Racks and cubicles for capacitor banks

COMPOSITION

Possible components of medium voltage capacitor banks:

- Capacitors
- Additional accessories (discharge reactors, damping reactors and detuned reactors)
- Built-in electrical protection devices (HRC fuses, unbalance protection devices, etc.)
- Operating devices (circuit breakers, switches, contactors, etc.)
- Power factor controllers for automatic capacitor banks

They can be fitted and wired:
- On open racks (IP 00)
- In cubicles (IP 21 or IP 23 - IK 05)
  (other degrees of protection on request).

These assemblies are designed for:
- Indoor type installation
- Outdoor type installation

ALPES TECHNOLOGIES offers various standard or specific equipment to meet your requirements.
**INSTALLATION EXAMPLES**

**Fixed type – Delta configuration**

- Max. voltage: 12 kV
- Max. power: 2500 kVAR
- Installation: indoor or outdoor

- Possible components: damping reactors, discharge reactors, HRC fuses, earthing switch, detuned reactor, etc.
- Max. dimensions (mm): 2000 x 2000  H = 2200

**Example of electrical diagram**

**Example of assembly**
Racks and cubicles for capacitor banks (continued)

INSTALLATION EXAMPLES

Fixed type with contactors – Delta configuration

- Max. voltage: 12 kV
- Max. power: 2500 kVar
- Installation: indoor or outdoor
- Possible components: damping reactors, discharge reactors, contactors, HRC fuses, power factor relays, detuned reactor, etc.
- Max. dimensions (mm): 2000 x 2000   H = 2200

Example of electrical diagram

Example of assembly
Fixed type – Double star configuration

- Max. voltage: 36 kV
- Max. power: 20,000 kVAr
- Installation: indoor or outdoor
- With or without serial group per branch

- Possible components: damping reactors, discharge reactors, unbalance relays, unbalance current transformers, etc.
- Max. dimensions [mm]: 3500 x 2000  H = 4000

Example of electrical diagram
Racks and cubicles for capacitor banks (continued)

INSTALLATION EXAMPLES

Fixed type – Double star configuration

- Max. voltage: 24 kV
- Max. power: 5000 kVAR
- Installation: indoor or outdoor

Possible components:
- damping reactors, discharge reactors, unbalance current transformers, unbalance relays, etc.
- Max. dimensions (mm): 2500 x 2000 \( H = 2200 \)

Example of electrical diagram

Example of assembly