HGL with PQconnect

LOW CAPACITANCE PASSIVE HARMONIC FILTER

HGL with PQconnect is the first intelligent low capacitance filter to offer harmonic mitigation and remote monitoring and control. With the addition of PQconnect, the HGL allows intelligent generator compatibility to control the contactor, monitor real-time data and detect drive status. For added protection, all HGL units have internal fuse protection for the capacitor branch circuit.

The HGL with PQconnect filter eliminates the need to oversize a generator. The HGL with PQconnect was designed to be compatible with 5%THID performance and meets the most stringent levels of IEEE 519-2014 compliance.

Benefits of the HGL Filter

- Lowest tuning circuit kVAR per horsepower on the market
- As low as 1:1 Generator kVA:HGL power rating
- 5% or lower THID at full load with Isc/IL<20
- Ensures IEEE-519 2014 compliance with true 100ka SCCR rating
- Intelligent control and monitoring available with PQconnect
- Optimum for low capacitance VFDs
- High quality components
- Made in the USA

Typical Applications for low capacitance filters

- HVAC Compressors and Blowers
- HVAC Chiller Systems
- Water/Wastewater Pump Systems
- Irrigation Pumps

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MADE IN THE UNITED STATES OF AMERICA

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Technical Specifications

Voltage	480 VAC; 600 VAC
Frequency	60 Hz
Power Rating	20 - 900 HP
kVAR Rating	0.15 kVAR / HP
Load Types	3-phase diode bridge rectifier loads.
Short Term Overload Rating	Tolerate 200% rated I for a max of 3 minutes/hour
SCCR	100kA
Environmental Conditions	
Maximum Ambient Temperature	Open: 50°C (122°F), Enclosed: 40°C (104°F)
Maximum Ambient Storage Temperature	60°C (140°F)
Maximum Humidity, Operating, or Storage	95%, non-condensing
Reference Technical Standards	
Enclosure Options	Open Chassis, UL Type 1, UL Type 3R
Agency Approvals or Certifications	cULus Listed to UL 508A and CSA C22.2 No. 14

Part Numbering System

HGL 0150 A W 1 C 1 0 0 0

Series:

Rating (HP):

Voltage Rating:
- A - 480 V
- C - 600 V

Frequency:
- W - 60 Hz

Enclosure:
- 0 - Open
- 1 - Type 1
- 3 - Type 3R

Contactor Option:
- S - No Contactor
- C - Contactor

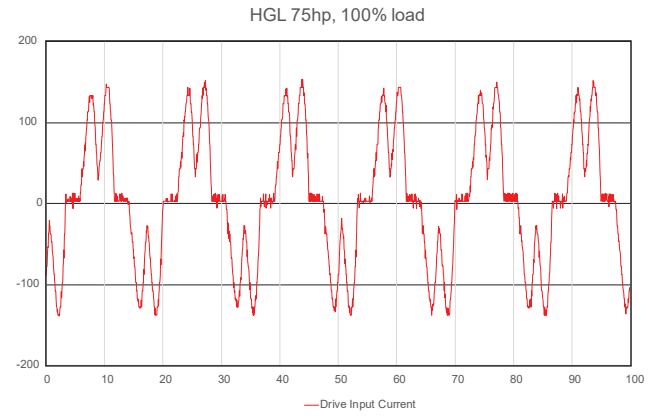
Communmication Option:
- 0 - No Connectivity
- 1 - PQconnect

Floor Stand Option:
- 0 - No option
- F - Floor Stand (For Type 3R 125 HP and Below)

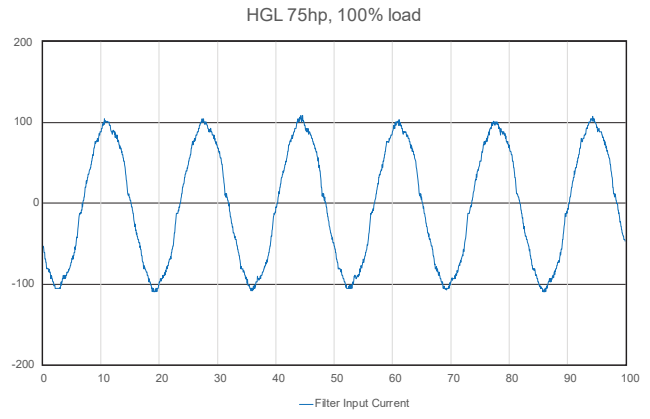
Option:
- 0 - No Option

Accessory Option:
- 0 - No option
- H - Heater (Only available on Type 3R Enclosures)
- P - Oil Field Duty
- T - Thermal Switches

Supply Current without HGL



Supply Current with HGL



Performance Guarantee - *Select and install the appropriate HarmonicGuard Low Capacitance Harmonic Filter in a variable torque, variable frequency AC drive application, within our published technical specifications and we guarantee that the input current distortion will be less than or equal to 5% THiD for standard HGL Series filters at full load. If a properly sized and installed filter fails to meet its specified THiD level, TCI will provide material for necessary modifications or replacement filter at no charge. See product manual for further clarifications.*

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