



## SECTION 3

### HPS CENTURION R® REACTORS, RM SERIES REACTORS, AND RC DV/DT FILTERS

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# Why Choose A Reactor?

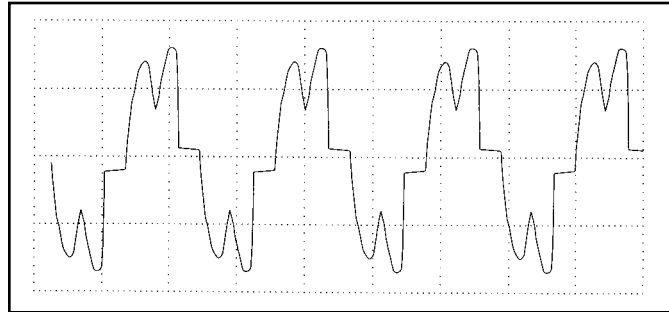
HPS reactors are designed to address issues associated with variable frequency drives.

- Attenuate voltage and current transients to reduce voltage notching
- Improve True Power Factor
- Mitigate drive nuisance tripping
- Minimize harmonic current
- On output, reduce the motor temperature & audible noise
- Enhance the overall performance, life expectancy, and system efficiency
- Mitigate motor bearing failures

## MINIMIZE HARMONIC DISTORTION

Non-linear current waveforms contain harmonic distortion. By using an HPS reactor you can limit the inrush current to the rectifier in your drive. The peak current is reduced, the waveform is rounded and harmonic distortion is minimized. Current distortion typically is reduced to 30%.

Severe harmonic current distortion can also cause the system voltage to distort. Often, high peak harmonic current drawn by the drive, causes "flat-topping" of the voltage waveform. Adding a reactor controls the current component, and voltage harmonic distortion is therefore reduced.



**The total harmonic distortion of variable speed drives produces complex wave shapes such as the phase current shown above. The challenge for today's designers is to effectively minimize these line problems.**

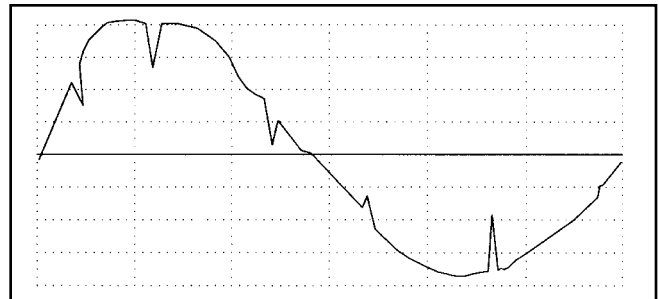
## SHORT CIRCUIT CAPABILITY

HPS reactors can withstand current under short circuit conditions, reducing the potential of severe damage to electronic equipment. In a short circuit, the inductance of the coil is necessary to limit overcurrent after the core has saturated. HPS has extensive experience in designing and testing dry-type transformers to withstand short circuits for the most demanding applications, and this experience has been applied to line reactor design.

## REDUCE LINE NOTCHING

Whenever AC power is converted to DC by a rectifier using a non-linear device, such as an SCR, the process of commutation occurs. The result is a notch in the voltage waveform. The number of notches is a function of both the number of pulses and the number of SCR's in the rectifier.

Reactors are used to provide the inductive reactance needed to reduce notching, which can adversely effect equipment operation.



**A voltage waveform illustrating line notching. Reactors are used to provide the inductive reactance needed to reduce such notches.**

## Why Choose A Reactor continued...

### IMPEDANCE RATINGS

**Definition:**

$$\% Z = \frac{(V_D \times 100)}{V_S} \times \sqrt{3}$$

Z = IMPEDANCE (three phase)

V<sub>D</sub> = VOLTAGE DROP ACROSS REACTOR

V<sub>S</sub> = VOLTAGE SUPPLY FOR RATED CURRENT TO FLOW THROUGH REACTOR

### SELECTION - 3% OR 5% IMPEDANCE REACTOR

Choose 3% impedance reactors to satisfy most solid state applications in North America. Reactors rated for 3% impedance are ideal for absorbing normal line spikes and motor current surges, and will prevent most nuisance line tripping of circuit protection devices or equipment.

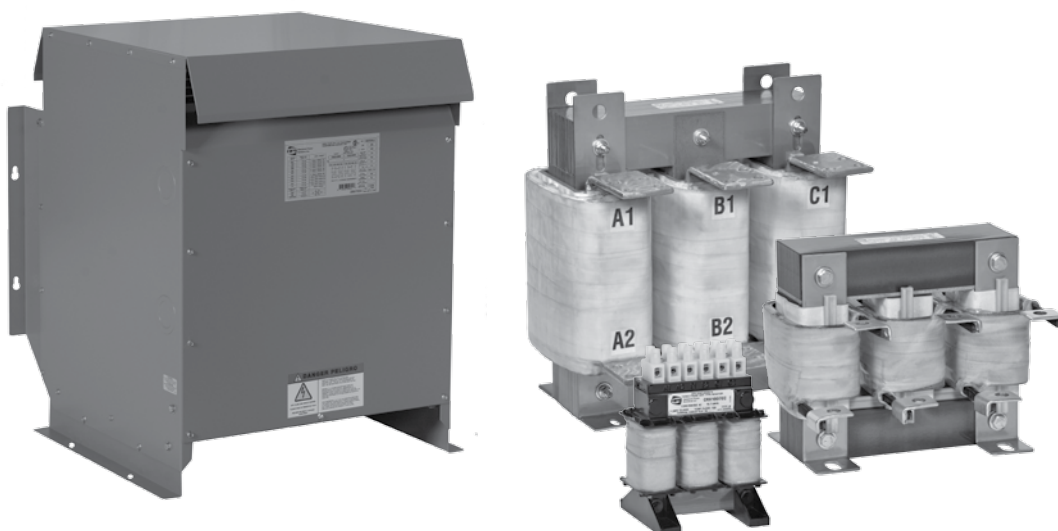
Where considerably higher line disturbances are present, a 5% impedance reactor may be required. Additionally, if the application is overseas, or when it is necessary to comply to IEEE 519, the higher impedance reactor is recommended. As part of an overall solutions, these units may also be selected to further reduce harmonic current and frequencies if desirable or to both extend motor life and diminish motor noise.

### LINE REACTORS OR DRIVE ISOLATION TRANSFORMERS?

When true line isolation is required, such as limiting short circuit current, or where it is necessary to step up or step down voltage, use a drive isolation transformer. HPS carries an extensive line of drive isolation transformers in stock. Refer to Section 4 for information on Drive Isolation transformers.

