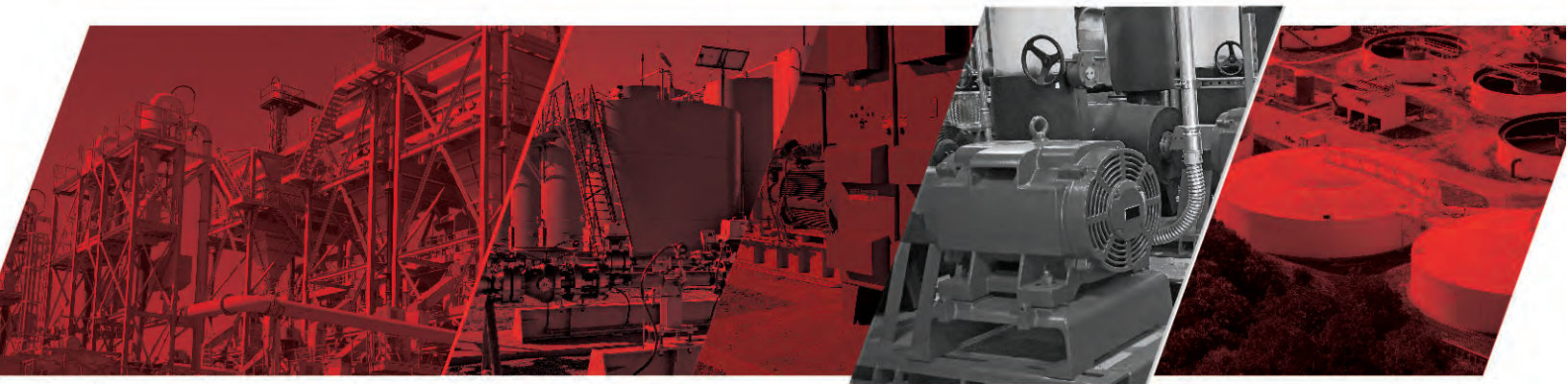




2021 Product Guide

Effective January 1, 2021



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Terms & Conditions of Sales

Minimum Orders

No minimum order required.

Payment Terms

If the customer is located within the United States and qualifies for open credit, standard payment terms are net 30 days. If the customer is located outside the United States, TCI reserves the right to require a letter of credit drawn on a United States bank payable at sight against presentation of shipping documents or to require a cash payment before shipment is made. New accounts are required to provide a signed credit application with credit references. Terms and open account status are subject to change for failure to pay outstanding accounts on a timely basis or if customer's financial strength is impaired. Late invoices are subject to finance charges equal to 1.5% of the account balance per month (or the highest amount allowable by law). Assessed finance charges are considered unpaid invoices.

Pricing

All prices are quoted in U.S. dollars. All discounts are based on the manufacturer's most recent List Price Schedule. All prices are subject to change without notice. All prices are exclusive of all sales, use, excise or similar taxes applicable to the sale, purchase, shipment or use of goods sold to the customer, duties and other charges which may apply including, without limitation, charges for freight and insurance. All such taxes, duties and charges shall be paid by the customer whether or not originally invoiced by TCI and regardless of when invoiced.

Quotations

Prices are based on costs and conditions existing on the date of the quote and are subject to change by manufacturer prior to final order acceptance. All quotations are valid for 30 days, unless stated otherwise.

Delivery

All scheduled delivery dates shall be considered estimates only and TCI shall have no liability for failure to meet such dates. Delivery of all products are subject to availability and lead times required for TCI's production schedule. All product will be shipped to the customer's address as set forth in its purchase order unless a different delivery address is clearly noted in the purchase order.

Freight Policy – Domestic

All products are shipped Ex Works, Germantown, Wisconsin. Typically, freight carriers are selected by TCI and all freight charges are prepaid and added to the invoice. It is the responsibility of the customer to clearly indicate a different carrier and billing method when desired but such requests shall only be binding upon TCI if consented to in writing by TCI prior to the scheduled shipment date.

Freight Policy – International

All products are shipped Ex Works, Germantown, Wisconsin, using domestic packaging. Selection of freight carriers is the responsibility of customer and all freight charges are the responsibility of the customer. Customer is responsible for customs clearance, broker's fees, import duties, and all applicable taxes. Specialized packaging quoted upon request.

Damaged Freight/Claims

Title and risk of loss is passed to the customer upon acceptance of the shipment by the freight carrier. It is the responsibility of the customer to file a claim directly with the carrier for any damaged or lost products occurring during transit. TCI does not purchase or arrange for insurance coverage beyond the EX Works point for products shipped by TCI. If customer requires purchase of insurance coverage beyond the EX Works point by TCI, its purchase order must clearly state such requirement but such request shall only be binding upon TCI if consented to in writing by TCI prior to the scheduled shipment date and all costs for such insurance shall be the responsibility of the customer and added to customer's invoice.

Terms & Conditions of Sales

Limited Warranty

The terms and conditions of TCI's Limited Warranty Policy are incorporated herein by reference. Such policy is available from TCI and on its website.

- Authorization and shipping instructions for return of products must be obtained from TCI prior to return of goods
- Packages must be labeled with Return Material Authorization (RMA) Number and returned within 30 days from the initial return request to:

TCI, LLC

W132 N10611 Grant Drive
Germantown, Wisconsin 53022
Attn: Returns Department

- All returned goods are subject to inspection prior to final disposition.
- Restocking charges may apply. For further information, please contact the Customer Service.

Cancellation

In the event customer cancels all or any portion of the undelivered portion of this order, TCI reserves the right to charge cancellation fees on all non-standard and slow moving parts. Cancellation fees will be assessed at the time of the request to cancel.

Force Majeure

TCI shall have no liability for any delay in or failure of performance caused by circumstances beyond its control including, but not limited to, delays or failures caused by civil insurrection, war, fire, flood, government action, strike or any other labor disturbance, acts of God or shortages of materials or equipment.

Collection Fees

In the event TCI refers a past due account to an attorney or other third party for collection, customer shall pay all costs and expenses incurred by TCI in connection therewith including attorneys' fees.

Contract Terms

Any terms and conditions contained in any purchase orders, confirmations, acknowledgements, shipping orders or other documents issued by customer in connection with the sale of goods by TCI to customer which are inconsistent with the terms hereof shall not apply, and shipment by TCI shall not constitute assent to, any such inconsistent terms. Customer's full or partial payment or acceptance of delivery shall constitute acceptance of all the terms and conditions set forth herein.

Governing Law; Venue

This document and the transactions contemplated hereby shall be governed by and construed in accordance with the laws of the State of Wisconsin. Customer agrees to submit to the jurisdiction of the courts of the State of Wisconsin and of the United States of America located in the City of Milwaukee for any actions, suits or proceedings arising out of or relating to the sale of goods by TCI to customer.

No Authority; Contract Terms

TCI does not authorize any of its employees or agents to offer or agree upon terms other than those expressly set forth herein. No statement or writing proposing to modify or add to the terms and conditions hereof shall be binding unless in writing and signed by an officer of TCI and customer.

Default in Payment

In the event customer fails to comply with the terms of payment, TCI shall have the right, in addition to all other rights as may be available to it under law, to withhold other shipments to customer, in whole or in part, to recall goods in transit and to repossess goods provided to customer.

Section 1:

Harmonic Solutions

HARMONICGUARD[®]

SOLUTION CENTER

The HarmonicGuard[®] Solution Center is an analysis tool that enables users to size filtering solutions to meet harmonic and power factor requirements and to determine IEEE 519-2014 compliance.

This tool can be found on our website, <https://hgsc.transcoil.com>.

HarmonicGuard Active Filter

The HarmonicGuard® Active (HGA) filter is an elite system-applied harmonic filter that minimizes harmonics to less than 5% total demand distortion (TDD) at the point of common coupling. The HGA monitors the load current and reacts to changes immediately. By injecting a counter-current, the active filter cancels out harmonics and synchronizes the current and voltage waveforms while improving power factor to near unity. One HGA filter can handle multiple non-linear, harmonic-generating loads.

The HGA meets the demanding requirements of IEEE- 519-2014. Offering top of the line performance and mitigation, the HGA provides a lower cost and a smaller footprint than a comparable 18-pulse VFD or active front end drive.

HGA

Features of the HarmonicGuard Active Filter

- Meets the most stringent IEEE 519-2014 requirements
- TDD reduction to less than 5% at full load
- Power factor correction
- Immediate response time to step load changes
- Ability to parallel units without any calibration
- Self-commissioning installation
- Full line of Active filters ranging from 50-700 Amps
- 208 V - 600 V system compatibility
- Easy to use color, touch screen HMI display
- UL Listed; cUL Listed
- Communication options include: Modbus RTU over RS485, Modbus TCP/IP, EtherNet/IP, DeviceNet, and BACNet/IP



Typical Applications for Active Filters

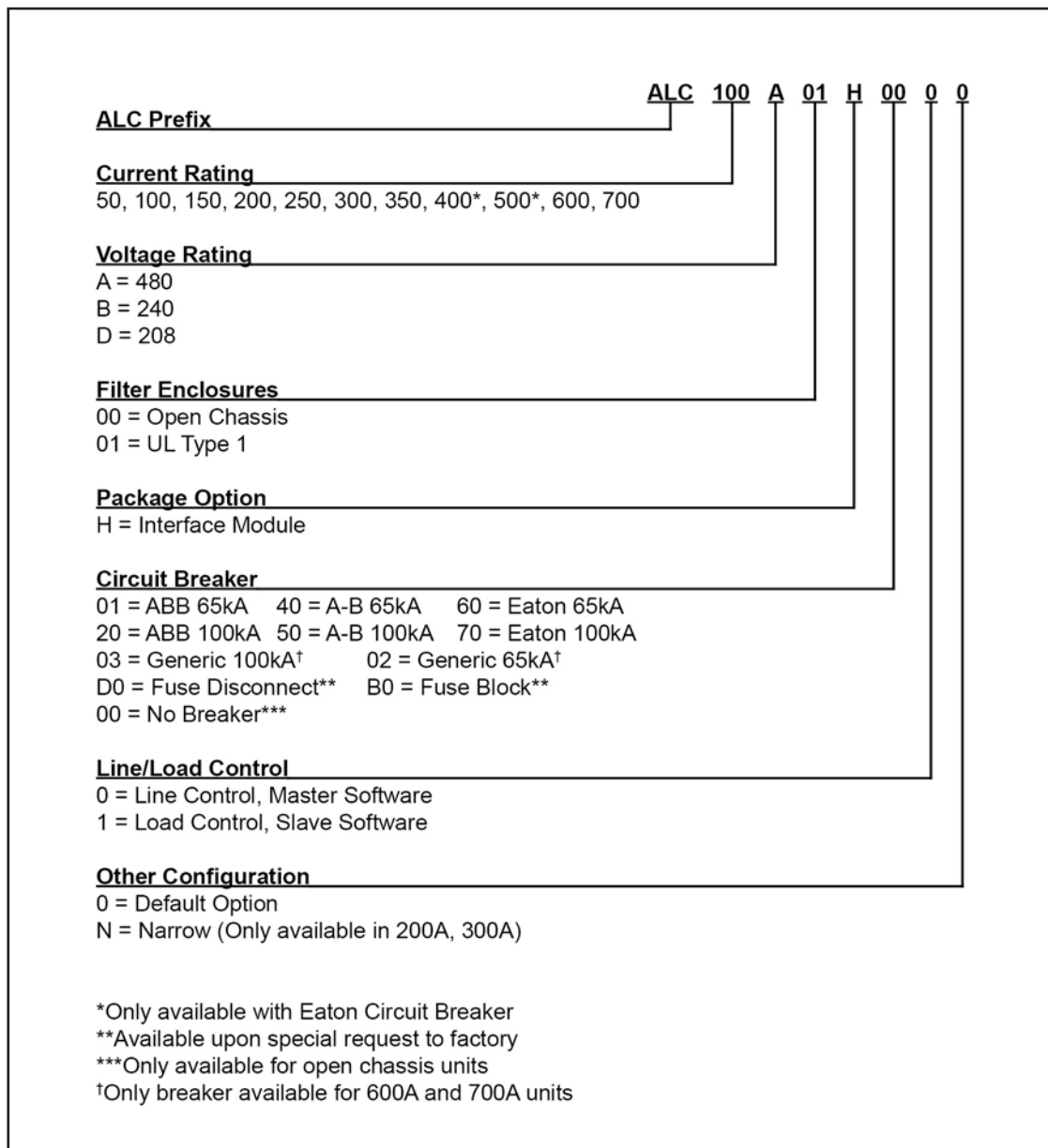
- Manufacturing facilities
- Wastewater treatment plants
- Automation production facilities
- Chiller systems
- Multi-well pads

HGA Ordering Instructions Step 1

HGA Part Numbering System - 480 V Open & Type 1

Applies to applications which have the following characteristics:

- Ambient Temperature: -20°C - 40°C
- Current: 50, 100, 150, 200, 250, 300, 350, 400, 500, 600, 700 A
- Voltage: 480 V, 240 V, 208 V
- Enclosure: Open Chassis, UL Type 1
- Type 1 filters up to 350A come as wall mount units. Corresponding floor stand is required for Floor Mount version.

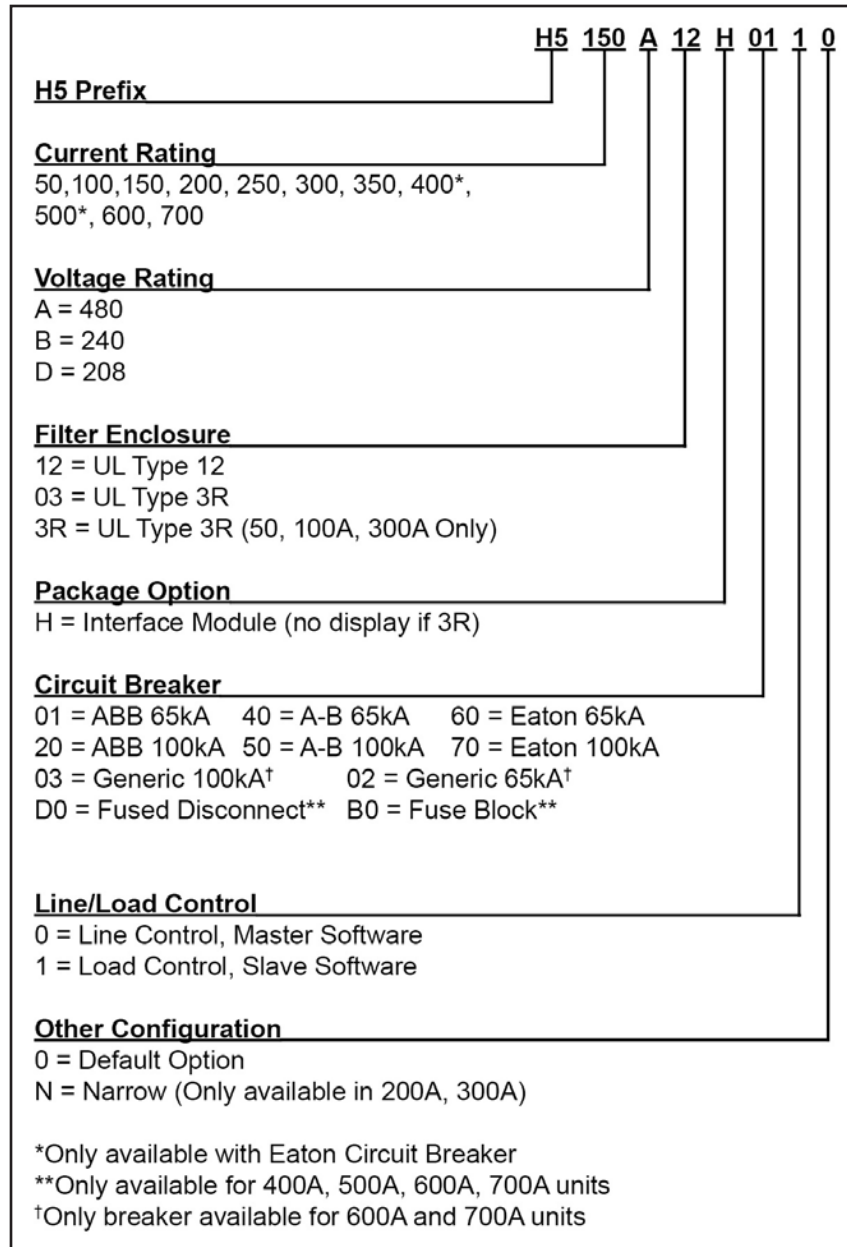


HGA Ordering Instructions Step 1

HGA Part Numbering System - 480 V Type 12 & Type 3R

Applies to applications which have the following characteristics:

- Ambient Temperature: -20°C - 40° C
- Current: 50, 100, 150, 200, 250, 300, 350, 400, 500, 600, 700 A
- Voltage: 480 V, 240 V, 208 V
- Enclosure: UL Type 12, UL Type 3R

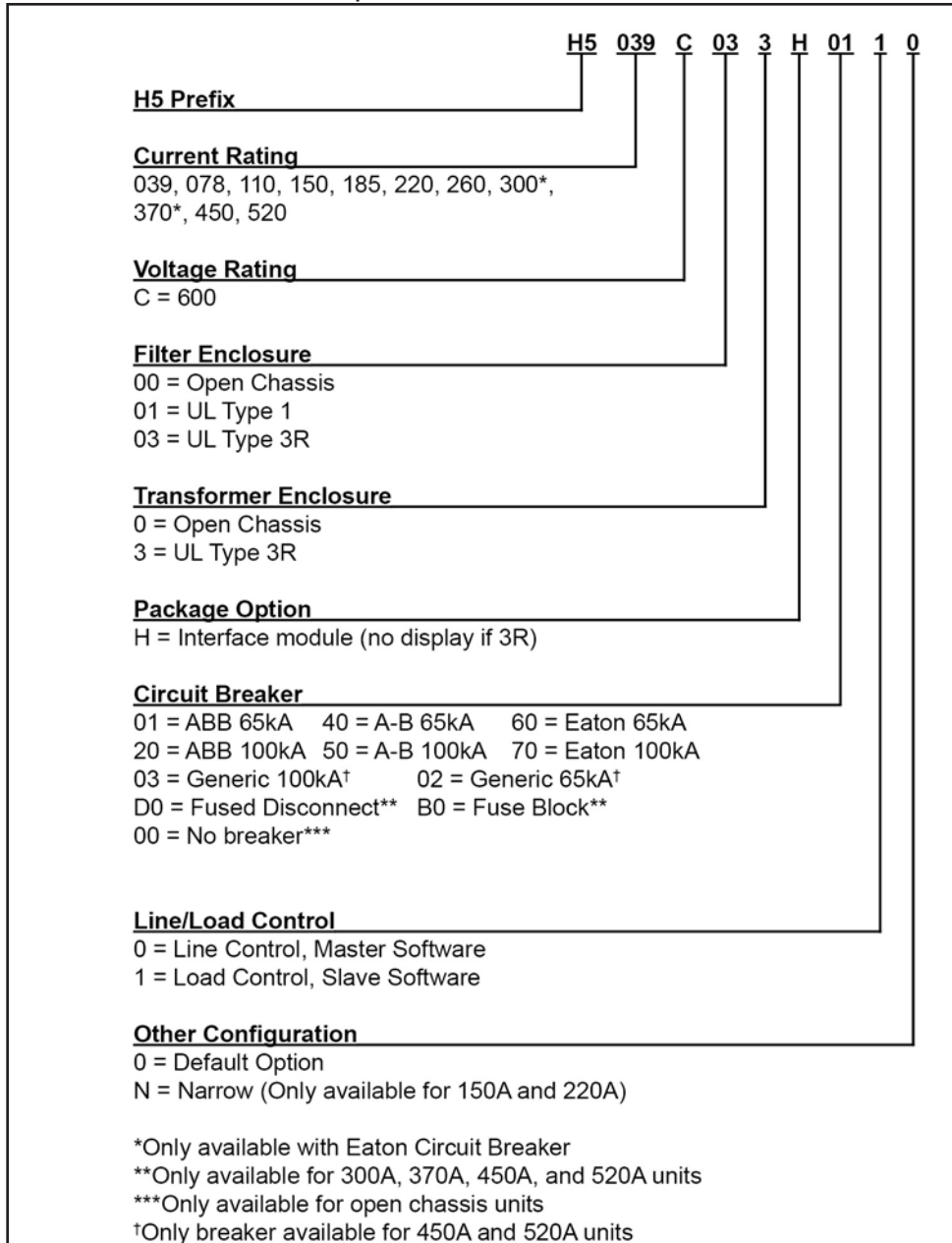


HGA Ordering Instructions Step 1

HGA Part Numbering System - 600 V

Applies to applications which have the following characteristics:

- Ambient Temperature: 40° C
- Current: 39, 78, 110, 150, 185, 220, 300, 370, 450, 520 A
- Voltage: 600 V
- Enclosure: Open Chassis, UL Type 1 or UL Type 3R
- Type 1 filters up to 220A come as wall mount units. Corresponding floor stand is required for Floor Mount version.



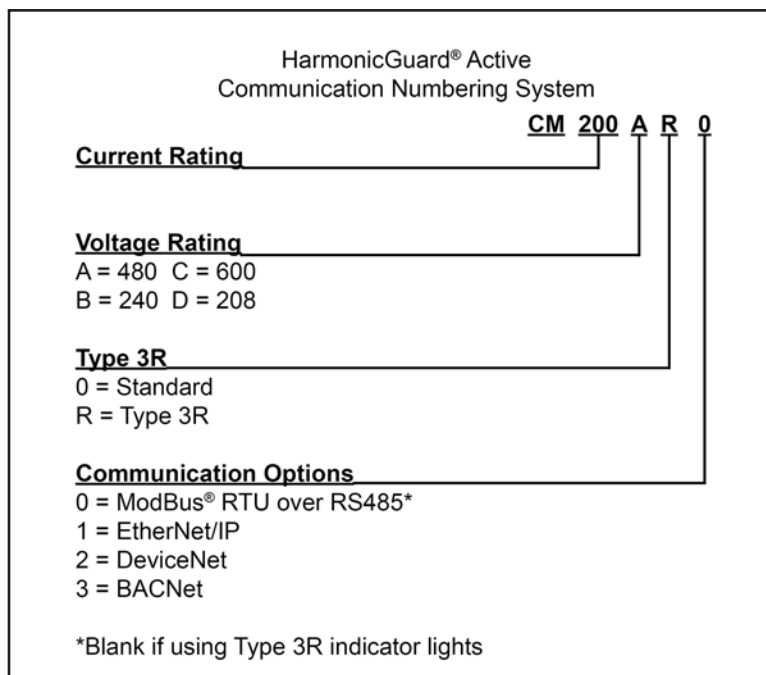
HGA Ordering Instructions Step 2

Part Numbering Step 2

Step A) Based on the type of enclosure you are ordering, use the Communication Numbering System below to create your HMI part number.

Step B) Identify the required current, voltage and communication option to determine the second part number.

- **Current Rating**
 - Corrective amp rating; see the HarmonicGuard Solution Center at transcoil.com/solutioncenter.htm
- **Voltage Rating**
 - Application voltage
- **Communications Options**
 - For Open Chassis, UL Type 1 and UL Type 12 the options include: ModBus RTU over RS485, Modbus TCP/IP, EtherNet I/P, BACNet or DeviceNet (Figure 5).
 - For UL Type 3R there is only one interface option which has no HMI display, but does have four status indicator lights, a run/stop key switch to control the unit and an external diagnostic port that an HGA-HMI unit, an optional addition, can be connected to (Figure 6).
 - The HGA-HMI is an HMI assembly inside a small portable case which can be ordered in addition to the required communication option. The part number to enter on your order is: HGA-HMI.



HGA Ordering Instructions - Current Transformer

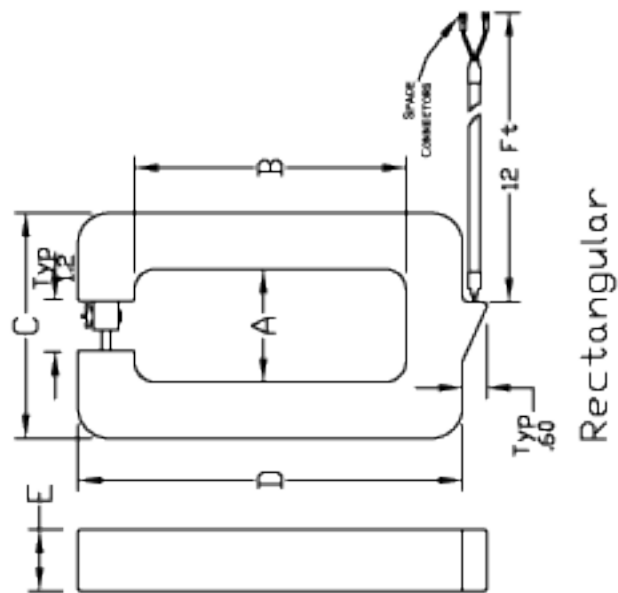
Part Numbering Step 3

Based on your current ratio use the following Part Numbering System to create your CT part number.
Two current transformers are required per active filter unit.

	KCT	F	2000	A	02
<u>KCT Prefix</u> _____					
<u>Type</u> _____ F = Flex-Core					
<u>Current Ratio</u> _____ 0500:5– 5000:5					
<u>Shape</u> _____ A = Rectangular B = Round C = Solid Core					
<u>Inside Diameter</u> _____					

HGA - Rectangular Current Transformer Diagram

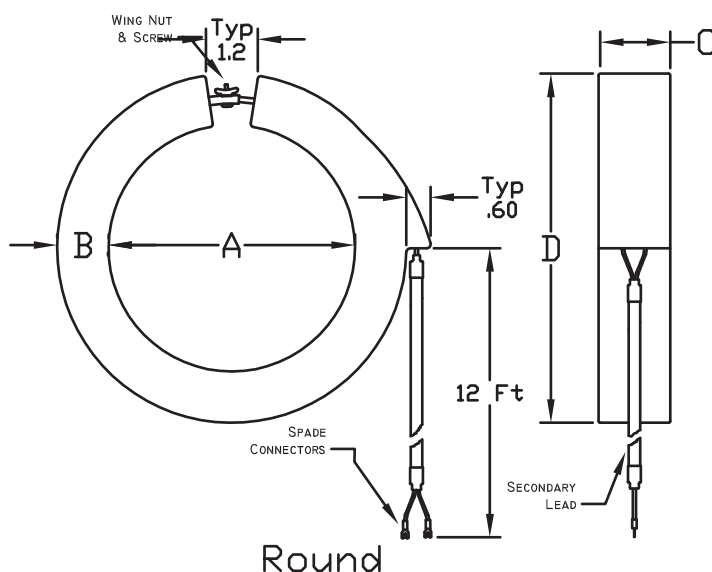
Current Transformer Diagram – Rectangular



			Dimensions in Inches (mm)					
Catalog #	Current Ratio	VA Rating	Burden Value (Ohms)	A	B	C	D	E
KCTF0500A02	500:5	3.0	0.1	2 3/4 (69.9)	6 5/8 (168.3)	5 1/2 (139.7)	9 3/8 (238.1)	1 1/2 (38.1)
KCTF0600A02	6000:5	2.5	0.1	2 3/4 (69.9)	6 5/8 (168.3)	5 1/2 (139.7)	9 3/8 (238.1)	1 1/2 (38.1)
KCTF1000A02	1000:5	5.0	0.2	2 3/4 (69.9)	6 5/8 (168.3)	5 1/2 (139.7)	9 3/8 (238.1)	1 1/2 (38.1)
KCTF1200A02	1200:5	5.0	0.2	2 3/4 (69.9)	6 5/8 (168.3)	5 1/2 (139.7)	9 3/8 (238.1)	1 1/2 (38.1)
KCTF1600A02	1600:5	15.0	0.6	2 3/4 (69.9)	6 5/8 (168.3)	5 1/2 (139.7)	9 3/8 (238.1)	1 1/2 (38.1)
KCTF2000A02	2000:5	25.0	1.0	2 3/4 (69.9)	6 5/8 (168.3)	5 1/2 (139.7)	9 3/8 (238.1)	1 1/2 (38.1)
KCTF3000A02	3000:5	45.0	1.8	2 3/4 (69.9)	6 5/8 (168.3)	5 1/2 (139.7)	9 3/8 (238.1)	1 1/2 (38.1)
KCTF5000A04	5000:5	45.0	1.8	4.0 (101.6)	11.0 (279.4)	6 1/2 (165.1)	13 3/8 (339.7)	1 1/2 (38.1)

HGA - Round Current Transformer Diagram

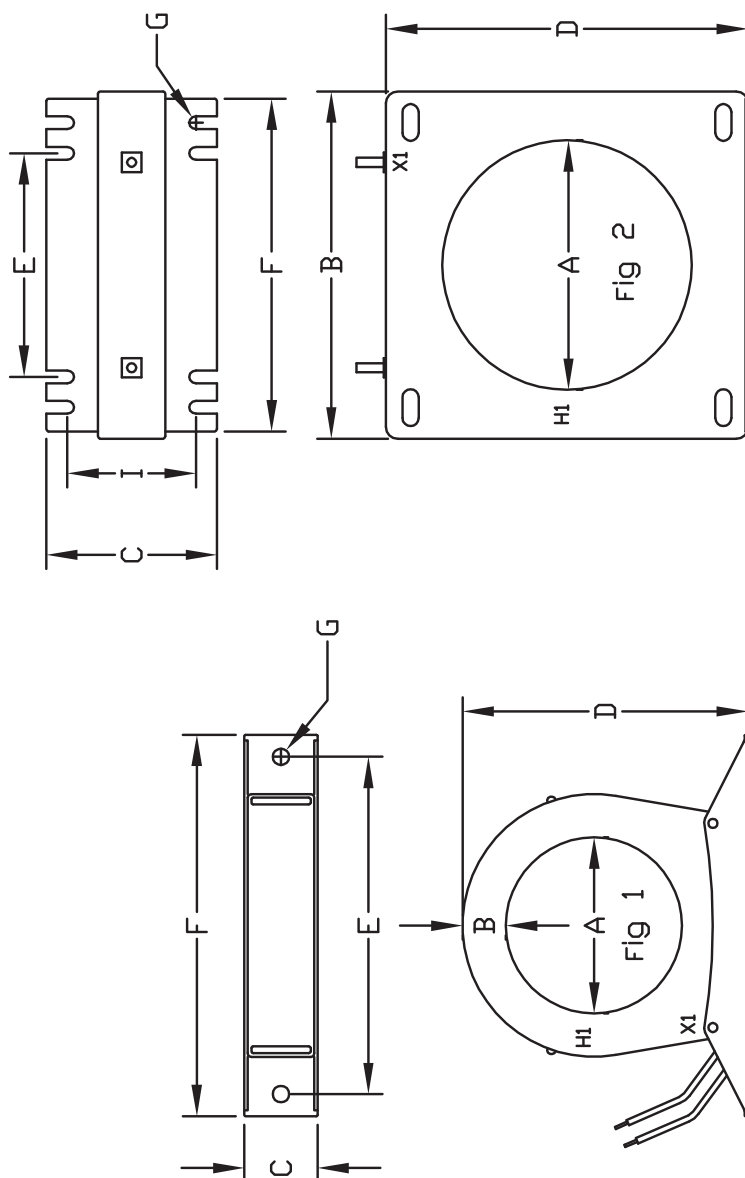
Current Transformer Diagram – Round



Catalog #	Current Ratio	VA Rating	Burden Value (Ohms)	Dimensions in Inches (mm)			
				A	B	C	D
KCTF0200B04	200:5	2.5	0.1	4.0 (101.6)	1 1/4 (31.8)	1 1/2 (38.1)	6 1/2 (165.1)
KCTF0400B04	400:5	2.5	0.1	4.0 (101.6)	1 1/4 (31.8)	1 1/2 (38.1)	6 1/2 (165.1)
KCTF0500B04	500:5	2.5	0.1	4.0 (101.6)	1 1/4 (31.8)	1 1/2 (38.1)	6 1/2 (165.1)
KCTF0500B06	500:5	2.5	0.1	6.0 (152.4)	1 1/4 (31.8)	1 1/2 (38.1)	8 1/2 (215.9)
KCTF0600B06	600:5	5.0	0.2	6.0 (152.4)	1 1/4 (31.8)	1 1/2 (38.1)	8 1/2 (215.9)
KCTF0600B04	600:5	5.0	0.2	4.0 (101.6)	1 1/4 (31.8)	1 1/2 (38.1)	6 1/2 (165.1)
KCTF0800B04	800:5	5.0	0.2	4.0 (101.6)	1 1/4 (31.8)	1 1/2 (38.1)	6 1/2 (165.1)
KCTFI1000B04	1000:5	5.0	0.2	4.0 (101.6)	1 1/4 (31.8)	1 1/2 (38.1)	6 1/2 (165.1)
KCTFI1000B06	1000:5	5.0	0.2	6.0 (152.4)	1 1/4 (31.8)	1 1/2 (38.1)	8 1/2 (215.9)
KCTFI1200B04	1200:5	5.0	0.2	4.0 (101.6)	1 1/4 (31.8)	1 1/2 (38.1)	6 1/2 (165.1)
KCTFI1500B04	1500:5	5.0	0.2	4.0 (101.6)	1 1/4 (31.8)	1 1/2 (38.1)	6 1/2 (165.1)
KCTFI1600B04	1600:5	15.0	0.6	4.0 (101.6)	1 1/4 (31.8)	1 1/2 (38.1)	6 1/2 (165.1)
KCTFI1600B06	1600:5	15.0	0.6	6.0 (152.4)	1 1/4 (31.8)	1 1/2 (38.1)	8 1/2 (215.9)
KCTFI1600B08	1600:5	15.0	0.6	8.0 (203.2)	1 1/4 (31.8)	1 1/2 (38.1)	10 1/2 (266.7)
KCTF2000B04	2000:5	25.0	1.0	4.0 (101.6)	1 1/4 (31.8)	1 1/2 (38.1)	6 1/2 (165.1)
KCTF2000B06	2000:5	25.0	1.0	6.0 (152.4)	1 1/4 (31.8)	1 1/2 (38.1)	8 1/2 (215.9)
KCTF2500B06	2500:5	35.0	1.4	6.0 (152.4)	1 1/4 (31.8)	1 1/2 (38.1)	8 1/2 (215.9)
KCTF3000B06	3000:5	45.0	1.8	6.0 (152.4)	1 1/4 (31.8)	1 1/2 (38.1)	8 1/2 (215.9)
KCTF3000B08	3000:5	45.0	1.8	8.0 (203.2)	1 1/4 (31.8)	1 1/2 (38.1)	10 1/2 (266.7)
KCTF5000B08	5000:5	45.0	1.8	8.0 (203.2)	1 1/4 (31.8)	1 1/2 (38.1)	10 1/2 (266.7)

HGA - Solid Core Current Transformer Diagram

Current Transformer Diagram – Solid Core



Dimensions in Inches (mm)													
Catalog #	Current Ratio	VA Rating	Burden Value (Ohms)	A	B	C	D	E	F	G	H	I	Fig
KCTF0500B03	500:5	25.0	1.0	2.0 (50.8)	0.99 (25.2)	1 1/4 (31.8)	4.7 (119.4)	5 3/4 (146.1)	6 1/2 (165.1)	0.28 (7.1)	N/A	N/A	I
KCTF0800B2.5	800:5	35.0	1.40	2.0 (50.8)	0.99 (25.2)	1 1/4 (31.8)	4.7 (119.4)	5 3/4 (146.1)	6 1/2 (165.1)	0.28 (7.1)	N/A	N/A	I
KCTF1000B03	1000:5	13.8	0.55	3.0 (76.2)	0.74 (19.1)	1 1/4 (31.8)	4.7 (119.4)	5 3/4 (146.1)	6 1/2 (165.1)	0.28 (7.1)	N/A	N/A	I
KCTF1200B03	1200:5	10.0	0.40	3.0 (76.2)	0.74 (19.1)	1 1/4 (31.8)	4.7 (119.4)	5 3/4 (146.1)	6 1/2 (165.1)	0.28 (7.1)	N/A	N/A	I
KCTF1600C4.3	1600:5	15.0	1.00	4.3 (109.2)	5.9 (149.9)	2.9 (73.7)	6.2 (157.5)	3.8 (96.5)	5.7 (144.8)	0.22 (5.6)	4.9 (124.5)	2.2 (55.9)	2
KCTF2000B03	2000:5	13.8	0.55	3.0 (76.2)	0.74 (19.1)	1 1/4 (31.8)	4.7 (119.4)	5 3/4 (146.1)	6 1/2 (165.1)	0.28 (7.1)	N/A	N/A	I
KCTF2500C4.3	2500:5	20.0	0.80	4.3 (109.2)	5.9 (149.9)	2.9 (73.7)	6.2 (157.5)	3.8 (96.5)	5.7 (144.8)	0.22 (5.6)	4.9 (124.5)	2.2 (55.9)	2
KCTF0800C4.3	800:5	30.0	1.20	4.3 (109.2)	5.9 (149.9)	2.9 (73.7)	6.2 (157.5)	3.8 (96.5)	5.7 (144.8)	0.22 (5.6)	4.9 (124.5)	2.2 (55.9)	2
KCTF1000C4.3	1000:5	30.0	1.20	4.3 (109.2)	5.9 (149.9)	2.9 (73.7)	6.2 (157.5)	3.8 (96.5)	5.7 (144.8)	0.22 (5.6)	4.9 (124.5)	2.2 (55.9)	2
KCTF2000C4.3	2000:5	20.0	0.80	4.3 (109.2)	5.9 (149.9)	2.9 (73.7)	6.2 (157.5)	3.8 (96.5)	5.7 (144.8)	0.22 (5.6)	4.9 (124.5)	2.2 (55.9)	2

HarmonicGuard Active (HGA)

480 V Open

Open Part Number	Display	Circuit Breaker	Rated Amps	Watts Loss	Weight (lb)	Dimensions (in.)		
						H	W	D
ALC50A00H0000	HMI	no-CB	50	2,676	167	56.00	17.00	16.00
ALC50A00H0100	HMI	ABB 65K	50	2,676	167	56.00	17.00	16.00
ALC50A00H2000	HMI	ABB 100K	50	2,676	167	56.00	17.00	16.00
ALC50A00H4000	HMI	A-B 65K	50	2,676	167	56.00	17.00	16.00
ALC50A00H5000	HMI	A-B 100K	50	2,676	167	56.00	17.00	16.00
ALC50A00H6000	HMI	E 65K	50	2,676	167	56.00	17.00	16.00
ALC50A00H7000	HMI	E 100K	50	2,676	167	56.00	17.00	16.00
ALC100A00H0000	HMI	no-CB	100	3,500	167	56.00	17.00	16.00
ALC100A00H0100	HMI	ABB 65K	100	3,500	167	56.00	17.00	16.00
ALC100A00H2000	HMI	ABB 100K	100	3,500	167	56.00	17.00	16.00
ALC100A00H4000	HMI	A-B 65K	100	3,500	167	56.00	17.00	16.00
ALC100A00H5000	HMI	A-B 100K	100	3,500	167	56.00	17.00	16.00
ALC100A00H6000	HMI	E 65K	100	3,500	167	56.00	17.00	16.00
ALC100A00H7000	HMI	E 100K	100	3,500	167	56.00	17.00	16.00
ALC150A00H0000	HMI	no-CB	150	5,250	272	69.10	17.00	16.00
ALC150A00H0100	HMI	ABB 65K	150	5,250	272	69.10	17.00	16.00
ALC150A00H2000	HMI	ABB 100K	150	5,250	272	69.10	17.00	16.00
ALC150A00H4000	HMI	A-B 65K	150	5,250	272	69.10	17.00	16.00
ALC150A00H5000	HMI	A-B 100K	150	5,250	272	69.10	17.00	16.00
ALC150A00H6000	HMI	E 65K	150	5,250	272	69.10	17.00	16.00
ALC150A00H7000	HMI	E 100 K	150	5,250	272	69.10	17.00	16.00
ALC200A00H000N	HMI	no-CB	200	6,930	565	72.30	22.00	18.00
ALC200A00H010N	HMI	ABB 65K	250	6,930	565	72.30	22.00	18.00
ALC200A00H200N	HMI	ABB 100K	250	6,930	565	72.30	22.00	18.00
ALC200A00H400N	HMI	A-B 65K	250	6,930	565	72.30	22.00	18.00
ALC200A00H500N	HMI	A-B 100K	250	6,930	565	72.30	22.00	18.00
ALC200A00H600N	HMI	E 65K	200	6,930	565	72.30	22.00	18.00
ALC200A00H700N	HMI	E 100K	200	6,930	565	72.30	22.00	18.00
ALC250A00H0000	HMI	no-CB	250	8,750	565	72.30	22.00	18.00
ALC250A00H0100	HMI	ABB 65K	250	8,750	565	72.30	22.00	18.00
ALC250A00H2000	HMI	ABB 100K	250	8,750	565	72.30	22.00	18.00
ALC250A00H4000	HMI	A-B 65K	250	8,750	565	72.30	22.00	18.00
ALC250A00H5000	HMI	A-B 100K	250	8,750	565	72.30	22.00	18.00
ALC250A00H6000	HMI	E 65K	250	8,750	565	72.30	22.00	18.00
ALC250A00H7000	HMI	E 100K	250	8,750	565	72.30	22.00	18.00
ALC300A00H010N	HMI	ABB 65K	300	8,000	715	72.30	27.00	17.04
ALC300A00H200N	HMI	ABB 100K	300	8,000	715	72.30	27.00	17.04
ALC300A00H400N	HMI	A-B 65K	300	8,000	715	72.30	27.00	17.04
ALC300A00H500N	HMI	A-B 100K	300	8,000	715	72.30	27.00	17.04
ALC300A00H600N	HMI	E 65K	300	8,000	715	72.30	27.00	17.04
ALC300A00H700N	HMI	E 100K	300	8,000	715	72.30	27.00	17.04
ALC350A00H0000	HMI	no CB	350	10,000	715	72.30	27.00	17.04
ALC350A00H0100	HMI	ABB 65K	350	10,000	715	72.30	27.00	17.04
ALC350A00H2000	HMI	ABB 100K	350	10,000	715	72.30	27.00	17.04
ALC350A00H4000	HMI	A-B 65K	350	10,000	715	72.30	27.00	17.04
ALC350A00H5000	HMI	A-B 100K	350	10,000	715	72.30	27.00	17.04
ALC350A00H6000	HMI	E 65K	350	10,000	715	72.30	27.00	17.04
ALC350A00H7000	HMI	E 100K	350	10,000	715	72.30	27.00	17.04
ALC400A00H0000	HMI	no-CB	400	13,860	1130	72.30	44.00	18.07
ALC400A00H6000	HMI	E 65K	400	13,860	1130	72.30	44.00	18.07
ALC400A00H7000	HMI	E 100K	400	13,860	1130	72.30	44.00	18.07
ALC400A00HD000	HMI	FD	400	13,860	1130	72.30	44.00	18.73
ALC400A00HB000	HMI	FB	400	13,860	1130	72.30	44.00	18.07
ALC500A00H0000	HMI	no-CB	500	17,500	1130	72.30	44.00	18.07
ALC500A00H6000	HMI	E 65K	500	17,500	1130	72.30	44.00	18.07
ALC500A00H7000	HMI	E 100K	500	17,500	1130	72.30	44.00	18.07

HarmonicGuard Active (HGA)

