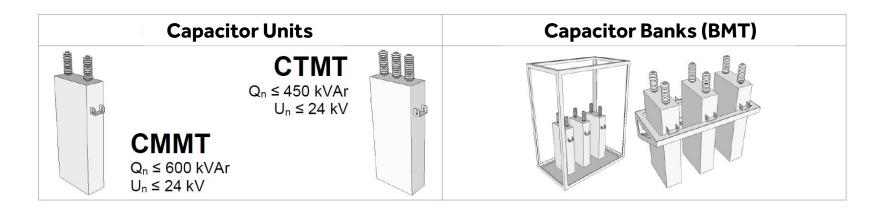


M.V. CAPACITORS & CAPACITOR BANKS

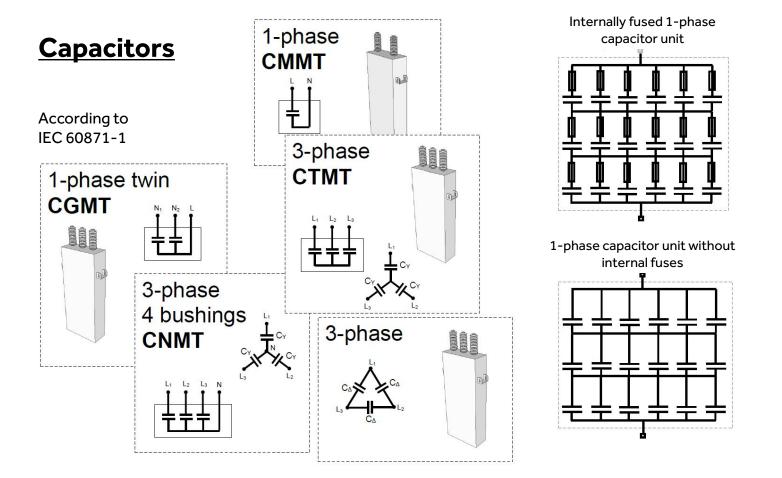
COMAR supplies **single and three-phase capacitors**, as well as **capacitor banks**, featuring extra low losses, high reliability and they are applicable to various needs. They are used in making:

- power factor correction
- filters for harmonics
- protection against overvoltage
- loss reduction





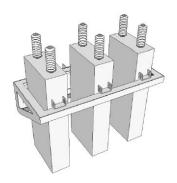
M.V. CAPACITORS & CAPACITOR BANKS



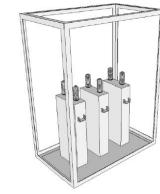


M.V. CAPACITORS & CAPACITOR BANKS

Capacitor Banks (BMT)



Outdoor Pole mounting (metallic bracket IP00)



Indoor / Outdoor
Floor mounting (metallic cage IP00)

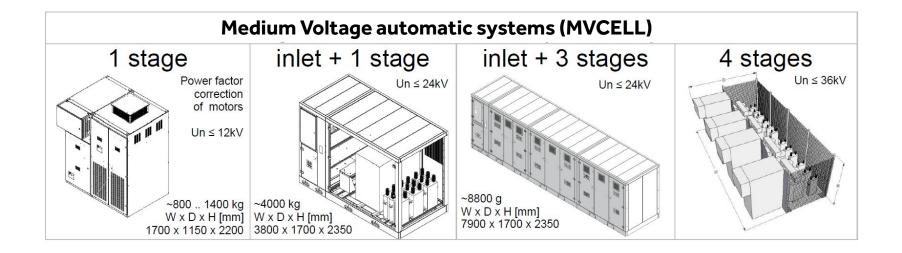
Accessories:

- Inrush reactors
- Expulsion fuses
- Fuse cut-outs (expulsion fuses)





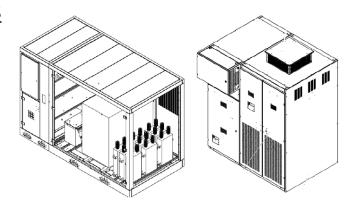
The range of **MVCELL** is designed for MV power factor correction applications composed of three-phase capacitors or capacitor banks for medium power factor correction of loads such as transformers, motors... They are particularly suited in cases where the user needs power factor correction that is easy to install and fast to integrate, as they are all compact and complete platforms.





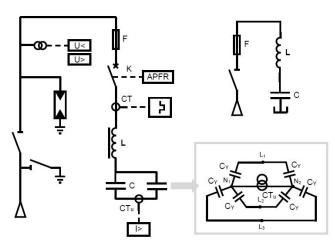
Modular solutions

Indoor Metallic enclosure IP3X

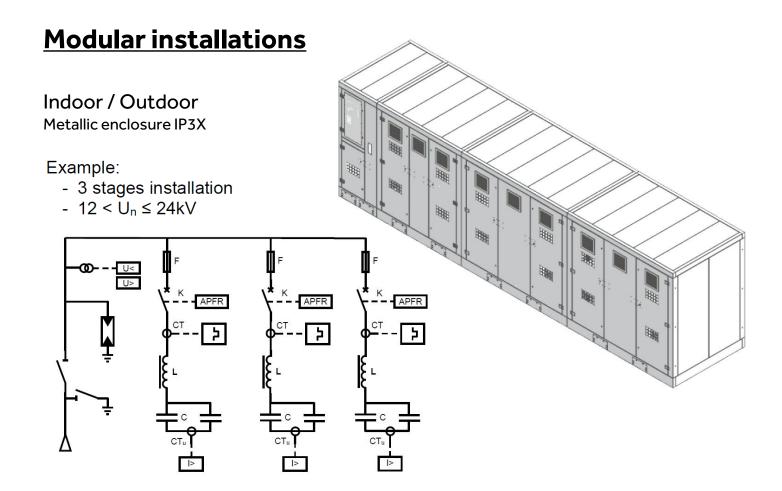


Options:

- outdoor (IP41, IP54)
- inrush reactors or detuned reactors (189Hz)
- surge arrester
- overcurrent protection
- double Y connection, with unbalance protection
- infrared inspection window
- smoke detector









Safety devices to protect the power factor correction system

Inside the capacitor unit:

- Fuse on each capacitor element
- Pressure switch

Inside each capacitor stage:

- Overcurrent protection (1 protection relay + 3 current transformers)
- Current unbalance protection (YY configuration + 1 protection relay + 1 current transformer)
- Detuned reactor
- Over-temperature alarm

In the inlet stage of the capacitor installation:

Overvoltage protection

Outside the capacitor unit:

- Smoke detector and over-temperature alarm connected to the fire protection system
- Upstream residual current device



PROJECTS (2020)

COMAR completed the commissioning of 2 automatic power factor correction systems, **3.5Mvar** at **11kV** each, integrated into 20-foot containers with IP55.







This supply has been installed at the **Petronas** Integrated Petroleum Complex in Pengerang, Malaysia.



PROJECTS (2020)

COMAR delivered two Medium Voltage automatic power factor correction systems, each of **2800kvar 13.8kV 60Hz**!







This supply for **SWCC** has been installed at Al Khobar 2 desalination plant, Saudi Arabia.



PROJECTS (2020)

COMAR has also delivered two semi-automatic power factor correction systems in Medium Voltage at **5.5kV**!





LafargeHolcim

These phase plugs, installed at one of the largest cement plants in the world of the **LafargeHolchim** group, compensate for the high-power motors of the shredders.



