

# r52filter-rack

 100 kVAr

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

Code	CFR52100
Rated voltage	400 ÷ 415 V
Frequency	50 Hz
Capacitors Voltage	525 V
Capacitors Voltage max	580 V
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	MKP525R
Dimensions (WxHxD)	695*300*500
Reference standards (PFC unit)	EN61921, EN61439-1/2

	<b>24h</b>	<b>8h</b>	<b>30m</b>	<b>15m</b>	<b>5m</b>	<b>1m</b>	<b>Peak</b>
<b>Vmax</b>	525	580	600		630	680	1600
<b>I<sub>max</sub></b>	2I <sub>n</sub>		3I <sub>n</sub>	4I <sub>n</sub>			10 I <sub>n</sub>



### Technical Features

**Capacitors** Three-phase metallized polypropylene Capacitors with Resin insulation, MKP480R 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

**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<sub>cw</sub> 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.