480 V Open (Continued)

Open Part Number	Display	Circuit Breaker	Rated Amps	Watts Loss	Weight (lb)	Dimensions (in.)		
						H	W	D
ALC500A00HD000	HMI	FD	500	17,500	1130	72.30	44.00	18.73
ALC500A00HB000	HMI	FB	500	17,500	1130	72.30	44.00	18.07
ALC600A00H0000	HMI	no CB	600	16,112	942	72.26	55.00	20.36*
ALC600A00H0200	HMI	G 65K	600	16,112	942	72.26	55.00	20.36*
ALC600A00H0300	HMI	G 100K	600	16,112	942	72.26	55.00	20.36*
ALC600A00HD000	HMI	FD	600	16,112	942	72.26	55.00	20.36*
ALC600A00HB000	HMI	FB	600	16,112	942	72.26	55.00	20.36*
ALC700A00H0000	HMI	no CB	700	20,140	942	72.26	55.00	20.36*
ALC700A00H0200	HMI	G 65K	700	20,140	942	72.26	55.00	20.36*
ALC700A00H0300	HMI	G 100K	700	20,140	942	72.26	55.00	20.36*
ALC700A00HD000	HMI	FD	700	20,140	942	72.26	55.00	20.36*
ALC700A00HB000	HMI	FB	700	20,140	942	72.26	55.00	20.36*

Note: * For depth, add two inches for Disconnect/Circuit Breaker Handle

480 V Type 1

Type 1 Part Number	Display	Circuit Breaker	Rated Amps	Watts Loss	Weight (lb)	Dimensions (in.)		
						H	W	D
ALC50A01H0100	HMI	ABB 65K	50	2,676	254	61.77	17.61	18.12*
ALC50A01H2000	HMI	ABB 100K	50	2,676	254	61.77	17.61	18.12*
ALC50A01H4000	HMI	A-B 65K	50	2,676	254	61.77	17.61	18.12*
ALC50A01H5000	HMI	A-B 100K	50	2,676	254	61.77	17.61	18.12*
ALC50A01H6000	HMI	E 65K	50	2,676	254	61.77	17.61	18.12*
ALC50A01H7000	HMI	E 100K	50	2,676	254	61.77	17.61	18.12*
ALC100A01H0100	HMI	ABB 65K	100	3,500	254	61.77	17.61	18.12*
ALC100A01H2000	HMI	ABB 100K	100	3,500	254	61.77	17.61	18.12*
ALC100A01H4000	HMI	A-B 65K	100	3,500	254	61.77	17.61	18.12*
ALC100A01H5000	HMI	A-B 100K	100	3,500	254	61.77	17.61	18.12*
ALC100A01H6000	HMI	E 65K	100	3,500	254	61.77	17.61	18.12*
ALC100A01H7000	HMI	E 100K	100	3,500	254	61.77	17.61	18.12*
ALC150A01H0100	HMI	ABB 65K	150	5,250	406	73.10	17.70	20.13*
ALC150A01H2000	HMI	ABB 100K	150	5,250	406	73.10	17.70	20.13*
ALC150A01H4000	HMI	A-B 65K	150	5,250	406	73.10	17.70	20.13*
ALC150A01H5000	HMI	A-B 100K	150	5,250	406	73.10	17.70	20.13*
ALC150A01H6000	HMI	E 65K	150	5,250	406	73.10	17.70	20.13*
ALC150A01H7000	HMI	E 100K	150	5,250	406	73.10	17.70	20.13*
ALC200A01H010N	HMI	ABB 65K	200	7,000	565	78.33	27.73	22.86*
ALC200A01H200N	HMI	ABB 100K	200	7,000	565	78.33	27.73	22.86*
ALC200A01H400N	HMI	A-B 65K	200	7,000	565	78.33	27.73	22.86*
ALC200A01H500N	HMI	A-B 100K	200	7,000	565	78.33	27.73	22.86*
ALC200A01H600N	HMI	E 65K	200	7,000	565	78.33	27.73	22.86*
ALC200A01H700N	HMI	E 100K	200	7,000	565	78.33	27.73	22.86*
ALC250A01H0100	HMI	ABB 65K	250	8,750	565	78.33	22.74	22.86*
ALC250A01H2000	HMI	ABB 100K	250	8,750	565	78.33	22.74	22.86*
ALC250A01H4000	HMI	A-B 65K	250	8,750	565	78.33	22.74	22.86*
ALC250A01H5000	HMI	A-B 100K	250	8,750	565	78.33	22.74	22.86*
ALC250A01H6000	HMI	E 65K	250	8,750	565	78.33	22.74	22.86*
ALC250A01H7000	HMI	E 100K	250	8,750	565	78.33	22.74	22.86*

HarmonicGuard Active (HGA)

480 V Type 1 (Continued)

Type 1 Part Number	Display	Circuit Breaker	Rated Amps	Watts Loss	Weight (lb)	Dimensions (in.)		
						H	W	D
ALC300A01H010N	HMI	ABB 65K	300	8,000	835	78.33	27.73	22.86*
ALC300A01H200N	HMI	ABB 100K	300	8,000	835	78.33	27.73	22.86*
ALC300A01H400N	HMI	A-B 65K	300	8,000	835	78.33	27.73	22.86*
ALC300A01H500N	HMI	A-B 100K	300	8,000	835	78.33	27.73	22.86*
ALC300A01H600N	HMI	E 65K	300	8,000	835	78.33	27.73	22.86*
ALC300A01H700N	HMI	E 100K	300	8,000	835	78.33	27.73	22.86*
ALC350A01H0100	HMI	ABB 65K	350	10,000	835	78.33	27.73	22.86*
ALC350A01H2000	HMI	ABB 100K	350	10,000	835	78.33	27.73	22.86*
ALC350A01H4000	HMI	A-B 65K	350	10,000	835	78.33	27.73	22.86*
ALC350A01H5000	HMI	A-B 100K	350	10,000	835	78.33	27.73	22.86*
ALC350A01H6000	HMI	E 65K	350	10,000	835	78.33	27.73	22.86*
ALC350A01H7000	HMI	E 100K	350	10,000	835	78.33	27.73	22.86*
ALC400A01H6000	HMI	E 65K	400	14,000	1,229	88.46	48.64	22.86*
ALC400A01H7000	HMI	E 100K	400	14,000	1,229	88.46	48.64	22.86*
ALC400A01HD000	HMI	FD	400	14,000	1,229	88.46	48.64	22.86*
ALC400A01HB000	HMI	FB	400	14,000	1,229	88.46	48.64	22.86*
ALC500A01H6000	HMI	E 65K	500	17,500	1,229	88.46	48.64	22.86*
ALC500A01H7000	HMI	E 100K	500	17,500	1,229	88.46	48.64	22.86*
ALC500A01HD000	HMI	FD	500	17,500	1,229	88.46	48.64	22.86*
ALC500A01HB000	HMI	FB	500	17,500	1,229	88.46	48.64	22.86*
ALC600A01H0200	HMI	G 65K	600	16,112	1,268	88.54	59.64	22.86*
ALC600A01H0300	HMI	G 100K	600	16,112	1,268	88.54	59.64	22.86*
ALC600A01HD000	HMI	FD	600	16,112	1,268	88.54	59.64	22.86*
ALC600A01HB000	HMI	FB	600	16,112	1,268	88.54	59.64	22.86*
ALC700A01H0200	HMI	G 65K	700	20,140	1,268	88.54	59.64	22.86*
ALC700A01H0300	HMI	G 100K	700	20,140	1,268	88.54	59.64	22.86*
ALC700A01HD000	HMI	FD	700	20,140	1,268	88.54	59.64	22.86*
ALC700A01HB000	HMI	FB	700	20,140	1,268	88.54	59.64	22.86*

Note: * For depth, add two inches for Disconnect/Circuit Breaker Handle

480 V Type 12

Type 12 Part Number	Display	Circuit Breaker	Rated Amps	Watts Loss	Weight (lb)	Dimensions (in.)		
						H	W	D
H550A12H0100	Indicator Lights	ABB 65K	50	3,176	550	92.41	24.00	27.00
H550A12H2000	Indicator Lights	ABB 100K	50	3,176	550	92.41	24.00	27.00
H550A12H4000	Indicator Lights	A-B 65K	50	3,176	550	92.41	24.00	27.00
H550A12H5000	Indicator Lights	A-B 100K	50	3,176	550	92.41	24.00	27.00
H550A12H6000	Indicator Lights	E 65K	50	3,176	550	92.41	24.00	27.00
H550A12H7000	Indicator Lights	E 100K	50	3,176	550	92.41	24.00	27.00
H5100A12H0100	Indicator Lights	ABB 65K	100	4,000	550	92.41	24.00	27.00
H5100A12H2000	Indicator Lights	ABB 100K	100	4,000	550	92.41	24.00	27.00
H5100A12H4000	Indicator Lights	A-B 65K	100	4,000	550	92.41	24.00	27.00
H5100A12H5000	Indicator Lights	A-B 100K	100	4,000	550	92.41	24.00	27.00
H5100A12H6000	Indicator Lights	E 65K	100	4,000	550	92.41	24.00	27.00
H5100A12H7000	Indicator Lights	E 100K	100	4,000	550	92.41	24.00	27.00

HarmonicGuard Active (HGA)

480 V Type 12 (Continued)

Type 12 Part Number	Display	Circuit Breaker	Rated Amps	Watts Loss	Weight (lb)	Dimensions (in.)		
						H	W	D
H5150A12H0100	Indicator Lights	ABB 65K	150	6,250	736	92.41	24.00	27.00
H5150A12H2000	Indicator Lights	ABB 100K	150	6,250	736	92.41	24.00	27.00
H5150A12H4000	Indicator Lights	A-B 65K	150	6,250	736	92.41	24.00	27.00
H5150A12H5000	Indicator Lights	A-B 100K	150	6,250	736	92.41	24.00	27.00
H5150A12H6000	Indicator Lights	E 65K	150	6,250	736	92.41	24.00	27.00
H5150A12H7000	Indicator Lights	E 100 K	150	6,250	736	92.41	24.00	27.00
H5200A12H010N	Indicator Lights	ABB 65K	200	8,000	1131	93.12	36.00	39.02
H5200A12H200N	Indicator Lights	ABB 100K	200	8,000	1131	93.12	36.00	39.02
H5200A12H400N	Indicator Lights	A-B 65K	200	8,000	1131	93.12	36.00	39.02
H5200A12H500N	Indicator Lights	A-B 100K	200	8,000	1131	93.12	36.00	39.02
H5200A12H600N	Indicator Lights	E 65K	200	8,000	1131	93.12	36.00	39.02
H5200A12H700N	Indicator Lights	E 100K	200	8,000	1131	93.12	36.00	39.02
H5250A12H0100	Indicator Lights	ABB 65K	250	9,680	1131	93.12	36.00	39.02
H5250A12H2000	Indicator Lights	ABB 100K	250	9,680	1131	93.12	36.00	39.02
H5250A12H4000	Indicator Lights	A-B 65K	250	9,680	1131	93.12	36.00	39.02
H5250A12H5000	Indicator Lights	A-B 100K	250	9,680	1131	93.12	36.00	39.02
H5250A12H6000	Indicator Lights	E 65K	250	9,680	1131	93.12	36.00	39.02
H5250A12H7000	Indicator Lights	E 100K	250	9,680	1131	93.12	36.00	39.02
H5300A12H010N	Indicator Lights	ABB 65K	300	8,000	1352	93.12	41.00	39.02
H5300A12H200N	Indicator Lights	ABB 100K	300	8,000	1352	93.12	41.00	39.02
H5300A12H400N	Indicator Lights	A-B 65K	300	8,000	1352	93.12	41.00	39.02
H5300A12H500N	Indicator Lights	A-B 100K	300	8,000	1352	93.12	41.00	39.02
H5300A12H600N	Indicator Lights	E 65K	300	8,000	1352	93.12	41.00	39.02
H5300A12H700N	Indicator Lights	E 100K	300	8,000	1352	93.12	41.00	39.02
H5350A12H0100	Indicator Lights	ABB 65K	350	10,000	1352	93.12	41.00	39.02
H5350A12H2000	Indicator Lights	ABB 100K	350	10,000	1352	93.12	41.00	39.02
H5350A12H4000	Indicator Lights	A-B 65K	350	10,000	1352	93.12	41.00	39.02
H5350A12H5000	Indicator Lights	A-B 100K	350	10,000	1352	93.12	41.00	39.02
H5350A12H6000	Indicator Lights	E 65K	350	10,000	1352	93.12	41.00	39.02
H5350A12H7000	Indicator Lights	E 100K	350	10,000	1352	93.12	41.00	39.02
H5400A12H6000	Indicator Lights	E 65K	400	15,200	2382	93.12	72.00	39.02
H5400A12H7000	Indicator Lights	E 100K	400	15,200	2382	93.12	72.00	39.02
H5400A12HD000	Indicator Lights	FD	400	15,200	2382	93.12	72.00	39.02
H5400A12HB000	Indicator Lights	FB	400	15,200	2382	93.12	72.00	39.02
H5500A12H6000	Indicator Lights	E 65K	500	18,860	2382	93.12	72.00	39.02
H5500A12H7000	Indicator Lights	E 100K	500	18,860	2382	93.12	72.00	39.02
H5500A12HD000	Indicator Lights	FD	500	18,860	2382	93.12	72.00	39.02
H5500A12HB000	Indicator Lights	FB	500	18,860	2382	93.12	72.00	39.02
H5600A12H0200	Indicator Lights	G 65K	600	16,112	2382	93.12	72.00	39.02
H5600A12H0300	Indicator Lights	G 100K	600	16,112	2382	93.12	72.00	39.02
H5600A12HD000	Indicator Lights	FD	600	16,112	2382	93.12	72.00	39.02
H5600A12HB000	Indicator Lights	FB	600	16,112	2382	93.12	72.00	39.02
H5700A12H0200	Indicator Lights	G 65K	700	20,140	2382	93.12	72.00	39.02
H5700A12H0300	Indicator Lights	G 100K	700	20,140	2382	93.12	72.00	39.02
H5700A12HD000	Indicator Lights	FD	700	20,140	2382	93.12	72.00	39.02
H5700A12HB000	Indicator Lights	FB	700	20,140	2382	93.12	72.00	39.02

HarmonicGuard Active (HGA)

480 V Type 3R

Type 3R Part Number	Display	Circuit Breaker	Rated Amps	Watts Loss	Weight (lb)	Dimensions (in.)		
						H	W	D
H550A3RH0100	HMI	ABB 65K	50	2,676	685	63.00	32.00	25.00*
H550A3RH2000	HMI	ABB 100K	50	2,676	685	63.00	32.00	25.00*
H550A3RH4000	HMI	A-B 65K	50	2,676	685	63.00	32.00	25.00*
H550A3RH5000	HMI	A-B 100K	50	2,676	685	63.00	32.00	25.00*
H550A3RH6000	HMI	E 65K	50	2,676	685	63.00	32.00	25.00*
H550A3RH7000	HMI	E 100K	50	2,676	685	63.00	32.00	25.00
H5100A3RH0100	HMI	ABB 65K	100	3,500	685	63.00	32.00	25.00*
H5100A3RH2000	HMI	ABB 100K	100	3,500	685	63.00	32.00	25.00*
H5100A3RH4000	HMI	A-B 65K	100	3,500	685	63.00	32.00	25.00*
H5100A3RH5000	HMI	A-B 100K	100	3,500	685	63.00	32.00	25.00*
H5100A3RH6000	HMI	E 65K	100	3,500	685	63.00	32.00	25.00*
H5100A3RH7000	HMI	E 100K	100	3,500	685	63.00	32.00	25.00*
H5150A03H0100	HMI	ABB 65K	150	5,250	720	94.00	32.00	28.10*
H5150A03H2000	HMI	ABB 100K	150	5,250	720	94.00	32.00	28.10*
H5150A03H4000	HMI	A-B 65K	150	5,250	720	94.00	32.00	28.10*
H5150A03H5000	HMI	A-B 100K	150	5,250	720	94.00	32.00	28.10*
H5150A03H6000	HMI	E 65K	150	5,250	720	94.00	32.00	28.10*
H5150A03H7000	HMI	E 100 K	150	5,250	720	94.00	32.00	28.10*
H5200A03H010N	HMI	ABB 65K	250	6,930	1102	94.00	42.00	29.60*
H5200A03H200N	HMI	ABB 100K	250	6,930	1102	94.00	42.00	29.60*
H5200A03H400N	HMI	A-B 65K	250	6,930	1102	94.00	42.00	29.60*
H5200A03H500N	HMI	A-B 100K	250	6,930	1102	94.00	42.00	29.60*
H5200A03H600N	HMI	E 65K	200	6,930	1102	94.00	42.00	29.60*
H5200A03H700N	HMI	E 100K	200	6,930	1102	94.00	42.00	29.60*
H5250A03H0100	HMI	ABB 65K	250	8,750	1102	94.00	42.00	29.60*
H5250A03H2000	HMI	ABB 100K	250	8,750	1102	94.00	42.00	29.60*
H5250A03H4000	HMI	A-B 65K	250	8,750	1102	94.00	42.00	29.60*
H5250A03H5000	HMI	A-B 100K	250	8,750	1102	94.00	42.00	29.60*
H5250A03H6000	HMI	E 65K	250	8,750	1102	94.00	42.00	29.60
H5250A03H7000	HMI	E 100K	250	8,750	1102	94.00	42.00	29.60*
H5300A03H010N	HMI	ABB 65K	300	8,000	1425	94.00	47.00	28.95*
H5300A03H200N	HMI	ABB 100K	300	8,000	1425	94.00	47.00	28.95*
H5300A03H400N	HMI	A-B 65K	300	8,000	1425	94.00	47.00	28.95*
H5300A03H500N	HMI	A-B 100K	300	8,000	1425	94.00	47.00	28.95*
H5300A03H600N	HMI	E 65K	300	8,000	1425	94.00	47.00	28.95*
H5300A03H700N	HMI	E 100K	300	8,000	1425	94.00	47.00	28.95*
H5350A03H0100	HMI	ABB 65K	350	10,000	1425	94.00	47.00	28.95*
H5350A03H2000	HMI	ABB 100K	350	10,000	1425	94.00	47.00	28.95*
H5350A03H4000	HMI	A-B 65K	350	10,000	1425	94.00	47.00	28.95*
H5350A03H5000	HMI	A-B 100K	350	10,000	1425	94.00	47.00	28.95*
H5350A03H6000	HMI	E 65K	350	10,000	1425	94.00	47.00	28.95*
H5350A03H7000	HMI	E 100K	350	10,000	1425	94.00	47.00	28.95*

HarmonicGuard Active (HGA)

480 V Type 3R (Continued)

Type 3R Part Number	Display	Circuit Breaker	Rated Amps	Watts Loss	Weight (lb)	Dimensions (in.)		
						H	W	D
H5400A03H6000	HMI	E 65K	400	13,860	1965	94.00	73.00	31.05*
H5400A03H7000	HMI	E 100K	400	13,860	1965	94.00	73.00	31.05*
H5400A03HD000	HMI	FD	400	13,860	1965	94.00	73.00	31.05*
H5400A03HB000	HMI	FB	400	13,860	1965	94.00	73.00	31.05*
H5500A03H6000	HMI	E 65K	500	17,500	1965	94.00	73.00	31.05*
H5500A03H7000	HMI	E 100K	500	17,500	1965	94.00	73.00	31.05*
H5500A03HD000	HMI	FD	500	17,500	1965	94.00	73.00	31.05*
H5500A03HB000	HMI	FB	500	17,500	1965	94.00	73.00	31.05*
H5600A03H0200	HMI	G 65K	600	16,112	2109	94.00	73.00	31.05*
H5600A03H0300	HMI	G 100K	600	16,112	2109	94.00	73.00	31.05*
H5600A03HD000	HMI	FD	600	16,112	2109	94.00	73.00	31.05*
H5600A03HB000	HMI	FB	600	16,112	2109	94.00	73.00	31.05*
H5700A03H0200	HMI	G 65K	700	20,140	2109	94.00	73.00	31.05*
H5700A03H0300	HMI	G 100K	700	20,140	2109	94.00	73.00	31.05*
H5700A03HD000	HMI	FD	700	20,140	2109	94.00	73.00	31.05*
H5700A03HB000	HMI	FB	700	20,140	2109	94.00	73.00	31.05*

Note: * For depth, add two inches for Disconnect/Circuit Breaker Handle

600 V Open

Open Part Number	Enclosure Information	Circuit Breaker	Rated Amps	Watts Loss	Weight (lb)	Dimensions (in.)		
						Height	Width	Depth
H5039C000H6000	Filter: Open	E 65K	39	2,676	167	56.00	17.00	16.00
	XFMR: Open			345	270	24.90	24.40	20.80
H5078C000H6000	Filter: Open	E 65K	78	3,500	167	56.00	17.00	16.00
	XFMR: Open			740	270	24.90	24.40	20.80
H5110C000H6000	Filter: Open	E 65K	110	5,250	272	69.10	17.00	16.00
	XFMR: Open			690	400	30.00	28.26	20.81
H5150C000H600N	Filter: Open	E 65K	150	6,930	565	72.00	22.00	18.00
	XFMR: Open			690	400	30.00	28.26	20.81
H5185C000H6000	Filter: Open	E 65K	185	8,750	425	72.30	22.00	18.00
	XFMR: Open			690	400	30.00	28.26	20.81
H5220C000H6000	Filter: Open	E 65K	220	10,500	550	69.10	32.00	17.00
	XFMR: Open			690	400	30.00	28.26	20.81
H5220C000H600N	Filter: Open	E 65K	220	10,500	550	72.30	27.00	17.04
	XFMR: Open			690	400	30.00	28.26	20.81
H5260C000H600	Filter: Open	E 65K	260	10,500	550	72.30	27.00	17.04
	XFMR: Open			690	400	30.00	28.26	20.81
H5300C000H6000	Filter: Open	E 65K	300	13,860	1130	72.30	44.00	18.07
	XFMR: Open			690	400	30.00	28.26	20.81
H5370C000H6000	Filter: Open	E 65K	370	17,500	1130	72.30	44.00	18.07
	XFMR: Open			690	400	30.00	28.26	20.81
H5450C000H6000	Filter: Open	E 65K	450	16,112	942	72.30	55.00	20.36
	XFMR: Open			690	400	30.00	28.26	20.81
H5520C000H6000	Filter: Open	E 65K	520	20,140	942	72.30	55.00	20.36
	XFMR: Open			690	400	30.00	28.26	20.81

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HarmonicGuard Active (HGA)

600 V Type 1

Type 1 Part Number	Enclosure Information	Circuit Breaker	Rated Amps	Watts Loss	Weight (lb)	Dimensions (in.)		
						Height	Width	Depth
H5039C013H6000	Filter: Type 1	E 65K	39	2,676	254	61.77	17.61	18.12
	XFMR: Type 3R			345	270	24.90	24.40	20.80
H5078C013H6000	Filter: Type 1	E 65K	78	3500	254	61.77	17.61	18.12
	XFMR: Type 3R			740	270	24.90	24.40	20.80
H5110C013H6000	Filter: Type 1	E 65K	110	5,250	406	73.10	17.70	20.13
	XFMR: Type 3R			690	400	30.00	28.26	20.81
H5150C013H600N	Filter: Type 1	E 65K	150	7000	565	78.33	22.74	22.86
	XFMR: Type 3R			690	400	30.00	28.26	20.81
H5185C013H6000	Filter: Type 1	E 65K	185	8,750	565	78.33	22.74	22.86
	XFMR: Type 3R			690	400	30.00	28.26	20.81
H5220C013H6000	Filter: Type 1	E 65K	220	10500	722	75.30	32.70	20.13
	XFMR: Type 3R			690	400	30.00	28.26	20.81
H5220C013H600N	Filter: Type 1	E 65K	220	8,000	835	78.33	27.73	22.86
	XFMR: Type 3R			690	400	30.00	28.26	20.81
H5260C013H600	Filter: Type 1	E 65K	260	10000	835	78.33	27.73	22.86
	XFMR: Type 3R			690	400	30.00	28.26	20.81
H5300C013H6000	Filter: Type 1	E 65K	300	14,000	1229	88.46	48.64	22.86
	XFMR: Type 3R			690	400	30.00	28.26	20.81
H5370C013H6000	Filter: Type 1	E 65K	370	17500	1229	88.46	48.64	22.86
	XFMR: Type 3R			690	400	30.00	28.26	20.81
H5450C013H6000	Filter: Type 1	E 65K	450	16,112	1268	88.54	59.64	21.00*
	XFMR: Type 3R			690	400	30.00	28.26	20.81
H5520C013H6000	Filter: Type 1	E 65K	520	20140	1268	88.54	59.64	22.86
	XFMR: Type 3R			690	400	30.00	28.26	20.81

HGA 600 V Type 3R

HGA 600 V Type 3R

Type 3R Part Number	Enclosure Information	Circuit Breaker	Rated Amps	Watts Loss	Weight (lb)	Dimensions (in.)		
						Height	Width	Depth
H5039C033H6000	Filter: Type 3R	E 65K	39	2,676	685	63.00	32.00	25.00
	XFMR: Type 3R			345	270	24.90	24.40	20.80
H5078C033H6000	Filter: Type 3R	E 65K	78	3,500	685	63.00	32.00	25.00
	XFMR: Type 3R			740	270	24.90	24.40	20.80
H5110C033H6000	Filter: Type 3R	E 65K	110	5,250	720	94.00	32.00	28.10
	XFMR: Type 3R			740	270	24.90	24.40	20.80
H5150C033H600N	Filter: Type 3R	E 65K	150	6,930	1102	94.00	42.00	29.60
	XFMR: Type 3R			740	270	24.90	24.40	20.80
H5185C033H6000	Filter: Type 3R	E 65K	185	8,750	1102	94.00	42.00	29.60
	XFMR: Type 3R			740	270	24.90	24.40	20.80
H5220C033H6000	Filter: Type 3R	E 65K	220	10,500	1330	94.00	57.00	28.12
	XFMR: Type 3R			740	270	24.90	24.40	20.80
H5220C033H600N	Filter: Type 3R	E 65K	220	8,000	1425	94.00	47.00	28.95
	XFMR: Type 3R			740	270	24.90	24.40	20.80
H5260C033H6000	Filter: Type 3R	E 65K	260	10,000	1425	94.00	47.00	28.95
	XFMR: Type 3R			740	270	24.90	24.40	20.80
H5300C033H6000	Filter: Type 3R	E 65K	300	13,860	1965	94.00	73.00	31.05
	XFMR: Type 3R			740	270	24.90	24.40	20.80
H5370C033H6000	Filter: Type 3R	E 65K	370	17,500	1965	94.00	73.00	31.05
	XFMR: Type 3R			740	270	24.90	24.40	20.80
H5450C033H6000	Filter: Type 3R	E 65K	450	16,112	2109	94.00	73.00	31.05
	XFMR: Type 3R			740	270	24.90	24.40	20.80
H5520C033H6000	Filter: Type 3R	E 65K	520	20,140	2109	94.00	73.00	31.05
	XFMR: Type 3R			740	270	24.90	24.40	20.80

HGA - HMI, CT & Floor Stand Options

HMI Options

Part Number	Option
CMXXXA00	Modbus RTU over RS485*
CMXXXA01	EtherNet/IP - Modbus TCP/IP
CMXXXA02	DeviceNet
CMXXXA03	BACNet/IP
CMXXXA04	Profibus
CMXXXA05	ProfiNet/RT
CMXXXAR	3R Communication Module**
HGA-HMI	Remote HMI for 3R Unit**

• Note: “XXX” refers to the amp rating of the filter

*Modbus RTU over RS485 is the only communications package available for Type 3R HGA filters

HMI Option for Type 3R:

When ordering an HMI for a **Type 3R enclosure, please order part CMXXXAR to include: indicator status lights, a run/stop key switch, and a built-in serial port connection to plug in the HGA-HMI.

Current Transformer Options

Two current transformers are needed. See KCTF Tables above.

480 V Floor Stand Options

Floor Stand Part Number	Frame	Amp Rating
HGAF01D1A	D1	50A & 100A
HGAF01E1	E1	150A
HGAF01F1	F1	200A & 250A
HGAF01E2	E2	300A
HGAF01G1	G1	300 Narrow/350

600 V Floor Stand Options

Floor Stand Part Number	Frame	Amp Rating
HGAF01D1A	D1	39A & 78A
HGAF01E1	E1	110A
HGAF01F1	F1	150A & 185A
HGAF01E2	E2	220A
HGAF01G1	G1	220 Narrow/260

HarmonicGuard Passive Filter (HGP)

The HGP filter is a drive applied 5% passive harmonic filter. High quality components and a robust design allow this passive filter to deliver best in class performance under the harshest conditions and in the most challenging applications. The HGP filter is suitable for all industry applications.

The addition of PQconnect allows users to remotely access their filters to monitor and control specific functions. HGP with PQconnect is the first intelligent passive filter that monitors for power quality and controls your contactor.



HGP with PQconnect Advantages

The HGP harmonic filter is a field-proven passive filter designed to meet your specific industry requirements. This filter not only limits current distortion to less than 5% at low loads, but it also increases drive uptime and eliminates nuisance tripping. The UL508A configuration includes 100kA SCCR safety, with fusing and easy access inside the enclosure. A filter bypass contactor is not needed in offline VFD applications. HGP with PQconnect takes measurements at different points within the line to give you accurate readings.

With the addition of PQconnect, the HGP harmonic filter features:

Generator Compatibility with Intelligence

The HGP with PQconnect is now the only intelligent passive harmonic filter with generator compatibility. The filter autonomously controls its tuning circuit contactor based on your input system to ensure worry-free operations for generator-based systems.

Serial Communication

The HGP communication with Modbus RTU provides data monitoring and status of the filter to your SCADA system. The filter will communicate informational alerts to ensure your system stays running and resolves power quality issues.

Industrial Strength

The HGP with PQconnect is built in the USA, using high quality components. This allows our passive filters to deliver best in class performance under the harshest conditions and in the most challenging applications.

Filter Status Detections

Receive alerts before problems occur. With PQconnect, users will be notified if issues were to arise, including on the components of your filter. This will prevent unnecessary downtime and will alert the user when capacitors are nearing end of life.

HarmonicGuard Passive Filter (HGP)

Part Numbering Option

	HGP	0150	A	W	1	C	1	0	0	0
Series:										
Rating (Hp - 60Hz, KW -50 Hz):										
Voltage Rating:										
A - 480 V	B - 240 V									
C - 600V	D - 208 V									
L - 380-415 V										
Frequency:										
W - 60Hz	X - 50Hz									
Enclosure:										
0 - Open	1 - Type 1									
2 - Type 12	3 - Type 3R									
Option:										
C - Contactor	S - No Contactor									
Connectivity:										
0 - No Connectivity										
1 - PQconnect w/Modbus RTU over RS485										
Option:										
0 - No Option										
F - Floor Stand (125 Hp and below for Type 3R)										
Option:										
0 - Standard Voltage Distortion										
1 - High Voltage Distortion										
Option:										
0 - No Option										
H - Heater (only in Type 3R)										
V - Vibration Pads										
P - Oil Field Duty										

HarmonicGuard Passive Filter (HGP)

480 V Open Contactor with PQconnect over Modbus RTU

Open Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)		
					Height	Width	Depth
HGP0005AW0C1000	5	7.6	1.2	150	19.75	17	9.79
HGP0008AW0C1000	7.5	11	3	150	19.75	17	9.79
HGP0010AW0C1000	10	14	3	175	19.75	17	9.79
HGP0015AW0C1000	15	21	5	250	19.75	17	10.14
HGP0020AW0C1000	20	27	6	275	19.75	17	8
HGP0025AW0C1000	25	34	8	250	19.75	17	10.14
HGP0030AW0C1000	30	40	10	300	30.75	17	11.38
HGP0040AW0C1000	40	52	15	500	30.75	17	11.5
HGP0050AW0C1000	50	65	15	550	30.75	17	11.5
HGP0060AW0C1000	60	77	20	675	30.75	17	11.5
HGP0075AW0C1000	75	96	25	650	30.75	17	11.5
HGP0100AW0C1000	100	124	30	750	30.75	17	11.5
HGP0125AW0C1000	125	156	40	1000	56	17	13.13
HGP0150AW0C1000	150	180	45	1200	56	17	13.13
HGP0200AW0C1000	200	240	60	1600	67	17	13.5
HGP0250AW0C1000	250	302	75	1800	67	17	13.5
HGP0300AW0C1000	300	361	90	2100	67	17.31	14.5
HGP0350AW0C1000	350	414	105	2200	40	41.21	20.53
HGP0400AW0C1000	400	477	120	2600	40	41.21	20.53
HGP0450AW0C1000	450	515	135	2800	45	45	24
HGP0500AW0C1000	500	590	150	3100	45	45	24
HGP0600AW0C1000	600	720	180	2700	45	46	24
HGP0700AW0C1000	700	840	210	2900	56	72	24
HGP0800AW0C1000	800	960	240	3000	56	72	24
HGP0900AW0C1000	900	1080	270	3300	56	72	24

480 V Open with Contactor

Open Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)		
					Height	Width	Depth
HGP0005AW0C0000	5	7.6	1.2	150	19.75	17	9.79
HGP0008AW0C0000	7.5	11	3	150	19.75	17	9.79
HGP0010AW0C0000	10	14	3	175	19.75	17	9.79
HGP0015AW0C0000	15	21	5	250	19.75	17	10.14
HGP0020AW0C0000	20	27	6	275	19.75	17	8
HGP0025AW0C0000	25	34	8	250	19.75	17	10.14
HGP0030AW0C0000	30	40	10	300	30.75	17	11.38
HGP0040AW0C0000	40	52	15	500	30.75	17	11.5
HGP0050AW0C0000	50	65	15	550	30.75	17	11.5
HGP0060AW0C0000	60	77	20	675	30.75	17	11.5
HGP0075AW0C0000	75	96	25	650	30.75	17	11.5
HGP0100AW0C0000	100	124	30	750	56	17	11.5
HGP0125AW0C0000	125	156	40	1000	56	17	13.13
HGP0150AW0C0000	150	180	45	1200	56	17	13.13
HGP0200AW0C0000	200	240	60	1600	67	17	13.5
HGP0250AW0C0000	250	302	75	1800	67	17	13.5
HGP0300AW0C0000	300	361	90	2100	67	17.31	14.5
HGP0350AW0C0000	350	414	105	2200	40	41.21	20.53
HGP0400AW0C0000	400	477	120	2600	40	41.21	20.53
HGP0450AW0C0000	450	515	135	2800	45	45	24
HGP0500AW0C0000	500	590	150	3100	45	45	24
HGP0600AW0C0000	600	720	180	2700	45	46	24
HGP0700AW0C0000	700	840	210	2900	56	72	24
HGP0800AW0C0000	800	960	240	3000	56	72	24
HGP0900AW0C0000	900	1080	270	3300	56	72	24

HarmonicGuard Passive Filter (HGP)

480 V Open No Contactor

Open Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)		
					Height	Width	Depth
HGP0005AW0S0000	5	7.6	1.2	150	19.75	17	9.79
HGP0008AW0S0000	7.5	11	3	150	19.75	17	9.79
HGP0010AW0S0000	10	14	3	175	19.75	17	9.79
HGP0015AW0S0000	15	21	5	250	19.75	17	10.14
HGP0020AW0S0000	20	27	6	275	19.75	17	10.14
HGP0025AW0S0000	25	34	8	250	19.75	17	10.14
HGP0030AW0S0000	30	40	10	300	30.75	17	11.38
HGP0040AW0S0000	40	52	15	500	30.75	17	11.5
HGP0050AW0S0000	50	65	15	550	30.75	17	11.5
HGP0060AW0S0000	60	77	20	675	30.75	17	11.5
HGP0075AW0S0000	75	96	25	650	30.75	17	11.5
HGP0100AW0S0000	100	124	30	750	30.75	17	11.5
HGP0125AW0S0000	125	156	40	1000	56	17	13.13
HGP0150AW0S0000	150	180	45	1200	56	17	13.13
HGP0200AW0S0000	200	240	60	1600	67	17	13.5
HGP0250AW0S0000	250	302	75	1800	67	17	13.5
HGP0300AW0S0000	300	361	90	2100	67	17	14.5
HGP0350AW0S0000	350	414	105	2200	40	41.21	20.53
HGP0400AW0S0000	400	477	120	2600	40	41.21	20.53
HGP0450AW0S0000	450	515	135	2800	45	45	24
HGP0500AW0S0000	500	590	150	3100	45	45	24
HGP0600AW0S0000	600	720	180	2700	45	46	24
HGP0700AW0S0000	700	840	210	2900	56	72	24
HGP0800AW0S0000	800	960	240	3000	56	72	24
HGP0900AW0S0000	900	1080	270	3300	56	72	24

480 V Type 1 Contactor with PQconnect over Modbus RTU

Type 1 Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)		
					Height	Width	Depth
HGP0005AW1C1000	5	7.6	1.2	150	20.52	17.62	12.52
HGP0008AW1C1000	7.5	11	3	150	20.52	17.62	12.52
HGP0010AW1C1000	10	14	3	175	20.52	17.62	12.52
HGP0015AW1C1000	15	21	5	250	20.52	17.62	12.52
HGP0020AW1C1000	20	27	6	275	20.52	17.62	12.52
HGP0025AW1C1000	25	34	8	250	20.52	17.62	12.52
HGP0030AW1C1000	30	40	10	300	31.55	17.5	12.54
HGP0040AW1C1000	40	52	15	500	31.55	17.5	12.54
HGP0050AW1C1000	50	65	15	550	31.55	17.5	12.54
HGP0060AW1C1000	60	77	20	675	31.55	17.5	12.54
HGP0075AW1C1000	75	96	25	650	31.55	17.5	12.54
HGP0100AW1C1000	100	124	30	750	56.15	17.66	16.33
HGP0125AW1C1000	125	156	40	1000	56.15	17.66	16.33
HGP0150AW1C1000	150	180	45	1200	56.15	17.66	16.33
HGP0200AW1C1000	200	240	60	1600	70	20	20
HGP0250AW1C1000	250	302	75	1800	70	20	20
HGP0300AW1C1000	300	361	90	2100	70	20	20
HGP0350AW1C1000	350	414	105	2200	70	20	20
HGP0400AW1C1000	400	477	120	2600	70	20	20
HGP0450AW1C1000	450	515	135	2800	62.57	52	24.38
HGP0500AW1C1000	500	590	150	3100	62.57	52	24.38
HGP0600AW1C1000	600	720	180	2700	62.57	52	24.38
HGP0700AW1C1000	700	840	210	2900	62.57	52	26.46
HGP0800AW1C1000	800	960	240	3000	62.57	52	26.46
HGP0900AW1C1000	900	1080	270	3300	62.57	72	26.46

HarmonicGuard Passive Filter (HGP)

480 V Type 1 with Contactor

Type 1 Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)		
					Height	Width	Depth
HGP0005AW1C0000	5	7.6	1.2	150	20.52	17.62	12.52
HGP0008AW1C0000	7.5	11	3	150	20.52	17.62	12.52
HGP0010AW1C0000	10	14	3	175	20.52	17.62	12.52
HGP0015AW1C0000	15	21	5	250	20.52	17.62	12.52
HGP0020AW1C0000	20	27	6	275	20.52	17.62	12.52
HGP0025AW1C0000	25	34	8	250	20.52	17.62	12.52
HGP0030AW1C0000	30	40	10	300	31.55	17.5	12.54
HGP0040AW1C0000	40	52	15	500	31.55	17.5	12.54
HGP0050AW1C0000	50	65	15	550	31.55	17.5	12.54
HGP0060AW1C0000	60	77	20	675	31.55	17.5	12.54
HGP0075AW1C0000	75	96	25	650	31.55	17.5	12.54
HGP0100AW1C0000	100	124	30	750	56.15	17.66	16.33
HGP0125AW1C0000	125	156	40	1000	56.15	17.66	16.33
HGP0150AW1C0000	150	180	45	1200	56.15	17.66	16.33
HGP0200AW1C0000	200	240	60	1600	70	20	20
HGP0250AW1C0000	250	302	75	1800	70	20	20
HGP0300AW1C0000	300	361	90	2100	70	20	20
HGP0350AW1C0000	350	414	105	2200	70	20	20
HGP0400AW1C0000	400	477	120	2600	70	20	20
HGP0450AW1C0000	450	515	135	2800	62.57	52	24.38
HGP0500AW1C0000	500	590	150	3100	62.57	52	24.38
HGP0600AW1C0000	600	720	180	2700	62.57	52	24.38
HGP0700AW1C0000	700	840	210	2900	62.57	52	26.46
HGP0800AW1C0000	800	960	240	3000	62.57	52	26.46
HGP0900AW1C0000	900	1080	270	3300	62.57	72	26.46

480 V Type 1 No Contactor

Type 1 Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)		
					Height	Width	Depth
HGP0005AW1S0000	5	7.6	1.2	150	20.52	17.62	12.52
HGP0008AW1S0000	7.5	11	3	150	20.52	17.62	12.52
HGP0010AW1S0000	10	14	3	175	20.52	17.62	12.52
HGP0015AW1S0000	15	21	5	250	20.52	17.62	12.52
HGP0020AW1S0000	20	27	6	275	20.52	17.62	12.52
HGP0025AW1S0000	25	34	8	250	20.52	17.62	12.52
HGP0030AW1S0000	30	40	10	300	31.55	17.5	12.54
HGP0040AW1S0000	40	52	15	500	31.55	17.5	12.54
HGP0050AW1S0000	50	65	15	550	31.55	17.5	12.54
HGP0060AW1S0000	60	77	20	675	31.55	17.5	12.54
HGP0075AW1S0000	75	96	25	650	31.55	17.5	12.54
HGP0100AW1S0000	100	124	30	750	56.15	17.66	16.33
HGP0125AW1S0000	125	156	40	1000	56.15	17.66	16.33
HGP0150AW1S0000	150	180	45	1200	56.15	17.66	16.33
HGP0200AW1S0000	200	240	60	1600	70	20	20
HGP0250AW1S0000	250	302	75	1800	70	20	20
HGP0300AW1S0000	300	361	90	2100	70	20	20
HGP0350AW1S0000	350	414	105	2200	70	20	20
HGP0400AW1S0000	400	477	120	2600	70	20	20
HGP0450AW1S0000	450	515	135	2800	62.57	52	24.38
HGP0500AW1S0000	500	590	150	3100	62.57	52	24.38
HGP0600AW1S0000	600	720	180	2700	62.57	52	24.38
HGP0700AW1S0000	700	840	210	2900	62.57	52	26.46
HGP0800AW1S0000	800	960	240	3000	62.57	52	26.46
HGP0900AW1S0000	900	1080	270	3300	62.57	72	26.46

HarmonicGuard Passive Filter (HGP)