### HARMONIC WITHSTAND:

HPS reactors are designed to withstand typical harmonics associated with both the input and output side of AC variable speed drives including IGBT type inverter drives. For additional information, contact our sales office.



# Reactor Construction Features

## CORE

The quality and performance of a reactor is fundamentally dependant on its ability to withstand harmonics and transients in what is clearly a difficult environment. The bonding and clamping techniques of the gapped core also significantly impacts its performance characteristics.

HPS has paid particular attention to these basics to ensure both reliable and consistent performance.

Core materials, manufacturing and assembly processes have been carefully evaluated to produce optimum losses and sound levels necessary for this product.

## COILS

Conductors are precision wound for optimum short circuit withstandability and electrical balance are used throughout the reactor lines. Choice of conductors, winding techniques and cooling ducts are precisely selected to assure the highest continuous, reliable performance.

## INSULATION SYSTEM

HPS Reactors are designed to meet the most difficult temperature environments.

For further information on temperature rises, please consult our sales offices.

## VPI IMPREGNATION

Every reactor is fully VPI vacuum and pressure processed with VT (vinyl-toluene) Polyester Resin. This modern, vinyl-toluene based resin with its thicker build, offers significant benefits for electrical, mechanical and thermal properties. This impregnation process and material results in a much improved dielectric constant, dissipation factor, bonding strength and dielectric breakdown (volts per mil) than any other impregnation material including the more traditional oil modified epoxies and varnishes.

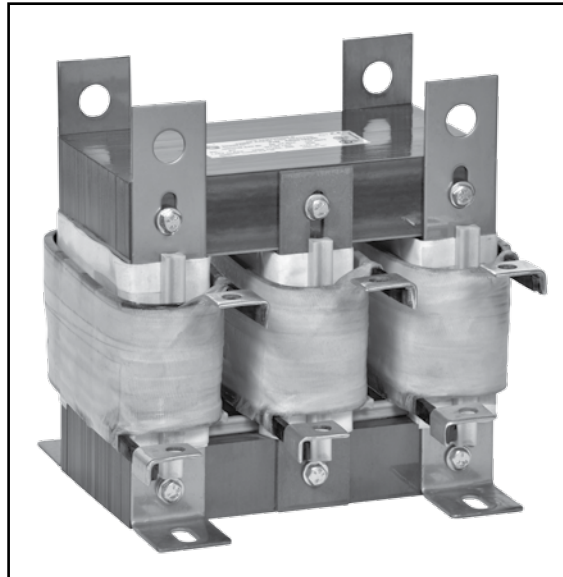
Vacuum impregnation is considered vital for the integrity of electrical equipment located in such sensitive locations. The core and coil assembly is finished with a clear resin.

## TERMINATIONS

Custom connections are provided for in several ways. Finger-proof-terminal blocks are provided on select model ranges, and terminal pads are supplied on higher current ratings. Refer to the dimensional summary for details. All connections are brazed to ensure electrical integrity.

## INPUT AND OUTPUT SIDE REACTORS

HPS Reactors are designed for both the input and output side of variable speed drives including Insulated Gate Bipolar Transistor (IGBT) type inverters.



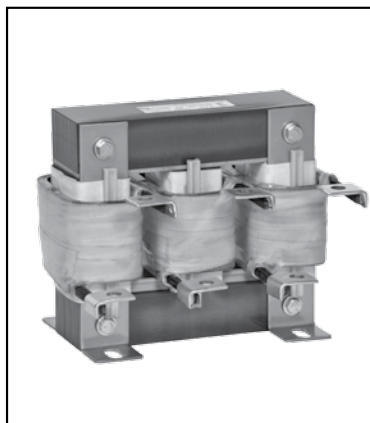
## SPECIALS

For special applications or for any features that you may require beyond the standard line listed, please contact our sales offices.



# HPS Centurion® R REACTORS

## SINGLE AND THREE PHASE STANDARD SPECIFICATIONS



|                          | Core and Coil                                                                                                                                                                                              | Enclosed                                                                                                                                                                                                   |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>UL Listed</b>         | File: E61431 up to 600 V                                                                                                                                                                                   | File: E61431 up to 600 V                                                                                                                                                                                   |
| <b>CSA Certified</b>     | File: LR3902                                                                                                                                                                                               | File: LR3902                                                                                                                                                                                               |
| <b>Ratings</b>           | Nominal Inductance +15% - 10% @ rated current.<br>95% of nominal inductance @ 110% rated current.<br>80% of nominal inductance @ 150% rated current.<br>50% of nominal inductance @ 350% of rated current. | Nominal Inductance +15% - 10% @ rated current.<br>95% of nominal inductance @ 110% rated current.<br>80% of nominal inductance @ 150% rated current.<br>50% of nominal inductance @ 350% of rated current. |
| <b>Frequency</b>         | 50/60 Hz                                                                                                                                                                                                   | 50/60 Hz                                                                                                                                                                                                   |
| <b>Insulation System</b> | 70°C rise over average 50°C ambient for 130°C temperature insulation class<br>115°C rise over average 50°C ambient for 180°C and 220°C temperature insulation class                                        | 70°C rise over average 50°C ambient for 130°C temperature insulation class<br>115°C rise over average 50°C ambient for 180°C and 220°C temperature insulation class                                        |
| <b>Enclosure Type</b>    | Type 1 enclosure kit with hardware as option                                                                                                                                                               | Type 1<br>(optional Type 3R available)                                                                                                                                                                     |
| <b>Enclosure Finish</b>  |                                                                                                                                                                                                            | ANSI 61 Grey, UL50                                                                                                                                                                                         |
| <b>Termination</b>       | Terminal blocks are provided on select model ranges, and terminal pads are supplied on higher current ratings.                                                                                             | Terminal blocks are provided on select model ranges, and terminal pads are supplied on higher current ratings.                                                                                             |
| <b>Impedance</b>         | Typically 1.5%, 3% and 5%                                                                                                                                                                                  | Typically 1.5%, 3% and 5%                                                                                                                                                                                  |
| <b>Mounting</b>          | Floor mounting available on all units. Wall and ceiling mounting available on units up to 200 lbs.                                                                                                         | Floor mounting available on all units. Wall and ceiling mounting available on enclosure style N1, N2, CH2 and CH4 only.                                                                                    |
| <b>Sound Level</b>       | Meets NEMA ST-20 standards                                                                                                                                                                                 | Meets NEMA ST-20 standards                                                                                                                                                                                 |

