitor pre-charging in order to limit the second current peak occurring on closing of the main poles a few milliseconds later.

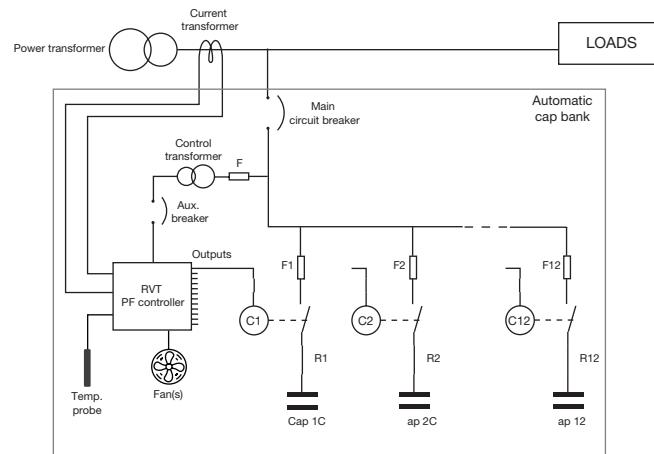
Ventillation

Except for series 100 systems, all capacitor bank are equipped with a ventilation system specially selected for their duration longevity. The capacitor bank ventilation system consists of fans with temperature-dependent probes which provide the fans with the necessary thermal data. In case of temporary overheating, the capacitor bank is automatically deactivated.

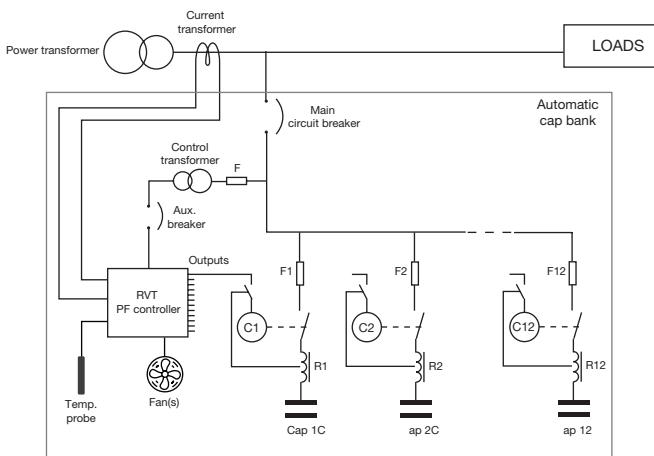
Other options

- Main circuit-breaker.
- Main disconnect switch.
- Main fusible disconnect switch.
- Main fusible disconnect switch with blown fuse indicators.
- Indicating lights; blown fuse indicators, state indicators, etc...
- Metering devices; ammeter, voltmeter, etc...
- Protection types; type 12, type 3R, dripshield, etc...
- Enclosure mounting brackets and legs.

Standard capacitor banks



Detuned / Tuned capacitor banks



Automatic capacitor banks: Part number configuration

B 03 G - 60 0100 B 2 1 - 1 0 0

Bank type

- B = Automatic bank
- A = Auxiliary bank (optional)
- F = Fixed bank (optional)
- S = Semi-automatic bank (optional)

Enclosure model

- 01 = Series 100 (24"H x 20"W x 12"D), up to 3 steps
- 03 = Series 300 (36"H x 30"W x 16"D), up to 3-5 steps
- 05 = Series 500 (60"H x 36"W x 16"D), up to 5 steps
- 07 = Series 700 (72"H x 42"W x 20"D), up to 5 steps
- R3 = Series 300R (60"H x 36"W x 16"D), up to 3 steps
- R5 = Series 500R (72"H x 42"W x 20"D), up to 5 steps
- MA = CLM3 (90"H x 38"W x 20"D), up to 4 steps
- MB = CLM3 (90"H x 50"W x 20"D), up to 5 steps
- MC = CLM3 (90"H x 62"W x 20"D), up to 6 steps
- MD = CLM3 (90"H x 74"W x 20"D), up to 8 steps
- RA = CLMR (90"H x 38"W x 20"D), up to 3 steps
- RB = CLMR (90"H x 50"W x 20"D), up to 4 steps
- RC = CLMR (90"H x 62"W x 20"D), up to 5 steps
- RD = CLMR (90"H x 74"W x 20"D), up to 6 steps
- RE = CLMR (42"H x 24"W x 20"D), 1 step only
- RF = CLMR (54"H x 36"W x 20"D), up to 2 step
- XX = Multiple enclosures individual incoming (Optional)
- YY = Multiple enclosures single incoming (Optional)

