



POWER FACTOR GUARD CAPACITOR BANK



The Power of PF Guard

Avoid penalty fees and high utility bills with TCI's PF Guard. By providing reactive power to your system, the PF Guard will improve your facility's power factor to near unity, thus reducing the amount of costly apparent power the utility must provide.

The PF Guard will reduce the demand on your electrical equipment, resulting in improved electrical system capacity and a more effective power supply.

Features of the PFG

- Automatic switching design
- Built-in, detuned, anti-resonance reactor for extra layer of protection from harmonics and equipment failure
- Half-Step switching to allow for finer PF control
- cULus Listed

Typical Applications

- Large Industrial
- Heavy Manufacturing
- Wood Processing
- Steel / Paper Mills
- Tire / Rubber
- Refineries
- Mining



Technical Specifications

Voltage Rating	480 VAC
Phase	3-Phase
Operating Frequency	60 Hz
Fuse Interrupt Rating	200kA
SCCR Rating	100kA: Terminal block, disconnect switch or fuse block option
	5kA: Circuit breaker only, 65kA: With customer supplied fusing
KVAR Rating(s)	150, 200, 250, 300, 400, 500, 600
Voltage Unbalance	1% maximum
Continuous Overvoltage	110%
Capacitor Tolerance	±5%
Expected Life	Over 130,000 operating hours
Maximum Harmonic Voltage	5%
Discharge Time	Less than 1 minute
Environmental Conditions	
Operating Temperature	Enclosed: -10°C (14°F) to 40°C (104°F)
Storage Temperature	-30°C (-22°F) to 60°C (140°F)
Relative Humidity	95% non-condensing
Operating Altitude	Up to 1,000m without derating
Cooling Method	Forced Air Convection
Reference Technical Standards	
Enclosure Options	Type 1 and Type 12
Agency Approvals	cULus

Part Numbering

PFC A 0150 A W 1 A 0 21 C

Series: _____

Automatic: _____

kVAR Rating: _____

Voltage Rating: _____
A - 480 V

Frequency: _____
W - 60 Hz

Enclosure: _____
1 - Type 1
2 - Type 12

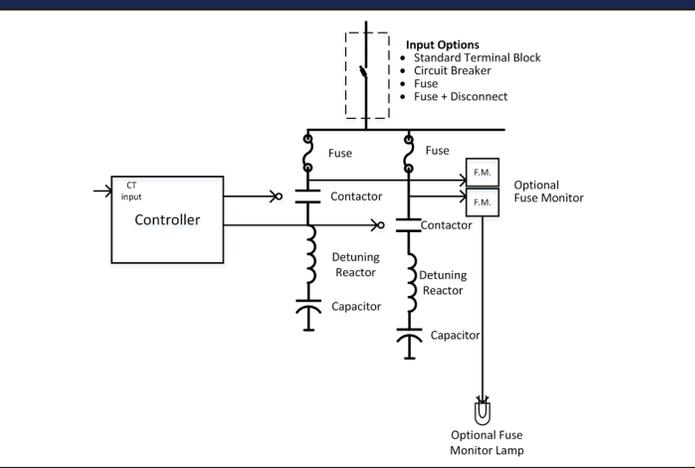
Options: _____
A - None (Standard)
B - Fuse Monitor
C - Fuse Monitor with Indicating Light

Input Protection Options: _____
0 - Standard, Terminal Block
1 - Circuit Breaker
2 - Terminal Block with Fuses
(Unavailable on units over 300 kVAR)
3 - Disconnect Switch with Fuses

Steps: _____
20 - 50 kVAR [FULL STEPS] 150 kVAR - 300 kVAR Rating Only
21 - 50 kVAR (2 - 25 kVAR) [HALF STEPS] 150 kVAR Rating Only
30 - 80 kVAR [FULL STEPS] 400 kVAR Rating Only
40 - 100 kVAR [FULL STEPS] 500 kVAR and 600 kVAR Rating Only
41 - 100 kVAR (2 - 50 kVAR) [HALF STEPS] 500 kVAR and 600 kVAR Rating Only

Interface: _____
C - Controller
A - None

Typical PFG Schematic



Warranty - TCI, LLC ("TCI") warrants to the original purchaser only that its products will be free from defects in materials and workmanship under normal use and service for a period originating on the date of shipment from TCI. Please refer to transcoil.com for standard terms and conditions.



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