# HPS Centurion R Reactor Selection Tables

## HPS Centurion R Part Number Guide

|   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|
| C | R | X | 1 | 2 | 3 | 4 | A | E |
|---|---|---|---|---|---|---|---|---|

**Open or Enclosed**

C for Core & Coil

E for Enclosed

**Relative Impedance**

**Rated Current**

D for Decimal  
i.e. 02D4 is 2.4

**Product Line**

## Single Phase Reactor Selection Tables

| HP Rating | 120 Volt - 60Hz |                 |              |              |                 |              | HP Rating | 240 Volt - 60Hz |                 |              |              |                 |              |
|-----------|-----------------|-----------------|--------------|--------------|-----------------|--------------|-----------|-----------------|-----------------|--------------|--------------|-----------------|--------------|
|           | 3% Impedance    |                 |              | 5% Impedance |                 |              |           | 3% Impedance    |                 |              | 5% Impedance |                 |              |
|           | Amps            | Core & Coil P/N | Enclosed P/N | Amps         | Core & Coil P/N | Enclosed P/N |           | Amps            | Core & Coil P/N | Enclosed P/N | Amps         | Core & Coil P/N | Enclosed P/N |
| 0.25      | 2.08            | CRX03D5BC       | CRX03D5BE    | 2.08         | CRX03D5CC       | CRX03D5CE    | 0.25      | 1.04            | CRX02D1AC       | CRX02D1AE    | 1.04         | CRX0002CC       | CRX0002CE    |
| 0.5       | 4.16            | CRX07D5AC       | CRX07D5AE    | 4.16         | CRX06D6CC       | CRX06D6CE    | 0.5       | 2.08            | CRX02D4DC       | CRX02D4DE    | 2.08         | CRX02D7AC       | CRX02D7AE    |
| 0.75      | 6.25            | CRX10D7BC       | CRX10D7BE    | 6.25         | CRX0017AC       | CRX0017AE    | 0.75      | 3.13            | CRX03D5BC       | CRX03D5BE    | 3.13         | CRX02D4DC       | CRX02D4DE    |
| 1         | 8.33            | CRX0024CC       | CRX0024CE    | 8.33         | CRX0022AC       | CRX0022AE    | 1         | 4.17            | CRX0011CC       | CRX0011CE    | 4.17         | CRX04D8AC       | CRX04D8AE    |
| 1.5       | 12.5            | CRX0024CC       | CRX0024CE    | 12.5         | CRX16D7DC       | CRX16D7DE    | 1.5       | 6.25            | CRX06D6CC       | CRX06D6CE    | 6.25         | CRX0011CC       | CRX0011CE    |
| 2         | 16.7            | CRX0024AC       | CRX0024AE    | 16.7         | CRX16D7BC       | CRX16D7BE    | 2         | 8.33            | CRX10D7DC       | CRX10D7DE    | 8.33         | CRX0011AC       | CRX0011AE    |
| 3         | 25              | CRX0031AC       | CRX0031AE    | 25           | CRX0024AC       | CRX0024AE    | 3         | 12.5            | CRX10D7BC       | CRX10D7BE    | 12.5         | CRX0017AC       | CRX0017AE    |
| 5         | 41.6            | CRX0059AC       | CRX0059AE    | 41.6         | CRX0059CC       | CRX0059CE    | 5         | 20.8            | CRX0024CC       | CRX0024CE    | 20.8         | CRX0021AC       | CRX0021AE    |
| 7.5       | 62.5            | CRX0075AC       | CRX0075AE    | 62.5         | CRX0059AC       | CRX0059AE    | 7.5       | 31.2            | CRX0052BC       | CRX0052BE    | 31.2         | CRX0034AC       | CRX0034AE    |
| 10        | 83.3            | CRX0114AC       | CRX0114AE    | 83.3         | CRX0088AC       | CRX0088AE    | 10        | 41.6            | CRX0059CC       | CRX0059CE    | 41.6         | CRX0052AC       | CRX0052AE    |