Enclosure type

- G = Type 1
- D = Type 12
- R = Type 3R (Optional)

Network voltage

- 20 = 208 Volts (Optional)
- 22 = 220 Volts (Optional)
- 24 = 240 Volts (Optional)
- 48 = 480 Volts
- 60 = 600 Volts

kvar rating

- 0010 = 10 kvar
- 0100 = 100 kvar
- 0200 = 200 kvar
- 0300 = 300 kvar
- 0400 = 400 kvar
- 0500 = 500 kvar
- 0700 = 700 kvar
- 0800 = 800 kvar
- 0900 = 900 kvar (Optional)
- 1000 = 1000 kvar (Optional)
- 1200 = 1200 kvar (Optional)

Main incoming

- B = Busbars or splitter
- N = Non-fusible disc. switch
- F = Fusible disconnect switch (Fuse not included)
- C = Circuit breaker

Options

- 0 / A = No options
- 1 / B = BFIs (Optional)
- 2 / C = State indicators (Optional)
- 3 / D = BFI's & State indicators (Optional)
- 4 / E = Reactor "Overheat" indicators (Optional)
- 5 / F = Pilot light "Power On" (Optional)
- 6 / G = Options 1, 4 & 5 (Optional)
- 7 / H = Push to test "BFI" (Optional)
- 8 / I = Over Voltage relay "OVR" (Optional)
- 9 / J = To be determined (Optional)

Frequency

- 0 = No Reactor at 60Hz
- 1 = 170 Hz (Optional)
- 2 = 227 Hz
- 3 = 245 Hz (Optional)
- 4 = 252 Hz (Optional)
- 5 = 282 Hz (Optional)
- 6 = 190 Hz at 50 Hz (Optional)
- A = No Reactor at 50 Hz (Optional)

Switching sequence

- 0 = No switching, for Fixed Banks
- 1 = 1:1:1:1:1:...:1
- 2 = 1:2:2:2:2:...:2
- 3 = 1:2:4:4:4:...:4 (Optional)
- 4 = 1:2:4:8:8:...:8 (Optional)
- 5 = 1:1:2:2:2:...:2 (Optional)
- 6 = 1:1:2:4:4:...:4 (Optional)
- 7 = 1:1:2:4:8:...:8 (Optional)
- 8 = 1:2:3:3:3:...:3 (Optional)
- 9 = 1:2:3:6:6:...:6 (Optional)
- A = 1:1:2:3:3:...:3 (Optional)
- B = 1:1:2:3:6:...:6 (Optional)

Future steps

- 0 = 0 Step
- 1 = 1 Step
- 2 = 2 Steps
- 3 = 3 Steps
- 4 = 4 Steps
- 5 = 5 Steps
- 6 = 6 Steps
- 7 = 7 Steps
- 8 = 8 Steps
- 9 = 9 Steps
- A = 10 Steps
- B = 11 Steps
- C = 12 Steps

No. of steps

- 2 = 2 Steps
- 3 = 3 Steps
- 4 = 4 Steps
- 5 = 5 Steps
- 6 = 6 Steps
- 7 = 7 Steps
- 8 = 8 Steps
- 9 = 9 Steps
- A = 10 Steps
- B = 11 Steps
- C = 12 Steps

LV capacitor banks: Standard assemblies

Series 100, 300, 500, 700

Series 100

| 480 V | | | |
|------------|--------------------|----------------|---------------------|
| Total kvar | Part number | Steps x kvar | Main protection (A) |
| 15 | B01G-480015B30-100 | 3 x 5 | 100 |
| 20 | B01G-480020B30-500 | 1 x 10 + 2 x 5 | 100 |
| 25 | B01G-480025B30-200 | 2 x 10 + 1 x 5 | 100 |
| 30 | B01G-480030B30-100 | 3 x 10 | 100 |
| 45 | B01G-480045B30-100 | 3 x 15 | 100 |

| 600 V | | | |
|------------|--------------------|----------------|---------------------|
| Total kvar | Part number | Steps x kvar | Main protection (A) |
| 15 | B01G-600015B30-100 | 3 x 5 | 100 |
| 20 | B01G-600020B30-150 | 1 x 10 + 2 x 5 | 100 |
| 25 | B01G-600025B30-120 | 2 x 10 + 1 x 5 | 100 |
| 30 | B01G-600030B30-100 | 3 x 10 | 100 |
| 45 | B01G-600045B30-100 | 3 x 15 | 100 |

