

g48rack-T

|| 23 kVAr

Modular Racks with Thyristor insertion

Code	CSG44T23
Rated voltage	400 ÷ 480 V
Frequency	50 Hz
Capacitors Voltage	480 V
Capacitors Voltage max	530 V
THDi max	≤ 25 %
Power @ 400 V	23 kvar
Power @ 415 V	25 kvar
Power @ 480 V	33 kvar
Rated current	33.12 A
Banks (400 V)	11.5-11.5
Steps	2 x 11.5 kVAr
Typology of Capacitors	MKP480G
Dimensions (WxHxD)	695*300*500
Reference standards (PFC unit)	EN61921, EN61439-1/2

	24h	8h	30m	15m	5m	1m	Peak
Vmax	480	530	555	580	625	1450	
Imax	3In		4In	5In		10 In	



Technical Features

Capacitors Three-phase metallized polypropylene Capacitors with Nitrogen Gas (N2) insulation, "dry type", MKP480G Series, Rated Voltage 480 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

The Thyristor is the intrinsic regulation organ in a Static Module and works in principle as an electronic switch that performs a switching process at each half of the power supply. The thyristors which form part of the module are "triggered" through a gate pulse; the current flows until its value falls below the value of the holding current, which in the alternating current circuits corresponds to the zero crossing of one of the two half-wave in the network. The Module consists of two phase Thyristors (one for the positive half-wave, the other for the negative one) connected in anti-parallel. The insertion of detuning capacitors and ballasts is thus accomplished without moving parts. The thyristors are commanded at the natural passage for the zero of the capacitor current. The capacitors are thus connected to the plant without significant transients; control is also such as to significantly limit harmonic emissions below the regulatory limits.

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.