

# 1. Three phase reactors for capacitor banks

RTF FAMILY > RTFX80



## Features

Anti-flash varnish finish, offering:

- Protection against corrosive environments
- Increase of electrical isolation
- High compression capacity
- Reduction of noise level
- Increase of product's lifespan

?Safety class I

Includes thermal protection against overtemperatures

Possibility of tailor-made manufacturing

Technical remarks about the use of detuned reactors:

They avoid resonance between the feeding transformer's inductance and the capacitance of capacitors' bank

They eliminate overvoltages and overcurrents either from the transformer and from the capacitors' bank

They protect capacitors against harmonics avoiding early aging

They limit conection peaks of the capacitors' bank increasing their lifespan and reducing microcuts in the feeding voltage

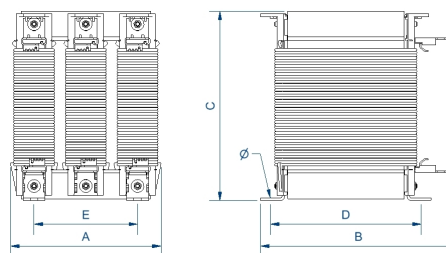
## Technical Characteristics

Line voltage	400 V
Capacitor rating	80 kvar (440 V, 50 Hz)
Effective rating	71,1 kvar
Rated current	109 A
Inductance tolerance	3%
Resonance frequency	189 Hz ( $p = 7\%$ )
Harmonic currents	$I_3=8\%$ , $I_5=31\%$ , $I_7=13\%$
Thermal overload factor	0,05
Frequency	50 Hz
Protection degree	IP-00
Cooling	AN
Ambient temperature	45°C
Temperature rise	Class F
Insulation	Class F - 155°C
Windings	Class HC - 220°C
Test voltage	3 kV (1 min, 50 Hz)
Standards	IEC/EN/UNE-EN 60076-6, CE
Mounting	Screws
Weight	33,2 kg
Dimensions	240x161x290x135x160 mm 9Ø

## Applications

RTFX inductances are designed to protect in front of harmonics capacitor banks power factor correctors.

The inductances tuned to 189Hz are the most common



+ Info [www.polylux.com](http://www.polylux.com)

Productos equivalentes