Series 300

| 480 V | | | |
|------------|--------------------|-----------------|---------------------|
| Total kvar | Part number | Steps x kvar | Main protection (A) |
| 60 | B03G-480060B30-100 | 3 x 20 | 150 |
| 75 | B03G-480075B30-100 | 3 x 25 | 150 |
| 90 | B03G-480090B30-100 | 3 x 30 | 200 |
| 100 | B03G-480100B30-500 | 1 x 50 + 2 x 25 | 200 |
| 120 | B03G-480120B30-100 | 3 x 40 | 225 |
| 135 | B03G-480135B30-100 | 3 x 45 | 250 |
| 150 | B03G-480150B30-100 | 3 x 50 | 400 |

| 600 V | | | |
|------------|--------------------|-----------------|---------------------|
| Total kvar | Part number | Steps x kvar | Main protection (A) |
| 60 | B03G-600060B30-100 | 3 x 20 | 100 |
| 75 | B03G-600075B30-100 | 3 x 25 | 150 |
| 90 | B03G-600090B30-100 | 3 x 30 | 150 |
| 100 | B03G-600100B30-500 | 1 x 50 + 2 x 25 | 150 |
| 120 | B03G-600120B30-100 | 3 x 40 | 200 |
| 135 | B03G-600135B30-100 | 3 x 45 | 200 |
| 150 | B03G-600150B30-100 | 3 x 50 | 225 |

Series 500

| 480 V | | | |
|------------|--------------------|---------------------|---------------------|
| Total kvar | Part number | Steps x kvar | Main protection (A) |
| 175 | B05G-480175B30-300 | 1x100+1x50 +1x25 | 400 |
| 200 | B05G-480200B40-100 | 4 x 50 | 400 |
| 200 | B05G-480200B30-500 | 1 x 100 + 2 x 50 | 400 |
| 225 | B05G-480225B50-200 | 4 x 50 + 1 x 25 | 600 |
| 250 | B05G-480250B30-200 | 2 x 100 + 1 x 50 | 600 |
| 250 | B05G-480250B50-100 | 5 x 50 | 600 |

| 600 V | | | |
|------------|--------------------|---------------------|---------------------|
| Total kvar | Part number | Steps x kvar | Main protection (A) |
| 175 | B05G-600175B30-300 | 1x100+1x50 +1x25 | 250 |
| 200 | B05G-600200B40-100 | 4 x 50 | 400 |
| 200 | B05G-600200B30-500 | 1 x 100 + 2 x 50 | 400 |
| 225 | B05G-600225B50-200 | 4 x 50 + 1 x 25 | 400 |
| 250 | B05G-600250B30-200 | 2 x 100 + 1 x 50 | 400 |
| 250 | B05G-600250B50-100 | 5 x 50 | 400 |
| 300 | BR5G-600300B60-100 | 6 x 50 | 600 |

Series 700

| 480 V | | | |
|------------|--------------------|------------------|---------------------|
| Total kvar | Part number | Steps x kvar | Main protection (A) |
| 275 | B07G-480275B60-300 | 5 x 50 + 1 x 25 | 600 |
| 300 | B07G-480300B60-100 | 6 x 50 | 600 |
| 350 | B07G-480350B40-500 | 3 x 100 + 1 x 50 | 800 |
| 400 | B07G-480400B40-200 | 4 x 100 | 800 |
| 450 | B07G-480450B50-200 | 4 x 100 + 1 x 50 | 800 |
| 500 | B07G-480500B50-100 | 5 x 100 | 1000 |

| 600 V | | | |
|------------|--------------------|------------------|---------------------|
| Total kvar | Part number | Steps x kvar | Main protection (A) |
| 275 | B07G-600275B60-300 | 5 x 50 + 1 x 25 | 400 |
| 300 | B07G-600300B60-100 | 6 x 50 | 600 |
| 350 | B07G-600350B40-500 | 3 x 100 + 1 x 50 | 600 |
| 400 | B07G-600400B40-200 | 4 x 100 | 600 |
| 450 | B07G-600450B50-200 | 4 x 100 + 1 x 50 | 800 |
| 500 | B07G-600500B50-100 | 5 x 100 | 800 |