## Three Phase Reactor Selection Tables

| HP Rating | 208 Volt - 60Hz |                 |              |              |                 |              | HP Rating | 240 Volt - 60Hz |                 |              |              |                 |              |
|-----------|-----------------|-----------------|--------------|--------------|-----------------|--------------|-----------|-----------------|-----------------|--------------|--------------|-----------------|--------------|
|           | 3% Impedance    |                 |              | 5% Impedance |                 |              |           | 3% Impedance    |                 |              | 5% Impedance |                 |              |
|           | Amps            | Core & Coil P/N | Enclosed P/N | Amps         | Core & Coil P/N | Enclosed P/N |           | Amps            | Core & Coil P/N | Enclosed P/N | Amps         | Core & Coil P/N | Enclosed P/N |
| 0.5       | 2.4             | CRX02D4BC       | CRX02D4BE    | 2.4          | CRX02D4DC       | CRX02D4DE    | 0.5       | 2.4             | CRX02D4AC       | CRX02D4AE    | 2.4          | CRX02D4CC       | CRX02D4CE    |
| 0.75      | 3.5             | CRX03D5AC       | CRX03D5AE    | 3.5          | CRX03D5DC       | CRX03D5DE    | 0.75      | 3.5             | CRX03D5BC       | CRX03D5BE    | 3.5          | CRX03D5CC       | CRX03D5CE    |
| 1         | 4.6             | CRX04D6BC       | CRX04D6BE    | 4.6          | CRX04D6CC       | CRX04D6CE    | 1         | 4.6             | CRX04D6AC       | CRX04D6AE    | 4.6          | CRX04D6DC       | CRX04D6DE    |
| 1.5       | 6.6             | CRX06D6BC       | CRX06D6BE    | 6.6          | CRX06D6CC       | CRX06D6CE    | 1.5       | 6.6             | CRX06D6AC       | CRX06D6AE    | 6.6          | CRX06D6DC       | CRX06D6DE    |
| 2         | 7.5             | CRX07D5AC       | CRX07D5AE    | 7.5          | CRX07D5DC       | CRX07D5DE    | 2         | 7.5             | CRX07D5BC       | CRX07D5BE    | 7.5          | CRX07D5CC       | CRX07D5CE    |
| 3         | 10.7            | CRX10D7BC       | CRX10D7BE    | 10.7         | CRX10D7DC       | CRX10D7DE    | 3         | 10.7            | CRX10D7AC       | CRX10D7AE    | 10.7         | CRX10D7CC       | CRX10D7CE    |
| 5         | 16.7            | CRX16D7BC       | CRX16D7BE    | 16.7         | CRX16D7DC       | CRX16D7DE    | 5         | 16.7            | CRX16D7AC       | CRX16D7AE    | 16.7         | CRX16D7CC       | CRX16D7CE    |
| 7.5       | 24              | CRX0024AC       | CRX0024AE    | 24           | CRX0024CC       | CRX0024CE    | 7.5       | 24              | CRX0024BC       | CRX0024BE    | 24           | CRX0024DC       | CRX0024DE    |
| 10        | 31              | CRX0031BC       | CRX0031BE    | 31           | CRX0031CC       | CRX0031CE    | 10        | 31              | CRX0031AC       | CRX0031AE    | 31           | CRX0031DC       | CRX0031DE    |
| 15        | 46              | CRX0046BC       | CRX0046BE    | 46           | CRX0046CC       | CRX0046CE    | 15        | 46              | CRX0046AC       | CRX0046AE    | 46           | CRX0046DC       | CRX0046DE    |
| 20        | 59              | CRX0059AC       | CRX0059AE    | 59           | CRX0059CC       | CRX0059CE    | 20        | 59              | CRX0059BC       | CRX0059BE    | 59           | CRX0059DC       | CRX0059DE    |
| 25        | 75              | CRX0075AC       | CRX0075AE    | 75           | CRX0075CC       | CRX0075CE    | 25        | 75              | CRX0075BC       | CRX0075BE    | 75           | CRX0075DC       | CRX0075DE    |
| 30        | 88              | CRX0088BC       | CRX0088BE    | 88           | CRX0088CC       | CRX0088CE    | 30        | 88              | CRX0088AC       | CRX0088AE    | 88           | CRX0088DC       | CRX0088DE    |
| 40        | 114             | CRX0114AC       | CRX0114AE    | 114          | CRX0114CC       | CRX0114CE    | 40        | 114             | CRX0114BC       | CRX0114BE    | 114          | CRX0114DC       | CRX0114DE    |
| 50        | 143             | CRX0143AC       | CRX0143AE    | 143          | CRX0143DC       | CRX0143DE    | 50        | 143             | CRX0143BC       | CRX0143BE    | 143          | CRX0143CC       | CRX0143CE    |
| 60        | 170             | CRX0170BC       | CRX0170BE    | 170          | CRX0170DC       | CRX0170DE    | 60        | 170             | CRX0170AC       | CRX0170AE    | 170          | CRX0170CC       | CRX0170CE    |
| 75        | 211             | CRX0211BC       | CRX0211BE    | 211          | CRX0211CC       | CRX0211CE    | 75        | 211             | CRX0211AC       | CRX0211AE    | 211          | CRX0211DC       | CRX0211DE    |
| 100       | 273             | CRX0273BC       | CRX0273BE    | 273          | CRX0273CC       | CRX0273CE    | 100       | 273             | CRX0273AC       | CRX0273AE    | 273          | CRX0273DC       | CRX0273DE    |
| 125       | 343             | CRX0343BC       | CRX0343BE    | 343          | CRX0343CC       | CRX0343CE    | 125       | 343             | CRX0343AC       | CRX0343AE    | 343          | CRX0343DC       | CRX0343DE    |
| 150       | 396             | CRX0396BC       | CRX0396BE    | 396          | CRX0396DC       | CRX0396DE    | 150       | 396             | CRX0396AC       | CRX0396AE    | 396          | CRX0396CC       | CRX0396CE    |
| 200       | 528             | CRX0528BC       | CRX0528BE    | 528          | CRX0528CC       | CRX0528CE    | 200       | 528             | CRX0528AC       | CRX0528AE    | 528          | CRX0528DC       | CRX0528DE    |



| HP Rating | 480 Volt - 60Hz |                 |              |              |                 |              |              |                 |              |
|-----------|-----------------|-----------------|--------------|--------------|-----------------|--------------|--------------|-----------------|--------------|
|           | 1.5% Impedance  |                 |              | 3% Impedance |                 |              | 5% Impedance |                 |              |
|           | Amps            | Core & Coil P/N | Enclosed P/N | Amps         | Core & Coil P/N | Enclosed P/N | Amps         | Core & Coil P/N | Enclosed P/N |
| 0.5       | 2.4             | CRX02D4AC       | CRX02D4AE    | 1.1          | CRX01D1AC       | CRX01D1AE    | 1.1          | CRX01D1BC       | CRX01D1BE    |
| 0.75      | 3.5             | CRX03D5BC       | CRX03D5BE    | 1.6          | CRX01D6AC       | CRX01D6AE    | 1.6          | CRX01D6BC       | CRX01D6BE    |
| 1         | 4.6             | CRX04D6AC       | CRX04D6AE    | 2.1          | CRX02D1AC       | CRX02D1AE    | 2.1          | CRX02D1BC       | CRX02D1BE    |
| 1.5       | 6.6             | CRX06D6AC       | CRX06D6AE    | 3            | CRX0003AC       | CRX0003AE    | 3            | CRX0003BC       | CRX0003BE    |
| 2         | 7.5             | CRX07D5BC       | CRX07D5BE    | 3.4          | CRX03D4AC       | CRX03D4AE    | 3.4          | CRX03D4BC       | CRX03D4BE    |
| 3         | 10.7            | CRX10D7AC       | CRX10D7AE    | 4.8          | CRX04D8AC       | CRX04D8AE    | 4.8          | CRX04D8BC       | CRX04D8BE    |
| 5         | 16.7            | CRX16D7AC       | CRX16D7AE    | 7.6          | CRX07D6AC       | CRX07D6AE    | 7.6          | CRX07D6BC       | CRX07D6BE    |
| 7.5       | 24              | CRX0024BC       | CRX0024BE    | 11           | CRX0011BC       | CRX0011BE    | 11           | CRX0011CC       | CRX0011CE    |
| 10        | 31              | CRX0031AC       | CRX0031AE    | 14           | CRX0014AC       | CRX0014AE    | 14           | CRX0014BC       | CRX0014BE    |
| 15        | 46              | CRX0046AC       | CRX0046AE    | 21           | CRX0021AC       | CRX0021AE    | 21           | CRX0021BC       | CRX0021BE    |
| 20        | 59              | CRX0059BC       | CRX0059BE    | 27           | CRX0027BC       | CRX0027BE    | 27           | CRX0027CC       | CRX0027CE    |
| 25        | 75              | CRX0075BC       | CRX0075BE    | 34           | CRX0034AC       | CRX0034AE    | 34           | CRX0034BC       | CRX0034BE    |
| 30        | 88              | CRX0088AC       | CRX0088AE    | 40           | CRX0040AC       | CRX0040AE    | 40           | CRX0040BC       | CRX0040BE    |
| 40        | 114             | CRX0114BC       | CRX0114BE    | 52           | CRX0052BC       | CRX0052BE    | 52           | CRX0052DC       | CRX0052DE    |
| 50        | 143             | CRX0143BC       | CRX0143BE    | 65           | CRX0065AC       | CRX0065AE    | 65           | CRX0065BC       | CRX0065BE    |
| 60        | 170             | CRX0170AC       | CRX0170AE    | 77           | CRX0077AC       | CRX0077AE    | 77           | CRX0077DC       | CRX0077DE    |
| 75        | 211             | CRX0211AC       | CRX0211AE    | 96           | CRX0096AC       | CRX0096AE    | 96           | CRX0096BC       | CRX0096BE    |
| 100       | 273             | CRX0273AC       | CRX0273AE    | 124          | CRX0124AC       | CRX0124AE    | 124          | CRX0124BC       | CRX0124BE    |
| 125       | 343             | CRX0343AC       | CRX0343AE    | 156          | CRX0156AC       | CRX0156AE    | 156          | CRX0156BC       | CRX0156BE    |
| 150       | 396             | CRX0396AC       | CRX0396AE    | 180          | CRX0180AC       | CRX0180AE    | 180          | CRX0180BC       | CRX0180BE    |
| 200       | 528             | CRX0528AC       | CRX0528AE    | 240          | CRX0240AC       | CRX0240AE    | 240          | CRX0240BC       | CRX0240BE    |
| 250       | -               | -               | -            | 302          | CRX0302AC       | CRX0302AE    | 302          | CRX0302BC       | CRX0302BE    |
| 300       | -               | -               | -            | 361          | CRX0361AC       | CRX0361AE    | 361          | CRX0361BC       | CRX0361BE    |
| 350       | -               | -               | -            | 414          | CRX0414AC       | CRX0414AE    | 414          | CRX0414BC       | CRX0414BE    |
| 400       | -               | -               | -            | 477          | CRX0477AC       | CRX0477AE    | 477          | CRX0477BC       | CRX0477BE    |
| 450       | -               | -               | -            | 515          | CRX0515AC       | CRX0515AE    | 515          | CRX0515BC       | CRX0515BE    |
| 500       | -               | -               | -            | 590          | CRX0590AC       | CRX0590AE    | 590          | CRX0590BC       | CRX0590BE    |
| 600       | -               | -               | -            | 720          | CRX0720AC       | CRX0720AE    | 720          | CONSULT FACTORY |              |
| 700       | -               | -               | -            | 840          | CRX0840AC       | CRX0840AE    | 840          | CONSULT FACTORY |              |
| 800       | -               | -               | -            | 960          | CRX0960AC       | CRX0960AE    | 960          | CONSULT FACTORY |              |
| 900       | -               | -               | -            | 1080         | CRX1080AC       | CRX1080AE    | 1080         | CONSULT FACTORY |              |
| 1000      | -               | -               | -            | 1200         | CRX1200AC       | CRX1200AE    | 1200         | CONSULT FACTORY |              |

