

## 5.08. FILTERING CHOKES FOR PROTECTING CAPACITOR BANKS OF REACTIVE POWER COMPENSATORS

They are designed to protect the capacitor banks of static compensators of reactive power from high currents and overheating due to the influence of higher harmonics in power supply systems.

When connected in series with capacitors, the chokes create a circuit, whose resonant frequency is lower than a frequency of the lowest harmonic of the network, thereby eliminating the danger of resonance between capacitor unit and network inductance.

Each value of the choke power corresponds to its own resonant frequency.

### *Main technical specifications:*

<b>Choke</b>	three-phase with an iron core and a double air gap
<b>Power</b>	3%, 5,65%, 7%, 14% of capacitor power
<b>Cooling</b>	air, natural
<b>Impregnation</b>	silicone resin
<b>Winding material</b>	copper