480 V Type 3R Contactor with PQconnect over Modbus RTU

Type 3R Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)		
					Height	Width	Depth
HGP0005AW3C1000	5	7.6	1.2	150	33.24	33	13.73
HGP0008AW3C1000	7.5	11	3	150	33.24	33	13.73
HGP0010AW3C1000	10	14	3	175	33.24	33	13.73
HGP0015AW3C1000	15	21	5	250	33.24	33	13.73
HGP0020AW3C1000	20	27	6	275	33.24	33	13.73
HGP0025AW3C1000	25	34	8	250	33.24	33	13.73
HGP0030AW3C1000	30	40	10	300	33.24	33	13.73
HGP0040AW3C1000	40	52	15	500	37.58	39.15	13.73
HGP0050AW3C1000	50	65	15	550	37.58	39.15	13.73
HGP0060AW3C1000	60	77	20	675	37.58	39.15	13.73
HGP0075AW3C1000	75	96	25	650	37.58	39.15	13.73
HGP0100AW3C1000	100	124	30	750	37.58	39.15	13.73
HGP0125AW3C1000	125	156	40	1000	37.58	39.15	13.73
HGP0150AW3C1000	150	180	45	1200	52.58	39.07	17.73
HGP0200AW3C1000	200	240	60	1600	52.58	39.07	17.73
HGP0250AW3C1000	250	302	75	1800	53.86	45.14	21.73
HGP0300AW3C1000	300	361	90	2100	53.86	45.14	21.73
HGP0350AW3C1000	350	414	105	2200	53.86	45.14	21.73
HGP0400AW3C1000	400	477	120	2600	65.77	57.13	26.32
HGP0450AW3C1000	450	515	135	2800	65.77	57.13	26.32
HGP0500AW3C1000	500	590	150	3100	65.77	57.13	26.32
HGP0600AW3C1000	600	720	180	2700	65.77	57.13	26.32
HGP0700AW3C1000	700	840	210	2900	80.22	72.06	30
HGP0800AW3C1000	800	960	240	3000	80.22	72.06	30
HGP0900AW3C1000	900	1080	270	3300	80.22	72.06	30

480 V Type 3R with Contactor

Type 3R Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)		
					Height	Width	Depth
HGP0005AW3C0000	5	7.6	1.2	150	33.24	33	13.73
HGP0008AW3C0000	7.5	11	3	150	33.24	33	13.73
HGP0010AW3C0000	10	14	3	175	33.24	33	13.73
HGP0015AW3C0000	15	21	5	250	33.24	33	13.73
HGP0020AW3C0000	20	27	6	275	33.24	33	13.73
HGP0025AW3C0000	25	34	8	250	33.24	33	13.73
HGP0030AW3C0000	30	40	10	300	33.24	33	13.73
HGP0040AW3C0000	40	52	15	500	37.58	39.15	13.73
HGP0050AW3C0000	50	65	15	550	37.58	39.15	13.73
HGP0060AW3C0000	60	77	20	675	37.58	39.15	13.73
HGP0075AW3C0000	75	96	25	650	37.58	39.15	13.73
HGP0100AW3C0000	100	124	30	750	37.58	39.15	13.73
HGP0125AW3C0000	125	156	40	1000	37.58	39.15	13.73
HGP0150AW3C0000	150	180	45	1200	52.58	39.07	17.73
HGP0200AW3C0000	200	240	60	1600	52.58	39.07	17.73
HGP0250AW3C0000	250	302	75	1800	53.86	45.14	21.73
HGP0300AW3C0000	300	361	90	2100	53.86	45.14	21.73
HGP0350AW3C0000	350	414	105	2200	53.86	45.14	21.73
HGP0400AW3C0000	400	477	120	2600	65.77	57.13	26.32
HGP0450AW3C0000	450	515	135	2800	65.77	57.13	26.32
HGP0500AW3C0000	500	590	150	3100	65.77	57.13	26.32
HGP0600AW3C0000	600	720	180	2700	65.77	57.13	26.32
HGP0700AW3C0000	700	840	210	2900	80.22	72.06	30
HGP0800AW3C0000	800	960	240	3000	80.22	72.06	30
HGP0900AW3C0000	900	1080	270	3300	80.22	72.06	30

HarmonicGuard Passive Filter (HGP)

480 V Type 3R No Contactor

Type 3R Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)		
					Height	Width	Depth
HGP0005AW3S0000	5	7.6	1.2	150	33.24	33	13.73
HGP0008AW3S0000	7.5	11	3	150	33.24	33	13.73
HGP0010AW3S0000	10	14	3	175	33.24	33	13.73
HGP0015AW3S0000	15	21	5	250	33.24	33	13.73
HGP0020AW3S0000	20	27	6	275	33.24	33	13.73
HGP0025AW3S0000	25	34	8	250	33.24	33	13.73
HGP0030AW3S0000	30	40	10	300	33.24	33	13.73
HGP0040AW3S0000	40	52	15	500	37.58	39.15	13.73
HGP0050AW3S0000	50	65	15	550	37.58	39.15	13.73
HGP0060AW3S0000	60	77	20	675	37.58	39.15	13.73
HGP0075AW3S0000	75	96	25	650	37.58	39.15	13.73
HGP0100AW3S0000	100	124	30	750	37.58	39.15	13.73
HGP0125AW3S0000	125	156	40	1000	37.58	39.15	13.73
HGP0150AW3S0000	150	180	45	1200	52.58	39.07	17.73
HGP0200AW3S0000	200	240	60	1600	52.58	39.07	17.73
HGP0250AW3S0000	250	302	75	1800	53.86	45.14	21.73
HGP0300AW3S0000	300	361	90	2100	53.86	45.14	21.73
HGP0350AW3S0000	350	414	105	2200	53.86	45.14	21.73
HGP0400AW3S0000	400	477	120	2600	65.77	57.13	26.32
HGP0450AW3S0000	450	515	135	2800	65.77	57.13	26.32
HGP0500AW3S0000	500	590	150	3100	65.77	57.13	26.32
HGP0600AW3S0000	600	720	180	2700	65.77	57.13	26.32
HGP0700AW3S0000	700	840	210	2900	80.22	72.06	30
HGP0800AW3S0000	800	960	240	3000	80.22	72.06	30
HGP0900AW3S0000	900	1080	270	3300	80.22	72.06	30

HarmonicGuard Passive Filter (HGP)

480 V Type 3R Contactor with PQconnect over Modbus RTU - Oilfield Duty

Type 3R Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)		
					Height	Width	Depth
HGP0040AW3C100P	40	52	15	500	37.58	39.15	13.73
HGP0050AW3C100P	50	65	15	550	37.58	39.15	13.73
HGP0060AW3C100P	60	77	20	675	37.58	39.15	13.73
HGP0075AW3C100P	75	96	25	650	37.58	39.15	13.73
HGP0100AW3C100P	100	124	30	750	37.58	39.15	13.73
HGP0125AW3C100P	125	156	40	1000	37.58	39.15	13.73
HGP0150AW3C100P	150	180	45	1200	52.58	39.07	17.73
HGP0200AW3C100P	200	240	60	1600	52.58	39.07	17.73

480 V Type 3R Contactor - Oilfield Duty

Type 3R Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)		
					Height	Width	Depth
HGP0040AW3C000P	40	52	15	500	37.58	39.15	13.73
HGP0050AW3C000P	50	65	15	550	37.58	39.15	13.73
HGP0060AW3C000P	60	77	20	675	37.58	39.15	13.73
HGP0075AW3C000P	75	96	25	650	37.58	39.15	13.73
HGP0100AW3C000P	100	124	30	750	37.58	39.15	13.73
HGP0125AW3C000P	125	156	40	1000	37.58	39.15	13.73
HGP0150AW3C000P	150	180	45	1200	52.58	39.07	17.73
HGP0200AW3C000P	200	240	60	1600	52.58	39.07	17.73

480 V Type 3R No Contactor - Oilfield Duty

Type 3R Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)		
					Height	Width	Depth
HGP0040AW3S000P	40	52	15	500	37.58	39.15	13.73
HGP0050AW3S000P	50	65	15	550	37.58	39.15	13.73
HGP0060AW3S000P	60	77	20	675	37.58	39.15	13.73
HGP0075AW3S000P	75	96	25	650	37.58	39.15	13.73
HGP0100AW3S000P	100	124	30	750	37.58	39.15	13.73
HGP0125AW3S000P	125	156	40	1000	37.58	39.15	13.73
HGP0150AW3S000P	150	180	45	1200	52.58	39.07	17.73
HGP0200AW3S000P	200	240	60	1600	52.58	39.07	17.73

HarmonicGuard Passive Filter (HGP)

480 V Type 3R Contactor, Heater, with PQconnect over Modbus RTU

Type 3R Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)		
					Height	Width	Depth
HGP0005AW3C100H	5	7.6	1.2	150	33.24	33	13.73
HGP0008AW3C100H	7.5	11	3	150	33.24	33	13.73
HGP0010AW3C100H	10	14	3	175	33.24	33	13.73
HGP0015AW3C100H	15	21	5	250	33.24	33	13.73
HGP0020AW3C100H	20	27	6	275	33.24	33	13.73
HGP0025AW3C100H	25	34	8	250	33.24	33	13.73
HGP0030AW3C100H	30	40	10	300	33.24	33	13.73
HGP0040AW3C100H	40	52	15	500	37.58	39.15	13.73
HGP0050AW3C100H	50	65	15	550	37.58	39.15	13.73
HGP0060AW3C100H	60	77	20	675	37.58	39.15	13.73
HGP0075AW3C100H	75	96	25	650	37.58	39.15	13.73
HGP0100AW3C100H	100	124	30	750	37.58	39.15	13.73
HGP0125AW3C100H	125	156	40	1000	37.58	39.15	13.73
HGP0150AW3C100H	150	180	45	1200	52.58	39.07	17.73
HGP0200AW3C100H	200	240	60	1600	52.58	39.07	17.73
HGP0250AW3C100H	250	302	75	1800	53.86	45.14	21.73
HGP0300AW3C100H	300	361	90	2100	53.86	45.14	21.73
HGP0350AW3C100H	350	414	105	2200	53.86	45.14	21.73
HGP0400AW3C100H	400	477	120	2600	65.77	57.13	26.32
HGP0450AW3C100H	450	515	135	2800	65.77	57.13	26.32
HGP0500AW3C100H	500	590	150	3100	65.77	57.13	26.32
HGP0600AW3C100H	600	720	180	2700	65.77	57.13	26.32
HGP0700AW3C100H	700	840	210	2900	80.22	72.06	30
HGP0800AW3C100H	800	960	240	3000	80.22	72.06	30
HGP0900AW3C100H	900	1080	270	3300	80.22	72.06	30

480 V Type 3R with Contactor & Heater

Type 3R Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)		
					Height	Width	Depth
HGP0005AW3C000H	5	7.6	1.2	150	33.24	33	13.73
HGP0008AW3C000H	7.5	11	3	150	33.24	33	13.73
HGP0010AW3C000H	10	14	3	175	33.24	33	13.73
HGP0015AW3C000H	15	21	5	250	33.24	33	13.73
HGP0020AW3C000H	20	27	6	275	33.24	33	13.73
HGP0025AW3C000H	25	34	8	250	33.24	33	13.73
HGP0030AW3C000H	30	40	10	300	33.24	33	13.73
HGP0040AW3C000H	40	52	15	500	37.58	39.15	13.73
HGP0050AW3C000H	50	65	15	550	37.58	39.15	13.73
HGP0060AW3C000H	60	77	20	675	37.58	39.15	13.73
HGP0075AW3C000H	75	96	25	650	37.58	39.15	13.73
HGP0100AW3C000H	100	124	30	750	37.58	39.15	13.73
HGP0125AW3C000H	125	156	40	1000	37.58	39.15	13.73
HGP0150AW3C000H	150	180	45	1200	52.58	39.07	17.73
HGP0200AW3C000H	200	240	60	1600	52.58	39.07	17.73
HGP0250AW3C000H	250	302	75	1800	53.86	45.14	21.73
HGP0300AW3C000H	300	361	90	2100	53.86	45.14	21.73
HGP0350AW3C000H	350	414	105	2200	53.86	45.14	21.73
HGP0400AW3C000H	400	477	120	2600	65.77	57.13	26.32
HGP0450AW3C000H	450	515	135	2800	65.77	57.13	26.32
HGP0500AW3C000H	500	590	150	3100	65.77	57.13	26.32
HGP0600AW3C000H	600	720	180	2700	65.77	57.13	26.32
HGP0700AW3C000H	700	840	210	2900	80.22	72.06	30
HGP0800AW3C000H	800	960	240	3000	80.22	72.06	30
HGP0900AW3C000H	900	1080	270	3300	80.22	72.06	30

HarmonicGuard Passive Filter (HGP)

600 V Open with Contactor

Open Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)		
					Height	Width	Depth
HGP0015CW0C0000	15	17	5	190	30.75	17	11.5
HGP0030CW0C0000	30	32	10	340	30.75	17	11.5
HGP0040CW0C0000	40	41	15	430	30.75	17	17
HGP0050CW0C0000	50	52	15	520	30.75	17	17
HGP0060CW0C0000	60	62	20	600	30.75	17	17
HGP0075CW0C0000	75	77	25	720	30.75	17	17
HGP0100CW0C0000	100	99	30	890	50	17	13.04
HGP0125CW0C0000	125	125	40	1040	50	17	13.04
HGP0150CW0C0000	150	144	45	1160	50	17	13.04
HGP0200CW0C0000	200	192	60	1370	68.5	17	14.82
HGP0250CW0C0000	250	242	75	1520	68.5	17	14.82
HGP0300CW0C0000	300	289	90	1630	40	40	20.54
HGP0350CW0C0000	350	336	105	1690	40	40	20.54
HGP0400CW0C0000	400	382	120	1710	40	40	20.54
HGP0450CW0C0000	450	412	135	1710	45	45	24.86
HGP0500CW0C0000	500	472	150	1710	45	45	24.86
HGP0600CW0C0000	600	576	180	1770	45	45	24.86
HGP0700CW0C0000	700	672	210	2030	*	*	*
HGP0800CW0C0000	800	768	240	2420	*	*	*
HGP0900CW0C0000	900	864	270	2420	*	*	*

600 V Type 1 w/ Contactor and PQconnect over Modbus RTU

Type 1 Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)		
					Height	Width	Depth
HGP0015CW1C1000	15	17	5	190	32.3	17.49	12.54
HGP0030CW1C1000	30	32	10	340	32.3	17.49	12.54
HGP0040CW1C1000	40	41	15	430	32.3	17.49	12.54
HGP0050CW1C1000	50	52	15	520	32.3	17.49	12.54
HGP0060CW1C1000	60	62	20	600	32.3	17.49	12.54
HGP0075CW1C1000	75	77	25	720	32.3	17.49	12.54
HGP0100CW1C1000	100	99	30	890	56.15	17.66	16.48
HGP0125CW1C1000	125	125	40	1040	56.15	17.66	16.48
HGP0150CW1C1000	150	144	45	1160	56.15	17.66	16.48
HGP0200CW1C1000	200	192	60	1370	71.58	20.59	20
HGP0250CW1C1000	250	242	75	1520	71.58	20.59	20
HGP0300CW1C1000	300	289	90	1630	62.57	52	26.17
HGP0350CW1C1000	350	336	105	1690	62.57	52	26.17
HGP0400CW1C1000	400	382	120	1710	62.57	52	26.17
HGP0450CW1C1000	450	412	135	1710	62.57	52	26.17
HGP0500CW1C1000	500	472	150	1710	62.57	52	26.17
HGP0600CW1C1000	600	576	180	1770	62.57	52	26.17
HGP0700CW1C1000	700	672	210	2030	*	*	*
HGP0800CW1C1000	800	768	240	2420	*	*	*
HGP0900CW1C1000	900	864	270	2420	*	*	*

HarmonicGuard Passive Filter (HGP)

600 V Type 1 with Contactor

Type 1 Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)		
					Height	Width	Depth
HGP0015CW1C0000	15	17	5	190	32.3	17.49	12.54
HGP0030CW1C0000	30	32	10	340	32.3	17.49	12.54
HGP0040CW1C0000	40	41	15	430	32.3	17.49	12.54
HGP0050CW1C0000	50	52	15	520	32.3	17.49	12.54
HGP0060CW1C0000	60	62	20	600	32.3	17.49	12.54
HGP0075CW1C0000	75	77	25	720	32.3	17.49	12.54
HGP0100CW1C0000	100	99	30	890	56.15	17.66	16.48
HGP0125CW1C0000	125	125	40	1040	56.15	17.66	16.48
HGP0150CW1C0000	150	144	45	1160	56.15	17.66	16.48
HGP0200CW1C0000	200	192	60	1370	71.58	20.59	20
HGP0250CW1C0000	250	242	75	1520	71.58	20.59	20
HGP0300CW1C0000	300	289	90	1630	62.57	52	26.17
HGP0350CW1C0000	350	336	105	1690	62.57	52	26.17
HGP0400CW1C0000	400	382	120	1710	62.57	52	26.17
HGP0450CW1C0000	450	412	135	1710	62.57	52	26.17
HGP0500CW1C0000	500	472	150	1710	62.57	52	26.17
HGP0600CW1C0000	600	576	180	1770	62.57	52	26.17
HGP0700CW1C0000	700	672	210	2030	*	*	*
HGP0800CW1C0000	800	768	240	2420	*	*	*
HGP0900CW1C0000	900	864	270	2420	*	*	*

600 V Type 3R Contactor, Heater, PQconnect over Modbus RTU

Type 3R Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)		
					Height	Width	Depth
HGP0015CW3C100H	15	17	5	190	32.3	17.49	12.54
HGP0030CW3C100H	30	32	10	340	32.3	17.49	12.54
HGP0040CW3C100H	40	41	15	430	32.3	17.49	12.54
HGP0050CW3C100H	50	52	15	520	32.3	17.49	12.54
HGP0060CW3C100H	60	62	20	600	32.3	17.49	12.54
HGP0075CW3C100H	75	77	25	720	32.3	17.49	12.54
HGP0100CW3C100H	100	99	30	890	56.15	17.66	16.48
HGP0125CW3C100H	125	125	40	1040	56.15	17.66	16.48
HGP0150CW3C100H	150	144	45	1160	56.15	17.66	16.48
HGP0200CW3C100H	200	192	60	1370	71.58	20.59	20
HGP0250CW3C100H	250	242	75	1520	71.58	20.59	20
HGP0300CW3C100H	300	289	90	1630	62.57	52	26.17
HGP0350CW3C100H	350	336	105	1690	62.57	52	26.17
HGP0400CW3C100H	400	382	120	1710	62.57	52	26.17
HGP0450CW3C100H	450	412	135	1710	62.57	52	26.17
HGP0500CW3C100H	500	472	150	1710	62.57	52	26.17
HGP0600CW3C100H	600	576	180	1770	62.57	52	26.17
HGP0700CW3C100H	700	672	210	2030	*	*	*
HGP0800CW3C100H	800	768	240	2420	*	*	*
HGP0900CW3C100H	900	864	270	2420	*	*	*

HarmonicGuard Passive Filter (HGP)

600 V Type 3R w/ Contactor and PQconnect over Modbus RTU

Type 3R Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)		
					Height	Width	Depth
HGP0015CW3C1000	15	17	5	190	32.82	33.25	13.74
HGP0030CW3C1000	30	32	10	340	32.82	33.25	13.74
HGP0040CW3C1000	40	41	15	430	37.58	39.45	13.73
HGP0050CW3C1000	50	52	15	520	37.58	39.45	13.73
HGP0060CW3C1000	60	62	20	600	37.58	39.45	13.73
HGP0075CW3C1000	75	77	25	720	37.58	39.45	13.73
HGP0100CW3C1000	100	99	30	890	37.58	39.45	13.73
HGP0125CW3C1000	125	125	40	1040	37.58	39.45	13.73
HGP0150CW3C1000	150	144	45	1160	52.58	39.45	17.73
HGP0200CW3C1000	200	192	60	1370	52.58	39.45	17.73
HGP0250CW3C1000	250	242	75	1520	52.58	45.40	21.65
HGP0300CW3C1000	300	289	90	1630	52.58	52.58	52.58
HGP0350CW3C1000	350	336	105	1690	65.69	57.42	26.14
HGP0400CW3C1000	400	382	120	1710	65.69	57.42	26.14
HGP0450CW3C1000	450	412	135	1710	65.69	57.42	26.14
HGP0500CW3C1000	500	472	150	1710	65.69	57.42	26.14
HGP0600CW3C1000	600	576	180	1770	65.69	57.42	26.14
HGP0700CW3C1000	700	672	210	2030	*	*	*
HGP0800CW3C1000	800	768	240	2420	*	*	*
HGP0900CW3C1000	900	864	270	2420	*	*	*

600 V Type 3R with Contactor

Type 3R Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)		
					Height	Width	Depth
HGP0015CW3C0000	15	17	5	190	32.82	33.25	13.74
HGP0030CW3C0000	30	32	10	340	32.82	33.25	13.74
HGP0040CW3C0000	40	41	15	430	37.58	39.45	13.73
HGP0050CW3C0000	50	52	15	520	37.58	39.45	13.73
HGP0060CW3C0000	60	62	20	600	37.58	39.45	13.73
HGP0075CW3C0000	75	77	25	720	37.58	39.45	13.73
HGP0100CW3C0000	100	99	30	890	37.58	39.45	13.73
HGP0125CW3C0000	125	125	40	1040	37.58	39.45	13.73
HGP0150CW3C0000	150	144	45	1160	52.58	39.45	17.73
HGP0200CW3C0000	200	192	60	1370	52.58	39.45	17.73
HGP0250CW3C0000	250	242	75	1520	52.58	45.40	21.65
HGP0300CW3C0000	300	289	90	1630	52.58	52.58	52.58
HGP0350CW3C0000	350	336	105	1690	65.69	57.42	26.14
HGP0400CW3C0000	400	382	120	1710	65.69	57.42	26.14
HGP0450CW3C0000	450	412	135	1710	65.69	57.42	26.14
HGP0500CW3C0000	500	472	150	1710	65.69	57.42	26.14
HGP0600CW3C0000	600	576	180	1770	65.69	57.42	26.14
HGP0700CW3C0000	700	672	210	2030	*	*	*
HGP0800CW3C0000	800	768	240	2420	*	*	*
HGP0900CW3C0000	900	864	270	2420	*	*	*

HarmonicGuard Passive Filter (HGP)

600 V Type 3R with Contactor, Heater and PQconnect

Type 3R Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)		
					Height	Width	Depth
HGP0015CW3C100H	15	17	5	190	32.82	33.25	13.74
HGP0030CW3C100H	30	32	10	340	32.82	33.25	13.74
HGP0040CW3C100H	40	41	15	430	37.58	39.45	13.73
HGP0050CW3C100H	50	52	15	520	37.58	39.45	13.73
HGP0060CW3C100H	60	62	20	600	37.58	39.45	13.73
HGP0075CW3C100H	75	77	25	720	37.58	39.45	13.73
HGP0100CW3C100H	100	99	30	890	37.58	39.45	13.73
HGP0125CW3C100H	125	125	40	1040	37.58	39.45	13.73
HGP0150CW3C100H	150	144	45	1160	52.58	39.45	17.73
HGP0200CW3C100H	200	192	60	1370	52.58	39.45	17.73
HGP0250CW3C100H	250	242	75	1520	52.58	45.40	21.65
HGP0300CW3C100H	300	289	90	1630	52.58	52.58	52.58
HGP0350CW3C100H	350	336	105	1690	65.69	57.42	26.14
HGP0400CW3C100H	400	382	120	1710	65.69	57.42	26.14
HGP0450CW3C100H	450	412	135	1710	65.69	57.42	26.14
HGP0500CW3C100H	500	472	150	1710	65.69	57.42	26.14
HGP0600CW3C100H	600	576	180	1770	65.69	57.42	26.14
HGP0700CW3C100H	700	672	210	2030	*	*	*
HGP0800CW3C100H	800	768	240	2420	*	*	*
HGP0900CW3C100H	900	864	270	2420	*	*	*

600 V Type 3R with Contactor and Heater

Type 3R Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)		
					Height	Width	Depth
HGP0015CW3C000H	15	17	5	190	32.82	33.25	13.74
HGP0030CW3C000H	30	32	10	340	32.82	33.25	13.74
HGP0040CW3C000H	40	41	15	430	37.58	39.45	13.73
HGP0050CW3C000H	50	52	15	520	37.58	39.45	13.73
HGP0060CW3C000H	60	62	20	600	37.58	39.45	13.73
HGP0075CW3C000H	75	77	25	720	37.58	39.45	13.73
HGP0100CW3C000H	100	99	30	890	37.58	39.45	13.73
HGP0125CW3C000H	125	125	40	1040	37.58	39.45	13.73
HGP0150CW3C000H	150	144	45	1160	52.58	39.45	17.73
HGP0200CW3C000H	200	192	60	1370	52.58	39.45	17.73
HGP0250CW3C000H	250	242	75	1520	52.58	45.40	21.65
HGP0300CW3C000H	300	289	90	1630	52.58	52.58	52.58
HGP0350CW3C000H	350	336	105	1690	65.69	57.42	26.14
HGP0400CW3C000H	400	382	120	1710	65.69	57.42	26.14
HGP0450CW3C000H	450	412	135	1710	65.69	57.42	26.14
HGP0500CW3C000H	500	472	150	1710	65.69	57.42	26.14
HGP0600CW3C000H	600	576	180	1770	65.69	57.42	26.14
HGP0700CW3C000H	700	672	210	2030	*	*	*
HGP0800CW3C000H	800	768	240	2420	*	*	*
HGP0900CW3C000H	900	864	270	2420	*	*	*

HarmonicGuard Passive Filter (HGP)

240 V Open with Contactor and PQconnect

Open Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)		
					Height	Width	Depth
HGP0008BW0C1000	7.5	22	2	250	19.75	17	10.65
HGP0010BW0C1000	10	28	2.5	300	30.75	17	11.38
HGP0015BW0C1000	15	42	3.8	550	30.75	17	11.5
HGP0020BW0C1000	20	54	5	675	30.75	17	11.5
HGP0025BW0C1000	25	68	6.3	650	30.75	17	11.5
HGP0030BW0C1000	30	80	7.5	750	56	17	11.5
HGP0040BW0C1000	40	104	10	1000	56	17	13.13
HGP0050BW0C1000	50	130	11.3	1200	56	17	13.13
HGP0060BW0C1000	60	154	15.1	1600	67	17	13.5
HGP0075BW0C1000	75	192	18.8	1800	67	17	13.5
HGP0100BW0C1000	100	248	22.6	2100	67	17.31	14.5

240 V Open with Contactor

Open Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)		
					Height	Width	Depth
HGP0008BW0C0000	7.5	22	2	240	19.75	17	10.65
HGP0010BW0C0000	10	28	2.5	290	30.75	17	11.38
HGP0015BW0C0000	15	42	3.8	540	30.75	17	11.5
HGP0020BW0C0000	20	54	5	665	30.75	17	11.5
HGP0025BW0C0000	25	68	6.3	640	30.75	17	11.5
HGP0030BW0C0000	30	80	7.5	740	56	17	11.5
HGP0040BW0C0000	40	104	10	990	56	17	13.13
HGP0050BW0C0000	50	130	11.3	1190	56	17	13.13
HGP0060BW0C0000	60	154	15.1	1590	67	17	13.5
HGP0075BW0C0000	75	192	18.8	1790	67	17	13.5
HGP0100BW0C0000	100	248	22.6	2090	67	17.31	14.5

240 V Type 1 with Contactor and PQconnect

Type 1 Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)		
					Height	Width	Depth
HGP0008BW1C1000	7.5	22	2	250	20.52	17.62	12.52
HGP0010BW1C1000	10	28	2.5	300	31.55	17.5	12.54
HGP0015BW1C1000	15	42	3.8	550	31.55	17.5	12.54
HGP0020BW1C1000	20	54	5	675	31.55	17.5	12.54
HGP0025BW1C1000	25	68	6.3	650	31.55	17.5	12.54
HGP0030BW1C1000	30	80	7.5	750	56.15	17.66	16.33
HGP0040BW1C1000	40	104	10	1000	56.15	17.66	16.33
HGP0050BW1C1000	50	130	11.3	1200	56.15	17.66	16.33
HGP0060BW1C1000	60	154	15.1	1600	70	20	20
HGP0075BW1C1000	75	192	18.8	1800	70	20	20
HGP0100BW1C1000	100	248	22.6	2100	70	20	20

HarmonicGuard Passive Filter (HGP)

240 V Type 1 with Contactor

Type 1 Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)		
					Height	Width	Depth
HGP0008BW1C0000	7.5	22	2	240	20.52	17.62	12.52
HGP0010BW1C0000	10	28	2.5	290	31.55	17.5	12.54
HGP0015BW1C0000	15	42	3.8	540	31.55	17.5	12.54
HGP0020BW1C0000	20	54	5	665	31.55	17.5	12.54
HGP0025BW1C0000	25	68	6.3	640	31.55	17.5	12.54
HGP0030BW1C0000	30	80	7.5	740	56.15	17.66	16.33
HGP0040BW1C0000	40	104	10	990	56.15	17.66	16.33
HGP0050BW1C0000	50	130	11.3	1190	56.15	17.66	16.33
HGP0060BW1C0000	60	154	15.1	1590	70	20	20
HGP0075BW1C0000	75	192	18.8	1790	70	20	20
HGP0100BW1C0000	100	248	22.6	2090	70	20	20

240 V Type 3R with Contactor and PQconnect

Type 3R Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)		
					Height	Width	Depth
HGP0008BW3C1000	7.5	22	2	250	33.24	33	13.73
HGP0010BW3C1000	10	28	2.5	300	33.24	33	13.73
HGP0015BW3C1000	15	42	3.8	550	37.58	39.15	13.73
HGP0020BW3C1000	20	54	5	675	37.58	39.15	13.73
HGP0025BW3C1000	25	68	6.3	650	37.58	39.15	13.73
HGP0030BW3C1000	30	80	7.5	750	37.58	39.15	13.73
HGP0040BW3C1000	40	104	10	1000	37.58	39.15	13.73
HGP0050BW3C1000	50	130	11.3	1200	52.58	39.07	17.73
HGP0060BW3C1000	60	154	15.1	1600	52.58	39.07	17.73
HGP0075BW3C1000	75	192	18.8	1800	53.86	45.14	21.73
HGP0100BW3C1000	100	248	22.6	2100	53.86	45.14	21.73

240 V Type 3R with Contactor

Type 3R Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)		
					Height	Width	Depth
HGP0008BW3C0000	7.5	22	2	240	33.24	33	13.73
HGP0010BW3C0000	10	28	2.5	290	33.24	33	13.73
HGP0015BW3C0000	15	42	3.8	540	37.58	39.15	13.73
HGP0020BW3C0000	20	54	5	665	37.58	39.15	13.73
HGP0025BW3C0000	25	68	6.3	640	37.58	39.15	13.73
HGP0030BW3C0000	30	80	7.5	740	37.58	39.15	13.73
HGP0040BW3C0000	40	104	10	990	37.58	39.15	13.73
HGP0050BW3C0000	50	130	11.3	1190	52.58	39.07	17.73
HGP0060BW3C0000	60	154	15.1	1590	52.58	39.07	17.73
HGP0075BW3C0000	75	192	18.8	1790	53.86	45.14	21.73
HGP0100BW3C0000	100	248	22.6	2090	53.86	45.14	21.73

HarmonicGuard Passive Filter (HGP)

208 V Open with Contactor and PQconnect

Open Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)		
					Height	Width	Depth
HGP0008DW0C1000	7.5	24.2	1.9	250	19.75	17	10.65
HGP0010DW0C1000	10	30.8	2.8	300	30.75	17	11.38
HGP0015DW0C1000	15	46.2	3.8	550	30.75	17	11.5
HGP0020DW0C1000	20	59.4	4.7	675	30.75	17	11.5
HGP0025DW0C1000	25	74.8	5.7	650	30.75	17	11.5
HGP0030DW0C1000	30	88	7.5	750	56	17	11.5
HGP0040DW0C1000	40	114	11.3	1000	56	17	13.13
HGP0050DW0C1000	50	143	11.3	1200	56	17	13.13
HGP0060DW0C1000	60	169	14.1	1600	67	17	13.5
HGP0075DW0C1000	75	211	17	1800	67	17	13.5
HGP0100DW0C1000	100	273	22.5	2100	67	17.31	14.5

208 V Open with Contactor

Open Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)		
					Height	Width	Depth
HGP0008DW0C0000	7.5	24.2	1.9	240	19.75	17	10.65
HGP0010DW0C0000	10	30.8	2.8	290	30.75	17	11.38
HGP0015DW0C0000	15	46.2	3.8	540	30.75	17	11.5
HGP0020DW0C0000	20	59.4	4.7	665	30.75	17	11.5
HGP0025DW0C0000	25	74.8	5.7	640	30.75	17	11.5
HGP0030DW0C0000	30	88	7.5	740	56	17	11.5
HGP0040DW0C0000	40	114	11.3	990	56	17	13.13
HGP0050DW0C0000	50	143	11.3	1190	56	17	13.13
HGP0060DW0C0000	60	169	14.1	1590	67	17	13.5
HGP0075DW0C0000	75	211	17	1790	67	17	13.5
HGP0100DW0C0000	100	273	22.5	2090	67	17.31	14.5

208 V Type 1 with Contactor and PQconnect

Type 1 Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)		
					Height	Width	Depth
HGP0008DW1C1000	7.5	24.2	1.9	250	20.52	17.62	12.52
HGP0010DW1C1000	10	30.8	2.8	300	31.55	17.5	12.54
HGP0015DW1C1000	15	46.2	3.8	550	31.55	17.5	12.54
HGP0020DW1C1000	20	59.4	4.	675	31.55	17.5	12.54
HGP0025DW1C1000	25	74.8	5.7	650	31.55	17.5	12.54
HGP0030DW1C1000	30	88	7.5	750	56.15	17.66	16.33
HGP0040DW1C1000	40	114	11.3	1000	56.15	17.66	16.33
HGP0050DW1C1000	50	143	11.3	1200	56.15	17.66	16.33
HGP0060DW1C1000	60	169	14.1	1600	70	20	20
HGP0075DW1C1000	75	211	17	1800	70	20	20
HGP0100DW1C1000	100	273	22.5	2100	70	20	20

HarmonicGuard Passive Filter (HGP)

208 V Type 1 with Contactor

Type 1 Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)		
					Height	Width	Depth
HGP0008DW1C0000	7.5	24.2	1.9	240	20.52	17.62	12.52
HGP0010DW1C0000	10	30.8	2.8	290	31.55	17.5	12.54
HGP0015DW1C0000	15	46.2	3.8	540	31.55	17.5	12.54
HGP0020DW1C0000	20	59.4	4.	665	31.55	17.5	12.54
HGP0025DW1C0000	25	74.8	5.7	640	31.55	17.5	12.54
HGP0030DW1C0000	30	88	7.5	740	56.15	17.66	16.33
HGP0040DW1C0000	40	114	11.3	990	56.15	17.66	16.33
HGP0050DW1C0000	50	143	11.3	1190	56.15	17.66	16.33
HGP0060DW1C0000	60	169	14.1	1590	70	20	20
HGP0075DW1C0000	75	211	17	1790	70	20	20
HGP0100DW1C0000	100	273	22.5	2090	70	20	20

208 V Type 3R with Contactor and PQconnect

Type 3R Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)		
					Height	Width	Depth
HGP0008DW3C1000	7.5	24.2	1.9	250	33.24	33	13.73
HGP0010DW3C1000	10	30.8	2.8	300	33.24	33	13.73
HGP0015DW3C1000	15	46.2	3.8	550	37.58	39.15	13.73
HGP0020DW3C1000	20	59.4	4.7	675	37.58	39.15	13.73
HGP0025DW3C1000	25	74.8	5.7	650	37.58	39.15	13.73
HGP0030DW3C1000	30	88	7.5	750	37.58	39.15	13.73
HGP0040DW3C1000	40	114	11.3	1000	37.58	39.15	13.73
HGP0050DW3C1000	50	143	11.3	1200	52.58	39.07	17.73
HGP0060DW3C1000	60	169	14.1	1600	52.58	39.07	17.73
HGP0075DW3C1000	75	211	17	1800	53.86	45.14	21.73
HGP0100DW3C1000	100	273	22.5	2100	53.86	45.14	21.73

208 V Type 3R with Contactor

Type 3R Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)		
					Height	Width	Depth
HGP0008DW3C0000	7.5	24.2	1.9	240	33.24	33	13.73
HGP0010DW3C0000	10	30.8	2.8	290	33.24	33	13.73
HGP0015DW3C0000	15	46.2	3.8	540	37.58	39.15	13.73
HGP0020DW3C0000	20	59.4	4.7	665	37.58	39.15	13.73
HGP0025DW3C0000	25	74.8	5.7	640	37.58	39.15	13.73
HGP0030DW3C0000	30	88	7.5	740	37.58	39.15	13.73
HGP0040DW3C0000	40	114	11.3	990	37.58	39.15	13.73
HGP0050DW3C0000	50	143	11.3	1190	52.58	39.07	17.73
HGP0060DW3C0000	60	169	14.1	1590	52.58	39.07	17.73
HGP0075DW3C0000	75	211	17	1790	53.86	45.14	21.73
HGP0100DW3C0000	100	273	22.5	2090	53.86	45.14	21.73

HarmonicShield (HSD)

Harmonics produced on an electric power system from non-linear loads can adversely affect system infrastructure and loads. TCI's HarmonicShield™ (HSD) is a series drive-applied passive harmonic filter that limits current harmonic distortion to less than 5% over a wide load range. Due to the effects of harmonics distortion from variable frequency drives (VFD), IEEE 519-2014 standards require various levels of harmonic mitigation. The HSD reduces current THD to less than 5%.



The HSD offers industry leading performance even at light loads and under the harshest of conditions. The HSD filter is a stand-alone input device that is furnished in its own enclosure and mounted adjacent to the drive/VFD. It is designed to reduce harmonics caused by drives and VFDs.

Features of the HSD:

- Limits current harmonic distortion to less than 5% over a wide load range
- IEEE 519-2014 compliant
- Cost effective, maintenance-free filter design - no mechanical adjustments needed
- Convection cooled enclosure
- 3 HP-600 HP range
- 480 VAC; 600 VAC

Quality Components

- Optional Contactor
- Optional Lugs
- UL Type 1 or Type 3R Transformer Style Enclosure
- RoHS / RoHS II compliant

SCCR Marking

Note: The HarmonicShield filter is UL Listed as an Auxiliary Device in accordance with Part X of UL 508 Standard for Industrial Control Equipment and does not require a SCCR or marking. HSD is not an Industrial Control Panel and so does not require a Short Circuit Current Rating such as is required of Industrial Control Panels to be in compliance with NFPA NEC Article 409. For applications requiring a SCCR, TCI offers the HGP product which features the same performance as the HSD and is an Industrial Control Panel with a true SCCR rating of 100ka.

