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 519-2022 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 2022 compliance with true 100ka SCCR rating
- Intelligent control and monitoring available with PQconnect
- Communications and data analytics available via Modbus RTU and EtherNet/IP
- Optimum for low capacitance VFDs
- High quality components

Typical Applications:

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

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MADE IN THE UNITED STATES OF AMERICA

Allient Power

TCI | An Allient Company

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
Communication Options	Modbus RTU over RS485 & EtherNet/IP
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	

Part Numbering System

HG L 0150 A W 1 C 2 0 0 0

Series

Model
P = Standard
L = Low Capacitance

Horse Power

Voltage Rating
A = 480 V B = 240 V (HGP only)
C = 600 V D = 208 V (HGP only)
L = 380 - 415 V (HGP only)

Frequency
W = 60 Hz X = 50Hz (HGP only)

Filter Enclosure
0 = Open 1 = Type 1
2 = Type 12 (HGP only) 3 = Type 3R

Option
C = Contactor S = No Contactor

Communication Option
0 = No Connectivity
1 = PQconnect w/ Modbus RTU over RS485
2 = PQconnect w/ EtherNet/IP

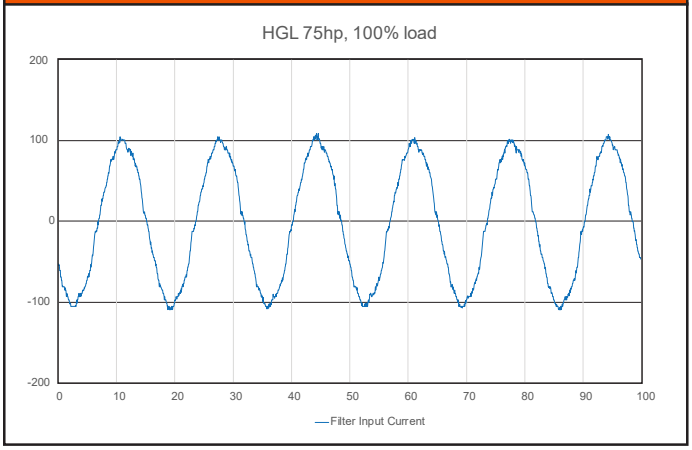
Option
0 = No Option
F = Floor Stand (125 HP and below for Type 3R)

Option
0 = Standard Voltage Distortion
1 = High Voltage Distortion (HGP only)

Option
0 = No Option
H = Heater (Only in Type 3R)
V = Vibration Pads (HGP only)
P = Oil Field Duty
T = Thermal Switches
A = Thermal Switches and Heater (HGL only)

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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