LV capacitor banks: Standard assemblies

Series 300R and 500R

Series 300R

| 480 V | | | |
|------------|--------------------|-----------------|---------------------|
| Total kvar | Part number | Steps x kvar | Main protection (A) |
| 60 | BR3G-480060B30-120 | 3 x 20 | 150 |
| 75 | BR3G-480075B30-120 | 3 x 25 | 150 |
| 100 | BR3G-480100B30-520 | 1 x 50 + 2 x 25 | 200 |
| 125 | BR3G-480125B30-220 | 2 x 50 + 1 x 25 | 250 |
| 150 | BR3G-480150B30-120 | 3 x 50 | 400 |

| 600 V | | | |
|------------|--------------------|-----------------|---------------------|
| Total kvar | Part number | Steps x kvar | Main protection (A) |
| 60 | BR3G-600060B30-120 | 3 x 20 | 100 |
| 75 | BR3G-600075B30-120 | 3 x 25 | 150 |
| 100 | BR3G-600100B30-520 | 1 x 50 + 2 x 25 | 150 |
| 125 | BR3G-600125B30-220 | 2 x 50 + 1 x 25 | 200 |
| 150 | BR3G-600150B30-120 | 3 x 50 | 225 |

Series 500R

| 480 V | | | |
|------------|--------------------|---------------------|---------------------|
| Total kvar | Part number | Steps x kvar | Main protection (A) |
| 175 | BR5G-480175B30-320 | 1x100+1x50 +1x25 | 400 |
| 200 | BR5G-480200B40-120 | 4 x 50 | 400 |
| 225 | BR5G-480225B50-220 | 4 x 50 + 1 x 25 | 600 |
| 250 | BR5G-480250B50-120 | 5 x 50 | 600 |
| 300 | BR5G-480300B60-120 | 6 x 50 | 600 |

| 600 V | | | |
|------------|--------------------|---------------------|---------------------|
| Total kvar | Part number | Steps x kvar | Main protection (A) |
| 175 | BR5G-600175B30-320 | 1x100+1x50 +1x25 | 250 |
| 200 | BR5G-600200B40-120 | 4 x 50 | 400 |
| 225 | BR5G-600225B50-220 | 4 x 50 + 1 x 25 | 400 |
| 250 | BR5G-600250B50-120 | 5 x 50 | 600 |
| 300 | BR5G-600300B60-120 | 6 x 50 | 600 |

- Main Lugs are provided with each assemblies and main protection may be added as an option.
- Disconnect switches, fusible disconnect switches or molded case circuit breakers may be added as a main protection. Selection table on following page.
- Type 12 and 3R are available options upon request.
- Additional sizes, ratings, or options are available upon request.

LV capacitor banks: Components

Standard selection for main incoming splitter blocks

| 480 V | | |
|-----------|---------------------|-----------------------|
| Max. kvar | Capacitor bank type | Incoming lugs |
| 45 | Series 100 | 1 x (#6AWG - #350MCM) |
| 150 | Series 300 | 2 x (#4AWG - #500MCM) |
| 250 | Series 500 | 2 x (4AWG - #500MCM) |
| 500 | Series 700 | 2 x (#4AWG - #500MCM) |
| 600 | CLM3 / CLMR | 4 x (#4AWG - #500MCM) |
| > 600 | CLM3 / CLMR | 4 x (#4AWG - #500MCM) |

| 600 V | | |
|-----------|---------------------|-----------------------|
| Max. kvar | Capacitor bank type | Incoming lugs |
| 45 | Series 100 | 1 x (#6AWG - #350MCM) |
| 150 | Series 300 | 2 x (#4AWG - #500MCM) |
| 250 | Series 500 | 2 x (4AWG - #500MCM) |
| 500 | Series 700 | 2 x (#4AWG - #500MCM) |
| 600 | CLM3 / CLMR | 4 x (#4AWG - #500MCM) |
| > 600 | CLM3 / CLMR | 4 x (#4AWG - #500MCM) |