	HSD 0150 A W 3 0 0 0 0
Series	HSD
Horse Power	0150
Voltage Rating	A
A - 480 V	
C - 600 V	
Frequency	W
W - 60 Hz	
Enclosure	3
1 - UL Type 1	
3 - UL Type 3R	
Option	0
0 - No contactor	
1 - With contactor	
Option	0
0 - Standard, no lugs	
1 - Lugs	
Option	0
0 - Standard	
Option	0
0 - Standard	

HarmonicShield (HSD)

480 V UL Type 1

UL Type 1 Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.) Height	Width	Depth	Weight (lbs)	UL Type 1 with Lugs	Lug Kit
HSD0003AW10000	3	6.5	1	110	19.13	15.50	19.50	60	n/a	n/a
HSD0005AW10000	5	8	1	150	19.13	15.50	19.50	60	n/a	n/a
HSD0008AW10000	8	12	3	150	19.13	15.50	19.50	77	n/a	n/a
HSD0010AW10000	10	16	3	175	19.13	15.50	19.50	77	n/a	n/a
HSD0015AW10000	15	23	5	250	22.13	20.43	28.50	85	n/a	n/a
HSD0020AW10000	20	31	6	275	22.13	20.43	28.50	90	n/a	n/a
HSD0025AW10000	25	38	8	250	22.13	20.43	28.50	93	n/a	n/a
HSD0030AW10000	30	49	10	300	22.13	20.43	28.50	102	n/a	n/a
HSD0040AW10000	40	62	15	500	36.00	28.40	36.86	143	n/a	n/a
HSD0050AW10000	50	73	15	550	36.00	28.40	36.86	143	n/a	n/a
HSD0060AW10000	60	85	20	675	36.00	28.40	36.86	185	n/a	n/a
HSD0075AW10000	75	105	25	650	36.00	28.40	36.86	186	HSD0075AW10100	LK00
HSD0100AW10000	100	140	30	750	36.00	28.40	36.86	235	HSD0100AW10100	LK01
HSD0125AW10000	125	170	40	1000	36.00	28.40	36.86	300	HSD0125AW10100	LK02
HSD0150AW10000	150	209	45	1200	36.00	28.40	36.86	346	HSD0150AW10100	LK03
HSD0200AW10000	200	257	60	1600	56.00	40.60	48.50	500	HSD0200AW10100	LK03
HSD0250AW10000	250	321	75	1800	56.00	40.60	48.50	503	HSD0250AW10100	LK03
HSD0300AW10000	300	405	90	2100	56.00	40.60	48.50	765	HSD0300AW10100	LK04
HSD0350AW10000	350	445	105	2200	56.00	40.60	48.50	805	HSD0350AW10100	LK04
HSD0400AW10000	400	483	120	2600	56.00	40.60	48.50	960	HSD0400AW10100	LK04
HSD0450AW10000	450	540	150	2800	56.00	40.60	48.50	1115	HSD0450AW10100	LK05
HSD0500AW10000	500	637	150	3100	56.00	40.60	48.50	1125	HSD0500AW10100	LK05
HSD0600AW10000	600	790	181	2700	56.00	40.60	48.50	1195	HSD0600AW10100	LK06

480 V UL Type 1 with Contactor

UL Type 1 Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.) Height	Width	Depth	Weight (lbs)	UL Type 1 with Lugs	Lug Kit
HSD0003AW11000	3	6.5	1	110	19.13	15.50	19.50	63	n/a	n/a
HSD0005AW11000	5	8	1	150	19.13	15.50	19.50	63	n/a	n/a
HSD0008AW11000	8	12	3	150	19.13	15.50	19.50	80	n/a	n/a
HSD0010AW11000	10	16	3	175	19.13	15.50	19.50	80	n/a	n/a
HSD0015AW11000	15	23	5	250	22.13	20.43	28.50	88	n/a	n/a
HSD0020AW11000	20	31	6	275	22.13	20.43	28.50	93	n/a	n/a
HSD0025AW11000	25	38	8	250	22.13	20.43	28.50	95	n/a	n/a
HSD0030AW11000	30	49	10	300	22.13	20.43	28.50	105	n/a	n/a
HSD0040AW11000	40	62	15	500	36.00	28.40	36.86	146	n/a	n/a
HSD0050AW11000	50	73	15	550	36.00	28.40	36.86	146	n/a	n/a
HSD0060AW11000	60	85	20	675	36.00	28.40	36.86	188	n/a	n/a
HSD0075AW11000	75	105	25	650	36.00	28.40	36.86	189	HSD0075AW11100	LK00
HSD0100AW11000	100	140	30	750	36.00	28.40	36.86	238	HSD0100AW11100	LK01
HSD0125AW11000	125	170	40	1000	36.00	28.40	36.86	305	HSD0125AW11100	LK02
HSD0150AW11000	150	209	45	1200	36.00	28.40	36.86	350	HSD0150AW11100	LK03
HSD0200AW11000	200	257	60	1600	56.00	40.60	48.50	510	HSD0200AW11100	LK03
HSD0250AW11000	250	321	75	1800	56.00	40.60	48.50	512	HSD0250AW11100	LK03
HSD0300AW11000	300	405	90	2100	56.00	40.60	48.50	780	HSD0300AW11100	LK04
HSD0350AW11000	350	445	105	2200	56.00	40.60	48.50	819	HSD0350AW11100	LK04
HSD0400AW11000	400	483	120	2600	56.00	40.60	48.50	975	HSD0400AW11100	LK04
HSD0450AW11000	450	540	150	2800	56.00	40.60	48.50	1130	HSD0450AW11100	LK05
HSD0500AW11000	500	637	150	3100	56.00	40.60	48.50	1140	HSD0500AW11100	LK05
HSD0600AW11000	600	790	181	2700	56.00	40.60	48.50	1220	HSD0600AW11100	LK06

HarmonicShield (HSD)

480 V UL Type 3R

UL Type 3R Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)			Weight (lbs)	UL Type 3R with Lugs	Lug Kit
					Height	Width	Depth			
HSD0003AW30000	3	6.5	1	110	19.13	15.50	19.50	60	n/a	n/a
HSD0005AW30000	5	8	1	150	19.13	15.50	19.50	60	n/a	n/a
HSD0008AW30000	8	12	3	150	19.13	15.50	19.50	77	n/a	n/a
HSD0010AW30000	10	16	3	175	19.13	15.50	19.50	77	n/a	n/a
HSD0015AW30000	15	23	5	250	22.13	20.43	28.50	85	n/a	n/a
HSD0020AW30000	20	31	6	275	22.13	20.43	28.50	90	n/a	n/a
HSD0025AW30000	25	38	8	250	22.13	20.43	28.50	93	n/a	n/a
HSD0030AW30000	30	49	10	300	22.13	20.43	28.50	102	n/a	n/a
HSD0040AW30000	40	62	15	500	36.00	28.40	36.86	143	n/a	n/a
HSD0050AW30000	50	73	15	550	36.00	28.40	36.86	143	n/a	n/a
HSD0060AW30000	60	85	20	675	36.00	28.40	36.86	185	n/a	n/a
HSD0075AW30000	75	105	25	650	36.00	28.40	36.86	186	HSD0075AW30100	LK00
HSD0100AW30000	100	140	30	750	36.00	28.40	36.86	235	HSD0100AW30100	LK01
HSD0125AW30000	125	170	40	1000	36.00	28.40	36.86	300	HSD0125AW30100	LK02
HSD0150AW30000	150	209	45	1200	36.00	28.40	36.86	346	HSD0150AW30100	LK03
HSD0200AW30000	200	257	60	1600	56.00	40.60	48.50	500	HSD0200AW30100	LK03
HSD0250AW30000	250	321	75	1800	56.00	40.60	48.50	503	HSD0250AW30100	LK03
HSD0300AW30000	300	405	90	2100	56.00	40.60	48.50	765	HSD0300AW30100	LK04
HSD0350AW30000	350	445	105	2200	56.00	40.60	48.50	805	HSD0350AW30100	LK04
HSD0400AW30000	400	483	120	2600	56.00	40.60	48.50	960	HSD0400AW30100	LK04
HSD0450AW30000	450	540	150	2800	56.00	40.60	48.50	1115	HSD0450AW30100	LK05
HSD0500AW30000	500	637	150	3100	56.00	40.60	48.50	1125	HSD0500AW30100	LK05
HSD0600AW30000	600	790	181	2700	56.00	40.60	48.50	1195	HSD0600AW30100	LK06

480 V UL Type 3R with Contactor

UL Type 3R Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)			Weight (lbs)	UL Type 3R with Lugs	Lug Kit
					Height	Width	Depth			
HSD0003AW31000	3	6.5	1	110	19.13	15.50	19.50	63	n/a	n/a
HSD0005AW31000	5	8	1	150	19.13	15.50	19.50	63	n/a	n/a
HSD0008AW31000	8	12	3	150	19.13	15.50	19.50	80	n/a	n/a
HSD0010AW31000	10	16	3	175	19.13	15.50	19.50	80	n/a	n/a
HSD0015AW31000	15	23	5	250	22.13	20.43	28.50	88	n/a	n/a
HSD0020AW31000	20	31	6	275	22.13	20.43	28.50	93	n/a	n/a
HSD0025AW31000	25	38	8	250	22.13	20.43	28.50	95	n/a	n/a
HSD0030AW31000	30	49	10	300	22.13	20.43	28.50	105	n/a	n/a
HSD0040AW31000	40	62	15	500	36.00	28.40	36.86	146	n/a	n/a
HSD0050AW31000	50	73	15	550	36.00	28.40	36.86	146	n/a	n/a
HSD0060AW31000	60	85	20	675	36.00	28.40	36.86	188	n/a	n/a
HSD0075AW31000	75	105	25	650	36.00	28.40	36.86	189	HSD0075AW31100	LK00
HSD0100AW31000	100	140	30	750	36.00	28.40	36.86	238	HSD0100AW31100	LK01
HSD0125AW31000	125	170	40	1000	36.00	28.40	36.86	305	HSD0125AW31100	LK02
HSD0150AW31000	150	209	45	1200	36.00	28.40	36.86	350	HSD0150AW31100	LK03
HSD0200AW31000	200	257	60	1600	56.00	40.60	48.50	510	HSD0200AW31100	LK03
HSD0250AW31000	250	321	75	1800	56.00	40.60	48.50	512	HSD0250AW31100	LK03
HSD0300AW31000	300	405	90	2100	56.00	40.60	48.50	780	HSD0300AW31100	LK04
HSD0350AW31000	350	445	105	2200	56.00	40.60	48.50	819	HSD0350AW31100	LK04
HSD0400AW31000	400	483	120	2600	56.00	40.60	48.50	975	HSD0400AW31100	LK04
HSD0450AW31000	450	540	150	2800	56.00	40.60	48.50	1130	HSD0450AW31100	LK05
HSD0500AW31000	500	637	150	3100	56.00	40.60	48.50	1140	HSD0500AW31100	LK05
HSD0600AW31000	600	790	181	2700	56.00	40.60	48.50	1220	HSD0600AW31100	LK06

HarmonicShield (HSD)

600 V UL Type 1

UL Type 1 Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)			Weight (lbs)	UL Type 1 with Lugs	Lug Kit
					Height	Width	Depth			
HSD0003CW10000	3	3.7	1	110	25.12	15.43	19.50	60	n/a	n/a
HSD0005CW10000	5	6.1	1.6	150	25.12	15.43	19.50	60	n/a	n/a
HSD0008CW10000	8	9	2	150	25.12	15.43	19.50	77	n/a	n/a
HSD0010CW10000	10	11	3	175	25.12	15.43	19.50	77	n/a	n/a
HSD0015CW10000	15	17	5	250	25.12	15.43	19.50	85	n/a	n/a
HSD0020CW10000	20	21	6	275	25.12	15.43	19.50	90	n/a	n/a
HSD0025CW10000	25	28	8	250	25.12	15.43	19.50	93	n/a	n/a
HSD0030CW10000	30	34	10	300	25.12	15.43	19.50	102	n/a	n/a
HSD0040CW10000	40	44	15	500	25.12	15.43	19.50	143	n/a	n/a
HSD0050CW10000	50	53	15	550	25.12	15.43	19.50	143	n/a	n/a
HSD0060CW10000	60	66	20	675	22.12	20.43	28.50	185	n/a	n/a
HSD0075CW10000	75	83	25	650	22.12	20.43	28.50	186	n/a	n/a
HSD0100CW10000	100	103	30	750	22.12	20.43	28.50	235	HSD0100CW10100	LK00
HSD0125CW10000	125	129	40	1033	42.50	20.70	28.50	300	HSD0125CW10100	LK01
HSD0150CW10000	150	166	45	1126	42.50	20.70	28.50	346	HSD0150CW10100	LK02
HSD0200CW10000	200	209	60	1136	36.00	28.39	36.86	500	HSD0200CW10100	LK03
HSD0250CW10000	250	242	75	1184	36.00	28.39	36.86	503	HSD0250CW10100	LK03
HSD0300CW10000	300	321	90	1583	60.12	36.27	44.55	765	HSD0300CW10100	LK03
HSD0350CW10000	350	350	105	1745	60.12	36.27	44.55	805	HSD0350CW10100	LK04
HSD0400CW10000	400	404	120	2036	60.12	36.27	44.55	960	HSD0400CW10100	LK04
HSD0450CW10000	450	420	135	2111	60.12	36.27	44.55	1115	HSD0450CW10100	LK04
HSD0500CW10000	500	482	150	2341	60.12	36.27	44.55	1125	HSD0500CW10100	LK04
HSD0600CW10000	600	636	180	2700	60.12	36.27	44.55	1195	HSD0600CW10100	LK05

600 V UL Type 1 with Contactor

UL Type 1 Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)			Weight (lbs)	UL Type 1 with Lugs	Lug Kit
					Height	Width	Depth			
HSD0003CW11000	3	3.7	1	110	25.12	15.43	19.50	63	n/a	n/a
HSD0005CW11000	5	6.1	1.6	150	25.12	15.43	19.50	63	n/a	n/a
HSD0008CW11000	8	9	2	150	25.12	15.43	19.50	80	n/a	n/a
HSD0010CW11000	10	11	3	175	25.12	15.43	19.50	80	n/a	n/a
HSD0015CW11000	15	17	5	250	25.12	15.43	19.50	88	n/a	n/a
HSD0020CW11000	20	21	6	275	25.12	15.43	19.50	93	n/a	n/a
HSD0025CW11000	25	28	8	250	25.12	15.43	19.50	95	n/a	n/a
HSD0030CW11000	30	34	10	300	25.12	15.43	19.50	105	n/a	n/a
HSD0040CW11000	40	44	15	500	25.12	15.43	19.50	146	n/a	n/a
HSD0050CW11000	50	53	15	550	25.12	15.43	19.50	146	n/a	n/a
HSD0060CW11000	60	66	20	675	22.12	20.43	28.50	188	n/a	n/a
HSD0075CW11000	75	83	25	650	22.12	20.43	28.50	189	n/a	n/a
HSD0100CW11000	100	103	30	750	22.12	20.43	28.50	238	HSD0100CW11100	LK00
HSD0125CW11000	125	129	40	1033	42.50	20.70	28.50	305	HSD0125CW11100	LK01
HSD0150CW11000	150	166	45	1126	42.50	20.70	28.50	350	HSD0150CW11100	LK02
HSD0200CW11000	200	209	60	1136	36.00	28.39	36.86	510	HSD0200CW11100	LK03
HSD0250CW11000	250	242	75	1184	36.00	28.39	36.86	512	HSD0250CW11100	LK03
HSD0300CW11000	300	321	90	1583	60.12	36.27	44.55	780	HSD0300CW11100	LK03
HSD0350CW11000	350	350	105	1745	60.12	36.27	44.55	819	HSD0350CW11100	LK04
HSD0400CW11000	400	404	120	2036	60.12	36.27	44.55	975	HSD0400CW11100	LK04
HSD0450CW11000	450	420	135	2111	60.12	36.27	44.55	1130	HSD0450CW11100	LK04
HSD0500CW11000	500	482	150	2341	60.12	36.27	44.55	1140	HSD0500CW11100	LK04
HSD0600CW11000	600	636	180	2700	60.12	36.27	44.55	1220	HSD0600CW11100	LK05

HarmonicShield (HSD)

600 V UL Type 3R

UL Type 3R Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)			Weight (lbs)	UL Type 3R with Lugs	Lug Kit
					Height	Width	Depth			
HSD0003CW30000	3	3.7	1	110	25.12	15.43	19.50	60	n/a	n/a
HSD0005CW30000	5	6.1	1.6	150	25.12	15.43	19.50	60	n/a	n/a
HSD0008CW30000	8	9	2	150	25.12	15.43	19.50	77	n/a	n/a
HSD0010CW30000	10	11	3	175	25.12	15.43	19.50	77	n/a	n/a
HSD0015CW30000	15	17	5	250	25.12	15.43	19.50	85	n/a	n/a
HSD0020CW30000	20	21	6	275	25.12	15.43	19.50	90	n/a	n/a
HSD0025CW30000	25	28	8	250	25.12	15.43	19.50	93	n/a	n/a
HSD0030CW30000	30	34	10	300	25.12	15.43	19.50	102	n/a	n/a
HSD0040CW30000	40	44	15	500	25.12	15.43	19.50	143	n/a	n/a
HSD0050CW30000	50	53	15	550	25.12	15.43	19.50	143	n/a	n/a
HSD0060CW30000	60	66	20	675	22.12	20.43	28.50	185	n/a	n/a
HSD0075CW30000	75	83	25	650	22.12	20.43	28.50	186	n/a	n/a
HSD0100CW30000	100	103	30	750	22.12	20.43	28.50	235	HSD0100CW30100	LK00
HSD0125CW30000	125	129	40	1033	42.50	20.70	28.50	300	HSD0125CW30100	LK01
HSD0150CW30000	150	166	45	1126	42.50	20.70	28.50	346	HSD0150CW30100	LK02
HSD0200CW30000	200	209	60	1136	36.00	28.39	36.86	500	HSD0200CW30100	LK03
HSD0250CW30000	250	242	75	1184	36.00	28.39	36.86	503	HSD0250CW30100	LK03
HSD0300CW30000	300	321	90	1583	60.12	36.27	44.55	765	HSD0300CW30100	LK03
HSD0350CW30000	350	350	105	1745	60.12	36.27	44.55	805	HSD0350CW30100	LK04
HSD0400CW30000	400	404	120	2036	60.12	36.27	44.55	960	HSD0400CW30100	LK04
HSD0450CW30000	450	420	135	2111	60.12	36.27	44.55	1115	HSD0450CW30100	LK04
HSD0500CW30000	500	482	150	2341	60.12	36.27	44.55	1125	HSD0500CW30100	LK04
HSD0600CW30000	600	636	180	2700	60.12	36.27	44.55	1195	HSD0600CW30100	LK05

600 V UL Type 3R with Contactor

UL Type 3R Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)			Weight (lbs)	UL Type 3R with Lugs	Lug Kit
					Height	Width	Depth			
HSD0003CW31000	3	3.7	1	110	25.12	15.43	19.50	63	n/a	n/a
HSD0005CW31000	5	6.1	1.6	150	25.12	15.43	19.50	63	n/a	n/a
HSD0008CW31000	8	9	2	150	25.12	15.43	19.50	80	n/a	n/a
HSD0010CW31000	10	11	3	175	25.12	15.43	19.50	80	n/a	n/a
HSD0015CW31000	15	17	5	250	25.12	15.43	19.50	88	n/a	n/a
HSD0020CW31000	20	21	6	275	25.12	15.43	19.50	93	n/a	n/a
HSD0025CW31000	25	28	8	250	25.12	15.43	19.50	95	n/a	n/a
HSD0030CW31000	30	34	10	300	25.12	15.43	19.50	105	n/a	n/a
HSD0040CW31000	40	44	15	500	25.12	15.43	19.50	146	n/a	n/a
HSD0050CW31000	50	53	15	550	25.12	15.43	19.50	146	n/a	n/a
HSD0060CW31000	60	66	20	675	22.12	20.43	28.50	188	n/a	n/a
HSD0075CW31000	75	83	25	650	22.12	20.43	28.50	189	n/a	n/a
HSD0100CW31000	100	103	30	750	22.12	20.43	28.50	238	HSD0100CW31100	LK00
HSD0125CW31000	125	129	40	1033	42.50	20.70	28.50	305	HSD0125CW31100	LK01
HSD0150CW31000	150	166	45	1126	42.50	20.70	28.50	350	HSD0150CW31100	LK02
HSD0200CW31000	200	209	60	1136	36.00	28.39	36.86	510	HSD0200CW31100	LK03
HSD0250CW31000	250	242	75	1184	36.00	28.39	36.86	512	HSD0250CW31100	LK03
HSD0300CW31000	300	321	90	1583	60.12	36.27	44.55	780	HSD0300CW31100	LK03
HSD0350CW31000	350	350	105	1745	60.12	36.27	44.55	819	HSD0350CW31100	LK04
HSD0400CW31000	400	404	120	2036	60.12	36.27	44.55	975	HSD0400CW31100	LK04
HSD0450CW31000	450	420	135	2111	60.12	36.27	44.55	1130	HSD0450CW31100	LK04
HSD0500CW31000	500	482	150	2341	60.12	36.27	44.55	1140	HSD0500CW31100	LK04
HSD0600CW31000	600	636	180	2700	60.12	36.27	44.55	1220	HSD0600CW31100	LK05

HarmonicGuard Low Capacitance (HGL)

Our HarmonicGuard Low Capacitance filter (HGL) adds to our line of options for passive filters. The HGL is designed to be compatible with 5%THD performance.



The HGL addresses concerns of excess capacitance in generators. Excess capacitance can cause problems such as:

- Causing leading Power Factor
- Creating over-excitation in a generator
- Controlling both power factor and harmonics together

The HGL reduces the amount of reactive power and enables lower power, lower cost generators to be used.

High Quality Components

- Options for open chassis, Type 1 and Type 3R enclosures
- Contactor – Can be used to disconnect the tuning circuit.
- Vibration Pads – Reduces audible noise.
- Floor Stand – 12” steel feet for Type 3R enclosures 125HP and below. Units 150HP and above include provisions for floor mounting.
- True 100kA SCCR



Limits Harmonic Distortion

- As low as a 1:1 Generator:HGL power rating
- Performance of 5% or lower THD at full load with $I_{sc}/I_L < 20$
- Meets IEEE-519 requirements

Oilfield Duty

The HGL features components designed specifically for oil and gas field applications to handle the additional electrical stress. Designed for cyclical loads these units will be available in Type 3R enclosures and will be for use with HP ranges from 40 to 200HP.

HarmonicGuard Low Capacitance (HGL)

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										
Communication 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										
A - Thermal Switches and Heater										

Note: Floor stand option will have additional cost to the list price for Type 3R units that are 125 HP and below.

HarmonicGuard Low Capacitance (HGL)

480 V Open with Contactor and PQconnect

Open Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)			Weight (lbs)
					Height	Width	Depth	
HGL0020AW0C1000	20	27	3	244	19.75	17	9.97	67
HGL0025AW0C1000	25	34	3.9	431	30.75	17	11.5	88
HGL0030AW0C1000	30	40	5	343	30.75	17	11.5	88
HGL0040AW0C1000	40	52	6	457	30.75	17	11.5	128
HGL0050AW0C1000	50	65	8	528	30.75	17	11.5	138
HGL0060AW0C1000	60	77	10	592	30.75	17	11.5	143
HGL0075AW0C1000	75	96	10	586	30.75	17	12	148
HGL0100AW0C1000	100	124	15	770	56	17	11.5	207
HGL0125AW0C1000	125	156	20	881	56	17	11.5	227
HGL0150AW0C1000	150	180	25	1061	56	17	13.25	267
HGL0200AW0C1000	200	240	30	917	67	17	13.75	352
HGL0250AW0C1000	250	302	40	1227	67	17	13.75	397
HGL0300AW0C1000	300	361	50	1464	67	17	15	492
HGL0350AW0C1000	350	414	55	1421	40	41.21	15	537
HGL0400AW0C1000	400	477	60	1558	40	41.21	15	552

480 V Open with Contactor

Open Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)			Weight (lbs)
					Height	Width	Depth	
HGL0020AW0C0000	20	27	3	234	19.75	17	10.15	65
HGL0025AW0C0000	25	34	3.9	421	30.75	17	10.65	67
HGL0030AW0C0000	30	40	5	333	30.75	17	11.5	85
HGL0040AW0C0000	40	52	6	447	30.75	17	11.5	125
HGL0050AW0C0000	50	65	8	518	30.75	17	11.5	135
HGL0060AW0C0000	60	77	10	582	30.75	17	11.5	140
HGL0075AW0C0000	75	96	10	576	30.75	17	11.5	145
HGL0100AW0C0000	100	124	15	760	56	17	11.5	205
HGL0125AW0C0000	125	156	20	871	56	17	13.5	225
HGL0150AW0C0000	150	180	25	1051	56	17	13.5	265
HGL0200AW0C0000	200	240	30	907	67	17	13.5	350
HGL0250AW0C0000	250	302	40	1217	67	17	13.5	395
HGL0300AW0C0000	300	361	50	1454	67	17	14.5	490
HGL0350AW0C0000	350	414	55	1411	40	41.21	20.53	640
HGL0400AW0C0000	400	477	60	1548	40	41.21	20.53	690

HarmonicGuard Low Capacitance (HGL)

480 V Open

Open Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)			Weight (lbs)
					Height	Width	Depth	
HGL0020AW0S0000	20	27	3	234	19.75	17	10.15	61
HGL0025AW0S0000	25	34	3.9	421	30.75	17	10.65	63
HGL0030AW0S0000	30	40	5	333	30.75	17	11.5	81
HGL0040AW0S0000	40	52	6	447	30.75	17	11.5	120
HGL0050AW0S0000	50	65	8	518	30.75	17	11.5	130
HGL0060AW0S0000	60	77	10	582	30.75	17	11.5	135
HGL0075AW0S0000	75	96	10	576	30.75	17	11.5	140
HGL0100AW0S0000	100	124	15	760	56	17	11.5	200
HGL0125AW0S0000	125	156	20	871	56	17	13.5	220
HGL0150AW0S0000	150	180	25	1051	56	17	13.5	258
HGL0200AW0S0000	200	240	30	907	67	17	13.5	345
HGL0250AW0S0000	250	302	40	1217	67	17	13.5	350
HGL0300AW0S0000	300	361	50	1454	67	17	14.5	477
HGL0350AW0S0000	350	414	55	1411	40	41.21	20.53	530
HGL0400AW0S0000	400	477	60	1548	40	41.21	20.53	680

480 V Type 1 with Contactor and PQconnect

Type 1 Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)			Weight (lbs)
					Height	Width	Depth	
HGL0020AW1C1000	20	27	3	248	20.62	17.65	12.27	92
HGL0025AW1C1000	25	34	3.9	438	31.55	17.55	12.54	205
HGL0030AW1C1000	30	40	5	348	31.55	17.55	12.54	151
HGL0040AW1C1000	40	52	6	464	31.55	17.55	12.54	191
HGL0050AW1C1000	50	65	8	535	31.55	17.55	12.54	201
HGL0060AW1C1000	60	77	10	600	31.55	17.55	12.54	206
HGL0075AW1C1000	75	96	10	594	31.55	17.55	12.54	213
HGL0100AW1C1000	100	124	15	781	56.15	17.66	16.5	301
HGL0125AW1C1000	125	156	20	894	56.15	17.66	16.5	321
HGL0150AW1C1000	150	180	25	1076	56.15	17.66	16.5	361
HGL0200AW1C1000	200	240	30	931	71.64	20.59	20	501
HGL0250AW1C1000	250	302	40	1245	71.64	20.59	20	546
HGL0300AW1C1000	300	361	50	1486	71.64	20.59	20	643
HGL0350AW1C1000	350	414	55	1442	71.64	20.59	20	651
HGL0400AW1C1000	400	477	60	1581	71.64	20.59	20	803
HGL0450AW1C1000	450	515	70	1879	62.57	52	25.74	1012
HGL0500AW1C1000	500	590	75	2093	62.57	52	25.74	1028
HGL0600AW1C1000	600	720	90	2028	62.57	52	25.74	1252
HGL0700AW1C1000	700	840	105	2268	62.57	52	25.74	1502
HGL0800AW1C1000	800	960	120	2482	62.57	52	25.74	1872

HarmonicGuard Low Capacitance (HGL)

480 V Type 1 with Contactor

Type 1 Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)			Weight (lbs)
					Height	Width	Depth	
HGL0020AW1C0000	20	27	3	238	20.62	17.65	12.27	90
HGL0025AW1C0000	25	34	3.9	428	31.55	17.55	12.54	162
HGL0030AW1C0000	30	40	5	338	31.55	17.55	12.54	174
HGL0040AW1C0000	40	52	6	454	31.55	17.55	12.54	190
HGL0050AW1C0000	50	65	8	525	31.55	17.55	12.54	200
HGL0060AW1C0000	60	77	10	590	31.55	17.55	12.54	205
HGL0075AW1C0000	75	96	10	584	31.55	17.55	12.54	210
HGL0100AW1C0000	100	124	15	771	56.15	17.66	16.5	300
HGL0125AW1C0000	125	156	20	884	56.15	17.66	16.5	320
HGL0150AW1C0000	150	180	25	1066	56.15	17.66	16.5	360
HGL0200AW1C0000	200	240	30	921	71.64	20.59	20	500
HGL0250AW1C0000	250	302	40	1235	71.64	20.59	20	545
HGL0300AW1C0000	300	361	50	1476	71.64	20.59	20	640
HGL0350AW1C0000	350	414	55	1432	71.64	20.59	20	650
HGL0400AW1C0000	400	477	60	1571	71.64	20.59	20	660
HGL0450AW1C0000	450	515	70	1869	62.57	52	25.74	1010
HGL0500AW1C0000	500	590	75	2083	62.57	52	25.74	1025
HGL0600AW1C0000	600	720	90	2018	62.57	52	25.74	1250
HGL0700AW1C0000	700	840	105	2258	62.57	52	25.74	1500
HGL0800AW1C0000	800	960	120	2472	62.57	52	25.74	1705

480 V Type 1

Type 1 Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)			Weight (lbs)
					Height	Width	Depth	
HGL0020AW1S0000	20	27	3	238	20.62	17.65	12.27	86
HGL0025AW1S0000	25	34	3.9	428	31.55	17.55	12.54	158
HGL0030AW1S0000	30	40	5	338	31.55	17.55	12.54	170
HGL0040AW1S0000	40	52	6	454	31.55	17.55	12.54	185
HGL0050AW1S0000	50	65	8	525	31.55	17.55	12.54	195
HGL0060AW1S0000	60	77	10	590	31.55	17.55	12.54	200
HGL0075AW1S0000	75	96	10	584	31.55	17.55	12.54	205
HGL0100AW1S0000	100	124	15	771	56.15	17.66	16.5	295
HGL0125AW1S0000	125	156	20	884	56.15	17.66	16.5	315
HGL0150AW1S0000	150	180	25	1066	56.15	17.66	16.5	355
HGL0200AW1S0000	200	240	30	921	71.64	20.59	20	496
HGL0250AW1S0000	250	302	40	1235	71.64	20.59	20	535
HGL0300AW1S0000	300	361	50	1476	71.64	20.59	20	630
HGL0350AW1S0000	350	414	55	1432	71.64	20.59	20	640
HGL0400AW1S0000	400	477	60	1571	71.64	20.59	20	650
HGL0450AW1S0000	450	515	70	1869	62.57	52	25.74	1000
HGL0500AW1S0000	500	590	75	2083	62.57	52	25.74	1015
HGL0600AW1S0000	600	720	90	2018	62.57	52	25.74	1236
HGL0700AW1S0000	700	840	105	2258	62.57	52	25.74	1490
HGL0800AW1S0000	800	960	120	2472	62.57	52	25.74	1675

HarmonicGuard Low Capacitance (HGL)

480 V Type 3R with Contactor and PQconnect

Type 3R Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)			Weight (lbs)
					Height	Width	Depth	
HGL0020AW3C1000	20	27	3	248	32.7	33.39	13.74	130
HGL0025AW3C1000	25	34	3.9	438	32.7	33.39	13.74	134
HGL0030AW3C1000	30	40	5	348	37.58	39.41	13.73	208
HGL0040AW3C1000	40	52	6	464	37.58	39.41	13.73	223
HGL0050AW3C1000	50	65	8	535	37.58	39.41	13.73	234
HGL0060AW3C1000	60	77	10	600	37.58	39.41	13.73	244
HGL0075AW3C1000	75	96	10	594	37.58	39.41	13.73	251
HGL0100AW3C1000	100	124	15	781	37.58	39.41	13.73	274
HGL0125AW3C1000	125	156	20	894	37.58	39.41	13.73	294
HGL0150AW3C1000	150	180	25	1076	39.45	39.45	17.73	408
HGL0200AW3C1000	200	240	30	931	39.45	39.45	17.73	478
HGL0250AW3C1000	250	302	40	1245	45.4	45.4	21.73	558
HGL0300AW3C1000	300	361	50	1486	45.4	45.4	21.73	623
HGL0350AW3C1000	350	414	55	1442	45.4	45.4	21.73	673
HGL0400AW3C1000	400	477	60	1581	57.42	57.42	25.1	998
HGL0450AW3C1000	450	515	70	1879	57.42	57.42	25.1	1007
HGL0500AW3C1000	500	590	75	2093	57.42	57.42	25.1	1022
HGL0600AW3C1000	600	720	90	2028	57.42	57.42	25.1	1298
HGL0700AW3C1000	700	840	105	2268	57.42	57.42	25.1	1398
HGL0800AW3C1000	800	960	120	2482	57.42	57.42	25.1	1608

480 V Type 3R with Contactor

Type 3R Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)			Weight (lbs)
					Height	Width	Depth	
HGL0020AW3C0000	20	27	3	238	32.24	33.39	13.73	126
HGL0025AW3C0000	25	34	3.9	428	32.24	33.39	13.73	131
HGL0030AW3C0000	30	40	5	338	37.58	39.45	13.73	205
HGL0040AW3C0000	40	52	6	454	37.58	39.45	13.73	221
HGL0050AW3C0000	50	65	8	525	37.58	39.45	13.73	231
HGL0060AW3C0000	60	77	10	590	37.58	39.45	13.73	241
HGL0075AW3C0000	75	96	10	584	37.58	39.45	13.73	248
HGL0100AW3C0000	100	124	15	771	37.58	39.45	13.73	271
HGL0125AW3C0000	125	156	20	884	37.58	39.45	13.73	291
HGL0150AW3C0000	150	180	25	1066	52.58	39.45	17.73	405
HGL0200AW3C0000	200	240	30	921	52.58	39.45	17.73	475
HGL0250AW3C0000	250	302	40	1235	52.58	45.4	21.65	555
HGL0300AW3C0000	300	361	50	1476	52.58	45.4	21.65	620
HGL0350AW3C0000	350	414	55	1432	52.58	45.4	21.65	670
HGL0400AW3C0000	400	477	60	1571	65.69	57.5	26.14	995
HGL0450AW3C0000	450	515	70	1869	65.69	57.5	26.14	1005
HGL0500AW3C0000	500	590	75	2083	65.69	57.5	26.14	1015
HGL0600AW3C0000	600	720	90	2018	65.69	57.5	26.14	1295
HGL0700AW3C0000	700	840	105	2258	65.69	57.5	26.14	1375
HGL0800AW3C0000	800	960	120	2472	65.69	57.5	26.14	1500

HarmonicGuard Low Capacitance (HGL)

480 V Type 3R

Type 3R Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)			Weight (lbs)
					Height	Width	Depth	
HGL0020AW3S0000	20	27	3	238	32.24	33.39	13.73	125
HGL0025AW3S0000	25	34	3.9	428	32.24	33.39	13.73	130
HGL0030AW3S0000	30	40	5	338	37.58	39.45	13.73	195
HGL0040AW3S0000	40	52	6	454	37.58	39.45	13.73	220
HGL0050AW3S0000	50	65	8	525	37.58	39.45	13.73	230
HGL0060AW3S0000	60	77	10	590	37.58	39.45	13.73	240
HGL0075AW3S0000	75	96	10	584	37.58	39.45	13.73	246
HGL0100AW3S0000	100	124	15	771	37.58	39.45	13.73	270
HGL0125AW3S0000	125	156	20	884	37.58	39.45	13.73	290
HGL0150AW3S0000	150	180	25	1066	52.58	39.48	17.73	400
HGL0200AW3S0000	200	240	30	921	52.58	39.45	17.73	470
HGL0250AW3S0000	250	302	40	1235	52.58	45.4	21.65	550
HGL0300AW3S0000	300	361	50	1476	52.58	45.4	21.65	615
HGL0350AW3S0000	350	414	55	1432	52.58	45.4	21.65	655
HGL0400AW3S0000	400	477	60	1571	65.69	57.5	26.14	985
HGL0450AW3S0000	450	515	70	1869	65.69	57.5	26.14	995
HGL0500AW3S0000	500	590	75	2083	65.69	57.5	26.14	1000
HGL0600AW3S0000	600	720	90	2018	65.69	57.5	26.14	1275
HGL0700AW3S0000	700	840	105	2258	65.69	57.5	26.14	1395
HGL0800AW3S0000	800	960	120	2472	65.69	57.5	26.14	1480

480 V Type 3R with Contactor - Oilfield Duty

Type 3R Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)			Weight (lbs)
					Height	Width	Depth	
HGL0040AW3C000P	40	52	6	454	37.58	39.45	13.73	221
HGL0050AW3C000P	50	65	8	525	37.58	39.45	13.73	231
HGL0060AW3C000P	60	77	10	590	37.58	39.45	13.73	241
HGL0075AW3C000P	75	96	10	584	37.58	39.45	13.73	248
HGL0100AW3C000P	100	124	15	771	37.58	39.45	13.73	271
HGL0125AW3C000P	125	156	20	884	37.58	39.45	13.73	291
HGL0150AW3C000P	150	180	25	1066	52.58	39.45	17.73	405
HGL0200AW3C000P	200	240	30	921	52.58	39.45	17.73	475

480 V Type 3R - Oilfield Duty

Type 3R Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)			Weight (lbs)
					Height	Width	Depth	
HGL0040AW3S000P	40	52	6	454	37.58	39.45	13.73	220
HGL0050AW3S000P	50	65	8	525	37.58	39.45	13.73	230
HGL0060AW3S000P	60	77	10	590	37.58	39.45	13.73	240
HGL0075AW3S000P	75	96	10	584	37.58	39.45	13.73	246
HGL0100AW3S000P	100	124	15	771	37.58	39.45	13.73	270
HGL0125AW3S000P	125	156	20	884	37.58	39.45	13.73	290
HGL0150AW3S000P	150	180	25	1066	52.58	39.48	17.73	400
HGL0200AW3S000P	200	240	30	921	52.58	39.45	17.73	470

HarmonicGuard Low Capacitance (HGL)

480 V Type 3R with Contactor & Heater

Type 3R Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)			Weight (lbs)
					Height	Width	Depth	
HGL0020AW3C000H	20	27	6	275	33.24	33	13.73	
HGL0025AW3C000H	25	34	8	250	33.24	33	13.73	
HGL0030AW3C000H	30	40	10	300	33.24	33	13.73	
HGL0040AW3C000H	40	52	15	500	37.58	39.15	13.73	
HGL0050AW3C000H	50	65	15	550	37.58	39.15	13.73	
HGL0060AW3C000H	60	77	20	675	37.58	39.15	13.73	
HGL0075AW3C000H	75	96	25	650	37.58	39.15	13.73	
HGL0100AW3C000H	100	124	30	750	37.58	39.15	13.73	
HGL0125AW3C000H	125	156	40	1000	37.58	39.15	13.73	
HGL0150AW3C000H	150	180	45	1200	52.58	39.07	17.73	
HGL0200AW3C000H	200	240	60	1600	52.58	39.07	17.73	
HGL0250AW3C000H	250	302	75	1800	53.86	45.14	21.73	
HGL0300AW3C000H	300	361	90	2100	53.86	45.14	21.73	
HGL0350AW3C000H	350	414	105	2200	53.86	45.14	21.73	
HGL0400AW3C000H	400	477	120	2600	65.77	57.13	26.32	
HGL0450AW3C000H	450	515	135	2800	65.77	57.13	26.32	
HGL0500AW3C000H	500	590	150	3100	65.77	57.13	26.32	
HGL0600AW3C000H	600	720	180	2700	65.77	57.13	26.32	
HGL0700AW3C000H	700	840	210	2900	80.22	72.06	30	
HGL0800AW3C000H	800	960	240	3000	80.22	72.06	30	
HGL0900AW3C000H	900	1080	270	3300	80.22	72.06	30	

600 V Open with Contactor and PQconnect

Open Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)			Weight (lbs)
					Height	Width	Depth	
HGL0020CW0C1000	20	22	3.1	348	30.75	17.24	11.8	99
HGL0025CW0C1000	25	27	4.1	314	30.75	17.24	11.5	104
HGL0030CW0C1000	30	32	5	303	30.75	17.24	11.5	107
HGL0040CW0C1000	40	41	6	351	30.75	17.24	11.5	107
HGL0050CW0C1000	50	52	8.3	521	30.75	17.24	11.5	137
HGL0060CW0C1000	60	62	10	610	30.75	17.24	11.5	127
HGL0075CW0C1000	75	77	15	744	56	17	11.5	186
HGL0100CW0C1000	100	99	15	746	56	17	11.5	209
HGL0125CW0C1000	125	125	20	930	56	17	13.12	226
HGL0150CW0C1000	150	144	25	1192	68.5	17	13.12	268
HGL0200CW0C1000	200	192	30	986	68.5	17	14.85	345
HGL0250CW0C1000	250	242	40	1316	68.5	17	14.91	370
HGL0300CW0C1000	300	289	50	1462	68.5	17.24	20.54	485
HGL0350CW0C1000	350	336	55	1776	68.5	17.24	20.54	495
HGL0400CW0C1000	400	382	60	1576	81.5	17	14.73	505
HGL0450CW0C1000	450	412	70	2089	81.5	17	14.73	511

HarmonicGuard Low Capacitance (HGL)

600 V Open with Contactor

Open Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)			Weight (lbs)
					Height	Width	Depth	
HGL0020CW0C0000	20	22	3.1	338	30.75	17.24	11.5	98
HGL0025CW0C0000	25	27	4.1	304	30.75	17.24	11.5	103
HGL0030CW0C0000	30	32	3	293	30.75	17.24	11.5	106
HGL0040CW0C0000	40	41	6	341	30.75	17.24	11.5	106
HGL0050CW0C0000	50	52	8.3	511	30.75	17.24	11.5	136
HGL0060CW0C0000	60	62	10	600	30.75	17.24	11.5	126
HGL0075CW0C0000	75	77	15	734	56	17	11.5	185
HGL0100CW0C0000	100	99	15	736	56	17	11.5	208
HGL0125CW0C0000	125	125	20	920	56	17	13.12	225
HGL0150CW0C0000	150	144	25	1182	56	17	13.12	267
HGL0200CW0C0000	200	192	30	976	67	17	14.81	344
HGL0250CW0C0000	250	242	40	1306	67	17	14.91	369
HGL0300CW0C0000	300	289	50	1452	40	40.38	20.54	484
HGL0350CW0C0000	350	336	55	1766	40	40.38	20.54	494
HGL0400CW0C0000	400	382	60	1566	40	40.38	14.73	504
HGL0450CW0C0000	450	412	70	2079	45	46.19	14.73	510

600 V Open

Open Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)			Weight (lbs)
					Height	Width	Depth	
HGL0020CW0S0000	20	22	3.1	338	30.75	17.24	11.5	94
HGL0025CW0S0000	25	27	4.1	304	30.75	17.24	11.5	98
HGL0030CW0S0000	30	32	5	293	30.75	17.24	11.5	102
HGL0040CW0S0000	40	41	6	341	30.75	17.24	11.5	102
HGL0050CW0S0000	50	52	8.3	511	30.75	17.24	11.5	131
HGL0060CW0S0000	60	62	10	600	30.75	17.24	11.5	121
HGL0075CW0S0000	75	77	15	734	56	17	11.5	180
HGL0100CW0S0000	100	99	15	736	56	17	13.04	200
HGL0125CW0S0000	125	125	20	920	56	17	13.04	220
HGL0150CW0S0000	150	144	25	1182	56	17	13.04	260
HGL0200CW0S0000	200	192	30	976	67	17	14.82	339
HGL0250CW0S0000	250	242	40	1306	67	17	14.82	379
HGL0300CW0S0000	300	289	50	1452	40	17.24	20.54	474
HGL0350CW0S0000	350	336	55	1766	40	17.24	20.54	484
HGL0400CW0S0000	400	382	60	1566	40	17	20.54	494
HGL0450CW0S0000	450	412	70	2079	45	17	24.86	500

HarmonicGuard Low Capacitance (HGL)

600 V Type 1 with Contactor and PQconnect

Type 1 Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)			Weight (lbs)
					Height	Width	Depth	
HGL0020CW1C1000	20	22	3.1	353	31.65	17.55	12.54	63
HGL0025CW1C1000	25	27	4.1	319	31.65	17.55	12.54	168
HGL0030CW1C1000	30	32	5	307	31.65	17.55	12.54	171
HGL0040CW1C1000	40	41	6	356	31.65	17.55	12.54	186
HGL0050CW1C1000	50	52	8.3	529	31.65	17.55	12.54	201
HGL0060CW1C1000	60	62	10	619	31.65	17.55	12.54	207
HGL0075CW1C1000	75	77	15	755	56.25	17.66	16.5	281
HGL0100CW1C1000	100	99	15	757	56.25	17.66	16.5	301
HGL0125CW1C1000	125	125	20	944	56.25	17.66	16.5	321
HGL0150CW1C1000	150	144	25	1210	56.25	17.66	16.5	363
HGL0200CW1C1000	200	192	30	1001	72.25	20	20	496
HGL0250CW1C1000	250	242	40	1335	72.25	20	20	541
HGL0300CW1C1000	300	289	50	1484	72.25	20	20	636
HGL0350CW1C1000	350	336	55	1802	72.25	20	20	646
HGL0400CW1C1000	400	382	60	1599	72.25	20	20	656
HGL0450CW1C1000	450	412	70	2120	72.25	20	20	661
HGL0500CW1C1000	500	472	75	2024	62.57	52	26.17	1031
HGL0600CW1C1000	600	576	90	2074	62.57	52	25.74	1346
HGL0700CW1C1000	700	672	105	2386	62.57	52	25.74	1446
HGL0800CW1C1000	800	768	120	2776	62.57	52	25.74	1650

600 V Type 1 with Contactor

Type 1 Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)			Weight (lbs)
					Height	Width	Depth	
HGL0020CW1C0000	20	22	3.1	343	31.65	17.74	12.54	162
HGL0025CW1C0000	25	27	4.1	309	31.65	17.74	12.54	167
HGL0030CW1C0000	30	32	5	297	31.65	17.74	12.54	170
HGL0040CW1C0000	40	41	6	346	31.65	17.74	12.54	185
HGL0050CW1C0000	50	52	8.3	519	31.65	17.74	12.54	200
HGL0060CW1C0000	60	62	10	609	31.65	17.74	12.54	205
HGL0075CW1C0000	75	77	15	745	56.25	17.66	16.5	280
HGL0100CW1C0000	100	99	15	747	56.25	17.66	16.5	300
HGL0125CW1C0000	125	125	20	934	56.25	17.66	16.5	320
HGL0150CW1C0000	150	144	25	1200	56.25	17.66	16.5	362
HGL0200CW1C0000	200	192	30	991	72.25	20	20	495
HGL0250CW1C0000	250	242	40	1325	72.25	20	20	540
HGL0300CW1C0000	300	289	50	1474	72.25	20	20	635
HGL0350CW1C0000	350	336	55	1792	72.25	20	20	645
HGL0400CW1C0000	400	382	60	1589	72.25	20	20	655
HGL0450CW1C0000	450	412	70	2110	72.25	20	20	660
HGL0500CW1C0000	500	472	75	2014	62.57	52	25.74	1030
HGL0600CW1C0000	600	576	90	2064	62.57	52	25.74	1345
HGL0700CW1C0000	700	672	105	2376	62.57	52	25.74	1445
HGL0800CW1C0000	800	768	120	2766	62.57	52	25.74	1650

HarmonicGuard Low Capacitance (HGL)

