

r46 Fix

Rated voltage	400 ÷ 460 V
Frequency	50 Hz
Capacitors Voltage	460 V
Capacitors Voltage max	520 V
THDi max	≤ 19 %
Typology of Capacitors	MKP460R
Temperature class (PFC unit)	-25 / +65°C
Insulation voltage (PFC Unit)	690 V
Max overload (PFC unit)	1,3 In
Total losses (PFC unit)	< 2 W/kvar
Reference standards (PFC unit)	EN61921, EN61439-1
Reference standards (Capacitors)	IEC60831/1-2

	24h	8h	30m	15m	5m	1m	Peak
Vmax	460	520	535		555	600	1410
Imax	2In		3In	4In			10 In



Technical Features

Capacitors Three-phase metallized polypropylene Capacitors with Resin insulation, MKP460R Series, Rated Voltage 460 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

Sheet-steel enclosure 15 and 20/10, painted with epoxy dust paint, colour RAL7035 (others on request). Internal setting in mounting plate and connection through power cables as per CEI20/22/II e CEI EN 50627-2-1. Protection degree IP30 external (IP54 on request)l, IP00 internal (IP20 with open doors on live parts)

Three-pole Switch Disconnecter with door interlock, sized 1,5 time the nominal current of PFC Unit as per EN61921

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

Ventilation Natural, thanks to the configuration of cabinets and the low losses of three-phase Capacitors (forced ventilation with fan on request)

Standard configuration

Code		kvar			Switch Disconnecter		Cabinet	Weight (Kg)
		400 V	415 V	460 V	(A)	Icc (kA) ²		
FTR46	5	5	5,38	6,61	80	1,5	CR5-F	14
FTR46	7.5	7,5	8,07	9,92	80	1,5	CR5-F	15
FTR46	10	10	10,76	13,22	80	1,5	CR5-F	16
FTR46	12.5	12,5	13,45	16,53	80	1,5	CR5-F	18
FTR46	15	15	16,14	19,83	80	1,5	CR5-F	19
FTR46	25	25	26,90	33,05	80	1,5	CR5-F	21
FTR46	50	50	53,80	66,10	125	2,5	CR5-F	23
FTR46	75	75	80,70	99,15	160	8	CR1	33

Other technical features and optional please check pag. 36-37

g44 fix

Rated voltage	400 ÷ 440 V
Frequency	50 Hz
Capacitors Voltage	440 V
Capacitors Voltage max	485 V
THDi max	≤ 15 %
Typology of Capacitors	MKP440G
Temperature class (PFC unit)	-25 / +65°C
Insulation voltage (PFC Unit)	690 V
Max overload (PFC unit)	1,3 In
Total losses (PFC unit)	< 2 W/kvar
Reference standards (PFC unit)	EN61921, EN61439-1
Reference standards (Capacitors)	IEC60831/1-2

	24h	8h	30m	15m	5m	1m	Peak
Vmax	440	485	520		530	575	1350
Imax	2In		3In	4In			10 In



Technical Features

Capacitors Three-phase metallized polypropylene Capacitors with Nitrogen Gas (N₂) insulation, "dry type", MKP440G Series, Rated Voltage 440 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

Sheet-steel enclosure 15 and 20/10, painted with epoxy dust paint, colour RAL7035 (others on request). Internal setting in mounting plate and connection through power cables as per CEI20/22/II e CEI EN 50627-2-1. Protection degree IP30 external (IP54 on request), IP00 internal (IP20 with open doors on live parts)

Three-pole Switch Disconnecter with door interlock, sized 1,5 time the nominal current of PFC Unit as per EN61921

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

Ventilation Natural, thanks to the configuration of cabinets and the low losses of three-phase Capacitors (forced ventilation with fan on request)