| HP Rating | 600 Volt* - 60Hz |                 |              |              |                 |              |
|-----------|------------------|-----------------|--------------|--------------|-----------------|--------------|
|           | 3% Impedance     |                 |              | 5% Impedance |                 |              |
|           | Amps             | Core & Coil P/N | Enclosed P/N | Amps         | Core & Coil P/N | Enclosed P/N |
| 0.5       | 1                | CRX0001AC       | CRX0001AE    | 1            | CRX0001BC       | CRX0001BE    |
| 0.75      | 1.4              | CRX01D4AC       | CRX01D4AE    | 1.4          | CRX01D4BC       | CRX01D4BE    |
| 1         | 1.8              | CRX01D8AC       | CRX01D8AE    | 1.8          | CRX01D8BC       | CRX01D8BE    |
| 1.5       | 2.6              | CRX02D6AC       | CRX02D6AE    | 2.6          | CRX02D6BC       | CRX02D6BE    |
| 2         | 2.7              | CRX02D7AC       | CRX02D7AE    | 2.7          | CRX02D7BC       | CRX02D7BE    |
| 3         | 3.9              | CRX03D9AC       | CRX03D9AE    | 3.9          | CRX03D9BC       | CRX03D9BE    |
| 5         | 6.1              | CRX06D1AC       | CRX06D1AE    | 6.1          | CRX06D1BC       | CRX06D1BE    |
| 7.5       | 9                | CRX0009AC       | CRX0009AE    | 9            | CRX0009BC       | CRX0009BE    |
| 10        | 11               | CRX0011AC       | CRX0011AE    | 11           | CRX0011DC       | CRX0011DE    |
| 15        | 17               | CRX0017AC       | CRX0017AE    | 17           | CRX0017BC       | CRX0017BE    |
| 20        | 22               | CRX0022AC       | CRX0022AE    | 22           | CRX0022BC       | CRX0022BE    |
| 25        | 27               | CRX0027AC       | CRX0027AE    | 27           | CRX0027DC       | CRX0027DE    |
| 30        | 32               | CRX0032AC       | CRX0032AE    | 32           | CRX0032BC       | CRX0032BE    |
| 40        | 41               | CRX0041AC       | CRX0041AE    | 41           | CRX0041BC       | CRX0041BE    |
| 50        | 52               | CRX0052AC       | CRX0052AE    | 52           | CRX0052CC       | CRX0052CE    |
| 60        | 62               | CRX0062AC       | CRX0062AE    | 62           | CRX0062BC       | CRX0062BE    |
| 75        | 77               | CRX0077BC       | CRX0077BE    | 77           | CRX0077CC       | CRX0077CE    |
| 100       | 99               | CRX0099AC       | CRX0099AE    | 99           | CRX0099BC       | CRX0099BE    |
| 125       | 125              | CRX0125AC       | CRX0125AE    | 125          | CRX0125BC       | CRX0125BE    |
| 150       | 144              | CRX0144AC       | CRX0144AE    | 144          | CRX0144BC       | CRX0144BE    |
| 200       | 192              | CRX0192AC       | CRX0192AE    | 192          | CRX0192BC       | CRX0192BE    |
| 250       | 242              | CRX0242AC       | CRX0242AE    | 242          | CRX0242BC       | CRX0242BE    |
| 300       | 289              | CRX0289AC       | CRX0289AE    | 289          | CRX0289BC       | CRX0289BE    |
| 350       | 336              | CRX0336AC       | CRX0336AE    | 336          | CRX0336BC       | CRX0336BE    |
| 400       | 382              | CRX0382AC       | CRX0382AE    | 382          | CRX0382BC       | CRX0382BE    |
| 450       | 412              | CRX0412AC       | CRX0412AE    | 412          | CRX0412BC       | CRX0412BE    |
| 500       | 472              | CRX0472AC       | CRX0472AE    | 472          | CRX0472BC       | CRX0472BE    |