600 V Type 1

Type 1 Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)			Weight (lbs)
					Height	Width	Depth	
HGL0020CW1S0000	20	22	3.1	343	31.65	17.74	12.54	158
HGL0025CW1S0000	25	27	4.1	309	31.65	17.74	12.54	163
HGL0030CW1S0000	30	32	5	297	31.65	17.74	12.54	166
HGL0040CW1S0000	40	41	6	346	31.65	17.74	12.54	181
HGL0050CW1S0000	50	52	8.3	519	31.65	17.74	12.54	195
HGL0060CW1S0000	60	62	10	609	31.65	17.74	12.54	200
HGL0075CW1S0000	75	77	15	745	56.25	17.66	16.5	275
HGL0100CW1S0000	100	99	15	747	56.25	17.66	16.5	295
HGL0125CW1S0000	125	125	20	934	56.25	17.66	16.5	315
HGL0150CW1S0000	150	144	25	1200	56.25	17.66	16.5	355
HGL0200CW1S0000	200	192	30	991	72.25	20.59	20	490
HGL0250CW1S0000	250	242	40	1325	72.25	20	20	530
HGL0300CW1S0000	300	289	50	1474	72.25	20	20	625
HGL0350CW1S0000	350	336	55	1792	72.25	20	20	635
HGL0400CW1S0000	400	382	60	1589	72.25	20	20	645
HGL0450CW1S0000	450	412	70	2110	72.25	20	20	650
HGL0500CW1S0000	500	472	75	2014	62.57	52	25.74	1020
HGL0600CW1S0000	600	576	90	2064	62.57	52	25.74	1316
HGL0700CW1S0000	700	672	105	2376	62.57	52	25.74	1416
HGL0800CW1S0000	800	768	120	2766	62.57	52	25.74	1620

600 V Type 3R with Contactor and PQconnect

Type 3R Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)			Weight (lbs)
					Height	Width	Depth	
HGL0020CW3C1000	20	22	3.1	133	32.7	33.39	13.74	133
HGL0025CW3C1000	25	27	4.1	138	32.7	33.39	13.74	138
HGL0030CW3C1000	30	32	5	215	37.58	39.41	13.73	215
HGL0040CW3C1000	40	41	6	238	37.58	39.41	13.73	238
HGL0050CW3C1000	50	52	8.3	263	37.58	39.41	13.73	263
HGL0060CW3C1000	60	62	10	263	37.58	39.41	13.73	263
HGL0075CW3C1000	75	77	15	278	37.58	39.41	13.73	278
HGL0100CW3C1000	100	99	15	283	37.58	39.41	13.73	283
HGL0125CW3C1000	125	125	20	368	52.58	39.45	17.736	368
HGL0150CW3C1000	150	144	25	408	52.58	39.45	17.73	408
HGL0200CW3C1000	200	192	30	473	52.58	39.45	17.73	473
HGL0250CW3C1000	250	242	40	553	53.86	45.4	21.73	553
HGL0300CW3C1000	300	289	50	618	52.58	45.4	21.73	618
HGL0350CW3C1000	350	336	55	883	52.58	45.4	21.73	883
HGL0400CW3C1000	400	382	60	668	65.77	57.42	25.1	668
HGL0450CW3C1000	450	412	70	888	65.77	57.42	25.1	888
HGL0500CW3C1000	500	472	75	903	65.77	57.42	25.1	903
HGL0600CW3C1000	600	576	90	1198	65.77	57.42	25.1	1198
HGL0700CW3C1000	700	672	105	1298	65.77	57.42	25.1	1298
HGL0800CW3C1000	800	768	120	1403	65.77	57.42	25.1	1403

HarmonicGuard Low Capacitance (HGL)

600 V Type 3R with Contactor

Type 3R Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)			Weight (lbs)
					Height	Width	Depth	
HGL0020CW3C0000	20	22	3.1	343	32.7	33.39	13.74	131
HGL0025CW3C0000	25	27	4.1	309	32.7	33.39	13.74	136
HGL0030CW3C0000	30	32	5	297	37.58	39.41	13.73	215
HGL0040CW3C0000	40	41	6	346	37.58	39.41	13.73	235
HGL0050CW3C0000	50	52	8.3	519	37.58	39.41	13.73	260
HGL0060CW3C0000	60	62	10	609	37.58	39.41	13.73	260
HGL0075CW3C0000	75	77	15	745	37.58	39.41	13.73	275
HGL0100CW3C0000	100	99	15	747	37.58	39.41	13.73	280
HGL0125CW3C0000	125	125	20	934	52.58	39.45	17.73	365
HGL0150CW3C0000	150	144	25	1200	52.58	39.45	17.73	405
HGL0200CW3C0000	200	192	30	991	52.58	39.45	17.73	470
HGL0250CW3C0000	250	242	40	1325	53.86	45.4	21.73	550
HGL0300CW3C0000	300	289	50	1474	52.58	45.4	21.73	615
HGL0350CW3C0000	350	336	55	1792	52.58	45.4	21.73	880
HGL0400CW3C0000	400	382	60	1589	65.77	57.42	25.1	665
HGL0450CW3C0000	450	412	70	2110	65.77	57.42	25.1	885
HGL0500CW3C0000	500	472	75	2014	65.77	57.42	25.1	900
HGL0600CW3C0000	600	576	90	2064	65.77	57.42	25.1	1195
HGL0700CW3C0000	700	672	105	2376	65.77	57.42	25.1	1295
HGL0800CW3C0000	800	768	120	2766	65.77	57.42	25.1	1400

600 V Type 3R

Type 3R Part Number	HP	Amps	kVar	Watts Loss	Dimensions (in.)			Weight (lbs)
					Height	Width	Depth	
HGL0020CW3S0000	20	22	3.1	343	32.7	33.39	13.74	130
HGL0025CW3S0000	25	27	4.1	309	32.7	33.39	13.74	135
HGL0030CW3S0000	30	32	5	297	37.58	39.41	13.73	205
HGL0040CW3S0000	40	41	6	346	37.58	39.41	13.73	231
HGL0050CW3S0000	50	52	8.3	519	37.58	39.41	13.73	255
HGL0060CW3S0000	60	62	10	609	37.58	39.41	13.73	255
HGL0075CW3S0000	75	77	15	745	37.58	39.41	13.73	265
HGL0100CW3S0000	100	99	15	747	37.58	39.41	13.73	270
HGL0125CW3S0000	125	125	20	934	52.58	39.45	17.73	360
HGL0150CW3S0000	150	144	25	1200	52.58	39.45	17.73	400
HGL0200CW3S0000	200	192	30	991	52.58	39.45	17.73	465
HGL0250CW3S0000	250	242	40	1325	53.86	45.4	21.73	545
HGL0300CW3S0000	300	289	50	1474	52.58	45.4	21.73	610
HGL0350CW3S0000	350	336	55	1792	52.58	45.4	25.1	875
HGL0400CW3S0000	400	382	60	1589	65.77	57.42	25.1	650
HGL0450CW3S0000	450	412	70	2110	65.77	57.42	26.14	880
HGL0500CW3S0000	500	472	75	2014	65.77	57.42	26.14	885
HGL0600CW3S0000	600	576	90	2064	65.77	57.42	26.14	1175
HGL0700CW3S0000	700	672	105	2376	65.77	57.42	26.14	1275
HGL0800CW3S0000	800	768	120	2766	65.77	57.42	26.14	1380

HarmonicGuard Single-Phase (HSP) Filter

In some situations, harmonic distortion can be twice as high on single-phase applications, as opposed to three-phase applications.

The HSP Single-Phase Line to Line Harmonic Filter is an optimal solution for mitigating harmonics in single-phase applications.

Key Benefits:

- Contains high quality capacitors: designed, built and tested specifically for use in high harmonic environments
- Has a small footprint and rugged outdoor enclosure option
- Includes a large range of amp ratings to meet varying demands
- Reduces harmonics to 12% THID
- Easy installation and operation
- Protects inverter against voltage spikes caused by capacitor switching and other rapidly changing loads
- Protects upstream components, such as circuit breakers, fuses, conductors, and transformers from damage caused by harmonics
- Does not resonate with other system components



240 V 3R GP

Nema 3R GP Part Number	HP	Amps
HSP028BG3SC	5	28
HSP042BG3SC	7.5	42
HSP052BG3SC	10	52
HSP070BG3SC	15	70
HSP090BG3SC	20	90
HSP110BG3SC	25	110
HSP136BG3SC	30	136
HSP182BG3SC	40	182
HSP220BG3SC	50	220
HSP260BG3SC	60	260
HSP324BG3SC	75	324
HSP432BG3SC	100	432

480 V 3R GP

Nema 3R GP Part Number	HP	Amps
HSP014AG3SC	5	14
HSP021AG3SC	7.5	21
HSP026AG3SC	10	26
HSP034AG3SC	15	34
HSP044AG3SC	20	44
HSP055AG3SC	25	55
HSP068AG3SC	30	68
HSP091AG3SC	40	91
HSP110AG3SC	50	110
HSP130AG3SC	60	130
HSP162AG3SC	75	162
HSP216AG3SC	100	216

KDR Optimized Line Reactors

Input of a VFD

KDR line reactors are electrical components that help to protect 6-pulse rectifiers and power conversion devices such as variable frequency drives (VFDs). When used in conjunction with a VFD, a KDR line reactor can help reduce harmonics and protect the drive from harmful voltage spikes. KDR line reactors are recommended on the input of each VFD in multiple drive applications.



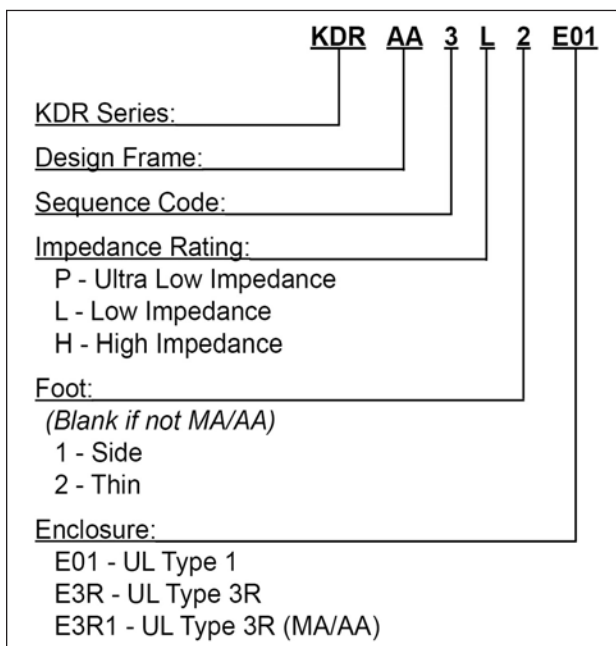
Output of a VFD

KDR reactors are constructed with durability in mind and can be used on both the input and output of a VFD. When used on the output of a drive, KDR reactors reduce voltage distortion at the motor terminals extending the service life and minimizing insulation stress on any motor.

- Nuisance tripping is less common
- Drive uptime is increased
- Power factor is improved
- Limits expensive down-time
- Increases life of drive
- Protects sensitive equipment



TCI offers a wide range of line reactors from 1/4 HP to 1250 HP. Every TCI line reactor is manufactured in Wisconsin with high quality materials and is backed by a lifetime warranty for the life of the drive.



- Smallest footprint available for 0.25 HP – 7.5 HP motors
- The only UL Listed 690 V terminal block reactor on the market
- Available in voltage selections from 208 V to 690 V.
- Vertical tool access for easy installation
- Accessory adapter plates are available to accommodate different mounting footprint requirements.

KDR Optimized Line Reactors

208/240 V Low-Z

Part Number	NEC Motor HP	NEC Motor Current	Max Cont. Amps	Watts Loss	Std. Terms	Dimensions (in.) Height x Width x Depth	Open Weight (lbs)	UL Type 1 Enclosed Part Number *	UL Type 3R Enclosed Part Number *
KDRMA21L1	0.25	1.4	3.4	4.6	TB	3.63 x 4.45 x 1.78	1.4	KDRMA21L1E01	KDRMA21L1E3R1
KDRMA22L1	0.5	2.4	5	6.8	TB	3.63 x 4.45 x 1.78	3.7	KDRMA22L1E01	KDRMA22L1E3R1
KDRMA23L1	0.75	3.5	4.2	12.9	TB	3.63 x 4.45 x 1.78	3	KDRMA23L1E01	KDRMA23L1E3R1
KDRMA24L1	1	4.6	5.5	19.2	TB	3.63 x 4.45 x 1.78	3.2	KDRMA24L1E01	KDRMA24L1E3R1
KDRMA25L1	1.5	6.6	8	23.3	TB	3.63 x 4.45 x 1.78	3.2	KDRMA25L1E01	KDRMA25L1E3R1
KDRMA27L1	2	7.5	10	27	TB	3.63 x 4.45 x 1.78	4	KDRMA27L1E01	KDRMA27L1E3R1
KDRAA28L2	3	10.6	11	42	TB	4.44 x 4.25 x 2.64	3	KDRAA28L2E01	KDRAA28L2E3R1
KDRB22L	5	16.7	19	38	TB	5.00 x 6.00 x 4.00	8	KDRB22LE01	KDRB22LE3R
KDRB23L	7.5	24.2	25	48	TB	5.00 x 6.00 x 4.00	8	KDRB23LE01	KDRB23LE3R
KDRD25L	10	30.8	34	64	TB	5.75 x 7.20 x 4.25	12	KDRD25LE01	KDRD25LE3R
KDRD24L	15	46.2	48	85	TB	5.75 x 7.20 x 4.25	12	KDRD24LE01	KDRD24LE3R
KDRD26L	20	59.4	62	94	TB	5.75 x 7.20 x 4.25	12	KDRD26LE01	KDRD26LE3R
KDRC22L	25	74.8	80	114	CB	5.75 x 7.20 x 5.00	15	KDRC22LE01	KDRC22LE3R
KDRF24L	30	88	100	135	CB	7.00 x 9.00 x 6.00	30	KDRF24LE01	KDRF24LE3R
KDRF25L	40	114	118	149	CB	7.00 x 9.00 x 6.00	30	KDRF25LE01	KDRF25LE3R
KDRF26L	50	143	152	154	CB	7.00 x 9.00 x 6.00	30	KDRF26LE01	KDRF26LE3R
KDRH22L	60	169	180	209	CB	8.31 x 10.50 x 6.00	45	KDRH22LE01	KDRH22LE3R
KDRI23L	75	211	211	294	CB	8.50 x 11.00 x 7.00	50	KDRI23LE01	KDRI23LE3R
KDRI24L	100	273	280	276	CB	8.50 x 11.00 x 7.00	50	KDRI24LE01	KDRI24LE3R
KDRG22L	125	343	377	370	CB	10.15 x 11.50 x 8.50	65	KDRG22LE01	KDRG22LE3R
KDRJ23L	150	396	420	401	CB	10.00 x 11.31 x 9.50	70	KDRJ23LE01	KDRJ23LE3R
KDRJ24L	200	528	534	442	CB	10.00 x 11.31 x 9.50	70	KDRJ24LE01	KDRJ24LE3R

208/240 V High-Z

Part Number	NEC Motor HP	NEC Motor Current	Max Cont. Amps	Watts Loss	Std. Terms	Dimensions (in.) Height x Width x Depth	Open Weight (lbs)	UL Type 1 Enclosed Part Number *	UL Type 3R Enclosed Part Number *
KDRMA21H1	0.25	1.4	2.3	8	TB	3.63 x 4.45 x 1.78	1.3	KDRMA21H1E01	KDRMA21H1E3R1
KDRMA22H1	0.5	2.4	3.4	24.9	TB	3.63 x 4.45 x 1.78	1.4	KDRMA22H1E01	KDRMA22H1E3R1
KDRMA23H1	0.75	3.5	5	16.1	TB	3.63 x 4.45 x 1.79	3.7	KDRMA23H1E01	KDRMA23H1E3R1
KDRMA24H1	1	4.6	5	28.7	TB	3.63 x 4.45 x 1.80	3	KDRMA24H1E01	KDRMA24H1E3R1
KDRMA25H1	1.5	6.6	7.5	28.6	TB	3.63 x 4.45 x 1.81	3	KDRMA25H1E01	KDRMA25H1E3R1
KDRMA26H1	2	7.5	10	32.5	TB	3.63 x 4.45 x 1.82	4	KDRMA26H1E01	KDRMA26H1E3R1
KDRAA28H2	3	10.6	11	44.6	TB	4.44 x 4.25 x 2.64	2.6	KDRAA28H2E02	KDRAA28H1E3R1
KDRB25H	5	16.7	17	53.1	TB	5.00 x 6.00 x 4.00	8	KDRB25HE01	KDRB25HE3R
KDRB26H	7.5	24.2	26	66.5	TB	5.00 x 6.00 x 4.00	8	KDRB26HE01	KDRB26HE3R
KDRD21H	10	30.8	31	91.8	TB	5.75 x 7.20 x 4.25	12	KDRD21HE01	KDRD21HE3R
KDRD22H	15	46.2	47	107.8	TB	5.75 x 7.20 x 4.25	12	KDRD22HE01	KDRD22HE3R
KDRC22H	20	59.4	62	113.1	TB	5.75 x 7.20 x 5.00	15	KDRC22HE01	KDRC22HE3R
KDRF28H	25	74.8	75	151	TB	7.00 x 9.00 x 6.00	30	KDRF28HE01	KDRF28HE3R
KDRF25H	30	88	92	179.2	CB	7.00 x 9.00 x 6.00	30	KDRF25HE01	KDRF25HE3R
KDRF26H	40	114	114	192.8	CB	7.00 x 9.00 x 6.00	30	KDRF26HE01	KDRF26HE3R
KDRH24H	50	143	143	201	CB	8.31 x 10.50 x 6.00	38	KDRH24HE01	KDRH24HE3R
KDRH23H	60	169	169	220	CB	8.31 x 10.50 x 6.00	45	KDRH23HE01	KDRH23HE3R
KDRI22H	75	211	220	311.5	CB	8.50 x 11.00 x 7.00	50	KDRI22HE01	KDRI22HE3R
KDRI21H	100	273	275	296.4	CB	8.50 x 11.00 x 7.00	50	KDRI21HE01	KDRI21HE3R
KDRG25H	125	343	350	346.5	CB	10.15 x 11.50 x 8.50	65	KDRG25HE01	KDRG25HE3R
KDRJ22H	150	396	412	465.3	CB	10.00 x 11.25 x 9.25	70	KDRJ22HE01	KDRJ22HE3R
KDRJ21H	200	528	534	516.2	CB	10.00 x 11.25 x 9.25	70	KDRJ21HE01	KDRJ21HE3R

*For enclosed unit dimensions and added weight, please refer to the Reactor Enclosure Price page.

KDR Optimized Line Reactors

480 V Low-Z

Part Number	NEC Motor HP	NEC Motor Current	Max Cont. Amps	Watts Loss	Std. Terms	Dimensions (in.) Height x Width x Depth	Open Weight (lbs)	UL Type 1 Enclosed	UL Type 3R Enclosed
								Part Number *	Part Number *
KDRMA1L1	0.25	0.7	1.4	5	TB	3.63 x 4.45 x 1.78	1.3	KDRMA1L1E01	KDRMA1L1E3R1
KDRMA2L1	0.33	0.8	1.7	6.2	TB	3.63 x 4.45 x 1.78	1.3	KDRMA2L1E01	KDRMA2L1E3R1
KDRMA3L1	0.5	1.1	1.6	9.7	TB	3.63 x 4.45 x 1.78	1.3	KDRMA3L1E01	KDRMA3L1E3R1
KDRMA4L1	0.75	1.6	2.3	12.1	TB	3.63 x 4.45 x 1.78	1.3	KDRMA4L1E01	KDRMA4L1E3R1
KDRMA5L1	1	2.1	2.3	25.2	TB	3.63 x 4.45 x 1.78	1.2	KDRMA5L1E01	KDRMA5L1E3R1
KDRMA6L1	1.5	3	3.4	26.4	TB	3.63 x 4.45 x 1.78	1.4	KDRMA6L1E01	KDRMA6L1E3R1
KDRMA7L1	2	3.4	4.2	23.5	TB	3.63 x 4.45 x 1.78	1.4	KDRMA7L1E01	KDRMA7L1E3R1
KDRMA8L1	3	4.8	5	30.6	TB	3.63 x 4.45 x 1.78	1.4	KDRMA8L1E01	KDRMA8L1E3R1
KDRAA6L2	4	6.2	7.6	39.2	TB	4.44 x 4.25 x 2.64	3	KDRAA6L2E01	KDRAA6L2E3R1
KDRAA3L2	5	7.6	8.2	48.8	TB	4.44 x 4.25 x 2.64	3	KDRAA3L2E01	KDRAA3L2E3R1
KDRAA4L2	7.5	11	11	62.9	TB	4.44 x 4.25 x 2.64	3.2	KDRAA4L2E01	KDRAA4L2E3R1
KDRAA5L2	10	14	14	77.7	TB	4.44 x 4.25 x 2.64	3.3	KDRAA5L2E01	KDRAA5L2E3R1
KDRB2L	15	21	30	65	TB	5.00 x 6.00 x 4.00	8	KDRB2LE01	KDRB2LE3R
KDRB1L	20	27	30	79	TB	5.00 x 6.00 x 4.00	8	KDRB1LE01	KDRB1LE3R
KDRD1L	25	34	50	96	TB	5.75 x 7.20 x 4.25	10	KDRD1LE01	KDRD1LE3R
KDRD2L	30	40	45	105	TB	5.75 x 7.20 x 4.25	10	KDRD2LE01	KDRD2LE3R
KDRC1L	40	52	55	114	TB	5.75 x 7.20 x 5.00	15	KDRC1LE01	KDRC1LE3R
KDRF2L	50	65	65	114	TB	7.00 x 9.00 x 6.00	25	KDRF2LE01	KDRF2LE3R
KDRF4L	60	77	77	169	TB	7.00 x 9.00 x 6.00	25	KDRF4LE01	KDRF4LE3R
KDRF3L	75	96	110	193	CB	7.00 x 9.00 x 6.00	30	KDRF3LE01	KDRF3LE3R
KDRH3L	100	124	150	225	CB	8.31 x 10.50 x 6.00	40	KDRH3LE01	KDRH3LE3R
KDRH2L	125	156	165	254	CB	8.31 x 10.50 x 6.00	40	KDRH2LE01	KDRH2LE3R
KDRH1L	150	180	185	299	CB	8.31 x 10.50 x 6.00	40	KDRH1LE01	KDRH1LE3R
KDRG3L	200	240	240	280	CB	10.15 x 11.38 x 8.25	65	KDRG3LE01	KDRG3LE3R
KDRG1L	250	302	340	337	CB	10.15 x 11.50 x 8.50	65	KDRG1LE01	KDRG1LE3R
KDRG2L	300	361	370	381	CB	10.15 x 11.50 x 8.50	65	KDRG2LE01	KDRG2LE3R
KDRJ2L	350	414	500	465	CB	10.00 x 11.31 x 9.50	70	KDRJ2LE01	KDRJ2LE3R
KDRJ1L	400	477	520	470	CB	10.00 x 11.31 x 9.50	70	KDRJ1LE01	KDRJ1LE3R
KDRL1L	450	515	610	509	CB	12.75 x 14.75 x 9.25	110	KDRL1LE01	KDRL1LE3R
KDRL2L	500	590	610	518	CB	12.75 x 14.75 x 9.25	110	KDRL2LE01	KDRL2LE3R
KDRL3L	600	720	750	748	CB	12.75 x 15.50 x 11.50	155	KDRL3LE01	Consult Factory for Assistance
KDRS1L	700	840	850	872	CB	12.75 x 15.65 x 14.25	158	KDRS1LE01	
KDRX2L	800	960	965	997	CB	18.31 x 18.00 x 13.00	160	KDRX2LE01	
KDRX3L	900	1080	1100	1121	CB	18.50 x 18.00 x 14.50	275	KDRX3LE01	
KDRX1L	1000	1200	1216	1246	CB	18.50 x 18.00 x 14.50	290	KDRX1LE01	
KDRY1L	1100	1320	1350	1371	CB	19.50 x 21.00 x 19.25	475	KDRY1LE01	
KDRY2L	1250	1500	1500	1558	CB	19.50 x 21.00 x 19.25	500	KDRY2LE01	

*For enclosed unit dimensions and added weight, please refer to the Reactor Enclosure Price page.

KDR Optimized Line Reactors

480 V High-Z

Part Number	NEC Motor HP	NEC Motor Current	Max Cont. Amps	Watts Loss	Std. Terms	Dimensions (in.) Height x Width x Depth	Open Weight (lbs)	UL Type 1 Enclosed Part Number *	UL Type 3R Enclosed Part Number *
KDRMA1H1	0.25	0.7	1.4	7.9	TB	3.63 x 4.45 x 1.78	1.3	KDRMA1H1E01	KDRMA1H1E3R1
KDRMA2H1	0.33	0.8	1.4	9.2	TB	3.63 x 4.45 x 1.78	1.5	KDRMA2H1E01	KDRMA2H1E3R1
KDRMA3H1	0.5	1.1	1.6	14.3	TB	3.63 x 4.45 x 1.78	1.3	KDRMA3H1E01	KDRMA3H1E3R1
KDRMA4H1	0.75	1.6	2.1	19.3	TB	3.63 x 4.45 x 1.78	1.4	KDRMA4H1E01	KDRMA4H1E3R1
KDRMA5H1	1	2.1	2.3	26.7	TB	3.63 x 4.45 x 1.78	1.4	KDRMA5H1E01	KDRMA5H1E3R1
KDRMA6H1	1.5	3	3.6	30	TB	3.63 x 4.45 x 1.78	1.6	KDRMA6H1E01	KDRMA6H1E3R1
KDRAA1H2	2	3.4	3.8	45	TB	4.44 x 4.25 x 2.64	2.8	KDRAA1H2E01	KDRAA1H2E3R1
KDRAA2H2	3	4.8	5.4	41.8	TB	4.44 x 4.25 x 2.64	3	KDRAA2H2E01	KDRAA2H2E3R1
KDRAA6H2	4	6.2	7.6	50.2	TB	4.44 x 4.25 x 2.64	3.4	KDRAA6H2E01	KDRAA6H2E3R1
KDRAA3H2	5	7.6	8.2	66	TB	4.44 x 4.25 x 2.64	3.7	KDRAA3H2E01	KDRAA3H2E3R1
KDRAA4H2	7.5	11	12	70	Tb	4.44 x 4.25 x 2.64	4	KDRAA4H2E01	KDRAA4H2E3R1
KDRAA5H2	10	14	14	97.7	TB	4.44 x 4.25 x 2.64	4.2	KDRAA5H2E01	KDRAA5H2E3R1
KDRB2H	15	21	27	133	TB	5.00 x 6.00 x 4.00	7	KDRB2HE01	KDRB2HE3R
KDRC3H	20	27	27	108	TB	5.75 x 7.20 x 5.00	15	KDRC3HE01	KDRC3HE3R
KDRC1H	25	34	35	112	TB	5.75 x 7.20 x 5.00	15	KDRC1HE01	KDRC1HE3R
KDRE2H	30	40	45	141	TB	5.75 x 7.20 x 5.00	16	KDRE2HE01	KDRE2HE3R
KDRF4H	40	52	60	169	TB	7.00 x 9.00 x 6.00	25	KDRF4HE01	KDRF4HE3R
KDRF1H	50	65	85	191	TB	7.00 x 9.00 x 6.00	25	KDRF1HE01	KDRF1HE3R
KDRF2H	60	77	77	226	TB	7.00 x 9.00 x 6.00	25	KDRF2HE01	KDRF2HE3R
KDRH2H	75	96	100	212	CB	8.31 x 10.50 x 6.00	45	KDRH2HE01	KDRH2HE3R
KDRI2H	100	124	125	362	CB	8.50 x 10.50 x 6.31	50	KDRI2HE01	KDRI2HE3R
KDRG3H	125	156	160	274	CB	10.15 x 10.75 x 7.31	55	KDRG3HE01	KDRG3HE3R
KDRG1H	150	180	185	359	CB	10.15 x 11.38 x 8.25	55	KDRG1HE01	KDRG1HE3R
KDRJ1H	200	240	240	420	CB	10.00 x 10.88 x 9.00	70	KDRJ1HE01	KDRJ1HE3R
KDRL1H	250	302	310	548	CB	12.75 x 14.75 x 9.25	110	KDRL1HE01	KDRL1HE3R
KDRL2H	300	361	365	786	CB	12.75 x 14.75 x 9.25	95	KDRL2HE01	KDRL2HE3R
KDRL3H	350	414	435	750	CB	12.75 x 14.75 x 9.25	100	KDRL3HE01	KDRL3HE3R
KDRL4H	400	477	480	730	CB	12.75 x 14.75 x 9.25	110	KDRL4HE01	KDRL4HE3R
KDRL5H	450	515	540	774	CB	12.75 x 15.50 x 11.75	120	KDRL5HE01	KDRL5HE3R
KDRL6H	500	590	590	697	CB	12.75 x 15.50 x 11.75	120	KDRL6HE01	KDRL6HE3R
KDRS1H	600	720	750	1246	CB	12.75 x 15.65 x 12.75	260	KDRS1HE01	Consult Factory for Assistance
KDRS2H	700	840	840	1454	CB	12.75 x 15.75 x 14.25	280	KDRS2HE01	
KDRX2H	800	960	965	1661	CB	18.31 x 18.00 x 13.00	290	KDRX2HE01	
KDRX3H	900	1080	1100	1869	CB	18.50 x 18.00 x 14.50	290	KDRX3HE01	
KDRX4H	1000	1200	1216	1337	CB	18.50 x 18.00 x 14.50	300	KDRX4HE01	
KDRY2H	1100	1320	1350	2284	CB	21.50 x 21.00 x 16.25	525	KDRY2HE01	

*For enclosed unit dimensions and added weight, please refer to the Reactor Enclosure Price page.

KDR Optimized Line Reactors

600 V Low-Z

Part Number	NEC Motor HP	NEC Motor Current	Max Cont. Amps	Watts Loss	Std. Terms	Dimensions (in.) Height x Width x Depth	Open Weight (lbs)	UL Type 1 Enclosed Part Number *	UL Type 3R Enclosed Part Number *
KDRMA41L1	0.25	0.5	0.8	3.9	TB	3.63 x 4.45 x 1.78	1.2	KDRMA41L1E01	KDRMA41L1E3R1
KDRMA42L1	0.33	0.7	1.1	6.1	TB	3.63 x 4.45 x 1.78	1.2	KDRMA42L1E01	KDRMA42L1E3R1
KDRMA43L1	0.5	0.9	1.6	8.5	TB	3.63 x 4.45 x 1.78	1.1	KDRMA43L1E01	KDRMA43L1E3R1
KDRMA44L1	0.75	1.3	2.1	10.9	TB	3.63 x 4.45 x 1.78	1.3	KDRMA44L1E01	KDRMA44L1E3R1
KDRMA45L1	1	1.7	2.1	16.2	TB	3.63 x 4.45 x 1.78	1.3	KDRMA45L1E01	KDRMA45L1E3R1
KDRMA46L1	1.5	2.4	3.4	17.2	TB	3.63 x 4.45 x 1.78	1.4	KDRMA46L1E01	KDRMA46L1E3R1
KDRMA47L1	2	2.7	3.2	20.5	TB	3.63 x 4.45 x 1.78	1.5	KDRMA47L1E01	KDRMA47L1E3R1
KDRAA52L2	3	3.9	4.8	30.1	TB	4.44 x 4.25 x 2.64	3.5	KDRAA52L2E01	KDRAA52L2E3R1
KDRAA57L2	4	4.9	7.6	29.9	TB	4.44 x 4.25 x 2.64	2.9	KDRAA57L2E01	KDRAA57L2E3R1
KDRAA58L2	5	6.1	7.6	38.5	TB	4.44 x 4.25 x 2.64	3	KDRAA58L2E01	KDRAA58L2E3R1
KDRAA48L2	7.5	9	9	56.8	TB	4.44 x 4.25 x 2.64	3	KDRAA48L2E01	KDRAA48L2E3R1
KDRAA49L2	10	11	11	60.7	TB	4.44 x 4.25 x 2.64	3.8	KDRAA49L2E01	KDRAA49L2E3R1
KDRB45L	15	17	19.5	66.2	TB	5.00 x 6.00 x 4.00	8	KDRB45LE01	KDRB45LE3R
KDRB44L	20	22	24	71.2	TB	5.00 x 6.00 x 4.00	8	KDRB44LE01	KDRB44LE3R
KDRB43L	25	27	30	76.7	TB	5.00 x 6.00 x 4.00	8	KDRB43LE01	KDRB43LE3R
KDRD42L	30	32	32	106	TB	5.75 x 7.20 x 4.25	12	KDRD42LE01	KDRD42LE3R
KDRC43L	40	41	41	109	TB	5.75 x 7.20 x 5.00	15	KDRC43LE01	KDRC43LE3R
KDRC44L	50	52	52	123	TB	5.75 x 7.20 x 5.00	15	KDRC44LE01	KDRC44LE3R
KDRF46L	60	62	62	181	TB	7.00 x 9.00 x 6.00	30	KDRF46LE01	KDRF46LE3R
KDRF47L	75	77	77	194	TB	7.00 x 9.00 x 6.00	30	KDRF47LE01	KDRF47LE3R
KDRF45L	100	99	99	194	CB	7.00 x 9.00 x 6.00	30	KDRF45LE01	KDRF45LE3R
KDRH43L	125	125	125	261	CB	8.31 x 10.50 x 6.00	45	KDRH43LE01	KDRH43LE3R
KDRH44L	150	144	144	253	CB	8.31 x 10.50 x 6.00	45	KDRH44LE01	KDRH44LE3R
KDRI42L	200	192	192	342	CB	8.50 x 11.00 x 7.00	50	KDRI42LE01	KDRI42LE3R
KDRG47L	250	242	242	394	CB	10.15 x 11.38 x 8.25	65	KDRG47LE01	KDRG47LE3R
KDRG45L	300	289	292	374	CB	10.15 x 11.38 x 8.25	65	KDRG45LE01	KDRG45LE3R
KDRJ45L	350	336	336	474	CB	10.00 x 11.25 x 9.25	70	KDRJ45LE01	KDRJ45LE3R
KDRJ43L	400	382	385	463	CB	10.00 x 11.25 x 9.25	70	KDRJ43LE01	KDRJ43LE3R
KDRJ44L	450	412	412	473	CB	10.00 x 11.25 x 9.25	70	KDRJ44LE01	KDRJ44LE3R
KDRL45L	500	472	480	587	CB	12.75 x 15.00 x 11.00	110	KDRL45LE01	KDRL45LE3R
KDRL42L	600	576	610	716	CB	12.75 x 15.00 x 11.00	150	KDRL42LE01	KDRL42LE3R
KDRL43L	700	672	675	836	CB	12.75 x 15.50 x 11.50	160	KDRL43LE01	Consult Factory for Assistance
KDRS41L	800	768	778	685	CB	12.75 x 15.65 x 14.25	185	KDRS41LE01	
KDRX41L	900	864	900	1075	CB	18.31 x 18.00 x 13.00	280	KDRX41LE01	
KDRX42L	1000	960	1000	1194	CB	18.31 x 18.00 x 13.00	290	KDRX42LE01	
KDRX43L	1100	1056	1064	1313	CB	18.50 x 18.00 x 14.50	315	KDRX43LE01	
KDRX44L	1250	1200	1216	1493	CB	18.50 x 18.00 x 14.50	325	KDRX44LE01	
KDRY41L	1500	1440	1500	1791	CB	19.50 x 21.00 x 19.25	465	KDRY41LE01	

*For enclosed unit dimensions and added weight, please refer to the Reactor Enclosure page.

KDR Optimized Line Reactors

600 V High-Z

Part Number	NEC Motor HP	NEC Motor Current	Max Cont. Amps	Watts Loss	Std. Terms	Dimensions (in.) Height x Width x Depth	Open weight (lbs)	UL Type 1 Enclosed Part Number *	UL Type 3R Enclosed Part Number *
KDRMA41H1	0.25	0.5	0.8	5.9	TB	3.63 x 4.45 x 1.78	1.3	KDRMA41H1E01	KDRMA41H1E3R1
KDRMA42H1	0.33	0.7	0.75	9.1	TB	3.63 x 4.45 x 1.78	1.2	KDRMA42H1E01	KDRMA42H1E3R1
KDRMA43H1	0.5	0.9	1.1	12.9	TB	3.63 x 4.45 x 1.78	1.5	KDRMA43H1E01	KDRMA43H1E3R1
KDRMA44H1	0.75	1.3	1.6	14.6	TB	3.63 x 4.45 x 1.78	1.6	KDRMA44H1E01	KDRMA44H1E3R1
KDRMA45H1	1	1.7	2.1	27	TB	3.63 x 4.45 x 1.78	1.5	KDRMA45H1E01	KDRMA45H1E3R1
KDRAA46H2	1.5	2.4	3.2	31	TB	4.44 x 4.25 x 2.64	2.9	KDRAA46H2E01	KDRAA46H2E3R1
KDRAA43H2	2	2.7	3.4	37	TB	4.44 x 4.25 x 2.64	2.7	KDRAA43H2E01	KDRAA43H2E3R1
KDRAA44H2	3	3.9	4.5	47	TB	4.44 x 4.25 x 2.64	2.9	KDRAA44H2E01	KDRAA44H2E3R1
KDRAA57H2	4	4.9	6	48	TB	4.44 x 4.25 x 2.64	3.5	KDRAA57H2E01	KDRAA57H2E3R1
KDRAA58H2	5	6.1	6.8	44	TB	4.44 x 4.25 x 2.64	3.4	KDRAA58H2E01	KDRAA58H2E3R1
KDRB42H	7.5	9	10	61.1	TB	5.00 x 6.00 x 4.00	8	KDRB42HE01	KDRB42HE3R
KDRB43H	10	11	11	70.7	TB	5.00 x 6.00 x 4.00	8	KDRB43HE01	KDRB43HE3R
KDRB44H	15	17	18.5	73	TB	5.00 x 6.00 x 4.00	8	KDRB44HE01	KDRB44HE3R
KDRD41H	20	22	23	105.6	TB	5.75 x 7.20 x 4.25	12	KDRD41HE01	KDRD41HE3R
KDRC43H	25	27	30	107.4	TB	5.75 x 7.20 x 5.00	15	KDRC43HE01	KDRC43HE3R
KDRE42H	30	32	32	140.3	TB	5.75 x 7.20 x 5.00	16	KDRE42HE01	KDRE42HE3R
KDRF44H	40	41	44	172.2	TB	7.00 x 9.00 x 6.00	30	KDRF44HE01	KDRF44HE3R
KDRF45H	50	52	58	165.6	TB	7.00 x 9.00 x 6.00	30	KDRF45HE01	KDRF45HE3R
KDRH43H	60	62	62	205	TB	9.00 x 11.00 x 6.00	45	KDRH43HE01	KDRH43HE3R
KDRH42H	75	77	82	251	TB	9.00 x 11.00 x 6.00	45	KDRH42HE01	KDRH42HE3R
KDRI41H	100	99	99	268	CB	8.50 x 10.50 x 6.31	50	KDRI41HE01	KDRI41HE3R
KDRG44H	125	125	130	381.3	CB	10.15 x 10.75 x 7.31	65	KDRG44HE01	KDRG44HE3R
KDRG45H	150	144	155	405.9	CB	10.15 x 11.38 x 8.25	65	KDRG45HE01	KDRG45HE3R
KDRJ41H	200	192	192	466.4	CB	10.00 x 11.00 x 8.65	70	KDRJ41HE01	KDRJ41HE3R
KDRL46H	250	242	260	472.3	CB	12.75 x 14.75 x 11.00	110	KDRL46HE01	KDRL46HE3R
KDRL47H	300	289	310	490.3	CB	12.75 x 14.75 x 11.00	110	KDRL47HE01	KDRL47HE3R
KDRL48H	350	336	344	539	CB	12.75 x 15.00 x 11.00	110	KDRL48HE01	KDRL48HE3R
KDRL49H	400	382	382	603	CB	12.75 x 15.00 x 11.00	110	KDRL49HE01	KDRL49HE3R
KDRS47H	450	412	440	521	CB	12.75 x 15.00 x 12.25	165	KDRS47HE01	KDRS47HE3R
KDRS46H	500	472	500	660.5	CB	12.75 x 15.00 x 12.25	165	KDRS46HE01	KDRS46HE3R
KDRS49H	600	576	610	1194	CB	12.75 x 15.00 x 12.25	175	KDRS49HE01	KDRS49HE3R
KDRX45H	700	672	760	1393	CB	18.65 x 18.00 x 11.50	200	KDRX45HE01	Consult Factory for Assistance
KDRX44H	800	768	850	1592	CB	18.31 x 18.00 x 13.00	280	KDRX44HE01	
KDRX41H	900	864	900	1791	CB	18.50 x 18.00 x 14.50	290	KDRX41HE01	
KDRX42H	1000	960	1000	1990	CB	18.50 x 18.00 x 14.50	375	KDRX42HE01	
KDRX43H	1100	1056	1064	2189	CB	18.50 x 18.00 x 14.50	450	KDRX43HE01	
KDRY41H	1250	1200	1200	2488	CB	19.50 x 21.00 x 19.25	475	KDRY41HE01	
KDRY42H	1500	1440	1500	2985	CB	19.75 x 21.00 x 15.50	575	KDRY42HE01	

*For enclosed unit dimensions and added weight, please refer to the Reactor Enclosure page.

KDR Optimized Line Reactors

690 V Low-Z

Part Number	NEC Motor HP	NEC Motor Current	Max Cont. Amps	Watts Loss	Std. Terms	Dimensions (in.) Height x Width x Depth	Open Weight (lbs)	NEMA 1 Enclosed Part Number *
KDRMA41L1	0.25	0.5	0.8	3.9	TB	3.63 x 4.45 x 1.78	1.2	KDRMA41L1E01
KDRMA42L1	0.33	0.7	1.1	6.1	TB	3.63 x 4.45 x 1.78	1.2	KDRMA42L1E01
KDRMA43L1	0.5	0.9	1.3	8.5	TB	3.63 x 4.45 x 1.78	1.1	KDRMA43L1E01
KDRMA44L1	0.75	1.3	2.1	10.9	TB	3.63 x 4.45 x 1.78	1.3	KDRMA44L2E01
KDRMA45L1	1	1.7	2.1	16.2	TB	3.63 x 4.45 x 1.78	1.3	KDRMA45L2E01
KDRMA46L1	1.5	2.4	3.4	17.2	TB	3.63 x 4.45 x 1.78	1.4	KDRMA46L2E01
KDRMA47L1	2	2.7	3.2	20.5	TB	3.63 x 4.45 x 1.78	1.5	KDRMA47L2E01
KDRAA52L2	3	3.9	4.8	30.1	TB	4.44 x 4.25 x 2.64	3.5	KDRAA52L2E01
KDRAA58L2	5	6.1	7.6	38.5	TB	4.44 x 4.25 x 2.64	3	KDRAA58L2E01
KDRAA48L2	7.5	9	9.6	56.8	TB	4.44 x 4.25 x 2.64	3	KDRAA48L2E01
KDRAA49L2	10	11	11	60.7	TB	4.44 x 4.25 x 2.64	3.8	KDRAA49L2E01
KDRB45LV	15	17	19.5	66.2	RL	5.00 x 6.00 x 4.50	8	KDRB45LC2V
KDRB44LV	20	22	24	71.2	RL	5.00 x 6.00 x 4.50	8	KDRB44LC2V
KDRB43LV	25	27	30	76.7	RL	5.00 x 6.00 x 4.50	8	KDRB43LC2V
KDRD42LV	30	32	32	106	RL	5.75 x 7.20 x 4.50	12	KDRD42LC2V
KDRC43LV	40	41	41	109	RL	5.75 x 7.20 x 5.00	15	KDRC43LC2V
KDRC44LV	50	52	52	123	RL	5.75 x 7.20 x 5.00	15	KDRC44LC2V
KDRF46LV	60	62	62	181	RL	7.00 x 9.00 x 6.00	30	KDRF46LC3V
KDRF47LV	75	77	77	194	RL	7.00 x 9.00 x 6.00	30	KDRF47LC3V
KDRF45LV	100	99	99	194	CB	7.00 x 9.00 x 6.00	30	KDRF45LC4V
KDRH43LV	125	125	125	261	CB	8.50 x 11.00 x 6.25	45	KDRH43LC4V
KDRH44LV	150	144	144	253	CB	8.50 x 11.00 x 6.25	45	KDRH44LC4V
KDRI42LV	200	192	192	342	CB	9.00 x 11.00 x 7.00	50	KDRI42LC4V
KDRG47LV	250	242	242	394	CB	9.00 x 11.00 x 8.00	65	KDRG47LC4V
KDRG45LV	300	289	292	374	CB	9.00 x 11.00 x 8.00	65	KDRG45LC4V
KDRJ45LV	350	336	336	474	CB	9.00 x 11.00 x 9.00	70	KDRJ45LC5V
KDRJ43LV	400	382	385	463	CB	9.00 x 11.00 x 9.00	70	KDRJ43LC5V
KDRJ44LV	450	412	412	473	CB	9.00 x 11.00 x 9.00	70	KDRJ44LC5V
KDRL45LV	500	472	480	587	CB	11.38 x 15.00 x 11.00	110	KDRL45LC5V
KDRL42LV	600	576	610	716	CB	11.38 x 15.00 x 11.00	150	KDRL42LC5V
KDRL43LV	700	672	675	836	CB	11.38 x 15.00 x 11.00	270	KDRL43LC5V
KDRS41LV	800	768	850	955	CB	11.38 x 15.00 x 11.00	275	KDRS41LC7V
KDRX41LV	900	864	900	1075	CB	18.50 x 18.25 x 12.50	280	KDRX41LC7V
KDRX42LV	1000	960	1000	1194	CB	18.50 x 18.25 x 12.50	290	KDRX42LC7V
KDRX43LV	1100	1056	1064	1313	CB	18.50 x 18.25 x 12.50	315	KDRX43LC7V
KDRX44LV	1250	1200	1200	1493	CB	18.50 x 18.25 x 12.50	325	KDRX44LC7V
KDRY41LV	1500	1440	1500	1791	CB	20.00 x 21.00 x 16.00	465	KDRY41LC7V

*For enclosed unit dimensions and added weight, please refer to the Reactor Enclosure page.