Standard configuration ■■

Code		kvar			Switch Disconnecter		Cabinet	Weight (Kg)
		400 V	415 V	440 V	(A)	Icc (kA) ²		
FTG44	5	5	5,38	6,05	80	1,5	CR5-F	14
FTG44	7.5	7,5	8,07	9,08	80	1,5	CR5-F	15
FTG44	10	10	10,76	12,10	80	1,5	CR5-F	16
FTG44	12.5	12,5	13,45	15,13	80	1,5	CR5-F	18
FTG44	15	15	16,14	18,15	80	1,5	CR5-F	19
FTG44	25	25	26,90	30,25	80	1,5	CR5-F	21
FTG44	50	50	53,80	60,50	125	2,5	CR5-F	23
FTG44	75	75	80,70	90,75	160	8	CR1	33

Other technical features and optional please check pag. 36-37

r48 filter-fix

Fix Power Factor Correction systems
with detuning chokes 189 Hz (p=7%)

Rated voltage	400 ÷ 415 V
Frequency	50 Hz
Capacitors Voltage	480 V
Capacitors Voltage max	530V
THDi max	≤ 19 %
Typology of Capacitors	MKP480R
Temperature class (PFC unit)	-25 / +65°C
Insulation voltage (PFC Unit)	690 V
Max overload (PFC unit)	1,3 In
Total losses (PFC unit)	< 2 W/kvar
Reference standards (PFC unit)	EN61921, EN61439-1
Reference standards (Capacitors)	IEC60831/1-2

	24h	8h	30m	15m	5m	1m	Peak
Vmax	480	530	555		580	625	1450
Imax	2In		3In	4In			10 In



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 189 Hz (p=7%), standard for 5th Harmonic

Sheet-steel enclosure 15 and 20/10, painted with epoxy dust paint, colour RAL7035 (others on request). Internal setting in mounting plate and connection through power cables as per CEI20/22/II e CEI EN 50627-2-1. Protection degree IP30 external (IP54 on request), IP00 internal (IP20 with open doors on live parts)

Three-pole Switch Disconnecter with door interlock, sized 1,5 time the nominal current of PFC Unit as per EN61921

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

Ventilation Natural, thanks to the configuration of cabinets and the low losses of three-phase Capacitors (forced ventilation with fan on request)

Standard configuration

Code		kvar		Switch Disconnecter ¹		Cabinet	Weight (Kg)
		400 V	415 V	(A)	Icc (kA) ²		
FFTR48	12.5	12,5	13,45	80	1,5	CR5	35
FFTR48	25	25	26,90	80	1,5	CR1	46
FFTR48	50	50	53,80	125	2,5	CR100	65

Other technical features and optional please check pag. 36-37

g48 filter-fix

Rated voltage	400 ÷ 415 V
Frequency	50 Hz
Capacitors Voltage	480 V
Capacitors Voltage max	530 V
THDi max	≤ 25 %
Typology of Capacitors	MKP480G
Temperature class (PFC unit)	-25 / +65°C
Insulation voltage (PFC Unit)	690 V
Max overload (PFC unit)	1,3 In
Total losses (PFC unit)	< 2 W/kvar
Reference standards (PFC unit)	EN61921, EN61439-1
Reference standards (Capacitors)	IEC60831/1-2

	24h	8h	30m	15m	5m	1m	Peak
Vmax	480	530	555		580	625	1450
I_{max}	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

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 189 Hz (p=7%), standard for 5th Harmonic

Sheet-steel enclosure 15 and 20/10, painted with epoxy dust paint, colour RAL7035 (others on request). Internal setting in mounting plate and connection through power cables as per CEI20/22/II e CEI EN 50627-2-1. Protection degree IP30 external (IP54 on request), IP00 internal (IP20 with open doors on live parts)

Three-pole Switch Disconnecter with door interlock, sized 1,5 time the nominal current of PFC Unit as per EN61921

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

Ventilation Natural, thanks to the configuration of cabinets and the low losses of three-phase Capacitors (forced ventilation with fan on request)

Standard configuration ■■

Code		kvar		Switch Disconnecter ¹		Cabinet	Weight (Kg)
		400 V	415 V	(A)	I _{cc} (kA) ²		
FFTG48	12.5	12,5	13,45	80	1,5	CR5	35
FFTG48	25	25	26,90	80	1,5	CR1	46
FFTG48	50	50	53,80	125	2,5	CR100	65

Other technical features and optional please check pag. 36-37