Standard selection / recommendation for main disconnect switches

| 480 V | | |
|-----------------|-----------------------|-------------------------|
| Total max. kvar | Current rating (Amp.) | Incoming lugs |
| 50 | 100 | 1 x (#8AWG - #1/0AWG) |
| 110 | 200 | 1 x (#4AWG - #300MCM) |
| 220 | 400 | 1 x (#2AWG - #600MCM) |
| 330 | 600 | 2 x (#2AWG - #600MCM) |
| 440 | 800 | 4 x (#2AWG - #600MCM) |
| 660 | 1200 | 4 x (#2AWG - #600MCM) |
| 880 | 1600 | 6 x (#1/0AWG - #750MCM) |
| 1100 | 2000 | 6 x (#1/0AWG - #750MCM) |

| 600 V | | |
|-----------------|-----------------------|-------------------------|
| Total max. kvar | Current rating (Amp.) | Incoming lugs |
| 60 | 100 | 1 x (#8AWG - #1/0AWG) |
| 135 | 200 | 1 x (#4AWG - #300MCM) |
| 275 | 400 | 1 x (#2AWG - #600MCM) |
| 415 | 600 | 2 x (#2AWG - #600MCM) |
| 550 | 800 | 4 x (#2AWG - #600MCM) |
| 830 | 1200 | 4 x (#2AWG - #600MCM) |
| N/A | 1600 | 6 x (#1/0AWG - #750MCM) |
| N/A | 2000 | 6 x (#1/0AWG - #750MCM) |

Standard selection / recommendation for fusible disconnect switches

| 480 V | | |
|-----------------|-----------------------|-------------------------|
| Total max. kvar | Current rating (Amp.) | Incoming lugs |
| 50 | 100 | 1 x (#8AWG - #1/0AWG) |
| 110 | 200 | 1 x (#4AWG - #300MCM) |
| 220 | 400 | 1 x (#2AWG - #600MCM) |
| 330 | 600 | 2 x (#2AWG - #600MCM) |
| 440 | 800 | 4 x (#2AWG - #600MCM) |
| 660 | 1200 | 4 x (#2AWG - #600MCM) |
| 880 | 1600 | 6 x (#1/0AWG - #750MCM) |
| 1100 | 2000 | 6 x (#1/0AWG - #750MCM) |

| 600 V | | |
|-----------------|-----------------------|-------------------------|
| Total max. kvar | Current rating (Amp.) | Incoming lugs |
| 60 | 100 | 1 x (#8AWG - #1/0AWG) |
| 135 | 200 | 1 x (#4AWG - #300MCM) |
| 275 | 400 | 1 x (#2AWG - #600MCM) |
| 415 | 600 | 2 x (#2AWG - #600MCM) |
| 550 | 800 | 4 x (#2AWG - #600MCM) |
| 830 | 1200 | 4 x (#2AWG - #600MCM) |
| N/A | 1600 | 6 x (#1/0AWG - #750MCM) |
| N/A | 2000 | 6 x (#1/0AWG - #750MCM) |

Standard selection / recommendation for main circuit breakers

| 480 V | | |
|-----------------|-----------------------|-------------------------|
| Total max. kvar | Current rating (Amp.) | Incoming lugs |
| 55 | 100 | 1 x (#14AWG - #1/0AWG) |
| 110 | 200 | 1 x (#6WG - #350MCM) |
| 220 | 400 | 2 x (#3/0AWG - #250MCM) |
| 330 | 600 | 2 x (#250MCM - #500MCM) |
| 440 | 800 | 3 x (#2/0AWG - #400MCM) |
| 660 | 1000 | 4 x (#4/0AWG - #500MCM) |
| 880 | 1200 | 4 x (#4/0AWG - #500MCM) |

| 600 V | | |
|-----------------|-----------------------|-------------------------|
| Total max. kvar | Current rating (Amp.) | Incoming lugs |
| 60 | 100 | 1 x (#14AWG - #1/0AWG) |
| 135 | 200 | 1 x (#6WG - #350MCM) |
| 275 | 400 | 2 x (#3/0AWG - #250MCM) |
| 415 | 600 | 2 x (#250MCM - #500MCM) |
| 550 | 800 | 3 x (#2/0AWG - #400MCM) |
| 690 | 1000 | 4 x (#4/0AWG - #500MCM) |
| 830 | 1200 | 4 x (#4/0AWG - #500MCM) |

LV capacitor banks

Technical specifications

Nominal voltage and frequency: 208 up to 600V – 60Hz (standard range)

Connection: Three phase.