KDR Optimized Line Reactors

690 V High-Z

Part Number	NEC Motor HP	NEC Motor Current	Max Cont. Amps	Watts Loss	Std. Terms	Dimensions (in.) Height x Width x Depth	Open Weight (lbs)	NEMA 1 Enclosed Part Number *
KDRMA41H1	0.25	0.5	0.8	5.9	TB	3.63 x 4.45 x 1.78	1.3	KDRMA41H1E01
KDRMA42H1	0.33	0.7	0.75	9.1	TB	3.63 x 4.45 x 1.78	1.2	KDRMA42H1E01
KDRMA43H1	0.5	0.9	1.5	12.9	TB	3.63 x 4.45 x 1.78	1.5	KDRMA43H1E01
KDRMA44H1	0.75	1.3	2.1	14.6	TB	3.63 x 4.45 x 1.78	1.6	KDRMA44H1E01
KDRMA45H1	1	1.7	2.1	27	TB	3.63 x 4.45 x 1.78	1.5	KDRMA45H1E01
KDRAA46H2	1.5	2.4	2.8	31	TB	4.44 x 4.25 x 2.64	2.9	KDRAA46H2E01
KDRAA43H2	2	2.7	3.2	37	TB	4.44 x 4.25 x 2.64	3.5	KDRAA46H2E01
KDRAA44H2	3	3.9	5	47	TB	4.44 x 4.25 x 2.64	3.4	KDRAA44H2E01
KDRAA58H2	5	6.1	7.5	44	TB	4.44 x 4.25 x 2.64	8	KDRAA58H2E01
KDRB42HV	7.5	9	10	61	QD	5.00 x 6.00 x 4.00	8	KDRB42HC2V
KDRB43HV	10	11	11	71	QD	5.00 x 6.00 x 4.00	8	KDRB43HC2V
KDRB44HV	15	17	18.5	73	RL	5.00 x 6.00 x 4.50	8	KDRB44HC2V
KDRD41HV	20	22	23	106	RL	5.75 x 7.20 x 4.50	12	KDRD41HC2V
KDRC43HV	25	27	30	107	RL	5.75 x 7.20 x 5.00	15	KDRC43HC2V
KDRE42HV	30	32	32	140	RL	5.75 x 7.20 x 5.12	16	KDRE42HC3V
KDRF44HV	40	41	44	172	RL	7.00 x 9.00 x 6.00	30	KDRF44HC3V
KDRF45HV	50	52	58	166	RL	7.00 x 9.00 x 6.00	30	KDRF45HC3V
KDRH43HV	60	62	62	205	RL	8.50 x 11.00 x 6.50	45	KDRH43HC4V
KDRH42HV	75	77	82	251	RL	8.50 x 11.00 x 6.50	45	KDRH42HC4V
KDRI41HV	100	99	99	268	CB	9.00 x 11.00 x 7.00	50	KDRI41HC4V
KDRG44HV	125	125	130	381	CB	9.00 x 11.00 x 7.50	65	KDRG44HC4V
KDRG45HV	150	144	155	406	CB	9.00 x 11.00 x 8.00	65	KDRG45HC4V
KDRJ41HV	200	192	192	466	CB	9.00 x 11.00 x 9.00	70	KDRJ41HC5V
KDRL46HV	250	242	260	472	CB	11.38 x 15.00 x 11.00	110	KDRL46HC5V
KDRL47HV	300	289	310	490	CB	11.38 x 15.00 x 11.00	110	KDRL47HC5V
KDRL48HV	350	336	344	539	CB	11.38 x 15.00 x 11.00	110	KDRL48HC5V
KDRL49HV	400	382	382	603	CB	11.38 x 15.00 x 11.00	110	KDRL49HC5V
KDRS47HV	450	412	440	521	CB	11.38 x 15.00 x 13.00	165	KDRS47HC5V
KDRS46HV	500	472	500	661	CB	11.38 x 15.00 x 13.00	165	KDRS46HC5V
KDRS49HV	600	576	576	1194	CB	11.38 x 15.00 x 13.00	175	KDRS49HC5V
KDRX45HV	700	672	760	1393	CB	18.50 x 18.25 x 12.50	200	KDRX45HC7V
KDRX44HV	800	768	864	1592	CB	18.50 x 18.25 x 12.50	280	KDRX44HC7V
KDRX41HV	900	864	864	1791	CB	18.50 x 18.25 x 12.50	290	KDRX41HC7V
KDRX42HV	1000	960	1000	1990	CB	18.50 x 18.25 x 12.50	375	KDRX42HC7V
KDRX43HV	1100	1056	1064	2189	CB	18.50 x 18.25 x 12.50	450	KDRX43HC7V
KDRY41HV	1250	1200	1200	2488	CB	20.00 x 21.00 x 16.00	475	KDRY41HC7V
KDRY42HV	1500	1440	1500	2985	CB	20.00 x 21.00 x 16.00	575	KDRY42HC7V

*For enclosed unit dimensions and added weight, please refer to the Reactor Enclosure page.

KDR Series DIN Rail Line Reactors

208/240 V Input

Part Number	NEC Motor HP	NEC Motor Current	Watts Loss	Standard Terms	Dimensions (in.)			Weight (lbs)
					Height	Width	Depth	
LOW - Z								
KDRMA21L1DR	0.25	1.4	4.6	TB	3.63	4.45	1.78	1.4
KDRMA22L1DR	0.5	2.4	6.8	TB	3.63	4.45	1.78	3.7
KDRMA23L1DR	0.75	3.5	12.9	TB	3.63	4.45	1.79	3
KDRMA24L1DR	1	4.6	19.2	TB	3.63	4.45	1.80	3.2
KDRMA25L1DR	1.5	6.6	23.3	TB	3.63	4.45	1.81	3.2
KDRMA27L1DR	2	7.5	27	TB	3.63	4.45	1.82	4
KDRAA28L2DR	3	10.6	42	TB	4.44	4.25	3.53	3
KDRB22LDR	5	16.7	38	TB	5	6	4	8
KDRB23LDR	7.5	24.2	48	TB	5	6	4	8
HIGH - Z								
KDRMA21H1DR	0.25	1.4	8	TB	3.63	4.45	1.78	1.3
KDRMA22H1DR	0.5	2.4	24.9	TB	3.63	4.45	1.78	1.4
KDRMA23H1DR	0.75	3.5	16.1	TB	3.63	4.45	1.79	3.7
KDRMA24H1DR	1	4.6	28.7	TB	3.63	4.45	1.80	3
KDRMA25H1DR	1.5	6.6	28.6	TB	3.63	4.45	1.81	3
KDRMA26H1DR	2	7.5	32.5	TB	3.63	4.45	1.82	4
KDRAA28H2DR	3	10.6	44.6	TB	4.44	4.25	2.64	2.6
KDRB25HDR	5	16.7	53.1	TB	5	6	4	8
KDRB26HDR	7.5	24.2	66.5	TB	5	6	4	8

480 V Input

Part Number	NEC Motor HP	NEC Motor Current	Watts Loss	Standard Terms	Dimensions (in.)			Weight (lbs)
					Height	Width	Depth	
LOW - Z								
KDRMA1L1DR	0.25	0.7	5	TB	3.63	4.45	1.78	1.33
KDRMA2L1DR	0.33	0.8	6.2	TB	3.63	4.45	1.78	1.33
KDRMA3L1DR	0.5	1.1	9.7	TB	3.63	4.45	1.78	1.33
KDRMA4L1DR	0.75	1.6	12.1	TB	3.63	4.45	1.78	1.33
KDRMA5L1DR	1	2.1	25.2	TB	3.63	4.45	1.78	1.23
KDRMA6L1DR	1.5	3	26.4	TB	3.63	4.45	1.78	1.43
KDRMA7L1DR	2	3.4	23.5	TB	3.63	4.45	1.78	1.43
KDRMA8L1DR	3	4.8	30.6	TB	3.63	4.45	1.78	1.43
KDRAA6L2DR	4	6.2	39	TB	4.44	4.25	2.64	3.4
KDRAA3L2DR	5	7.6	45	TB	4.44	4.25	2.64	3.4
KDRAA4L2DR	7.5	11	63	TB	4.44	4.25	2.64	3.6
KDRAA5L2DR	10	14	77.7	TB	4.44	4.25	2.64	3.7
KDRB2LDR	15	21	65	TB	5	6	4	8
KDRB1LDR	20	27	79	TB	5	6	4	8
HIGH - Z								
KDRMA1H1DR	0.25	0.7	7.9	TB	3.63	4.45	1.78	1.3
KDRMA2H1DR	0.33	0.8	9.2	TB	3.63	4.45	1.78	1.5
KDRMA3H1DR	0.5	1.1	14.3	TB	3.63	4.45	1.78	1.3
KDRMA4H1DR	0.75	1.6	19.3	TB	3.63	4.45	1.78	1.4
KDRMA5H1DR	1	2.1	26.7	TB	3.63	4.45	1.78	1.4
KDRMA6H1DR	1.5	3	30	TB	3.63	4.45	1.78	1.6
KDRAA1H2DR	2	3.4	45	TB	4.78	4.25	2.64	2.8
KDRAA2H2DR	3	4.8	42	TB	4.78	4.25	2.64	3
KDRAA6H2DR	4	6.2	50	TB	4.78	4.25	2.64	3.4
KDRAA3H2DR	5	7.6	66	TB	4.78	4.25	2.64	3.7
KDRAA4H2DR	7.5	11	70	TB	4.78	4.25	2.64	4
KDRAA5H2DR	10	14	97.7	TB	4.78	4.25	2.64	4.2
KDRB2HDR	15	21	133	TB	5	6	4	7

KDR Series DIN Rail Line Reactors

600 V Input

Part Number	NEC Motor HP	NEC Motor Current	Watts Loss	Standard Terms	Dimensions (in.)			Weight (lbs)
					Height	Width	Depth	
LOW - Z								
KDRMA41L1DR	0.25	0.5	3.9	TB	3.63	4.45	1.78	1.2
KDRMA42L1DR	0.33	0.7	6.1	TB	3.63	4.45	1.78	1.2
KDRMA43L1DR	0.5	0.9	8.5	TB	3.63	4.45	1.78	1.1
KDRMA44L1DR	0.75	1.3	10.9	TB	3.63	4.45	1.78	1.3
KDRMA45L1DR	1	1.7	16.2	TB	3.63	4.45	1.78	1.3
KDRMA46L1DR	1.5	2.4	17.2	TB	3.63	4.45	1.78	1.4
KDRMA47L2DR	2	2.7	20.5	TB	3.63	4.45	1.78	1.5
KDRAA52L2DR	3	3.9	30	TB	4.44	4.25	2.64	3.5
KDRAA57L2DR	4	4.9	30	TB	4.44	4.25	2.64	2.9
KDRAA58L2DR	5	6.1	38.5	TB	4.44	4.25	2.64	3
KDRAA48L2DR	7.5	9	57	TB	4.44	4.25	2.64	3.2
KDRAA49L2DR	10	11	60.7	TB	4.44	4.25	2.64	3.8
KDRB45LDR	15	17	71.2	TB	5	6	4	8
KDRB44LDR	20	22	76.7	TB	5	6	4	8
KDRB43LDR	25	27	106	TB	5	6	4	8
HIGH - Z								
KDRMA41H1DR	0.25	0.5	5.9	TB	3.63	4.56	1.78	1.3
KDRMA42H1DR	0.33	0.7	9.1	TB	3.63	4.56	1.78	1.2
KDRMA43H1DR	0.5	0.9	12.9	TB	3.63	4.56	1.78	1.5
KDRMA44H1DR	0.75	1.3	14.6	TB	3.63	4.56	1.78	1.6
KDRMA45H1DR	1	1.7	27	TB	3.63	4.56	1.78	1.5
KDRAA46H2DR	1.5	2.4	31	TB	4.44	4.25	2.64	2.9
KDRAA47H2DR	2	2.7	37	TB	4.44	4.25	2.64	2.7
KDRAA52H2DR	3	3.9	47	TB	4.44	4.25	2.64	2.9
KDRAA57H2DR	4	4.9	48	TB	4.44	4.25	2.64	3.5
KDRAA58L2DR	5	6.1	44	TB	4.44	4.25	2.64	3.4
KDRB42HDR	7.5	9	61	TB	5	6	4	8
KDRB43HDR	10	11	71	TB	5	6	4	8
KDRB44HDR	15	17	73	TB	5	6	4	8

690 V Input

Part Number	NEC Motor HP	NEC Motor Current	Watts Loss	Standard Terms	Dimensions (in.)			Weight (lbs)
					Height	Width	Depth	
LOW - Z								
KDRMA41L1DR	0.25	0.5	3.9	TB	3.63	4.45	1.78	1.2
KDRMA42L1DR	0.33	0.7	6.1	TB	3.63	4.45	1.78	1.2
KDRMA43L1DR	0.5	0.9	8.5	TB	3.63	4.45	1.78	1.1
KDRMA44L1DR	0.75	1.3	10.9	TB	3.63	4.45	1.78	1.3
KDRMA45L1DR	1	1.7	16.2	TB	3.63	4.45	1.78	1.3
KDRMA46L1DR	1.5	2.4	17.2	TB	3.63	4.45	1.78	1.4
KDRAA47L2DR	2	2.7	20.5	TB	3.63	4.45	1.78	1.5
KDRAA52L2DR	3	3.9	30.1	TB	4.44	4.25	2.64	3.5
KDRAA57L2DR	4	4.9	29.9	TB	4.44	4.25	2.64	2.9
KDRAA58L2DR	5	6.1	38.5	TB	4.44	4.25	2.64	3
KDRAA48L2DR	7.5	9	56.8	TB	4.44	4.25	2.64	3.2
KDRAA49L2DR	10	11	43.8	TB	4.44	4.25	2.64	3.8
KDRB45LDRV	15	17	66.2	TB	5	6	4	8
KDRB44LDRV	20	22	71.2	TB	5	6	4	8
KDRB43LDRV	25	27	76.7	TB	5	6	4	8
HIGH - Z								
KDRMA41H1DR	0.25	0.5	5.9	TB	3.63	4.45	1.78	1.3
KDRMA42H1DR	0.33	0.7	9.1	TB	3.63	4.45	1.78	1.2
KDRMA43H1DR	0.5	0.9	12.9	TB	3.63	4.45	1.78	1.5
KDRMA44H1DR	0.75	1.3	14.6	TB	3.63	4.45	1.78	1.6
KDRMA45H1DR	1	1.7	27	TB	3.63	4.45	1.78	1.5
KDRAA46H2DR	1.5	2.4	26	TB	4.44	4.25	2.64	2.9
KDRAA43H2DR	2	2.7	23	TB	4.44	4.25	2.64	2.7
KDRAA44H2DR	3	3.9	34	TB	4.44	4.25	2.64	2.9
KDRAA57H2DR	4	4.9	6	TB	4.44	4.25	2.64	3.5
KDRAA58H2DR	5	6.1	6.8	TB	4.44	4.25	2.64	3.4
KDRAA42HDRV	7.5	9	10	TB	4.44	4.25	2.64	8
KDRB43HDRV	10	11	11	TB	5	6	4	8
KDRB44HDRV	15	17	18.5	TB	5	6	4	8

KLR Series Three-Phase Reactors

The KLR Line Reactor offers impedance against the flow of harmonics and other high frequencies that can cause tripping and equipment failure. Drives and other sensitive devices are protected by the KLR from electrical distortion on the line including harmonics.

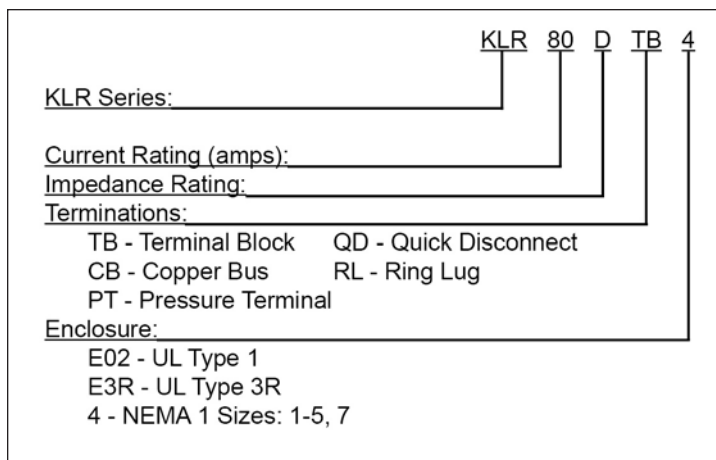
Advantages of the KLR Line Reactor

- Extends the life of the motor on the output of the VFD
- Protects other equipment on the line from operational issues caused by voltage distortion
- Dramatically increases drive uptime by reducing the likelihood of the drive tripping
- Improves power factor
- Reduces motor heating and audible noise
- Increases system productivity
- Helps to meet IEEE 519-2014



Prevent Drive Shutdown

Transient voltages on the AC power lines can cause inrush currents to a VFD drive, resulting in an overvoltage condition of the DC bus. These transient voltage conditions are often caused by utility capacitor switching and will cause VFDs to shut down without warning. The addition of a KLR line reactor will limit the magnitude of inrush current, preventing trips and component failures.



KLR Series Three-Phase Reactors

480 V - 3% Z

575 V - 2.4% Z

240 V - 6% Z

Part Number	NEC Motor HP			Rated Amps	Watts Loss	Stand. Terms	Dimensions (in.) Height x Width x Depth	Open Weight (lbs)	NEMA 1 Enclosed
	480 V	575V	240 V						Part Number *
KLR2ATB	1	1	-	2	8	TB	4.00 x 4.25 x 3.00	3	KLR2ATB1
KLR3ATB	1.5	1.5-2	.5	3	9	TB	4.00 x 4.25 x 3.00	3	KLR3ATB1
KLR4ATB	2	3	.75	4	15	TB	4.00 x 4.25 x 3.00	3	KLR4ATB1
KLR6ATB	3	3	1-1.5	6	17	TB	4.00 x 4.25 x 3.00	3	KLR6ATB1
KLR8ATB	5	5	2	8	27	TB	4.00 x 5.00 x 4.00	3	KLR8ATB1
KLR12ATB	7.5	7.5-10	3	12	31	TB	5.00 x 7.00 x 5.00	6	KLR12ATB1
KLR16ATB	10	10	5	16	38	TB	5.75 x 6.00 x 4.00	7	KLR16ATB1
KLR18ATB	12	15	5	18	40	TB	5.75 x 8.00 x 5.00	11	KLR18ATB2
KLR21ATB	15	15	5	21	45	TB	5.75 x 8.00 x 5.00	11	KLR21ATB2
KLR25ATB	15	20	7.5	25	48	TB	5.75 x 8.00 x 5.00	11	KLR25ATB2
KLR27ATB	20	25	7.5	27	58	TB	5.75 x 8.00 x 5.00	11	KLR27ATB2
KLR35ATB	20-25	30	10	35	70	TB	5.75 x 8.00 x 5.00	14	KLR35ATB2
KLR45ATB	30	40	15	45	74	TB	5.75 x 8.00 x 5.00	14	KLR45ATB2
KLR55ATB	40	50	20	55	113	TB	7.00 x 9.00 x 6.00	22	KLR55ATB3
KLR80ATB	50-60	60-75	25-30	80	129	TB	9.00 x 11.00 x 6.00	31	KLR80ATB4
KLR110ACB	75	100	40	110	152	CB	9.00 x 11.00 x 7.00	39	KLR110ACB4
KLR130ACB	100	125	50	130	148	CB	9.00 x 11.00 x 8.00	48	KLR130ACB4
KLR160ACB	125	150	60	160	165	CB	9.00 x 11.00 x 8.00	50	KLR160ACB4
KLR200ACB	150	200	75	200	222	CB	11.38 x 14.00 x 8.00	86	KLR200ACB5
KLR250ACB	200	250	100	250	261	CB	11.38 x 14.00 x 8.00	91	KLR250ACB5
KLR300ACB	250	300	100	300	291	CB	11.38 x 14.00 x 8.00	101	KLR300ACB5
KLR360ACB	300	350	125-150	360	380	CB	11.38 x 14.00 x 8.00	90	KLR360ACB5
KLR420ACB	350	400-450	150	420	40	CB	11.38 x 14.00 x 8.00	100	KLR420ACB5
KLR480ACB	400	500	200	480	392	CB	11.38 x 15.00 x 11.00	115	KLR480ACB5
KLR600ACB	450	625	250	600	493	CB	11.38 x 15.00 x 13.00	151	KLR600ACB5
KLR750ACB	500	720	300	750	515	CB	17.25 x 16.94 x 10.25	283	KLR750ACB7
KLR850ACB	750	800	350	850	569	CB	17.25 x 16.94 x 10.25	290	KLR850ACB7
KLR950ACB	800	975	390	950	686	CB	17.25 x 16.94 x 10.25	295	KLR950ACB7

*For enclosed unit dimensions and added weight, please refer to the Reactor Enclosure page.

KLR Series Three-Phase Reactors

480 V - 1.5% Z

240 V - 3% Z

Part Number	NEC Motor HP			Rated Amps	Watts Loss	Stand. Terms	Dimensions (in.) Height x Width x Depth	Open Weight (lbs)	NEMA 1 Enclosed Part Number *
	480 V	575V	240 V						
KLR2BTB	1		-	2	4	TB	4.00 x 5.00 x 4.00	3	KLR2BTB1
KLR3BTB	1.5		0.5	3	5	TB	4.00 x 5.00 x 4.00	3	KLR3BTB1
KLR4BTB	2		0.75	4	9	TB	4.00 x 5.00 x 4.00	3	KLR4BTB1
KLR6BTB	3		1-1.5	6	9	TB	4.00 x 5.00 x 4.00	3	KLR6BTB1
KLR8BTB	5		2	8	14	TB	4.00 x 5.00 x 4.00	3	KLR8BTB1
KLR12BTB	7.5		3	12	20	TB	4.00 x 5.00 x 4.00	3	KLR12BTB1
KLR16BTB	10		5	16	20	TB	5.00 x 6.00 x 4.00	7	KLR16BTB1
KLR18BTB	12		5	18	27	TB	6.00 x 7.00 x 4.00	8	KLR18BTB2
KLR21BTB	15		5	21	30	TB	6.00 x 7.00 x 4.00	8	KLR21BTB2
KLR25BTB	15		7.5	25	36	TB	6.00 x 7.00 x 4.00	8	KLR25BTB2
KLR27BTB	20		7.5	27	43	TB	6.00 x 7.00 x 4.00	8	KLR27BTB2
KLR35BTB	20 - 25		10	35	55	TB	6.00 x 7.00 x 4.00	8	KLR35BTB2
KLR45BTB	30		15	45	59	TB	6.00 x 7.00 x 4.00	8	KLR45BTB2
KLR55BTB	40		20	55	70	TB	5.75 x 8.00 x 5.00	11	KLR55BTB2
KLR80BTB	50 - 60		25-30	80	105	TB	7.00 x 9.00 x 6.00	22	KLR80BTB3
KLR110BCB	75		40	110	95	CB	7.00 x 10.00 x 7.00	26	KLR110BCB4
KLR130BCB	100		50	130	117	CB	9.00 x 11.00 x 7.00	33	KLR130BCB4
KLR160BCB	125		60	160	127	CB	9.00 x 11.00 x 7.00	47	KLR160BCB4
KLR200BCB	150		75	200	135	CB	9.00 x 11.00 x 7.00	53	KLR200BCB4
KLR250BCB	200		100	250	161	CB	9.00 x 11.00 x 7.00	48	KLR250BCB4
KLR300BCB	250		100	300	216	CB	9.00 x 11.00 x 9.00	54	KLR300BCB5
KLR360BCB	300		125-150	360	221	CB	9.00 x 11.00 x 9.00	65	KLR360BCB5
KLR420BCB	350		150	420	275	CB	11.38 x 14.00 x 8.00	85	KLR420BCB5
KLR480BCB	400		200	480	267	CB	11.38 x 14.00 x 8.00	90	KLR480BCB5
KLR600BCB	450		250	600	338	CB	11.38 x 14.00 x 8.00	96	KLR600BCB5
KLR750BCB	500		300	750	372	CB	12.38 x 13.44 x 10.25	147	KLR750BCB7
KLR850BCB	750		350	850	389	CB	12.38 x 13.44 x 10.25	150	KLR850BCB7
KLR950BCB	800		390	950	479	CB	12.38 x 13.44 x 10.25	156	KLR950BCB7
KLR1100BCB	1100			1100		CB			KLR1100BCB7
KLR1500BCB				1500		CB			KLR1500BCB7

*For enclosed unit dimensions and added weight, please refer to the Reactor Enclosure page.

KLR Series Three-Phase Reactors

480 V 5% Z

Part Number	NEC Motor HP			Rated Amps	Watts Loss	Stand. Terms	Dimensions (in.) Height x Width x Depth	Open Weight (lbs)	NEMA 1 Enclosed Part Number *
	480 V	575V	240 V						
KLR2CTB	1			2	11	TB	4.00 x 5.00 x 4.00	3	KLR2CTB1
KLR3CTB	1.5			3	14	TB	4.00 x 5.00 x 4.00	3	KLR3CTB1
KLR4CTB	2			4	23	TB	4.00 x 5.00 x 4.00	3	KLR4CTB1
KLR6CTB	3			6	22	TB	5.00 x 7.00 x 5.00	6	KLR6CTB1
KLR8CTB	5			8	34	TB	5.00 x 7.00 x 5.00	6	KLR8CTB1
KLR12CTB	7.5			12	54	TB	5.00 x 7.00 x 5.00	6	KLR12CTB1
KLR16CTB	10			16	58	TB	5.75 x 8.00 x 5.00	12	KLR16CTB2
KLR18CTB	12			18	75	TB	5.75 x 8.00 x 5.00	12	KLR18CTB2
KLR21CTB	15			21	59	TB	5.75 x 8.00 x 5.00	14	KLR21CTB2
KLR25CTB	15			25	67	TB	5.75 x 8.00 x 5.00	14	KLR25CTB2
KLR27CTB	20			27	80	TB	5.75 x 8.00 x 5.00	14	KLR27CTB2
KLR35CTB	20 - 25			35	97	TB	7.00 x 9.00 x 6.00	22	KLR35CTB3
KLR45CTB	30			45	118	TB	7.00 x 9.00 x 6.00	24	KLR45CTB3
KLR55CTB	40			55	150	TB	9.00 x 11.00 x 6.00	32	KLR55CTB4
KLR80CTB	50 - 60			80	154	TB	9.00 x 11.00 x 7.00	48	KLR80CTB4
KLR110CCB	75			110	191	CB	9.00 x 11.00 x 8.00	50	KLR110CCB4
KLR130CCB	100			130	239	CB	11.38 x 14.00 x 8.00	81	KLR130CCB5
KLR160CCB	125			160	254	CB	11.38 x 14.00 x 8.00	84	KLR160CCB5
KLR200CCB	150			200	337	CB	11.38 x 14.00 x 8.00	110	KLR200CCB5
KLR250CCB	200			250	353	CB	11.38 x 14.00 x 10.00	91	KLR250CCB5
KLR300CCB	250			300	443	CB	11.38 x 15.00 x 11.00	122	KLR300CCB5
KLR360CCB	300			360	406	CB	11.38 x 15.00 x 11.00	156	KLR360CCB5
KLR420CCB	350			420	500	CB	11.38 x 15.00 x 13.00	160	KLR420CCB5
KLR480CCB	400			480	522	CB	11.38 x 15.00 x 13.00	175	KLR480CCB5
KLR600CCB	450			600	650	CB	17.25 x 16.94 x 10.25	275	KLR600CCB7
KLR750CCB	500			750	732	CB	17.25 x 16.94 x 10.25	295	KLR750CCB7
KLR850CCB	750			850	850	CB	17.25 x 16.94 x 10.25	300	KLR850CCB7
KLR950CCB	800			950	978	CB	17.25 x 16.94 x 10.25	305	KLR950CCB7

*For enclosed unit dimensions and added weight, please refer to the Reactor Enclosure page.

KLR Series Three-Phase Reactors

575 V 3% Z

Part Number	NEC Motor HP			Rated Amps	Watts Loss	Stand. Terms	Dimensions (in.)	Open Weight (lbs)	NEMA 1 Enclosed
	480 V	575V	240 V				Height x Width x Depth		Part Number *
KLR2DTB		1		2	9	TB	4.00 x 5.00 x 4.00	4	KLR2DTB1
KLR3DTB		1.5 - 2		3	12	TB	4.00 x 5.00 x 4.00	4	KLR3DTB1
KLR4DTB		3		4	18	TB	4.00 x 4.25 x 3.00	4	KLR4DTB1
KLR6DTB		3		6	22	TB	4.00 x 5.00 x 4.00	5	KLR6DTB1
KLR8DTB		5		8	28	TB	5.00 x 7.00 x 5.00	7	KLR8DTB1
KLR12DTB		7.5		12	44	TB	5.00 x 7.00 x 5.00	7	KLR12DTB1
KLR16DTB		10		16	52	TB	5.00 x 6.00 x 4.00	8	KLR16DTB1
KLR18DTB		15		18	44	TB	5.75 x 8.00 x 5.00	12	KLR18DTB2
KLR21DTB		15		21	51	TB	5.75 x 8.00 x 5.00	13	KLR21DTB2
KLR25DTB		20		25	72	TB	5.75 x 8.00 x 5.00	13	KLR25DTB2
KLR27DTB		25		27	62	TB	5.75 x 8.00 x 5.00	13	KLR27DTB2
KLR35DTB		30		35	79	TB	5.75 x 8.00 x 5.00	16	KLR35DTB2
KLR45DTB		40		45	90	TB	7.00 x 9.00 x 6.00	26	KLR45DTB3
KLR55DTB		50		55	90	TB	7.00 x 9.00 x 6.00	24	KLR55DTB3
KLR80DTB		60 - 75		80	116	TB	9.00 x 11.00 x 7.00	49	KLR80DTB4
KLR110DCB		100		110	217	CB	9.50 x 10.56 x 8.25	49	KLR110DCB4
KLR130DCB		125		130	242	CB	9.50 x 10.56 x 8.25	47	KLR130DCB4
KLR160DCB		150		160	261	CB	9.00 x 11.00 x 7.00	47	KLR160DCB4
KLR200DCB		200		200	270	CB	12.38 x 13.44 x 9.00	86	KLR200DCB5
KLR250DCB		250		250	316	CB	12.38 x 13.44 x 9.00	91	KLR250DCB5
KLR300DCB		300		300	335	CB	12.38 x 13.44 x 9.00	101	KLR300DCB5
KLR360DCB		350		360	420	CB	12.38 x 13.44 x 9.00	98	KLR360DCB5
KLR420DCB		400		420	435	CB	12.38 x 13.44 x 9.00	100	KLR420DCB5
KLR480DCB		500		480	395	CB	12.38 x 13.44 x 10.25	175	KLR480DCB5
KLR600DCB		600		600	580	CB	12.38 x 13.44 x 10.25	151	KLR600DCB5
KLR750DCB		700		750	604	CB	18.00 x 18.00 x 13.00	270	KLR750DCB7
KLR850DCB		800		850	703	CB	18.00 x 18.00 x 12.00	275	KLR850DCB7
KLR950DCB		900		950	773	CB	18.00 x 18.00 x 12.00	280	KLR950DCB7

*For enclosed unit dimensions and added weight, please refer to the Reactor Enclosure page.

KLR Series Three-Phase Reactors

575 V 5% Z

Part Number	NEC Motor HP			Rated Amps	Watts Loss	Stand. Terms	Dimensions (in.)	Open Weight (lbs)	NEMA 1 Enclosed
	480 V	575V	240 V				Height x Width x Depth		Part Number *
KLR2ETB		1		2	13	TB	4.00 x 5.00 x 4.00	4	KLR2ETB1
KLR3ETB		1.5 - 2		3	17	TB	4.00 x 5.00 x 4.00	5	KLR3ETB1
KLR4ETB		3		4	27	TB	4.00 x 5.00 x 4.00	5	KLR4ETB1
KLR6ETB		3		6	28	TB	5.00 x 7.00 x 5.00	7	KLR6ETB1
KLR8ETB		5		8	48	TB	5.00 x 7.00 x 5.00	7	KLR8ETB1
KLR12ETB		7.5		12	56	TB	5.75 x 8.00 x 5.00	8	KLR12ETB2
KLR16ETB		10		16	67	TB	5.75 x 8.00 x 5.00	13	KLR16ETB2
KLR18ETB		15		18	73	TB	5.60 x 6.94 x 3.44	12	KLR18ETB2
KLR21ETB		15		21	69	TB	5.75 x 8.00 x 5.00	17	KLR21ETB2
KLR25ETB		20		25	92	TB	7.00 x 9.00 x 6.00	17	KLR25ETB3
KLR27ETB		25		27	94	TB	7.00 x 9.00 x 6.00	17	KLR27ETB3
KLR35ETB		30		35	125	TB	7.00 x 9.00 x 6.00	23	KLR35ETB3
KLR45ETB		40		45	146	TB	7.00 x 9.00 x 7.00	26	KLR45ETB4
KLR55ETB		50		55	132	TB	7.00 x 10.00 x 7.00	33	KLR55ETB4
KLR80ETB		60 - 75		80	178	TB	9.00 x 11.00 x 7.00	49	KLR80ETB4
KLR110ECB		100		110	259	CB	8.50 x 14.00 x 8.00	53	KLR110ECB5
KLR130ECB		125		130	287	CB	11.38 x 14.00 x 8.00	88	KLR130ECB5
KLR160ECB		150		160	299	CB	11.38 x 14.00 x 8.00	95	KLR160ECB5
KLR200ECB		200		200	349	CB	11.38 x 14.00 x 9.00	110	KLR200ECB5
KLR250ECB		250		250	375	CB	11.38 x 14.00 x 9.00	115	KLR250ECB5
KLR300ECB		300		300	422	CB	11.38 x 15.00 x 11.00	122	KLR300ECB5
KLR360ECB		350		360	463	CB	11.38 x 15.00 x 11.00	156	KLR360ECB5
KLR420ECB		400		420	532	CB	11.38 x 15.00 x 11.00	160	KLR420ECB5
KLR480ECB		500		480	576	CB	11.38 x 15.00 x 11.00	175	KLR480ECB5
KLR600ECB		600		600	782	CB	17.25 x 16.94 x 10.25	275	KLR600ECB5
KLR750ECB		700		750	929	CB	18.00 x 18.00 x 13.00	260	KLR750ECB7
KLR850ECB		800		850	1007	CB	18.00 x 18.00 x 12.00	290	KLR850ECB7
KLR950ECB		900		950	1100	CB	18.00 x 18.00 x 12.00	290	KLR950ECB7
KLR1250ECB				1250		CB			

*For enclosed unit dimensions and added weight, please refer to the Reactor Enclosure page.

KLR Series Three-Phase Reactors

690 V 3% Z

Part Number	NEC Motor HP	Rated Amps	Watts Loss	Stand. Terms	Dimensions (in.) Height x Width x Depth	Open Weight (lbs)	NEMA 1 Enclosed Part Number *
KLR2DQDV	1	2	9	QD	4.00 x 4.18 x 3.75	4	KLR2DQD1V
KLR3DQDV	1.5 - 2	3	12	QD	4.00 x 4.18 x 3.75	4	KLR3DQD1V
KLR4DQDV	3	4	18	QD	4.00 x 4.18 x 3.75	4	KLR4DQD1V
KLR6DQDV	3	6	22	QD	4.00 x 4.18 x 3.75	5	KLR6DQD1V
KLR8DQDV	5	8	28	QD	5.00 x 6.00 x 4.00	7	KLR8DQD1V
KLR12DQDV	7.5	12	44	QD	5.00 x 6.00 x 4.00	7	KLR12DQD1V
KLR16DRLV	10	16	52	RL	5.00 x 6.00 x 4.50	8	KLR16DRL1V
KLR18DRLV	15	18	44	RL	5.75 x 7.20 x 5.00	12	KLR18DRL2V
KLR21DRLV	15	21	51	RL	5.75 x 7.20 x 5.00	13	KLR21DRL2V
KLR25DRLV	20	25	72	RL	5.75 x 7.20 x 5.00	13	KLR25DRL2V
KLR27DRLV	25	27	62	RL	5.75 x 7.20 x 5.00	13	KLR27DRL2V
KLR35DRLV	30	35	79	RL	5.75 x 7.20 x 5.12	16	KLR35DRL3V
KLR45DRLV	40	45	90	RL	7.00 x 9.00 x 6.00	26	KLR45DRL3V
KLR55DRLV	50	55	90	RL	7.00 x 9.00 x 6.00	24	KLR55DRL3V
KLR80DRLV	60 - 75	80	116	RL	9.00 x 11.00 x 7.50	49	KLR80DRL4V
KLR110DCBV	100	110	217	CB	9.00 x 11.00 x 7.50	49	KLR110DCB4V
KLR130DCBV	125	130	242	CB	9.00 x 11.00 x 7.50	47	KLR130DCB4V
KLR160DCBV	150	160	261	CB	9.00 x 11.00 x 7.50	47	KLR160DCB4V
KLR200DCBV	200	200	270	CB	11.38 x 14.00 x 9.31	86	KLR200DCB5V
KLR250DCBV	250	250	316	CB	11.38 x 14.00 x 9.31	91	KLR250DCB5V
KLR300DCBV	300	300	335	CB	11.38 x 14.00 x 9.31	101	KLR300DCB5V
KLR360DCBV	350	360	420	CB	11.38 x 14.00 x 9.31	98	KLR360DCB5V
KLR420DCBV	400	420	435	CB	11.38 x 14.00 x 9.31	100	KLR420DCB5V
KLR480DCBV	500	480	395	CB	11.38 x 15.00 x 13.00	175	KLR480DCB5V
KLR600DCBV	600	600	580	CB	11.38 x 15.00 x 13.00	151	KLR600DCB5V
KLR750DCBV	700	750	604	CB	18.00 x 18.00 x 13.00	270	KLR750DCB7V
KLR850DCBV	800	850	703	CB	18.00 x 18.50 x 14.25	275	KLR850DCB7V
KLR950DCBV	900	950	773	CB	18.00 x 18.50 x 14.25	280	KLR950DCB7V

*For enclosed unit dimensions and added weight, please refer to the Reactor Enclosure page.
Note: UL Listed available upon request.

KLR Series Three-Phase Reactors

690 V 5% Z

Part Number	NEC Motor HP	Rated Amps	Watts Loss	Stand. Terms	Dimensions (in.) Height x Width x Depth	Open Weight (lbs)	NEMA 1 Enclosed Part Number *
KLR2EQDV	1	2	13	QD	4.00 x 4.18 x 3.75	4	KLR2EQD1V
KLR3EQDV	1.5 - 2	3	17	QD	4.00 x 4.18 x 3.75	5	KLR3EQD1V
KLR4EQDV	3	4	27	QD	4.00 x 4.18 x 3.75	5	KLR4EQD1V
KLR6EQDV	3	6	28	QD	5.00 x 6.00 x 4.00	7	KLR6EQD1V
KLR8EQDV	5	8	48	QD	5.00 x 6.00 x 4.00	7	KLR8EQD1V
KLR12ERLV	7.5	12	56	RL	5.75 x 7.20 x 5.00	8	KLR12ERL2V
KLR16ERLV	10	16	67	RL	5.75 x 7.20 x 5.00	13	KLR16ERL2V
KLR18ERLV	15	18	73	RL	5.75 x 7.20 x 5.12	12	KLR18ERL3V
KLR21ERLV	15	21	69	RL	5.75 x 7.20 x 5.12	17	KLR21ERL3V
KLR25ERLV	20	25	92	RL	7.00 x 9.00 x 6.00	17	KLR25ERL3V
KLR27ERLV	25	27	94	RL	7.00 x 9.00 x 6.00	17	KLR27ERL3V
KLR35ERLV	30	35	125	RL	7.00 x 9.00 x 6.00	23	KLR35ERL3V
KLR45ERLV	40	45	146	RL	9.00 x 11.00 x 6.50	26	KLR45ERL4V
KLR55ERLV	50	55	132	RL	9.00 x 11.00 x 7.50	33	KLR55ERL4V
KLR80ERLV	60 - 75	80	178	RL	9.00 x 11.00 x 7.50	49	KLR80ERL4V
KLR110ECBV	100	110	259	CB	11.38 x 14.00 x 9.31	53	KLR110ECB5V
KLR130ECBV	125	130	287	CB	11.38 x 14.00 x 9.31	88	KLR130ECB5V
KLR160ECBV	150	160	299	CB	11.38 x 14.00 x 9.31	95	KLR160ECB5V
KLR200ECBV	200	200	349	CB	11.38 x 14.00 x 9.31	110	KLR200ECB5V
KLR250ECBV	250	250	375	CB	11.38 x 14.00 x 10.00	115	KLR250ECB5V
KLR300ECBV	300	300	422	CB	11.38 x 15.00 x 13.00	122	KLR300ECB5V
KLR360ECBV	350	360	463	CB	11.38 x 15.00 x 13.00	156	KLR360ECB5V
KLR420ECBV	400	420	532	CB	11.38 x 15.00 x 13.00	160	KLR420ECB5V
KLR480ECBV	500	480	576	CB	11.38 x 15.00 x 13.00	175	KLR480ECB5V
KLR600ECBV	600	600	782	CB	16.50 x 21.00 x 13.00	275	KLR600ECB7V
KLR750ECBV	700	750	929	CB	18.00 x 18.00 x 13.00	260	KLR750ECB7V
KLR850ECBV	800	850	1007	CB	18.00 x 18.50 x 14.25	290	KLR850ECB7V
KLR950ECBV	900	950	1100	CB	18.00 x 18.50 x 14.25	290	KLR950ECB7V

*For enclosed unit dimensions and added weight, please refer to the Reactor Enclosure page.

