

g52filter-rack

|| 100 kVAr

Modular Racks with Detuning Chokes 134 Hz (p=14%)

Code	CFG52100							
Rated voltage	400 ÷ 415 V							
Frequency	50 Hz	Vmax	24h	8h	30m	15m	5m	1m
Capacitors Voltage	525 V	Imax	525	580	600	5In	630	680
Capacitors Voltage max	580 V		3In		4In			10 In
THDi max	≤ 100 %							
Power @ 400 V	100 kvar							
Power @ 415 V	108 kvar							
Rated current	144 A							
Banks (400 V)	25-25-50							
Steps	4 x 25 kVAr							
Typology of Capacitors	MKP525G							
Dimensions (WxHxD)	695*300*500							
Reference standards (PFC unit)	EN61921, EN61439-1/2							



Technical Features

Capacitors Three-phase metallized polypropylene Capacitors with Nitrogen Gas (N2) insulation, “dry type”, MKP525G Series, Rated Voltage 525 V, Insulation Voltage 690 V, equipped with discharge resistors, overpressure safety device and IP20 terminals. Dielectric losses < 0,2W/kVAr. Reference Standards IEC60831-1/2, UL N.810, CSA

Detuning Chokes made of copper/aluminum sheet oriented crystals, placed in series between the contactor and the capacitor bank, with the following features: linearity 1.8 Ip/In, realized in class H, over temperature range: 60°C, complete with thermal probe for switching off Capacitors Banks in case of overtemperature, limit the peak current inrush capacitors, detuning frequency 134 Hz (p=14%), standard for 5th Harmonic

Three-Pole Contactors for capacitor banks, with high number of insertions (>250.000)

– 3-pole mains and 1 built-in auxiliary contact

– block for serial insertion in the circuit of 3 resistors that limit the peak current at the excitation of the condenser battery. Reference standards IEC 60947-1 / 60947-4-1 and EN 60947-1 / 60947-4-1

Modular Rack in sheet-steel 15 and 20/10, equipped with an aluminium busbar system (**TELEGROUP's PFCs are Type Tested KEMA ref. 5189-16 l_{cw} 50 kA for 1 sec**). Protection degree IP00. Thanks to the new concept, the access for maintenance is very easy. The wiring is realized through FS17, Standards CEI EN 50575, CEI UNEL 35716, CEI EN 50525 and CPR UE305/11

NH00 Fuses 100 kA for the protection of each capacitor bank.