\*de-rated for 690V





## Standard Three Phase Reactor Core &amp; Coil Specification Charts

| Current<br>(Amps) | Part<br>Number | Inductance<br>(mH) | Watt<br>Loss | Dimensions |       |        |               |               | Mtg Slot/<br>Hole Size | Dim.<br>Fig. #<br>(pg 124) | Termination<br>Style Ref. #<br>(pg 123) | Frame<br>Size | Enclosure<br>P/N | Weight<br>(lb) |
|-------------------|----------------|--------------------|--------------|------------|-------|--------|---------------|---------------|------------------------|----------------------------|-----------------------------------------|---------------|------------------|----------------|
|                   |                |                    |              | Width      | Depth | Height | Mtg.<br>Width | Mtg.<br>Depth |                        |                            |                                         |               |                  |                |
| 1                 | CRX0001AC      | 27.20              | 21           | 4.13       | 2.29  | 5.13   | 2.81          | 1.79          | 0.28 x 0.38            | 1                          | 1                                       | 1A            | CREN1            | 2.39           |
|                   | CRX0001BC      | 47.09              | 12           | 4.13       | 2.29  | 5.13   | 2.81          | 1.79          | 0.28 x 0.38            | 1                          | 1                                       | 1A            | CREN1            | 2.3            |
| 1.1               | CRX01D1AC      | 20.36              | 12           | 4.13       | 2.29  | 5.13   | 2.81          | 1.79          | 0.28 x 0.38            | 1                          | 1                                       | 1A            | CREN1            | 2.23           |
|                   | CRX01D1BC      | 33.94              | 15           | 4.13       | 2.29  | 5.13   | 2.81          | 1.79          | 0.28 x 0.38            | 1                          | 1                                       | 1A            | CREN1            | 2.33           |
| 1.4               | CRX01D4AC      | 20.36              | 12           | 4.13       | 2.29  | 5.13   | 2.81          | 1.79          | 0.28 x 0.38            | 1                          | 1                                       | 1A            | CREN1            | 2.23           |
|                   | CRX01D4BC      | 33.94              | 15           | 4.13       | 2.29  | 5.13   | 2.81          | 1.79          | 0.28 x 0.38            | 1                          | 1                                       | 1A            | CREN1            | 2.33           |
| 1.6               | CRX01D6AC      | 14.91              | 15           | 4.13       | 2.29  | 5.13   | 2.81          | 1.79          | 0.28 x 0.38            | 1                          | 1                                       | 1A            | CREN1            | 2.26           |
|                   | CRX01D6BC      | 23.55              | 12           | 4.13       | 2.29  | 5.13   | 2.81          | 1.79          | 0.28 x 0.38            | 1                          | 1                                       | 1A            | CREN1            | 2.36           |
| 1.8               | CRX01D8AC      | 14.91              | 15           | 4.13       | 2.29  | 5.13   | 2.81          | 1.79          | 0.28 x 0.38            | 1                          | 1                                       | 1A            | CREN1            | 2.26           |
|                   | CRX01D8BC      | 27.20              | 21           | 4.13       | 2.29  | 5.13   | 2.81          | 1.79          | 0.28 x 0.38            | 1                          | 1                                       | 1A            | CREN1            | 2.39           |
| 2                 | CRX0002CC      | 20.00              | 15           | 4.13       | 2.29  | 5.13   | 2.81          | 1.79          | 0.28 x 0.38            | 1                          | 1                                       | 1A            | CREN1            | 2.99           |
| 2.1               | CRX02D1AC      | 10.61              | 19           | 4.13       | 2.29  | 5.13   | 2.81          | 1.79          | 0.28 x 0.38            | 1                          | 1                                       | 1A            | CREN1            | 2.39           |
|                   | CRX02D1BC      | 17.83              | 21           | 4.13       | 2.29  | 5.13   | 2.81          | 1.79          | 0.28 x 0.38            | 1                          | 1                                       | 1A            | CREN1            | 2.73           |
| 2.4               | CRX02D4AC      | 4.67               | 29           | 4.13       | 2.29  | 5.13   | 2.81          | 1.79          | 0.28 x 0.38            | 1                          | 1                                       | 1A            | CREN1            | 2.74           |
|                   | CRX02D4BC      | 4.08               | 9            | 4.13       | 2.29  | 5.13   | 2.81          | 1.79          | 0.28 x 0.38            | 1                          | 1                                       | 1A            | CREN1            | 2.2            |
|                   | CRX02D4CC      | 7.06               | 22           | 4.13       | 2.29  | 5.13   | 2.81          | 1.79          | 0.28 x 0.38            | 1                          | 1                                       | 1A            | CREN1            | 2.53           |
|                   | CRX02D4DC      | 7.06               | 22           | 4.13       | 2.29  | 5.13   | 2.81          | 1.79          | 0.28 x 0.38            | 1                          | 1                                       | 1A            | CREN1            | 2.53           |
|                   | CRX02D6AC      | 10.61              | 35           | 4.13       | 2.29  | 5.13   | 2.81          | 1.79          | 0.28 x 0.38            | 1                          | 1                                       | 1A            | CREN1            | 2.56           |
| 2.6               | CRX02D6BC      | 17.83              | 21           | 4.13       | 2.29  | 5.13   | 2.81          | 1.79          | 0.28 x 0.38            | 1                          | 1                                       | 1A            | CREN1            | 2.73           |
|                   | CRX02D7AC      | 10.61              | 19           | 4.13       | 2.29  | 5.13   | 2.81          | 1.79          | 0.28 x 0.38            | 1                          | 1                                       | 1A            | CREN1            | 2.39           |
| 2.7               | CRX02D7BC      | 17.83              | 21           | 4.13       | 2.29  | 5.13   | 2.81          | 1.79          | 0.28 x 0.38            | 1                          | 1                                       | 1A            | CREN1            | 2.73           |
| 3                 | CRX0003AC      | 7.06               | 22           | 4.13       | 2.29  | 5.13   | 2.81          | 1.79          | 0.28 x 0.38            | 1                          | 1                                       | 1A            | CREN1            | 2.53           |
|                   | CRX0003BC      | 10.61              | 35           | 4.13       | 2.29  | 5.13   | 2.81          | 1.79          | 0.28 x 0.38            | 1                          | 1                                       | 1A            | CREN1            | 2.56           |