KLR Series DIN Rail Line Reactors

480 V - 3% Z

575 V - 2.4% Z

240 V - 6% Z

Part Number	480 V HP	Rated Amps	Watts Loss	Stand. Terms	Dimensions (in.)			Weight (lbs)
					Height	Width	Depth	
KLR2ATBDR	1	2	8	TB	4.00	4.25	3.00	4
KLR3ATBDR	1.5	3	9	TB	4.00	4.25	3.00	4
KLR4ATBDR	2	4	15	TB	4.00	4.25	3.00	4
KLR6ATBDR	3	6	17	TB	4.00	4.25	3.00	5
KLR8ATBDR	5	8	27	TB	4.00	5.00	4.00	5
KLR12ATBDR	7.5	12	31	TB	5.00	7.00	5.00	7
KLR16ATBDR	10	16	38	TB	5.00	6.00	4.00	8

480 V - 1.5% Z

240 V - 3% Z

Part Number	480 V HP	Rated Amps	Watts Loss	Stand. Terms	Dimensions (in.)			Weight (lbs)
					Height	Width	Depth	
KLR2BTBDR	1	2	4	TB	4.00	5.00	4.00	4
KLR3BTBDR	1.5	3	5	TB	4.00	5.00	4.00	4
KLR4BTBDR	2	4	9	TB	4.00	5.00	4.00	4
KLR6BTBDR	3	6	9	TB	4.00	5.00	4.00	4
KLR8BTBDR	5	8	14	TB	4.00	5.00	4.00	4
KLR12BTBDR	7.5	12	20	TB	4.00	5.00	4.00	4
KLR16BTBDR	10	16	20	TB	5.00	6.00	4.00	7

480 V - 5% Z

Part Number	480 V HP	Rated Amps	Watts Loss	Stand. Terms	Dimensions (in.)			Weight (lbs)
					Height	Width	Depth	
KLR2CTBDR	1	2	11	TB	4.00	5.00	4.00	4
KLR3CTBDR	1.5	3	14	TB	4.00	5.00	4.00	5
KLR4CTBDR	2	4	23	TB	4.00	5.00	4.00	5
KLR6CTBDR	3	6	22	TB	5.00	7.00	5.00	7
KLR8CTBDR	5	8	34	TB	5.00	7.00	5.00	7
KLR12CTBDR	7.5	12	54	TB	5.00	7.00	5.00	8

575 V - 3% Z

Part Number	575 V HP	Rated Amps	Watts Loss	Stand. Terms	Dimensions (in.)			Weight (lbs)
					Height	Width	Depth	
KLR2DTBDR	1	2	9	TB	4.00	5.00	4.00	4
KLR3DTBDR	1.5 - 2	3	12	TB	4.00	5.00	4.00	4
KLR4DTBDR	3	4	18	TB	4.00	4.25	3.00	4
KLR6DTBDR	3	6	22	TB	4.00	5.00	4.00	5
KLR8DTBDR	5	8	28	TB	5.00	7.00	5.00	7
KLR12DTBDR	7.5	12	44	TB	5.00	7.00	5.00	7
KLR16DTBDR	10	16	52	TB	5.00	6.00	4.00	8

KLR Series DIN Rail Line Reactors

575 V - 5% Z

Part Number	575 V HP	Rated Amps	Watts Loss	Stand. Terms	Dimensions (in.)			Weight (lbs)
					Height	Width	Depth	
KLR2ETBDR	1	2	13	TB	4.00	5.00	4.00	4
KLR3ETBDR	1.5 - 2	3	17	TB	4.00	5.00	4.00	5
KLR4ETBDR	3	4	27	TB	4.00	5.00	4.00	5
KLR6ETBDR	3	6	28	TB	5.00	7.00	5.00	7
KLR8ETBDR	5	8	48	TB	5.00	7.00	5.00	7

690 V - 3% Z

Part Number	690 V HP	Rated Amps	Watts Loss	Stand. Terms	Dimensions (in.)			Weight (lbs)
					Height	Width	Depth	
KLR2DQDDRV	1	2	9	QD	4.31	4.18	4.75	4
KLR3DQDDRV	1.5 - 2	3	12	QD	4.31	4.18	4.75	4
KLR4DQDDRV	3	4	18	QD	4.31	4.18	4.75	4
KLR6DQDDRV	3	6	22	QD	4.31	4.18	4.75	5
KLR8DQDDRV	5	8	28	QD	5.25	4.20	6.00	7
KLR12DQDDRV	7.5	12	44	QD	5.25	4.20	6.00	7
KLR16DRLDRV	10	16	52	RL	5.25	4.75	6.00	8

690 V - 5% Z

Part Number	690 V HP	Rated Amps	Watts Loss	Stand. Terms	Dimensions (in.)			Weight (lbs)
					Height	Width	Depth	
KLR2EQDDRV	1	2	13	QD	4.31	4.18	4.75	4
KLR3EQDDRV	1.5 - 2	3	17	QD	4.31	4.18	4.75	5
KLR4EQDDRV	3	4	27	QD	4.31	4.18	4.75	5
KLR6EQDDRV	3	6	28	QD	5.25	4.20	6.00	7
KLR8EQDDRV	5	8	48	QD	5.25	4.20	6.00	7

Enclosures & Options

UL Type 1 Enclosure

*Part Number	Dimensions (in.) Height x Width x Depth	Weight (lbs)
E011	12.25 x 12.50 x 6.75	10.4
E012	19.13 x 15.43 x 15.43	37
E013	22.13 x 20.43 x 24.37	66
E014	36.00 x 28.39 x 30.19	160
E015	48.00 x 36.27 x 36.27	310

UL Type 3R Enclosure

*Part Number	Dimensions (in.) Height x Width x Depth	Weight (lbs)
E3R1	11.50 x 10.00 x 12.00	15
E3R2	19.18 x 15.62 x 19.50	38
E3R3	22.15 x 20.62 x 28.50	70
E3R4	36.00 x 28.39 x 36.86	170

NEMA 1 Enclosure

*Part Number	Dimensions (in.) Height x Width x Depth	Weight (lbs)
C1	6.50 x 8.00 x 6.00	4
C2	7.50 x 10.00 x 7.00	6
C3	9.00 x 12.00 x 8.00	12
C4	15.50 x 15.00 x 13.00	35
C5	18.50 x 20.00 x 16.00	50
C7	36.00 x 28.50 x 30.30	160

Din Rail Kit

Part Number
DR01
DR02

Adapter Plate Kit

Part Number
AP02
AP03

Reactor Lug Kits

Part Number
SLK10
SLK11
SLK12
SLK13
SLK14
SLK15
SLK16
SLK17
SLK18
SLK21
SLK17-BB
SLK18-BB

*Enclosures are sized on the standard product designs. When adding an option, such as pressure terminals (PT), enclosure sizes are subject to change.

**Units ship LTL due to size.

Terminations	Type	AMP Range	Connection Type
TB	Terminal Block	2 - 80 (std.)	#4 - #18
QD	Quick Disconnect	2 - 12	1/4" Female Faston
ST	Screw Terminal	2 - 12	#6 (Supplied)
FL	Flying Lead	2 - 80	2' Std; 2 - 18# Leads
RL	Ring Lugs	16 - 80	.25 - .38 Bolt
CB	Copper Bus	110 - 950 (std)	600 mcm - #4
PT	Pressure Terminal	110 - 950	600 mcm - #4

Section 2:

Motor Protection Solutions

KMG MotorGuard Sine Wave Output Filter

The MotorGuard Sine Wave Output Filter has been designed to be installed at the output terminals of Pulse width modulated (PWM) devices. The MotorGuard converts the PWM wave form to a near sinusoidal wave form, allowing sensitive applications to take advantage of the efficiencies and savings that PWM output power supplies offer.



Typical Applications

As Pulse Width Modulated (PWM) Drives are incorporated into various applications and processes, the increased energy savings and decreased maintenance on variable frequency drives can be offset by increases in motor failures.

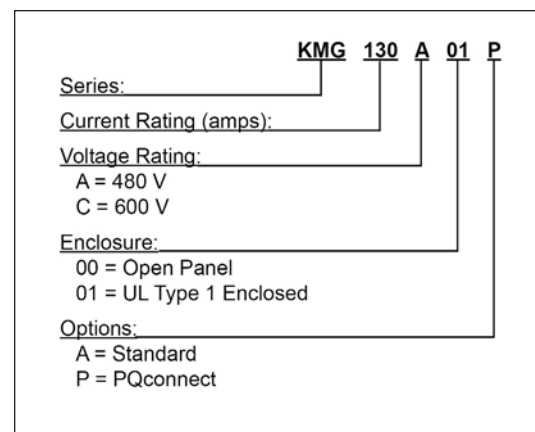
The MotorGuard product family has been designed as an engineered solution for motor failures due to the reflected wave phenomenon.

PQconnect Technology

Using the KMG with PQconnect technology ensures all the high value electrical pumping assets are being protected from failure. The KMG with PQconnect enables pumping and VFD process control adjustments to optimize uptime and prevent power quality issues. Real-time power quality data can be used to monitor and trend for early detection of abnormal conditions.

Application Benefits

- Eliminates Torque Ripple
- Eliminates Voltage Wave Reflection
- Can reach 15,000 feet for specific applications
- Reduces Motor Noise, Vibration, and Heat
- Increases Motor Life
- Can be used with virtually all AC induction motors, lead lengths and lead types
- Can be used with a wide range of carrier frequencies from 2 kHz to 16 kHz.
- Enables systems to meet NEMA MG-1, Part 31 specification
- Modbus RTU communications
- Real-time access to waveforms and equipment performance for SCADA systems
- Monitors status of filter components and performance



KMG MotorGuard Sine Wave Output Filter

480 V with PQconnect

Open Part Number	NEC Motor HP	Rated Amps	Watts Loss	Dimensions (in.)	UL Type 1 Enclosed	
				Height x Width x Depth	Part Number *	Height x Width x Depth
KMG8A00P	5	8	300	30.75 x 17.22 x 9.00	KMG8A01P	31.38 x 17.50 x 12.12
KMG12A00P	7.5	12	350	30.75 x 17.22 x 12.00	KMG12A01P	31.38 x 17.50 x 12.12
KMG16A00P	10	16	400	30.75 x 17.22 x 12.00	KMG16A01P	31.38 x 17.50 x 12.12
KMG23A00P	15	23	550	30.75 x 17.00 x 12.00	KMG23A01P	31.38 x 17.50 x 12.12
KMG30A00P	20	30	650	30.75 x 17.00 x 12.00	KMG30A01P	31.38 x 17.50 x 12.12
KMG35A00P	25	35	750	30.75 x 17.00 x 12.00	KMG35A01P	31.38 x 17.50 x 12.12
KMG45A00P	30	45	850	30.75 x 17.00 x 12.00	KMG45A01P	31.38 x 17.50 x 12.12
KMG55A00P	40	55	1000	30.75 x 17.00 x 12.00	KMG55A01P	31.38 x 17.50 x 12.12
KMG65A00P	50	65	1100	56.00 x 17.00 x 14.00	KMG65A01P	56.00 x 17.50 x 16.40
KMG80A00P	60	80	1550	56.00 x 17.00 x 14.00	KMG80A01P	56.00 x 17.50 x 16.40
KMG110A00P	75	110	1700	56.00 x 17.00 x 14.00	KMG110A01P	56.00 x 17.50 x 16.40
KMG130A00P	100	130	2050	56.00 x 17.00 x 14.00	KMG130A01P	56.00 x 17.50 x 16.40
KMG160A00P	125	160	2450	56.00 x 17.00 x 14.00	KMG160A01P	56.00 x 17.50 x 16.40
KMG200A00P	150	200	3300	56.00 x 17.00 x 14.00	KMG200A01P	56.00 x 17.50 x 16.40
KMG250A00P	200	250	3700	60.00 x 32.00 x 16.75	KMG250A01P	78.00 x 36.00 x 24.00
KMG305A00P	250	305	4700	60.00 x 32.00 x 16.75	KMG305A01P	78.00 x 36.00 x 24.00
KMG362A00P	300	362	4650	60.00 x 32.00 x 16.75	KMG362A01P	78.00 x 36.00 x 24.00
KMG420A00P	350	420	5400	60.00 x 32.00 x 17.25	KMG420A01P	78.00 x 36.00 x 24.00
KMG480A00P	400	480	6050	60.00 x 32.00 x 17.25	KMG480A01P	78.00 x 36.00 x 24.00
KMG600A00P	500	600	7350	60.00 x 32.00 x 17.50	KMG600A01P	78.00 x 36.00 x 24.00
KMG750A00P	600	750	8800	60.00 x 32.00 x 18.25	KMG750A01P	78.00 x 36.00 x 24.00

600 V with PQconnect

Open Part Number	NEC Motor HP	Rated Amps	Watts Loss	Dimensions (in.)	UL Type 1 Enclosed	
				Height x Width x Depth	Part Number *	Height x Width x Depth
KMG8C00P	5	8	400	30.75 x 17.00 x 12.00	KMG8C01P	31.38 x 17.50 x 12.12
KMG10C00P	7.5	10	400	30.75 x 17.00 x 12.00	KMG10C01P	31.38 x 17.50 x 12.12
KMG12C00P	10	12	400	30.75 x 17.00 x 12.00	KMG12C01P	31.38 x 17.50 x 12.12
KMG20C00P	15	20	550	30.75 x 17.00 x 12.00	KMG20C01P	31.38 x 17.50 x 12.12
KMG25C00P	20	25	700	30.75 x 17.00 x 12.00	KMG25C01P	31.38 x 17.50 x 12.12
KMG28C00P	25	28	750	30.75 x 17.00 x 12.00	KMG28C01P	31.38 x 17.50 x 12.12
KMG35C00P	30	35	875	30.75 x 17.00 x 12.00	KMG35C01P	31.38 x 17.50 x 12.12
KMG45C00P	40	45	950	30.75 x 17.00 x 12.00	KMG45C01P	31.38 x 17.50 x 12.12
KMG55C00P	50	55	1200	56.00 x 17.00 x 14.00	KMG55C01P	56.00 x 17.50 x 16.40
KMG65C00P	60	65	1600	56.00 x 17.00 x 14.00	KMG65C01P	56.00 x 17.50 x 16.40
KMG80C00P	75	80	1650	56.00 x 17.00 x 14.00	KMG80C01P	56.00 x 17.50 x 16.40
KMG110C00P	100	110	2150	56.00 x 17.00 x 14.00	KMG110C01P	56.00 x 17.50 x 16.40
KMG130C00P	125	130	2300	56.00 x 17.00 x 14.00	KMG130C01P	56.00 x 17.50 x 16.40
KMG160C00P	150	160	2550	56.00 x 17.00 x 14.00	KMG160C01P	56.00 x 17.50 x 16.40
KMG200C00P	200	200	3500	60.00 x 32.00 x 20.00	KMG200C01P	78.00 x 36.00 x 24.00
KMG250C00P	250	250	4500	60.00 x 32.00 x 20.00	KMG250C01P	78.00 x 36.00 x 24.00
KMG305C00P	300	305	5100	60.00 x 32.00 x 20.00	KMG305C01P	78.00 x 36.00 x 24.00
KMG362C00P	350	362	6100	60.00 x 32.00 x 20.00	KMG362C01P	78.00 x 36.00 x 24.00
KMG420C00P	400	420	6900	60.00 x 32.00 x 20.00	KMG420C01P	78.00 x 36.00 x 24.00
KMG500C00P	500	500	7900	60.00 x 32.00 x 20.00	KMG500C01P	78.00 x 36.00 x 24.00
KMG600C00P	600	600	9000	60.00 x 32.00 x 20.00	KMG600C01P	78.00 x 36.00 x 24.00

KMG MotorGuard Sine Wave Output Filter

480 V Standard

Open Part Number	NEC Motor HP	Rated Amps	Watts Loss	Dimensions (in.) Height x Width x Depth	UL Type 1 Enclosed	
					Part Number *	Height x Width x Depth
KMG8A00A	5	8	300	30.75 x 17.00 x 12.00	KMG8A01A	31.38 x 17.50 x 12.12
KMG12A00A	7.5	12	350	30.75 x 17.00 x 12.00	KMG12A01A	31.38 x 17.50 x 12.12
KMG16A00A	10	16	400	30.75 x 17.00 x 12.00	KMG16A01A	31.38 x 17.50 x 12.12
KMG23A00A	15	23	550	30.75 x 17.00 x 12.00	KMG23A01A	31.38 x 17.50 x 12.12
KMG30A00A	20	30	650	30.75 x 17.00 x 12.00	KMG30A01A	31.38 x 17.50 x 12.12
KMG35A00A	25	35	750	30.75 x 17.00 x 12.00	KMG35A01A	31.38 x 17.50 x 12.12
KMG45A00A	30	45	850	30.75 x 17.00 x 12.00	KMG45A01A	31.38 x 17.50 x 12.12
KMG55A00A	40	55	1000	30.75 x 17.00 x 12.00	KMG55A01A	31.38 x 17.50 x 12.12
KMG65A00A	50	65	1100	56.00 x 17.00 x 14.00	KMG65A01A	56.00 x 17.50 x 16.40
KMG80A00A	60	80	1550	56.00 x 17.00 x 14.00	KMG80A01A	56.00 x 17.50 x 16.40
KMG110A00A	75	110	1700	56.00 x 17.00 x 14.00	KMG110A01A	56.00 x 17.50 x 16.40
KMG130A00A	100	130	2050	56.00 x 17.00 x 14.00	KMG130A01A	56.00 x 17.50 x 16.40
KMG160A00A	125	160	2450	56.00 x 17.00 x 14.00	KMG160A01A	56.00 x 17.50 x 16.40
KMG200A00A	150	200	3300	56.00 x 17.00 x 14.00	KMG200A01A	56.00 x 17.50 x 16.40
KMG250A00A	200	250	3700	60.00 x 32.00 x 20.00	KMG250A01A	78.00 x 36.00 x 24.00
KMG305A00A	250	305	4700	60.00 x 32.00 x 20.00	KMG305A01A	78.00 x 36.00 x 24.00
KMG362A00A	300	362	4650	60.00 x 32.00 x 20.00	KMG362A01A	78.00 x 36.00 x 24.00
KMG420A00A	350	420	5400	60.00 x 32.00 x 20.00	KMG420A01A	78.00 x 36.00 x 24.00
KMG480A00A	400	480	6050	60.00 x 32.00 x 20.00	KMG480A01A	78.00 x 36.00 x 24.00
KMG600A00A	500	600	7350	60.00 x 32.00 x 20.00	KMG600A01A	78.00 x 36.00 x 24.00
KMG750A00A	600	750	8800	60.00 x 32.00 x 20.00	KMG750A01A	78.00 x 36.00 x 24.00

600 V Standard

Open Part Number	NEC Motor HP	Rated Amps	Watts Loss	Dimensions (in.) Height x Width x Depth	UL Type 1 Enclosed	
					Part Number *	Height x Width x Depth
KMG8C00A	5	8	400	30.75 x 17.00 x 12.00	KMG8C01A	31.38 x 17.50 x 12.12
KMG10C00A	7.5	10	400	30.75 x 17.00 x 12.00	KMG10C01A	31.38 x 17.50 x 12.12
KMG12C00A	10	12	400	30.75 x 17.00 x 12.00	KMG12C01A	31.38 x 17.50 x 12.12
KMG20C00A	15	20	550	30.75 x 17.00 x 12.00	KMG20C01A	31.38 x 17.50 x 12.12
KMG25C00A	20	25	700	30.75 x 17.00 x 12.00	KMG25C01A	31.38 x 17.50 x 12.12
KMG28C00A	25	28	750	30.75 x 17.00 x 12.00	KMG28C01A	31.38 x 17.50 x 12.12
KMG35C00A	30	35	875	30.75 x 17.00 x 12.00	KMG35C01A	31.38 x 17.50 x 12.12
KMG45C00A	40	45	950	30.75 x 17.00 x 12.00	KMG45C01A	31.38 x 17.50 x 12.12
KMG55C00A	50	55	1200	56.00 x 17.00 x 14.00	KMG55C01A	56.00 x 17.50 x 16.40
KMG65C00A	60	65	1600	56.00 x 17.00 x 14.00	KMG65C01A	56.00 x 17.50 x 16.40
KMG80C00A	75	80	1650	56.00 x 17.00 x 14.00	KMG80C01A	56.00 x 17.50 x 16.40
KMG110C00A	100	110	2150	56.00 x 17.00 x 14.00	KMG110C01A	56.00 x 17.50 x 16.40
KMG130C00A	125	130	2300	56.00 x 17.00 x 14.00	KMG130C01A	56.00 x 17.50 x 16.40
KMG160C00A	150	160	2550	56.00 x 17.00 x 14.00	KMG160C01A	56.00 x 17.50 x 16.40
KMG200C00A	200	200	3500	60.00 x 32.00 x 20.00	KMG200C01A	78.00 x 36.00 x 24.00
KMG250C00A	250	250	4500	60.00 x 32.00 x 20.00	KMG250C01A	78.00 x 36.00 x 24.00
KMG305C00A	300	305	5100	60.00 x 32.00 x 20.00	KMG305C01A	78.00 x 36.00 x 24.00
KMG362C00A	350	362	6100	60.00 x 32.00 x 20.00	KMG362C01A	78.00 x 36.00 x 24.00
KMG420C00A	400	420	6900	60.00 x 32.00 x 20.00	KMG420C01A	78.00 x 36.00 x 24.00
KMG500C00A	500	500	7900	60.00 x 32.00 x 20.00	KMG500C01A	78.00 x 36.00 x 24.00
KMG600C00A	600	600	9000	60.00 x 32.00 x 20.00	KMG600C01A	78.00 x 36.00 x 24.00
KMG750C00A	750	750		60.00 x 32.00 x 20.00	KMG750C01A	78.00 x 36.00 x 24.00

MotorShield Sine Wave Output Filter

The MotorShield is a low-pass sine wave filter designed to motor loads driven by PWM drives with switching frequencies from 2kHz to 16kHz. This filter is suitable for VFD drives configured to volts per Hz modes only. Available for 480 and 600 volt systems, the MotorShield is a passive LC filter connected in series with the output terminals of the variable frequency drive. This design removes the carrier frequency distortion from the output voltage waveform resulting in a nearly pure sine wave voltage profile.



The MotorShield sine wave filter reduces the effects of the reflected wave phenomenon (dV/dt), which can cause motor heating and insulation damage. The reduction of high frequency VFD output currents extends the life of motors and transformers, and eliminates the need for special motor cables. The MotorShield reduces VFD ground fault problems and noise interference in transducer signals caused by stray high frequency harmonic currents.

The MotorShield is UL/cUL listed (up to 480 amps) and is available in a NEMA 1 / 3R enclosure which can be mounted adjacent to the VFD.

Standard Features & Components

- An L-C power filter circuit
- A TCI 3-phase reactor
- High-endurance, harmonic-rated capacitors
- Compression terminals for ease and integrity of all power wiring
- Suitable for all lead lengths up to 15,000 feet



	MSD	0110	A	3	00
UL Rating					
MSD - UL/cUL Listed*					
MSN - Non-UL					
Current Rating					
Voltage Rating					
A - 480 V					
B - 240 V					
C - 600 V					
Enclosure					
0 - Open					
3 - UL Type 1/3R					
Options					
00 - No Option					

MotorShield Sine Wave Output Filter

240 V Type 1/3R

Type 1/3R Part Number	HP	Amps	Watt Loss	Dimensions (in.)
				Height x Width x Depth
MSD0005B300	1	5	116	19.13 x 15.50 x 19.50
MSD0007B300	2	7	116	19.13 x 15.50 x 19.50
MSD0010B300	3	10	145	19.13 x 15.50 x 19.50
MSD0016B300	5	16	244	19.13 x 15.50 x 19.50
MSD0022B300	7.5	22	304	19.13 x 15.50 x 19.50
MSD0028B300	10	28	350	19.13 x 15.50 x 19.50
MSD0042B300	15	42	546	22.13 x 20.43 x 28.50
MSD0054B300	20	54	769	22.13 x 20.43 x 28.50
MSD0068B300	25	68	827	22.13 x 20.43 x 28.50
MSD0080B300	30	80	683	36.00 x 28.40 x 36.86
MSD0104B300	40	104	1025	36.00 x 28.40 x 36.86
MSD0130B300	50	130	1153	36.00 x 28.40 x 36.86
MSD0154B300	60	154	1290	36.00 x 28.40 x 36.86
MSD0192B300	75	192	1180	36.00 x 28.40 x 36.86
MSD0248B300	100	248	1210	36.00 x 28.40 x 36.86

480 V Open

Open Part Number	HP	Amps	Watt Loss	Dimensions (in.)
				Height x Width x Depth
MSD0005A000	3	5	102	9.13 x 10.75 x 6.22
MSD0009A000	5	9	102	9.13 x 10.75 x 6.22
MSD0012A000	7.5	12	116	9.13 x 10.75 x 6.22
MSD0016A000	10	16	145	9.13 x 10.75 x 6.22
MSD0023A000	15	23	210	9.13 x 10.75 x 9.93
MSD0030A000	20	30	244	9.13 x 10.75 x 9.93
MSD0035A000	25	35	303	9.13 x 10.75 x 9.93
MSD0045A000	30	45	304	10.25 x 10.75 x 9.97
MSD0055A000	40	55	350	13.25 x 10.50 x 10.43
MSD0065A000	50	65	374	13.25 x 10.50 x 10.43
MSD0080A000	60	80	546	14.75 x 14.25 x 13.10
MSD0110A000	75	110	769	14.75 x 14.25 x 13.10
MSD0130A000	100	130	827	14.75 x 14.25 x 13.10
MSD0160A000	125	160	683	14.75 x 14.25 x 13.10
MSD0200A000	150	200	1025	25.00 x 22.00 x 15.28
MSD0250A000	200	250	1153	25.00 x 22.00 x 15.28
MSD0305A000	250	305	1290	25.00 x 22.00 x 15.28
MSD0362A000	300	362	1180	25.00 x 22.00 x 15.28
MSD0420A000	350	420	1210	25.00 x 22.00 x 15.28
MSD0480A000	400	480	1460	25.00 x 22.00 x 15.28

480 V Type 1/3R

Type 1/3R Part Number	HP	Amps	Watt Loss	Dimensions (in.)
				Height x Width x Depth
MSD0005A300	3	5	102	19.13 x 15.50 x 19.50
MSD0009A300	5	9	102	19.13 x 15.50 x 19.50
MSD0012A300	7.5	12	116	19.13 x 15.50 x 19.50
MSD0016A300	10	16	145	19.13 x 15.50 x 19.50
MSD0023A300	15	23	210	19.13 x 15.50 x 19.50
MSD0030A300	20	30	244	19.13 x 15.50 x 19.50
MSD0035A300	25	35	303	19.13 x 15.50 x 19.50
MSD0045A300	30	45	304	19.13 x 15.50 x 19.50
MSD0055A300	40	55	350	19.13 x 15.50 x 19.50
MSD0065A300	50	65	374	22.13 x 20.43 x 28.50
MSD0080A300	60	80	546	22.13 x 20.43 x 28.50
MSD0110A300	75	110	769	22.13 x 20.43 x 28.50
MSD0130A300	100	130	827	22.13 x 20.43 x 28.50
MSD0160A300	125	160	683	36.00 x 28.40 x 36.86
MSD0200A300	150	200	1025	36.00 x 28.40 x 36.86
MSD0250A300	200	250	1153	36.00 x 28.40 x 36.86
MSD0305A300	250	305	1290	36.00 x 28.40 x 36.86
MSD0362A300	300	362	1180	36.00 x 28.40 x 36.86
MSD0420A300	350	420	1210	36.00 x 28.40 x 36.86
MSD0480A300	400	480	1460	36.00 x 28.40 x 36.86

600 V Type 1/3R

Type 1/3R Part Number	HP	Amps	Watt Loss	Dimensions (in.)
				Height x Width x Depth
MSD0008C300	5	8	111	19.13 x 15.50 x 19.50
MSD0010C300	7.5	10	120	19.13 x 15.50 x 19.50
MSD0012C300	10	12	120	19.13 x 15.50 x 19.50
MSD0020C300	15	20	220	19.13 x 15.50 x 19.50
MSD0025C300	20	25	273	19.13 x 15.50 x 19.50
MSD0028C300	25	28	290	19.13 x 15.50 x 19.50
MSD0035C300	30	35	350	19.13 x 15.50 x 19.50
MSD0045C300	40	45	370	19.13 x 15.50 x 19.50
MSD0055C300	50	55	440	22.13 x 20.43 x 28.50
MSD0065C300	60	65	510	22.13 x 20.43 x 28.50
MSD0080C300	75	80	610	22.13 x 20.43 x 28.50
MSD0110C300	100	110	830	36.00 x 28.40 x 36.86
MSD0130C300	125	130	730	36.00 x 28.40 x 36.86
MSD0160C300	150	160	740	36.00 x 28.40 x 36.86
MSD0200C300	200	200	940	36.00 x 28.40 x 36.86
MSD0250C300	250	250	1160	36.00 x 28.40 x 36.86
MSD0305C300	300	305	1390	36.00 x 28.40 x 36.86
MSD0362C300	350	362	1410	36.00 x 28.40 x 36.86
MSD0420C300	400	420	1650	36.00 x 28.40 x 36.86
MSD0450C300	450	450	1870	36.00 x 28.40 x 36.86

V1K dV/dt Output Filter

The benefits of installing a Pulse Width Modulated (PWM) Drive, including increased energy savings and decreased maintenance, may make it seem like the perfect solution. But, these benefits can be offset by increases in motor failures. Voltage wave reflection is a function of the voltage rise time (dv/dt) and the length of the motor cables.

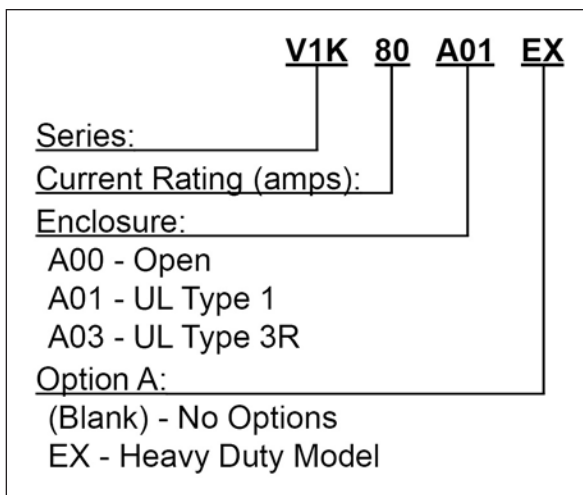
The impedance on either end of the cable run does not match, causing voltage pulses to be reflected back in the direction from which it arrived. As these reflected waves encounter other waves, their values add, causing higher peak voltage.

As wire length or carrier frequency increases, the overshoot peak voltage also increases. Peak voltages on a 480 V system can reach 1,600 V and 2,100 V on a 600 V system. These high peak voltages can cause a rapid breakdown of motor insulation, leading to motor failure. By combining a patented dampening circuit with a low pass filter, V1K filters increase the voltage rise time (dt out of dv/dt) thereby preventing voltage spikes from exceeding 1,000 V and protecting motor and cable insulation.



Benefits

- Extend the life of your motor & cable by reduction of harmful voltage spikes due to dV/dt
- Protect cable runs and reduce motor heating, noise and vibration
- Prevent motor failure with protection against motor insulation breakdown
- 30% reduction in common mode current
- Improve system productivity and increase bearing life and up-time
- dV/dt solution for leads less than 1,000 ft



V1K dV/dt Output Filter

V1K Open

Part Number	NEC Motor HP			Rated Current	Watt Loss	Dimensions (in.) Height x Width x Depth	Open Weight (lbs)	EX Model Part Number
	480 V	600 V	240 V					
V1K2A00	0.75	1	-	2	75	9.00 x 5.50 x 7.25	8	V1K2A00EX
V1K3A00	1 - 1.5	2	0.5	3	75	9.00 x 5.50 x 7.25	8	V1K3A00EX
V1K4A00	2	3	0.75	4	75	9.00 x 5.50 x 7.25	8	V1K4A00EX
V1K6A00		-	1 - 1.5	6	80	9.00 x 5.50 x 7.25	8	V1K6A00EX
V1K8A00	5	5	2	8	90	9.00 x 5.50 x 8.25	8	V1K8A00EX
V1K12A00	7.5	10	3	12	95	9.00 x 5.50 x 8.25	8	V1K12A00EX
V1K16A00	10	-	5	16	95	9.00 x 5.50 x 8.25	12	V1K16A00EX
V1K18A00	10	15	-	18	110	9.00 x 5.50 x 8.25	12	V1K18A00EX
V1K21A00	15	-	-	21	110	9.00 x 5.50 x 8.25	12	V1K21A00EX
V1K25A00	15	20	7.5	25	110	9.00 x 5.50 x 8.25	12	V1K25A00EX
V1K27A00	20	25	-	27	110	9.00 x 5.50 x 8.25	14	V1K27A00EX
V1K35A00	25	30	10	35	130	12.00 x 8.00 x 9.00	17	V1K35A00EX
V1K45A00	30	40	15	45	135	12.00 x 8.00 x 9.00	17	V1K45A00EX
V1K55A00	40	50	20	55	145	12.00 x 8.00 x 9.00	23	V1K55A00EX
V1K80A00	50 - 60	75	25 - 30	80	255	12.00 x 8.00 x 9.00	23	V1K80A00EX
V1K110A00	75	100	40	110	245	12.00 x 8.00 x 10.25	40	V1K110A00EX
V1K130A00	100	125	50	130	270	8.50 x 11.75 x 9.50	55	V1K130A00EX
V1K160A00	125	150	60	160	260	8.50 x 11.75 x 10.50	60	V1K160A00EX
V1K200A00	150	200	75	200	265	8.50 x 11.75 x 9.25	60	V1K200A00EX
V1K250A00	200	250	100	250	290	8.50 x 11.75 x 9.25	65	V1K250A00EX
V1K305A00	250	300	-	305	325	8.75 x 11.75 x 12.25	80	V1K305A00EX
V1K362A00	300	350	150	362	300	8.75 x 11.75 x 12.00	80	V1K362A00EX
V1K420A00	350	450	-	420	450	10.00 x 11.75 x 13.75	95	V1K420A00EX
V1K480A00	400	500	200	480	475	10.00 x 11.75 x 13.75	100	V1K480A00EX
V1K600A00	500	600	-	600	515	12.75 x 15.00 x 13.75	130	V1K600A00EX
V1K750A00	600	700	-	750	770	12.75 x 15.00 x 14.50	135	V1K750A00EX

V1K dV/dt Output Filter

V1K Type 1

UL Type 1 Part Number	NEC Motor HP			Rated Current	Watt Loss	Dimensions (in.) Height x Width x Depth	UL Type 1 Weight (lbs)	EX Model Part Number
	480 V	600 V	240 V					
V1K2A01	0.75	1	-	2	75	9.00 x 5.50 x 10.00	11	V1K2A01EX
V1K3A01	1 - 1.5	2	0.5	3	75	9.00 x 5.50 x 10.00	11	V1K3A01EX
V1K4A01	2	3	0.75	4	75	9.00 x 5.50 x 10.00	11	V1K4A01EX
V1K6A01	3	-	1 - 1.5	6	80	9.00 x 5.50 x 10.00	11	V1K6A01EX
V1K8A01	5	5	2	8	90	9.00 x 5.50 x 10.00	11	V1K8A01EX
V1K12A01	7.5	10	3	12	95	9.00 x 5.50 x 10.00	11	V1K12A01EX
V1K16A01	10	-	5	16	95	9.00 x 5.50 x 10.00	15	V1K16A01EX
V1K18A01	10	15	-	18	110	9.00 x 5.50 x 10.00	15	V1K18A01EX
V1K21A01	15	-	-	21	110	9.00 x 5.50 x 10.00	15	V1K21A01EX
V1K25A01	15	20	7.5	25	110	9.00 x 5.50 x 10.00	15	V1K25A01EX
V1K27A01	20	25	-	27	110	9.00 x 5.50 x 10.00	15	V1K27A01EX
V1K35A01	25	30	10	35	130	12.00 x 8.00 x 11.50	23	V1K35A01EX
V1K45A01	30	40	15	45	135	12.00 x 8.00 x 11.50	23	V1K45A01EX
V1K55A01	40	50	20	55	145	12.00 x 8.00 x 11.50	23	V1K55A01EX
V1K80A01	50 - 60	75	25 - 30	80	255	12.00 x 8.00 x 11.50	29	V1K80A01EX
V1K110A01	75	100	40	110	245	16.50 x 18.00 x 15.00	68	V1K110A01EX
V1K130A01	100	125	50	130	270	16.50 x 18.00 x 15.00	83	V1K130A01EX
V1K160A01	125	150	60	160	260	16.50 x 18.00 x 15.00	83	V1K160A01EX
V1K200A01	150	200	75	200	265	16.50 x 18.00 x 15.00	93	V1K200A01EX
V1K250A01	200	250	100	250	290	16.50 x 18.00 x 15.00	93	V1K250A01EX
V1K305A01	250	300	-	305	325	16.50 x 18.00 x 30.00	117	V1K305A01EX
V1K362A01	300	350	150	362	300	16.50 x 18.00 x 30.00	117	V1K362A01EX
V1K420A01	350	450	-	420	450	16.50 x 18.00 x 30.00	132	V1K420A01EX
V1K480A01	400	500	200	480	475	16.50 x 18.00 x 30.00	138	V1K480A01EX
V1K600A01	500	600	-	600	515	16.50 x 18.00 x 30.00	168	V1K600A01EX
V1K750A01	600	700	-	750	770	16.50 x 18.00 x 30.00	180	V1K750A01EX

V1K dV/dt Output Filter

V1K Type 3R

UL Type 3R Part Number	NEC Motor HP			Rated Current	Watt Loss	Dimensions (in.) Height x Width x Depth	UL Type 3R Weight (lbs)	EX Model Part Number
	480 V	600 V	240 V					
V1K2A03	0.75	1	-	2	75	11.45 x 10.00 x 12.00	25	V1K2A03EX
V1K3A03	1 - 1.5	2	0.5	3	75	11.45 x 10.00 x 12.00	25	V1K3A03EX
V1K4A03	2	3	0.75	4	75	11.45 x 10.00 x 12.00	25	V1K4A03EX
V1K6A03	3	-	1 - 1.5	6	80	11.45 x 10.00 x 12.00	25	V1K6A03EX
V1K8A03	5	5	2	8	90	11.45 x 10.00 x 12.00	25	V1K8A03EX
V1K12A03	7.5	10	3	12	95	11.45 x 10.00 x 12.00	25	V1K12A03EX
V1K16A03	10	-	5	16	95	11.45 x 10.00 x 12.00	29	V1K16A03EX
V1K18A03	10	15	-	18	110	11.45 x 10.00 x 12.00	25	V1K18A03EX
V1K21A03	15	-	-	21	110	11.45 x 10.00 x 12.00	29	V1K21A03EX
V1K25A03	15	20	7.5	25	110	11.45 x 10.00 x 12.00	29	V1K25A03EX
V1K27A03	20	25	-	27	110	11.45 x 10.00 x 12.00	29	V1K27A03EX
V1K35A03	25	30	10	35	130	19.18 x 15.62 x 19.50	56	V1K35A03EX
V1K45A03	30	40	15	45	135	19.18 x 15.62 x 19.50	56	V1K45A03EX
V1K55A03	40	50	20	55	145	19.18 x 15.62 x 19.50	56	V1K55A03EX
V1K80A03	50 - 60	75	25 - 30	80	255	19.18 x 15.62 x 19.50	62	V1K80A03EX
V1K110A03	75	100	40	110	245	19.18 x 15.62 x 19.50	74	V1K110A03EX
V1K130A03	100	125	50	130	270	19.18 x 15.62 x 19.50	89	V1K130A03EX
V1K160A03	125	150	60	160	260	19.18 x 15.62 x 19.50	99	V1K160A03EX
V1K200A03	150	200	75	200	265	19.18 x 15.62 x 19.50	99	V1K200A03EX
V1K250A03	200	250	100	250	290	19.18 x 15.62 x 19.50	99	V1K250A03EX
V1K305A03	250	300	-	305	325	22.15 x 20.62 x 28.50	109	V1K305A03EX
V1K362A03	300	350	150	362	300	22.15 x 20.62 x 28.50	109	V1K362A03EX
V1K420A03	350	450	-	420	450	22.15 x 20.62 x 28.50	156	V1K420A03EX
V1K480A03	400	500	200	480	475	22.15 x 20.62 x 28.50	161	V1K480A03EX
V1K600A03	500	600	-	600	515	36.00 x 28.21 x 36.86	297	V1K600A03EX
V1K750A03	600	700	-	750	770	36.00 x 28.21 x 36.86	307	V1K750A03EX

KDR Optimized Load Reactors

KDR Optimized Drive Reactors may be used at the output of AC-PWM variable frequency drives where the motor lead lengths are less than 100 feet. The addition of a KDR unit to the output of a drive will dampen overshoot peak voltage, reduce motor heating and audible noise, helping to extend the life of the motor.

