

# C100 Series

## AUTOMATIC POWER FACTOR CORRECTION



### 4, 6 Unit Assemblies

- 10 to 600 kVAR
- 208 to 600 volts



### 6 to 12 Units Assemblies

- 400 to 1200 kVAR
- 208 to 600 volts
- Nema Type - 1, 2, 3R, 12, 4X

The Gentec C100 Automatic capacitor banks are used for central power factor correction at main and group distribution boards. Power factor correction means that reactive power charges levied by electricity suppliers can be avoided. The C100 automatic capacitor banks consist of stages controlled by a reactive power regulator, which ensures that the required capacitor power is always connected to the system.

In C100 Capacitor floor and wall-mounted automatic capacitor bank, all components (capacitor units, contactors, controller and fuses) are built into a compact steel enclosure. This makes installation easy, and capacitor banks can also be easily planned for in the cabling recommendations.

The C100 4, 6 & 12 units assemblies are available in free standing or wall mounted configuration. When power ratings in 240 kVAR in 4 unit, 600 kVAR in 6 units and 1200 kVAR in 12 units are required, cubicle type automatic capacitor banks are used.

**Important: When selecting compensation for a system which contains a harmonic generating load, check that the automatic capacitor bank is suitable for the purpose. In systems where harmonics are present, compensation should be by means of a capacitor bank with anti-resonant reactors (de-tuned filter) or a harmonic filter (tuned filter).**

### TECHNICAL DATA - C100 - Series

● Rated Voltage / Phase	208 to 600 volts / 3 phases
● Rated Frequency	50 Hz or 60 Hz
● Rated Power	20 to 1200 kVAR / unit
● Power Factor Controller	N12 or NC12 12 steps
● Insulation Level	5 kV
● Power Losses	0.4 W/kVAR
● Continuous Overvoltage	110 %
● Continuous Overcurrent	135 %
● Mounting Type	Floor Mounting
● Enclosure Type	Indoor, outdoor
● Temperature Class	-40 °C to 55 °C
○ Average 24h:	+ 45 °C
● Certification	cCSAus
● Color	ASA 61 (Light Grey)
● Construction Standard	IEC

## ➤ Technical Data C100 Series

Standard Features and Options	4-Unit Ass.	6-Unit Ass.	12-Unit Ass.
Enclosure floor mounted c/w lifting ring (Type 1, 2, 3R, 4X)	1, 2, 3R, 12	1	1, 2, 3R, 12, 4X
Three points lockable door handle	○	■	■
ASA 61 Grey (other colors on request)	■	■	■
Top cable entry (bottom entry on request)	■	■	■
Capacitors space / KVAR max / unit (custom staging ratios)	4 / 60 kVAR	6 / 100 kVAR	12 / 100 kVAR
Incoming silver flashed copper bus 30 kV BIL c/w mechanical lugs	■	■	■
Power and control wires	T90 / T105	T90 / T105	T90 / T105
DSHI Capacitor (heavy duty type on request)	■	■	■
Current limiting fuses HRC type ____ amps 200 kA	■	■	■
Magnetic contactor c/w special switching devices	■	■	■
Damping reactor	■	■	■
Power factor controller (ON / OFF switches)	6 steps	6 & 12 steps	12 steps
Control & potential transformer c/w GFI breaker,* CT Shorting device [ * By Request ]	■	■	■
<b>Option(s)</b>			
Current transformer (split core type)	○	○	○
Main breaker or fuses disconnect	○	○	○
Blown fuses indicating light c/w push bottom test	○	○	○
Thermostatic ventilation system	○	○	○
Main current metering c/w ammeter and phase selector	○	○	○
Electric door interlock	○	○	○
Kirk Key system interlock with the remote main breaker	○	○	○
Special metering arrangement	○	○	○

■ = Standard    ○ = Optional

## ➤ 4, 6, 12 Unit Dimensions