| 3.4               | CRX03D4AC      | 7.06               | 22           | 4.13       | 2.29  | 5.13   | 2.81          | 1.79          | 0.28 x 0.38            | 1                          | 1                                       | 1A            | CREN1            | 2.53           |
|                   | CRX03D4BC      | 10.61              | 35           | 4.13       | 2.29  | 5.13   | 2.81          | 1.79          | 0.28 x 0.38            | 1                          | 1                                       | 1A            | CREN1            | 2.56           |
|                   | CRX03D5AC      | 2.80               | 15           | 4.13       | 2.29  | 5.13   | 2.81          | 1.79          | 0.28 x 0.38            | 1                          | 1                                       | 1A            | CREN1            | 2.21           |
| 3.5               | CRX03D5BC      | 3.55               | 18           | 4.13       | 2.29  | 5.13   | 2.81          | 1.79          | 0.28 x 0.38            | 1                          | 1                                       | 1A            | CREN1            | 2.47           |
|                   | CRX03D5CC      | 5.09               | 40           | 6.50       | 5.00  | 6.13   | 4.38          | 4.00          | 0.28 x 0.38            | 1                          | 2                                       | 1D            | CREN1            | 10.99          |
|                   | CRX03D5DC      | 4.67               | 29           | 4.13       | 2.29  | 5.13   | 2.81          | 1.79          | 0.28 x 0.38            | 1                          | 1                                       | 1A            | CREN1            | 2.74           |
| 3.9               | CRX03D9AC      | 7.06               | 22           | 4.13       | 2.29  | 5.13   | 2.81          | 1.79          | 0.28 x 0.38            | 1                          | 1                                       | 1A            | CREN1            | 2.53           |
|                   | CRX03D9BC      | 10.61              | 35           | 4.13       | 2.29  | 5.13   | 2.81          | 1.79          | 0.28 x 0.38            | 1                          | 1                                       | 1A            | CREN1            | 2.56           |
| 4                 | CRX0004CC      | 9.10               | 26           | 4.13       | 2.29  | 5.13   | 2.81          | 1.79          | 0.28 x 0.38            | 1                          | 1                                       | 1A            | CREN1            | 2.99           |
| 4.6               | CRX04D6AC      | 2.13               | 15           | 4.13       | 2.29  | 5.13   | 2.81          | 1.79          | 0.28 x 0.38            | 1                          | 1                                       | 1A            | CREN1            | 2.25           |
|                   | CRX04D6BC      | 2.13               | 15           | 4.13       | 2.29  | 5.13   | 2.81          | 1.79          | 0.28 x 0.38            | 1                          | 1                                       | 1A            | CREN1            | 2.25           |
|                   | CRX04D6CC      | 3.55               | 18           | 4.13       | 2.29  | 5.13   | 2.81          | 1.79          | 0.28 x 0.38            | 1                          | 1                                       | 1A            | CREN1            | 2.47           |
|                   | CRX04D6DC      | 4.67               | 29           | 4.13       | 2.29  | 5.13   | 2.81          | 1.79          | 0.28 x 0.38            | 1                          | 1                                       | 1A            | CREN1            | 2.74           |
| 4.8               | CRX04D8AC      | 4.70               | 22           | 4.13       | 2.29  | 5.13   | 2.81          | 1.79          | 0.28 x 0.38            | 1                          | 1                                       | 1A            | CREN1            | 2.56           |
|                   | CRX04D8BC      | 7.78               | 35           | 4.13       | 3.51  | 5.13   | 2.87          | 2.63          | 0.28 x 0.38            | 1                          | 1                                       | 1B            | CREN1            | 4.45           |
| 6.1               | CRX06D1AC      | 4.67               | 29           | 4.13       | 2.29  | 5.13   | 2.81          | 1.79          | 0.28 x 0.38            | 1                          | 1                                       | 1A            | CREN1            | 2.74           |
|                   | CRX06D1BC      | 7.78               | 35           | 4.13       | 3.51  | 5.13   | 2.87          | 2.63          | 0.28 x 0.38            | 1                          | 1                                       | 1B            | CREN1            | 4.45           |
| 6.6               | CRX06D6AC      | 1.48               | 18           | 4.13       | 2.29  | 5.13   | 2.81          | 1.79          | 0.28 x 0.38            | 1                          | 1                                       | 1A            | CREN1            | 2.35           |
|                   | CRX06D6BC      | 1.48               | 18           | 4.13       | 2.29  | 5.13   | 2.81          | 1.79          | 0.28 x 0.38            | 1                          | 1                                       | 1A            | CREN1            | 2.35           |
|                   | CRX06D6CC      | 2.33               | 24           | 4.13       | 2.29  | 5.13   | 2.81          | 1.79          | 0.28 x 0.38            | 1                          | 1                                       | 1A            | CREN1            | 2.65           |
|                   | CRX06D6DC      | 3.06               | 31           | 4.13       | 3.51  | 5.13   | 2.87          | 2.63          | 0.28 x 0.38            | 1                          | 1                                       | 1B            | CREN1            | 4.43           |
| 7.5               | CRX07D5AC      | 1.31               | 18           | 4.13       | 2.29  | 5.13   | 2.81          | 1.79          | 0.28 x 0.38            | 1                          | 1                                       | 1A            | CREN1            | 2.44           |
|                   | CRX07D5BC      | 1.53               | 25           | 4.13       | 3.51  | 5.38   | 2.87          | 2.63          | 0.28 x 0.38            | 1                          | 2                                       | 1C            | CREN1            | 4.26           |
|                   | CRX07D5CC      | 2.33               | 24           | 4.13       | 2.29  | 5.13   | 2.81          | 1.79          | 0.28 x 0.38            | 1                          | 1                                       | 1A            | CREN1            | 2.65           |
|                   | CRX07D5DC      | 2.33               | 24           | 4.13       | 2.29  | 5.13   | 2.81          | 1.79          | 0.28 x 0.38            | 1                          | 1                                       | 1A            | CREN1            | 2.65           |
| 7.6               | CRX07D6AC      | 3.06               | 31           | 4.13       | 3.51  | 5.13   | 2.87          | 2.63          | 0.28 x 0.38            | 1                          | 1                                       | 1B            | CREN1            | 4.43           |
|                   | CRX07D6BC      | 5.09               | 40           | 6.50       | 5.00  | 6.13   | 4.38          | 4.00          | 0.28 x 0.38            | 1                          | 2                                       | 1D            | CREN1            | 10.99          |