Extend the Life of the Motor on the Output

- Dampen Overshoot Peak Voltage
- Reduce Motor Heating
- Reduce Audible Noise
- RoHS Compliant
- Dampen Overshoot Peak Voltage



	KDR	AA	3	L	2	E01
KDR Series:						
Design Frame:						
Sequence Code:						
Impedance Rating:						
P - Ultra Low Impedance						
L - Low Impedance						
H - High Impedance						
Foot:						
(Blank if not MA/AA)						
1 - Side						
2 - Thin						
Enclosure:						
E01 - UL Type 1						
E3R - UL Type 3R						
E3R1 - UL Type 3R (MA/AA)						

KDR Optimized Load Reactors

480 V Output

Part Number	NEC Motor HP	NEC Motor Current	Max Cont. Amps	Std. Terms	Dimensions (in.) Height x Width x Depth	Open Weight (lbs)	UL Type 1 Enclosed Part Number *	UL Type 3R Enclosed Part Number *
KDRMA1L1	0.25	0.7	1.4	TB	3.63 x 4.45 x 1.78	1.3	KDRMA1L1E01	KDRMA1L1E3R1
KDRMA2L1	0.33	0.8	1.7	TB	3.63 x 4.45 x 1.78	1.3	KDRMA2L1E01	KDRMA2L1E3R1
KDRMA3L1	0.5	1.1	1.6	TB	3.63 x 4.45 x 1.78	1.3	KDRMA3L1E01	KDRMA3L1E3R1
KDRMA4L1	0.75	1.6	2.3	TB	3.63 x 4.45 x 1.78	1.3	KDRMA4L1E01	KDRMA4L1E3R1
KDRMA5L1	1	2.1	2.3	TB	3.63 x 4.45 x 1.78	1.2	KDRMA5L1E01	KDRMA5L1E3R1
KDRMA6L1	1.5	3	3.4	TB	3.63 x 4.45 x 1.78	1.4	KDRMA6L1E01	KDRMA6L1E3R1
KDRMA7L1	2	3.4	4.2	TB	3.63 x 4.45 x 1.78	1.4	KDRMA7L1E01	KDRMA7L1E3R1
KDRMA8L1	3	4.8	5	TB	3.63 x 4.45 x 1.78	1.4	KDRMA8L1E01	KDRMAL1E3R1
KDRAA6L2	4	6.2	7.6	TB	4.44 x 4.25 x 2.64	3	KDRAA6L2E01	KDRAA6L2E3R1
KDRAA3L2	5	7.6	8.2	TB	4.44 x 4.25 x 2.64	3	KDRAA3L2E01	KDRAA3L2E3R1
KDRAA4L2	7.5	11	11	TB	4.44 x 4.25 x 2.64	3.2	KDRAA4L2E01	KDRAA4L2E3R1
KDRB1P	10	14	16	TB	5.00 x 6.00 x 4.00	7	KDRB1PE01	KDRB1PE3R
KDRD1P	15	21	21	TB	6.00 x 7.20 x 4.25	10	KDRD1PE01	KDRD1PE3R
KDRD2P	20	27	27	TB	6.00 x 7.20 x 4.25	10	KDRD2PE01	KDRD2PE3R
KDRD3P	25	34	35	TB	6.00 x 7.20 x 4.25	12	KDRD3PE01	KDRD3PE3R
KDRD4P	30	40	45	TB	6.00 x 7.20 x 4.25	12	KDRD4PE01	KDRD4PE3R
KDRC1P	40	52	55	TB	5.75 x 7.20 x 5.00	15	KDRC1PE01	KDRC1PE3R
KDRF1P	50	65	80	TB	7.00 x 9.00 x 6.00	25	KDRF1PE01	KDRF1PE3R
KDRF2P	60	77	80	TB	7.00 x 9.00 x 6.00	25	KDRF2PE01	KDRF2PE3R
KDRF3P	75	96	110	CB	7.00 x 9.00 x 6.00	33	KDRF3PE01	KDRF3PE3R
KDRH1P	100	124	130	CB	8.31 x 10.50 x 6.00	43	KDRH1PE01	KDRH1PE3R
KDRI1P	125	156	160	CB	8.50 x 10.50 x 6.31	56	KDRI1PE01	KDRI1PE3R
KDRI2P	150	180	200	CB	8.50 x 11.00 x 7.00	56	KDRI2PE01	KDRI2PE3R
KDRG1P	200	240	250	CB	10.15 x 11.38 x 8.25	69	KDRG1PE01	KDRG1PE3R
KDRJ1P	250	302	310	CB	10.00 x 10.88 x 9.00	79	KDRJ1PE01	KDRJ1PE3R
KDRJ2P	300	361	365	CB	10.00 x 11.25 x 9.25	79	KDRJ2PE01	KDRJ2PE3R
KDRL1P	350	414	420	CB	12.75 x 14.75 x 9.25	95	KDRL1PE01	KDRL1PE3R
KDRL2P	400	477	480	CB	12.75 x 14.75 x 9.25	104	KDRL2PE01	KDRL2PE3R
KDRL3P	450	515	600	CB	12.75 x 14.75 x 9.25	109	KDRL3PE01	KDRL3PE3R
KDRL4P	500	590	600	CB	12.75 x 14.75 x 9.25	109	KDRL4PE01	KDRL4PE3R

*For enclosed unit dimensions and added weight, please refer to the Reactor Enclosure Price page.

KDR Optimized Load Reactors

600 V Output

Part Number	NEC Motor HP	NEC Motor Current	Max Cont. Amps	Std. Terms	Dimensions (in.) Height x Width x Depth	Open Weight (lbs)	UL Type 1 Enclosed Part Number *	UL Type 3R Enclosed Part Number *
KDRMA41L1	0.25	0.5	0.8	TB	3.63 x 4.45 x 1.78	1.2	KDRMA41L1E01	KDRMA41L1E3R1
KDRMA42L1	0.33	0.7	1.1	TB	3.63 x 4.45 x 1.78	1.2	KDRMA42L1E01	KDRMA42L1E3R1
KDRMA43L1	0.5	0.9	1.6	TB	3.63 x 4.45 x 1.78	1.1	KDRMA43L1E01	KDRMA43L1E3R1
KDRMA44L1	0.75	1.3	2.1	TB	3.63 x 4.45 x 1.78	1.3	KDRMA44L1E01	KDRMA44L1E3R1
KDRMA45L1	1	1.7	2.1	TB	3.63 x 4.45 x 1.78	1.3	KDRMA45L1E01	KDRMA45L1E3R1
KDRMA46L1	1.5	2.4	3.4	TB	3.63 x 4.45 x 1.78	1.4	KDRMA46L1E01	KDRMA46L1E3R1
KDRMA47L1	2	2.7	3.2	TB	3.63 x 4.45 x 1.78	1.5	KDRMA47L1E01	KDRMA47L1E3R1
KDRAA52L2	3	3.9	4.8	TB	4.44 x 4.25 x 2.64	3.5	KDRAA52L2E01	KDRAA52L2E3R1
KDRAA57L2	4	4.9	7.6	TB	4.44 x 4.25 x 2.64	2.9	KDRAA57L2E01	KDRAA57L2E3R1
KDRAA58L2	5	6.1	7.6	TB	4.44 x 4.25 x 2.64	3	KDRAA58L2E01	KDRAA58L2E3R1
KDRAA48L2	7.5	9	9	TB	4.44 x 4.25 x 2.64	3.2	KDRAA48L2E01	KDRAA48L2E3R1
KDRAA49L2	10	11	11	TB	4.44 x 4.25 x 2.64	3.8	KDRAA49L2E01	KDRAA49L2E3R1
KDRD31P	15	17	18	TB	5.75 x 7.20 x 4.25	10	KDRD31PE01	KDRD31PE3R
KDRD32P	20	22	25	TB	5.75 x 7.20 x 4.25	10	KDRD32PE01	KDRD32PE3R
KDRD35P	25	27	27	TB	5.75 x 7.20 x 4.25	10	KDRD35PE01	KDRD35PE3R
KDRD33P	30	32	35	TB	5.75 x 7.20 x 4.25	12	KDRD33PE01	KDRD33PE3R
KDRD34P	40	41	45	TB	5.75 x 7.20 x 4.25	12	KDRD34PE01	KDRD34PE3R
KDRC31P	50	52	55	TB	5.75 x 7.20 x 5.00	15	KDRC31PE01	KDRC31PE3R
KDRF31P	60	62	80	TB	7.00 x 9.00 x 6.00	25	KDRF31PE01	KDRF31PE3R
KDRF32P	75	77	80	TB	7.00 x 9.00 x 6.00	25	KDRF32PE01	KDRF32PE3R
KDRF33P	100	99	110	CB	7.00 x 9.00 x 6.00	33	KDRF33PE01	KDRF33PE3R
KDRH31P	125	125	130	CB	8.31 x 10.50 x 6.00	43	KDRH31PE01	KDRH31PE3R
KDRI31P	150	144	160	CB	8.50 x 10.50 x 6.31	56	KDRI31PE01	KDRI31PE3R
KDRI32P	200	192	200	CB	8.50 x 11.00 x 7.00	51	KDRI32PE01	KDRI32PE3R
KDRG31P	250	242	250	CB	10.15 x 11.38 x 8.25	69	KDRG31PE01	KDRG31PE3R
KDRJ31P	300	289	300	CB	10.00 x 10.88 x 9.00	75	KDRJ31PE01	KDRJ31PE3R
KDRJ32P	350	336	360	CB	10.00 x 11.25 x 9.25	79	KDRJ32PE01	KDRJ32PE3R
KDRL31P	400	382	420	CB	12.75 x 14.75 x 9.25	104	KDRL31PE01	KDRL31PE3R
KDRL35P	450	412	420	CB	12.75 x 14.75 x 9.25	109	KDRL35PE01	KDRL35PE3R
KDRL32P	500	472	480	CB	12.75 x 14.75 x 9.25	109	KDRL32PE01	KDRL32PE3R

*For enclosed unit dimensions and added weight, please refer to the Reactor Enclosure Price page.

KDR Optimized Load Reactors

690 V Output

Part Number	NEC Motor HP	NEC Motor Current	Max Cont. Amps	Standard Terms	Dimensions (in.) Height x Width x Depth	Open Weight (lbs)	NEMA 1 Enclosed Part Number *
KDRMA41L1	0.25	0.5	0.8	TB	3.63 x 4.45 x 1.78	1.2	KDRMA41L1E01
KDRMA42L1	0.33	0.7	1.1	TB	3.63 x 4.45 x 1.78	1.2	KDRMA42L1E01
KDRMA43L1	0.5	0.9	1.6	TB	3.63 x 4.45 x 1.78	1.1	KDRMA43L1E01
KDRMA44L1	0.75	1.3	2.1	TB	3.63 x 4.45 x 1.78	1.3	KDRMA44L1E01
KDRMA45L1	1	1.7	2.1	TB	3.63 x 4.45 x 1.78	1.3	KDRMA45L1E01
KDRMA46L1	1.5	2.4	3.4	TB	3.63 x 4.45 x 1.78	1.4	KDRMA46L1E01
KDRMA47L1	2	2.7	3.2	TB	3.63 x 4.45 x 1.78	1.5	KDRMA47L1E01
KDRAA52L2	3	3.9	4.8	TB	4.44 x 4.25 x 2.64	3.5	KDRAA52L2E01
KDRAA57L2	4	4.9	7.6	TB	4.44 x 4.25 x 2.64	2.9	KDRAA57L2E01
KDRAA58L2	5	6.1	7.6	TB	4.44 x 4.25 x 2.64	3	KDRAA58L2E01
KDRAA48L2	7.5	9	9	TB	4.44 x 4.25 x 2.64	3.2	KDRAA48L2E01
KDRAA49L2	10	11	11	TB	4.44 x 4.25 x 2.64	3.8	KDRAA49L2E01
KDRD31PV	15	17	18	RL	5.75 x 7.20 x 4.50	10	KDRD31PC2V
KDRD32PV	20	22	25	RL	5.75 x 7.20 x 4.50	10	KDRD32PC2V
KDRD35PV	25	27	27	RL	5.75 x 7.20 x 4.50	10	KDRD35PC2V
KDRD33PV	30	32	35	RL	5.75 x 7.20 x 4.50	12	KDRD33PC2V
KDRD34PV	40	41	45	RL	5.75 x 7.20 x 4.50	12	KDRD34PC2V
KDRC31PV	50	52	55	RL	5.75 x 7.20 x 5.00	15	KDRC31PC2V
KDRF31PV	60	62	80	RL	7.00 x 9.00 x 6.00	25	KDRF31PC3V
KDRF32PV	75	77	80	RL	7.00 x 9.00 x 6.00	25	KDRF32PC3V
KDRF33PV	100	99	110	CB	7.00 x 9.00 x 6.00	30	KDRF33PC4V
KDRH31PV	125	125	130	CB	8.50 x 11.00 x 6.25	40	KDRH31PC4V
KDRI31PV	150	144	160	CB	9.00 x 11.00 x 7.00	50	KDRI31PC4V
KDRI32PV	200	192	200	CB	9.00 x 11.00 x 7.00	45	KDRI32PC4V
KDRG31PV	250	242	250	CB	9.00 x 11.00 x 8.00	60	KDRG31PC4V
KDRJ31PV	300	289	300	CB	9.00 x 11.00 x 9.00	70	KDRJ31PC5V
KDRJ32PV	350	336	360	CB	9.00 x 11.00 x 9.00	70	KDRJ32PC5V
KDRL31PV	400	382	420	CB	11.38 x 14.50 x 9.31	85	KDRL31PC5V
KDRL35PV	450	412	420	CB	11.38 x 14.50 x 9.31	85	KDRL35PC5V
KDRL32PV	500	472	480	CB	11.38 x 14.50 x 9.31	95	KDRL32PC5V

*For enclosed unit dimensions and added weight, please refer to the Reactor Enclosure Price page.

KDR Series DIN Rail Load Reactors

480 V Output

Part Number	NEC Motor HP	NEC Motor Current	Standard Terms	Dimensions (in.)			Weight (lbs)
				Height	Width	Depth	
KDRMA1L1DR	0.25	0.7	TB	3.80	4.56	1.96	1.33
KDRMA2L1DR	0.33	0.8	TB	3.80	4.56	1.96	1.33
KDRMA3L1DR	0.5	1.1	TB	3.80	4.56	1.96	1.33
KDRMA4L1DR	0.75	1.6	TB	3.80	4.56	1.96	1.33
KDRMA5L1DR	1	2.1	TB	3.80	4.56	1.96	1.23
KDRMA6L1DR	1.5	3	TB	3.80	4.56	1.96	1.43
KDRMA7L1DR	2	3.4	TB	3.80	4.56	1.96	1.43
KDRMA8L1DR	3	4.8	TB	3.80	4.56	1.96	4.43
KDRAA6L2DR	4	6.2	TB	4.00	4.18	3.75	4
KDRAA3L2DR	5	7.6	TB	4.00	4.18	3.75	4
KDRAA4L2DR	7.5	11	TB	4.00	4.18	3.75	5
KDRB1PDR	10	14	TB	5.00	6.00	4.00	7

600 V Output

Part Number	NEC Motor HP	NEC Motor Current	Standard Terms	Dimensions (in.)			Weight (lbs)
				Height	Width	Depth	
KDRMA47L2DR	2	2.7	TB	4.00	4.18	3.75	3.2
KDRAA52L2DR	3	3.9	TB	4.00	4.18	3.75	3.9
KDRAA57L2DR	4	4.9	TB	4.78	4.71	4.13	3.3
KDRAA58L2DR	5	6.1	TB	4.78	4.71	4.13	3.4
KDRAA48L2DR	7.5	9	TB	4.78	4.71	4.13	3.6
KDRAA49L2DR	10	11	TB	4.78	4.71	4.13	4.2

690 V Output

Part Number	NEC Motor HP	NEC Motor Current	Standard Terms	Dimensions (in.)			Weight (lbs)
				Height	Width	Depth	
KDRMA41L1DR	0.25	0.5	TB	3.80	4.56	1.96	1.23
KDRMA42L1DR	0.33	0.7	TB	3.80	4.56	1.96	1.23
KDRMA43L1DR	0.5	0.9	TB	3.80	4.56	1.96	1.13
KDRMA44L1DR	0.75	1.3	TB	3.80	4.56	1.96	1.33
KDRMA45L1DR	1	1.7	TB	3.80	4.56	1.96	1.33
KDRMA46L1DR	1.5	2.4	TB	3.80	4.56	1.96	1.43
KDRAA47L2DR	2	2.7	TB	4.78	4.71	4.13	3.2
KDRAA52L2DR	3	3.9	TB	4.78	4.71	4.13	3.9
KDRAA57L2DR	4	4.9	TB	4.78	4.71	4.13	3.3
KDRAA58L2DR	5	6.1	TB	4.78	4.71	4.13	3.4
KDRAA48L2DR	7.5	9	TB	4.78	4.71	4.13	3.6
KDRAA49L2DR	10	11	TB	4.78	4.71	4.13	4.2

Section 3:

Power Factor Correction Solutions

PF Guard Capacitor Bank

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.



This reduces 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.

What is Power Factor?

All inductive loads require two types of power to function properly:

- **Active power (kW)** performs real work in loads such as motors
- **Reactive power (kVAR)** is consumed by inductive loads such as AC motors and performs no productive work

Power Factor is the ratio between the active power and the total power consumed (apparent power or kVA) and is the standard measure of how efficiently electrical power is being used by a system.

Why Improve Power Factor?

When the power factor is below 1.0 or unity, the electrical efficiency of the system decreases forcing the utility to supply more apparent power than necessary.

Utilities can pass on the resulting costs to the industrial users as power factor penalties and high utility bills.

Issues caused by low power factor may include:

- Poor system performance
- High energy costs
- Electric surcharges
- Harmful environmental impacts

Powerful Features

The PF Guard offers an automatic switching design, providing an optimized solution for your application. A detuned, anti-resonance reactor is built into the unit for an extra layer of protection from harmonics and to prevent equipment failure, reduce costs and increase the life of the system.



PF Guard Capacitor Bank

PF Guard Part Numbering System

	PFC	A	0150	A	W	1	A	0	21	C
Series:										
Auto:										
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*:										
A - No unit controller or user interface display**										
C - Unit interface controller with door mounted display***										

*For PF Guard without an interface controller and door mounted display, deduct \$2,000 from list price

**Step functions and monitoring must be performed by customer provided controls

***Control functions adjustable but preset at factory for ease of installation

Legend for Options:

FM = Fuse Monitor
FML = Fuse Monitor with Light
CB = Circuit Breaker
FI = Fuse Input
DS = Disconnect Switch

PF Guard Capacitor Bank

480 V Type 1, Automatic, Terminal Block

Full kVAR Steps					
kVAR	kVAR Steps	# Steps	No Step Fuse Monitor Part Number	Step Fuse Monitor Part Number	Step Fuse Monitor w/ Light Part Number
150	50	3	PFCA0150AW1A020C	PFCA0150AW1B020C	PFCA0150AW1C020C
200	50	4	PFCA0200AW1A020C	PFCA0200AW1B020C	PFCA0200AW1C020C
250	50	5	PFCA0250AW1A020C	PFCA0250AW1B020C	PFCA0250AW1C020C
300	50	6	PFCA0300AW1A020C	PFCA0300AW1B020C	PFCA0300AW1C020C
400	80	5	PFCA0400AW1A030C	PFCA0400AW1B030C	PFCA0400AW1C030C
500	100	5	PFCA0500AW1A040C	PFCA0500AW1B040C	PFCA0500AW1C040C
600	100	6	PFCA0600AW1A040C	PFCA0600AW1B040C	PFCA0600AW1C040C
Full & Half kVAR Steps					
kVAR	kVAR Steps	# Steps	No Step Fuse Monitor Part Number	Step Fuse Monitor Part Number	Step Fuse Monitor w/ Light Part Number
150	50 & 25	4	PFCA0150AW1A021C	PFCA0150AW1B021C	PFCA0150AW1C021C
200	50 & 25	5	PFCA0200AW1A021C	PFCA0200AW1B021C	PFCA0200AW1C021C
250	50 & 25	6	PFCA0250AW1A021C	PFCA0250AW1B021C	PFCA0250AW1C021C
300	50 & 25	7	PFCA0300AW1A021C	PFCA0300AW1B021C	PFCA0300AW1C021C
400	80 & 40	6	PFCA0400AW1A031C	PFCA0400AW1B031C	PFCA0400AW1C031C
500	100 & 50	6	PFCA0500AW1A041C	PFCA0500AW1B041C	PFCA0500AW1C041C
600	100 & 50	7	PFCA0600AW1A041C	PFCA0600AW1B041C	PFCA0600AW1C041C

480 V Type 1, Automatic, Circuit Breaker

Full kVAR Steps					
kVAR	kVAR Steps	# Steps	No Step Fuse Monitor Part Number	Step Fuse Monitor Part Number	Step Fuse Monitor w/ Light Part Number
150	50	3	PFCA0150AW1A120C	PFCA0150AW1B120C	PFCA0150AW1C120C
200	50	4	PFCA0200AW1A120C	PFCA0200AW1B120C	PFCA0200AW1C120C
250	50	5	PFCA0250AW1A120C	PFCA0250AW1B120C	PFCA0250AW1C120C
300	50	6	PFCA0300AW1A120C	PFCA0300AW1B120C	PFCA0300AW1C120C
400	80	5	PFCA0400AW1A130C	PFCA0400AW1B130C	PFCA0400AW1C130C
500	100	5	PFCA0500AW1A140C	PFCA0500AW1B140C	PFCA0500AW1C140C
600	100	6	PFCA0600AW1A140C	PFCA0600AW1B140C	PFCA0600AW1C140C
Full & Half kVAR Steps					
kVAR	kVAR Steps	# Steps	No Step Fuse Monitor Part Number	Step Fuse Monitor Part Number	Step Fuse Monitor w/ Light Part Number
150	50 & 25	4	PFCA0150AW1A121C	PFCA0150AW1B121C	PFCA0150AW1C121C
200	50 & 25	5	PFCA0200AW1A121C	PFCA0200AW1B121C	PFCA0200AW1C121C
250	50 & 25	6	PFCA0250AW1A121C	PFCA0250AW1B121C	PFCA0250AW1C121C
300	50 & 25	7	PFCA0300AW1A121C	PFCA0300AW1B121C	PFCA0300AW1C121C
400	80 & 40	6	PFCA0400AW1A131C	PFCA0400AW1B131C	PFCA0400AW1C131C
500	100 & 50	6	PFCA0500AW1A141C	PFCA0500AW1B141C	PFCA0500AW1C141C
600	100 & 50	7	PFCA0600AW1A141C	PFCA0600AW1B141C	PFCA0600AW1C141C

PF Guard Capacitor Bank

480 V Type 1, Automatic, Fused Input

Full kVAR Steps					
kVAR	kVAR Steps	# Steps	No Step Fuse Monitor Part Number	Step Fuse Monitor Part Number	Step Fuse Monitor w/ Light Part Number
150	50	3	PFCA0150AW1A220C	PFCA0150AW1B220C	PFCA0150AW1C220C
200	50	4	PFCA0200AW1A220C	PFCA0200AW1B220C	PFCA0200AW1C220C
250	50	5	PFCA0250AW1A220C	PFCA0250AW1B220C	PFCA0250AW1C220C
300	50	6	PFCA0300AW1A220C	PFCA0300AW1B220C	PFCA0300AW1C220C
Full & Half kVAR Steps					
kVAR	kVAR Steps	# Steps	No Step Fuse Monitor Part Number	Step Fuse Monitor Part Number	Step Fuse Monitor w/ Light Part Number
150	50 & 25	4	PFCA0150AW1A221C	PFCA0150AW1B221C	PFCA0150AW1C221C
200	50 & 25	5	PFCA0200AW1A221C	PFCA0200AW1B221C	PFCA0200AW1C221C
250	50 & 25	6	PFCA0250AW1A221C	PFCA0250AW1B221C	PFCA0250AW1C221C
300	50 & 25	7	PFCA0300AW1A221C	PFCA0300AW1B221C	PFCA0300AW1C221C

Note: 400, 500, & 600 kVAR banks only come in Fused Input options; only come with additional disconnect switch.

480 V Type 1, Automatic, Fused Disconnect Switch

Full kVAR Steps					
kVAR	kVAR Steps	# Steps	No Step Fuse Monitor Part Number	Step Fuse Monitor Part Number	Step Fuse Monitor w/ Light Part Number
150	50	3	PFCA0150AW1A320C	PFCA0150AW1B320C	PFCA0150AW1C320C
200	50	4	PFCA0200AW1A320C	PFCA0200AW1B320C	PFCA0200AW1C320C
250	50	5	PFCA0250AW1A320C	PFCA0250AW1B320C	PFCA0250AW1C320C
300	50	6	PFCA0300AW1A320C	PFCA0300AW1B320C	PFCA0300AW1C320C
400	80	5	PFCA0400AW1A330C	PFCA0400AW1B330C	PFCA0400AW1C330C
500	100	5	PFCA0500AW1A340C	PFCA0500AW1B340C	PFCA0500AW1C340C
600	100	6	PFCA0600AW1A340C	PFCA0600AW1B340C	PFCA0600AW1C340C
Full & Half kVAR Steps					
kVAR	kVAR Steps	# Steps	No Step Fuse Monitor Part Number	Step Fuse Monitor Part Number	Step Fuse Monitor w/ Light Part Number
150	50 & 25	4	PFCA0150AW1A321C	PFCA0150AW1B321C	PFCA0150AW1C321C
200	50 & 25	5	PFCA0200AW1A321C	PFCA0200AW1B321C	PFCA0200AW1C321C
250	50 & 25	6	PFCA0250AW1A321C	PFCA0250AW1B321C	PFCA0250AW1C321C
300	50 & 25	7	PFCA0300AW1A321C	PFCA0300AW1B321C	PFCA0300AW1C321C
400	80 & 40	6	PFCA0400AW1A331C	PFCA0400AW1B331C	PFCA0400AW1C331C
500	100 & 50	6	PFCA0500AW1A341C	PFCA0500AW1B341C	PFCA0500AW1C341C
600	100 & 50	7	PFCA0600AW1A341C	PFCA0600AW1B341C	PFCA0600AW1C341C

PF Guard Capacitor Bank

480 V Type 12, Automatic, Terminal Block

Full kVAR Steps					
kVAR	kVAR Steps	# Steps	No Step Fuse Monitor Part Number	Step Fuse Monitor Part Number	Step Fuse Monitor w/ Light Part Number
150	50	3	PFCA0150AW2A020C	PFCA0150AW2B020C	PFCA0150AW2C020C
200	50	4	PFCA0200AW2A020C	PFCA0200AW2B020C	PFCA0200AW2C020C
250	50	5	PFCA0250AW2A020C	PFCA0250AW2B020C	PFCA0250AW2C020C
300	50	6	PFCA0300AW2A020C	PFCA0300AW2B020C	PFCA0300AW2C020C
400	80	5	PFCA0400AW2A030C	PFCA0400AW2B030C	PFCA0400AW2C030C
500	100	5	PFCA0500AW2A040C	PFCA0500AW2B040C	PFCA0500AW2C040C
600	100	6	PFCA0600AW2A040C	PFCA0600AW2B040C	PFCA0600AW2C040C
Full & Half kVAR Steps					
kVAR	kVAR Steps	# Steps	No Step Fuse Monitor Part Number	Step Fuse Monitor Part Number	Step Fuse Monitor w/ Light Part Number
150	50 & 25	4	PFCA0150AW2A021C	PFCA0150AW2B021C	PFCA0150AW2C021C
200	50 & 25	5	PFCA0200AW2A021C	PFCA0200AW2B021C	PFCA0200AW2C021C
250	50 & 25	6	PFCA0250AW2A021C	PFCA0250AW2B021C	PFCA0250AW2C021C
300	50 & 25	7	PFCA0300AW2A021C	PFCA0300AW2B021C	PFCA0300AW2C021C
400	80 & 40	6	PFCA0400AW2A031C	PFCA0400AW2B031C	PFCA0400AW2C031C
500	100 & 50	6	PFCA0500AW2A041C	PFCA0500AW2B041C	PFCA0500AW2C041C
600	100 & 50	7	PFCA0600AW2A041C	PFCA0600AW2B041C	PFCA0600AW2C041C

480 V Type 12, Automatic, Circuit Breaker

Full kVAR Steps					
kVAR	kVAR Steps	# Steps	No Step Fuse Monitor Part Number	Step Fuse Monitor Part Number	Step Fuse Monitor w/ Light Part Number
150	50	3	PFCA0150AW2A120C	PFCA0150AW2B120C	PFCA0150AW2C120C
200	50	4	PFCA0200AW2A120C	PFCA0200AW2B120C	PFCA0200AW2C120C
250	50	5	PFCA0250AW2A120C	PFCA0250AW2B120C	PFCA0250AW2C120C
300	50	6	PFCA0300AW2A120C	PFCA0300AW2B120C	PFCA0300AW2C120C
400	80	5	PFCA0400AW2A130C	PFCA0400AW2B130C	PFCA0400AW2C130C
500	100	5	PFCA0500AW2A140C	PFCA0500AW2B140C	PFCA0500AW2C140C
600	100	6	PFCA0600AW2A140C	PFCA0600AW2B140C	PFCA0600AW2C140C
Full & Half kVAR Steps					
kVAR	kVAR Steps	# Steps	No Step Fuse Monitor Part Number	Step Fuse Monitor Part Number	Step Fuse Monitor w/ Light Part Number
150	50 & 25	4	PFCA0150AW2A121C	PFCA0150AW2B121C	PFCA0150AW2C121C
200	50 & 25	5	PFCA0200AW2A121C	PFCA0200AW2B121C	PFCA0200AW2C121C
250	50 & 25	6	PFCA0250AW2A121C	PFCA0250AW2B121C	PFCA0250AW2C121C
300	50 & 25	7	PFCA0300AW2A121C	PFCA0300AW2B121C	PFCA0300AW2C121C
400	80 & 40	6	PFCA0400AW2A131C	PFCA0400AW2B131C	PFCA0400AW2C131C
500	100 & 50	6	PFCA0500AW2A141C	PFCA0500AW2B141C	PFCA0500AW2C141C
600	100 & 50	7	PFCA0600AW2A141C	PFCA0600AW2B141C	PFCA0600AW2C141C

PF Guard Capacitor Bank

480 V Type 12, Automatic, Fused Input

Full kVAR Steps					
kVAR	kVAR Steps	# Steps	No Step Fuse Monitor Part Number	Step Fuse Monitor Part Number	Step Fuse Monitor w/ Light Part Number
150	50	3	PFCA0150AW2A220C	PFCA0150AW2B220C	PFCA0150AW2C220C
200	50	4	PFCA0200AW2A220C	PFCA0200AW2B220C	PFCA0200AW2C220C
250	50	5	PFCA0250AW2A220C	PFCA0250AW2B220C	PFCA0250AW2C220C
300	50	6	PFCA0300AW2A220C	PFCA0300AW2B220C	PFCA0300AW2C220C
Full & Half kVAR Steps					
kVAR	kVAR Steps	# Steps	No Step Fuse Monitor Part Number	Step Fuse Monitor Part Number	Step Fuse Monitor w/ Light Part Number
150	50 & 25	4	PFCA0150AW2A221C	PFCA0150AW2B221C	PFCA0150AW2C221C
200	50 & 25	5	PFCA0200AW2A221C	PFCA0200AW2B221C	PFCA0200AW2C221C
250	50 & 25	6	PFCA0250AW2A221C	PFCA0250AW2B221C	PFCA0250AW2C221C
300	50 & 25	7	PFCA0300AW2A221C	PFCA0300AW2B221C	PFCA0300AW2C221C

480 V Type 12, Automatic, Fused Disconnect Switch

Full kVAR Steps					
kVAR	kVAR Steps	# Steps	No Step Fuse Monitor Part Number	Step Fuse Monitor Part Number	Step Fuse Monitor w/ Light Part Number
150	50	3	PFCA0150AW2A320C	PFCA0150AW2B320C	PFCA0150AW2C320C
200	50	4	PFCA0200AW2A320C	PFCA0200AW2B320C	PFCA0200AW2C320C
250	50	5	PFCA0250AW2A320C	PFCA0250AW2B320C	PFCA0250AW2C320C
300	50	6	PFCA0300AW2A320C	PFCA0300AW2B320C	PFCA0300AW2C320C
400	80	5	PFCA0400AW2A330C	PFCA0400AW2B330C	PFCA0400AW2C330C
500	100	5	PFCA0500AW2A340C	PFCA0500AW2B340C	PFCA0500AW2C340C
600	100	6	PFCA0600AW2A340C	PFCA0600AW2B340C	PFCA0600AW2C340C
Full & Half kVAR Steps					
kVAR	kVAR Steps	# Steps	No Step Fuse Monitor Part Number	Step Fuse Monitor Part Number	Step Fuse Monitor w/ Light Part Number
150	50 & 25	4	PFCA0150AW2A321C	PFCA0150AW2B321C	PFCA0150AW2C321C
200	50 & 25	5	PFCA0200AW2A321C	PFCA0200AW2B321C	PFCA0200AW2C321C
250	50 & 25	6	PFCA0250AW2A321C	PFCA0250AW2B321C	PFCA0250AW2C321C
300	50 & 25	7	PFCA0300AW2A321C	PFCA0300AW2B321C	PFCA0300AW2C321C
400	80 & 40	6	PFCA0400AW2A331C	PFCA0400AW2B331C	PFCA0400AW2C331C
500	100 & 50	6	PFCA0500AW2A341C	PFCA0500AW2B341C	PFCA0500AW2C341C
600	100 & 50	7	PFCA0600AW2A341C	PFCA0600AW2B341C	PFCA0600AW2C341C

KTR and KCAP

CAPGuard KTR

CAPGuard KTR tuning reactors are designed to be used in conjunction with power factor correction capacitors whenever nonlinear loads are present. Tuning reactors can be installed with existing power factor correction banks or as part of a new installation. Typical applications include any facility that applies power factor correction capacitors to avoid penalty or to allow for more efficient energy consumption.

After CAPGuard KTR

CAPGuard KTR tuning reactors prevent uncontrolled system resonance by force tuning the capacitors to a harmless resonant frequency. In an application where a high percentage of the connected load is three phase adjustable speed drives, high amounts of the 5th, 7th, 11th, and 13th harmonics will be present. CAPGuard KTR tuning reactors are designed to offer an inductance which will tune existing capacitors well below these frequencies, preventing resonance and, therefore, fuse or capacitor failure.

KCAP Applications

TCI High Endurance Capacitors are intended for use in electrical environments that are rich in harmonic content due to non-linear loads. Some applications include factories and plants with a large numbers of variable frequency drives and/or DC drives, waste water treatment plants, pumping stations, facilities that co-generate power, and power consumers that are incurring penalties for poor power factor.

Before High Endurance Caps

The reactive power demanded by motors, transformers and higher KVA RMS demanded by harmonic currents contribute to poor power factor in industrial and commercial buildings. Simply put, poor power factor means that energy is not being efficiently delivered or consumed. Power factor correction capacitors relieve the reactive power burden on supply generators, transformers and facility wiring. However, capacitors cannot be safely applied in buildings with a high content of harmonically-rich non-linear load, as their addition may induce plant resonance, a dangerous and costly situation. Force tuning (or de-tuning) capacitor banks may correct for the potential for resonance. However, standard capacitor cells, with service factor ratings designed for linear loads, still may not be suitable in non-linear environments. Testing shows that capacitors will need to tolerate at least 150% over-current and higher than intended temperatures in those environments.

After High Endurance Caps

TCI High Endurance capacitors are designed, built and tested specifically for use in harmonically rich environments. They are suitable for use in de-tuned central power factor correction banks, and in drive-applied and load-applied harmonic filters. They are capable of handling 190% of rated current continuously in a 65 degree C ambient temperature. Properly applied, they offer a robust and cost effective solution to inefficient power delivery and consumption.

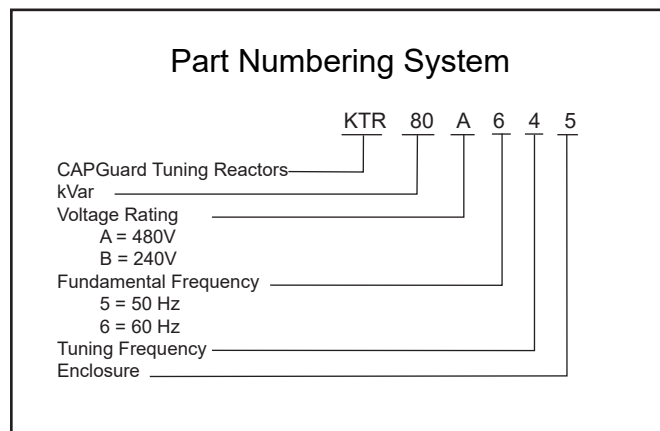
KTR CAPGuard Tuning Reactors

480 V KTR

Part Number	kVar	Fund. Freq. (Hz)	Tuned Freq. (Hz)	Standard	Dimensions (in.) Height x Width x Depth	Open Weight (lbs)	NEMA 1 Enclosed Part Number *	ENCL
KTR10A64	10	60	240	TB	5.60 x 7.50 x 4.75	16	KTR10A642	2
KTR15A64	15	60	240	TB	7.00 x 9.50 x 6.00	22	KTR15A643	3
KTR20A64	20	60	240	TB	8.50 x 10.50 x 6.50	25	KTR20A644	4
KTR25A64	25	60	240	TB	8.50 x 11.00 x 7.00	45	KTR25A644	4
KTR30A64	30	60	240	TB	8.50 x 11.00 x 7.00	53	KTR30A644	4
KTR40A64	40	60	240	TB	8.50 x 11.00 x 7.75	60	KTR40A644	4
KTR50A64	50	60	240	CB	13.38 x 13.44 x 9.00	95	KTR50A645	5
KTR60A64	60	60	240	CB	14.00 x 13.44 x 9.00	95	KTR60A645	5
KTR80A64	80	60	240	CB	13.50 x 13.44 x 9.00	105	KTR80A645	5
KTR100A64	100	60	240	CB	13.38 x 13.44 x 9.00	105	KTR100A645	5
KTR120A64	120	60	240	CB	13.38 x 13.44 x 11.00	150	KTR120A645	5
KTR150A64	150	60	240	CB	18.00 x 17.00 x 10.25	260	KTR150A647	7
KTR200A64	200	60	240	CB	18.00 x 17.00 x 10.25	295	KTR200A647	7

*For enclosed unit dimensions and added weight, please refer to the Reactor Enclosure Price page.

CAPGuard is used to limit or reduce harmonic current into power factor correction capacitor banks. CAPGuard can be system applied. It is tuned away from the 5th harmonic.



KCAP High Endurance Capacitors

Three-Phase Dry Type Individual Caps

Part Number	Voltage	kVar	Dimensions (in.) Height x Diameter	Bracket Size
28565	480	10	8.48 x 3.32	B
28566	480	15	8.48 x 3.32	B
28541	480	20	11.43 x 3.32	B
28567	600	5	8.30 x 2.53	A
28568	600	10	8.30 x 3.32	B
28569	600	15	11.31 x 3.31	B
28570	600	20	14.25 x 3.32	B

Three-Phase Oil Filled Individual Caps

Part Number	Voltage	kVar	Dimensions (in.) Height x Diameter	Bracket Size
KCAP5B6B	240	5	7.50 x 3.33	B
KCAP10B6B	240	10	10.50 x 3.33	B
27605	480	3	7.46 x 3.00	B
27606	480	5	7.46 x 3.00	B
28503	480	6	8.24 x 3.35	B

Single-Phase Oil Filled Individual Caps

Part Number	Voltage	uf	Dimensions (in.) Height x Diameter	Bracket Size
29340	330	15 uf	3.30 x 1.75	No Bracket Available
28654	330	35 uf	3.30 x 1.75	

Mounting Hardware

Part Number	# of Cells	Bracket Size
KCAPBKT1A	1	A
KCAPBKT1B	1	B
KCAPBKT2A	2	A
KCAPBKT2B	2	B
KCAPBKT4B	4	B

“A” bracket for capacitor diameter of 2.75”, or smaller

“B” bracket for capacitor diameter of 3.50” or larger

Section 4:

High Frequency Noise Solutions

KRF Three-Phase EMC Power Line Filters

Features and Benefits

- Availability up to 690 V
- Units to accommodate up to 2,500 amps
- Finger safe terminal blocks for smaller units
- ENEC higher safety mark
- Helps Application Meet Standards:
 - FCC Regulation 15, Subpart J
 - CISPR 11 A and B
 - EN61800-3
- Advanced 2-Stage Filtering
- Simple Installation
- Enhanced Drive Performance and Durability
- Lightweight and Compact
- KRF Applications

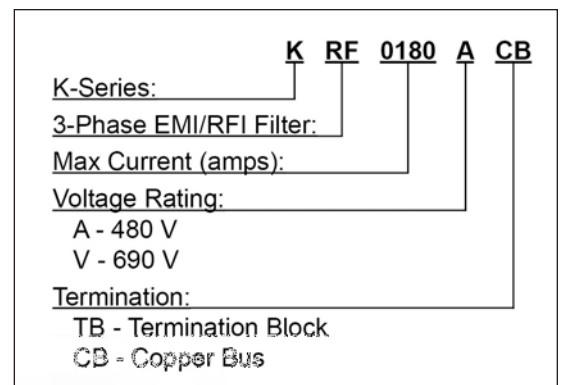


AC Drives rely upon three-phase EMC power line filters from TCI, because they provide effective EMC solutions up to 2500A. EMC filters are integral components in power systems utilizing drives where high frequency noise should be held to a minimum. EMC Filtering would also benefit any application that utilizes sensitive electronic equipment that may be susceptible to interference, such as radios, computers, control devices, radar, sonar, etc. EMC filters will assist in system CE compliance. Some examples include airports, hospitals, factories with sophisticated automation equipment, pump stations, and commercial buildings.

Equipment Interference and Failure

The power line noise emissions associated with variable frequency and variable speed drives can cause disturbances in nearby equipment. Typical disturbances include:

- Dimmer and ballast instability
- Lighting disturbances such as flashing
- Poor radio reception
- Poor television reception
- Instability of control systems
- Flow meter totalizing
- Computer system failures including the loss of data
- Flow metering fluctuation
- Thermostat control problems
- Radar disruption
- Sonar disruption



KRF 3-Phase EMC Power Line Filters

480 V

Part Number	Max Current	Standard Terms	$R_{typ} / m\Omega$	loss / W	Height (in)	Width (in)	Depth (in)	Weight (lbs)
KRF0008ATB	8	TB	16	4	2.49	6.5	2.03	1.3
KRF0016ATB	16	TB	9	8	2.76	9.1	1.83	2
KRF0025ATB	25	TB	5	11	3.27	9.1	1.83	2.4
KRF0036ATB	36	TB	4	18	3.55	10.44	2.29	3.9
KRF0050ATB	50	TB	2	17	3.55	10.44	2.29	3.9
KRF0066ATB	66	TB	1.5	23	5.58	10.44	2.29	5.9
KRF0090ATB	90	TB	1.1	31	5.32	11.42	3.15	9.2
KRF0120ATB	120	TB	0.9	45	5.91	11.42	3.55	10.8
KRF0150ATB	150	TB	0.55	43	5.91	12.84	3.55	11.7
KRF0150ACB	150	CB	0.14	11	5.56	10.24	6.7	28.6
KRF0180ACB	180	CB	0.11	12	5.56	10.24	6.7	28.6
KRF0250ACB	250	CB	0.11	24	4.53	11.82	7.49	33
KRF0320ACB	320	CB	0.051	18	4.57	11.82	10.24	46.2
KRF0400ACB	400	CB	0.048	26	4.57	11.82	10.24	46.2
KRF0600ACB	600	CB	0.052	65	4.57	13.78	10.24	48.4
KRF1000ACB	1000	CB	0.033	114	6.54	13.78	11.82	61.6
KRF1600ACB	1600	CB	0.022	194	6.54	13.78	11.82	74.8
KRF2500ACB	2500	CB	0.015	323	8.73	25.6	15.16	231

690 V

Part Number	Max Current	Standard Terms	$R_{typ} / m\Omega$	loss / W	Height (in)	Width (in)	Depth (in)	Weight (lbs)
KRF0025VTB	25	TB	8	17	3.59	9.3	6.15	8.8
KRF0036VTB	36	TB	3.8	17	3.59	9.3	6.15	8.8
KRF0050VTB	50	TB	2	17	3.59	9.3	6.15	8.8
KRF0080VTB	80	TB	1	22	5.56	11.82	6.74	20.9
KRF0120VTB	120	TB	0.75	37	5.56	13.71	6.74	22
KRF0150VTB	150	TB	0.4	31	5.56	13.71	6.74	22
KRF0150VCB	150	CB	0.14	11	5.56	10.24	6.7	28.6
KRF0180VTB	180	TB	0.4	45	5.56	15.91	6.74	28.6
KRF0180VCB	180	CB	0.14	16	5.56	10.24	6.7	28.6
KRF0250VCB	250	CB	0.063	14	4.53	11.82	7.49	33
KRF0320VCB	320	CB	0.067	24	4.57	11.82	10.24	46.2
KRF0400VCB	400	CB	0.067	37	4.57	11.82	10.24	46.2
KRF0600 VCB	600	CB	0.052	65	4.57	13.78	10.24	48.4
KRF1000VCB	1000	CB	0.033	114	6.54	13.78	11.82	61.6
KRF1600 VCB	1600	CB	0.022	194	6.54	13.78	11.82	74.8
KRF2500VCB	2500	CB	0.015	323	8.71	25.6	15.16	231



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