Configuration:

- Series 100, 300, 500, 700, 300R, 500R, CLM3 and CLMR: master unit only.
- Series 100, 300, 500, 700, 300R, 500R, CLM3 and CLMR: auxiliary unit only.

(Auxiliary units are not equipped with PF controller but are fitted with interconnection wires to the master unit.)

Power factor setting:

From 0.7 inductive to 0.7 capacitive.

Starting current setting (C/k): From 0.01 A to 5 A for the RVT

Operation: Automatic or manual setting of the controller with indication of:

- The number of active outputs.
- The inductive or capacitive power factor.
- Alarm conditions.
- Overttemperature.
- Demand for switching on/off of a capacitor step.
- Overvoltage and undervoltage protection.

Losses:

- Dielectric losses: less than 0.2 Watt/kvar.
- Capacitor total losses: less than 0.5 Watt/kvar (discharge resistors included).

Automatic bank total losses:

- without reactors: less than 1.5 Watt/kvar (including losses from all accessories),
- with reactors: less than 5.5 Watt/kvar (including accessories losses).

Capacitors:

Dry type, self-healing, according to EN 60831-1&2.

Voltage test: 2.15 times Un (Un = Line to line) between terminals for a duration of 10 s. at the rated frequency (above EN 60831-1&2).

Acceptable overloads:

- Overvoltage tolerance: 10% max. Intermittently.
- Overcurrent tolerance: 30% permanently.

Temperature range: -25°C / class D according to IEC 60831-1&2.

Compliance: CSA C22.2.C190, UL/cUL 508A

Automatic capacitor bank tests: Insulation test, Functional test.

Protection: Type 1, Type 12 (optional), Type 3R (optional)

Color: Gray ASA61

Ambient temperature: -10°C/+40°C

Ventilation:

Forced for series 300, 500, 700, 300R, 500R, CLM3 and CLMR

Dimensions:

- Series 100: 24"H x 20"W x 12"D (609mm x 508mm x 304m)
- Series 300: 36"H x 30"W x 16"D (915mm x 762mm x 406mm)
- Series 500 and 300R: 60"H x 36"W x 16"D (1524mm x 915mm x 406mm)
- Series 700 and 500R: 72"H x 42"W x 20"D (1828mm x 1066mm x 508mm)
- Series CLM3:
 - 4 Steps: 90"H x 38"W x 20"D (2286mm x 965mm x 508mm)
 - 5 Steps: 90"H x 50"W x 20"D (2286mm x 1270mm x 508mm)
 - 6 Steps: 90"H x 62"W x 20"D (2286mm x 1575mm x 508mm)
 - 8 Steps: 90"H x 74"W x 20"D (2286mm x 1880mm x 508mm)
- Series CLMR:
 - 3 Steps: 90"H x 38"W x 20"D (2286mm x 965mm x 508mm)
 - 4 Steps: 90"H x 50"W x 20"D (2286mm x 1270mm x 508mm)
 - 5 Steps: 90"H x 62"W x 20"D (2286mm x 1575mm x 508mm)
 - 6 Steps: 90"H x 74"W x 20"D (2286mm x 1880mm x 508mm)

Weight (approx.):

- Series 100, 90lbs (45kg)
- Series 300, 200lbs (90kg), series 300R, 380lbs (172kg)
- Series 500, 300lbs (137kg), series 500R, 600lbs (272kg)
- Series 700, 500lbs (227kg)
- Series CLM3, depend on bank configuration.
- Series CLMR, depend on bank configuration

Installation:

Series 100, 300, 500 and 300R;

- Wall mounting (fixation brackets optional).
 - Top or side cable entry.
- Series 700, 500R, CLM3 and CLMR;
- Modular free-standing cubicle.
 - Floor fixation.
 - Lifting eye-bolts provided.
 - Top or side cable entry.