

r48filter-rack

Rated Voltage	400 ÷ 415 V
Rated Frequency	50 Hz
Capacitors Voltage	480 V
THDi max	100 %
THDv max	≤ 6 %
Temperature class	-5 / +52°C
Insulating Voltage	690 V
Max overcurrent	1,3 In
Reference standards	EN61921, EN61439-1



Capacitors

Three-phase metallized polypropylene Capacitors Oil filled, MKPR Series, Rated Voltage 480 V, Operating Voltage 400 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

Overvoltage: 480 V (24h), 530 V (8h), 555 V (30m), 585 V (5m), 625 V (1m), 1450 V (Picco)

Overcurrent: 2In (24h), 3In (30m), 4In (15m), 10In (Picco)

Contactors

Three-pole Contactors for capacitor banks, with high number of insertions (>250.000), with resistors for the limitation of high current from capacitor's insertion (> di 100 In), and auxiliary contact. Reference standard IEC 60947-1 / 60947-4-1 and EN 60947-1 / 60947-4-1

Detuning Reactors

Detuning reactors made of 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 189 Hz (p=7%), standard for 5th Harmonic

Fuses

NH00 Fuses 100 kA for the protection of each capacitor bank. Auxiliary circuits are protected through 10,3 x 38 Fuses

Modular Rack

Sheet-steel enclosure 15 and 20/10,).

Protection degree IP00 external,

Wiring made with cables are FS17 type, Reference standards CEI EN 50575, CEI UNEL 35716, CEI EN 50525 e CPR UE305/11.

Optional: copper busbar system (Type Tested KEMA ref. 5189-16 Icw 50 kA for 1 sec.).

Code		kvar		Banks			Steps	Current (A)	Dim. (mm) (WxHxD)
		400 V	415 V	400 V					
CFR48	25//1	25	27	12,5	12,5		2	36	495x320x550
CFR48	25//2	25	27	25			1	36	495x320x550
CFR48	50//1	50	54	25	25		2	72	495x320x550
CFR48	50//2	50	54	50			1	72	495x320x550
CFR48	75	75	81	25	50		3	108	495x320x550
CFR48	75//1	75	81	75			1	108	495x320x550
CFR48	100	100	108	25	25	50	4	144	495x320x550
CFR48	100//1	100	108	50	50		2	144	495x320x550
CFR48	100//2	100	108	100			1	144	495x320x550