All dimensions in inches



## Standard Three Phase Reactor Core &amp; Coil Specification Charts

| Current (Amps) | Part Number | Inductance (mH) | Watt Loss | Dimensions |       |        |               |               | Mtg Slot/<br>Hole Size | Dim.<br>Fig. #<br>(pg 124) | Termination<br>Style Ref. #<br>(pg 123) | Frame<br>Size | Enclosure<br>P/N | Weight<br>(lb) |
|----------------|-------------|-----------------|-----------|------------|-------|--------|---------------|---------------|------------------------|----------------------------|-----------------------------------------|---------------|------------------|----------------|
|                |             |                 |           | Width      | Depth | Height | Mtg.<br>Width | Mtg.<br>Depth |                        |                            |                                         |               |                  |                |
| 8              | CRX0008CC   | 7.50            | 39        | 6.50       | 5.00  | 6.13   | 4.38          | 4.00          | 0.28 x 0.38            | 1                          | 2                                       | 1D            | CREN1            | 11.61          |
| 9              | CRX0009AC   | 3.06            | 31        | 4.13       | 3.51  | 5.13   | 2.87          | 2.63          | 0.28 x 0.38            | 1                          | 1                                       | 1B            | CREN1            | 4.43           |
|                | CRX0009BC   | 5.09            | 40        | 6.50       | 5.00  | 6.13   | 4.38          | 4.00          | 0.28 x 0.38            | 1                          | 2                                       | 1D            | CREN1            | 10.99          |
| 10.7           | CRX10D7AC   | 0.95            | 30        | 4.13       | 3.51  | 5.38   | 2.87          | 2.63          | 0.28 x 0.38            | 1                          | 2                                       | 1C            | CREN1            | 4.5            |
|                | CRX10D7BC   | 0.95            | 30        | 4.13       | 3.51  | 5.38   | 2.87          | 2.63          | 0.28 x 0.38            | 1                          | 2                                       | 1C            | CREN1            | 4.5            |
|                | CRX10D7CC   | 1.64            | 37        | 4.13       | 3.51  | 5.38   | 2.87          | 2.63          | 0.28 x 0.38            | 1                          | 2                                       | 1C            | CREN1            | 4.28           |
|                | CRX10D7DC   | 1.53            | 25        | 4.13       | 3.51  | 5.38   | 2.87          | 2.63          | 0.28 x 0.38            | 1                          | 2                                       | 1C            | CREN1            | 4.26           |
| 11             | CRX0011AC   | 2.57            | 36        | 4.13       | 3.51  | 5.38   | 2.87          | 2.63          | 0.28 x 0.38            | 1                          | 2                                       | 1C            | CREN1            | 4.58           |
|                | CRX0011BC   | 2.10            | 31        | 4.13       | 3.51  | 5.38   | 2.87          | 2.63          | 0.28 x 0.38            | 1                          | 2                                       | 1C            | CREN1            | 4.48           |
|                | CRX0011CC   | 3.40            | 39        | 6.50       | 5.00  | 6.13   | 4.38          | 4.00          | 0.28 x 0.38            | 1                          | 2                                       | 1D            | CREN1            | 10.63          |
|                | CRX0011DC   | 4.28            | 45        | 6.50       | 5.00  | 6.13   | 4.38          | 4.00          | 0.28 x 0.38            | 1                          | 2                                       | 1D            | CREN1            | 10.6           |
| 12             | CRX0012CC   | 4.20            | 52        | 6.50       | 5.00  | 6.13   | 4.38          | 4.00          | 0.28 x 0.38            | 1                          | 2                                       | 1D            | CREN1            | 11.8           |
| 14             | CRX0014AC   | 1.64            | 37        | 4.13       | 3.51  | 5.38   | 2.87          | 2.63          | 0.28 x 0.38            | 1                          | 2                                       | 1C            | CREN1            | 4.28           |
|                | CRX0014BC   | 2.73            | 57        | 6.50       | 5.00  | 6.13   | 4.38          | 4.00          | 0.28 x 0.38            | 1                          | 2                                       | 1D            | CREN1            | 11.07          |
| 16.7           | CRX16D7AC   | 0.59            | 30        | 4.13       | 3.51  | 5.38   | 2.87          | 2.63          | 0.28 x 0.38            | 1                          | 2                                       | 1C            | CREN1            | 4.06           |
|                | CRX16D7BC   | 0.59            | 30        | 4.13       | 3.51  | 5.38   | 2.87          | 2.63          | 0.28 x 0.38            | 1                          | 2                                       | 1C            | CREN1            | 4.06           |
|                | CRX16D7CC   | 1.06            | 57        | 6.50       | 5.00  | 6.13   | 4.38          | 4.00          | 0.28 x 0.38            | 1                          | 3                                       | 1D            | CREN1            | 11.09          |
|                | CRX16D7DC   | 0.95            | 30        | 4.13       | 3.51  | 5.38   | 2.87          | 2.63          | 0.28 x 0.38            | 1                          | 2                                       | 1C            | CREN1            | 4.5            |
| 17             | CRX0017AC   | 1.66            | 51        | 6.50       | 5.00  | 6.13   | 4.38          | 4.00          | 0.28 x 0.38            | 1                          | 2                                       | 1D            | CREN1            | 10.28          |
|                | CRX0017BC   | 2.73            | 57        | 6.50       | 5.00  | 6.13   | 4.38          | 4.00          | 0.28 x 0.38            | 1                          | 2                                       | 1D            | CREN1            | 11.07          |
| 21             | CRX0021AC   | 1.06            | 57        | 6.50       | 5.00  | 6.13   | 4.38          | 4.00          | 0.28 x 0.38            | 1                          | 3                                       | 1D            | CREN1            | 11.09          |
|                | CRX0021BC   | 1.80            | 57        | 6.50       | 5.00  | 6.13   | 4.38          | 4.00          | 0.28 x 0.38            | 1                          | 2                                       | 1D            | CREN1            | 11.17          |
| 22             | CRX0022AC   | 1.28            | 51        | 6.50       | 5.00  | 6.13   | 4.38          | 4.00          | 0.28 x 0.38            | 1                          | 2                                       | 1D            | CREN1            | 10.62          |
|                | CRX0022BC   | 2.14            | 77        | 6.50       | 5.00  | 6.13   | 4.38          | 4.00          | 0.28 x 0.38            | 1                          | 2                                       | 1D            | CREN1            | 11.88          |
| 24             | CRX0024AC   | 0.41            | 35        | 4.13       | 3.51  | 5.38   | 2.87          | 2.63          | 0.28 x 0.38            | 1                          | 2                                       | 1C            | CREN1            | 4.35           |
|                | CRX0024BC   | 0.55            | 68        | 6.50       | 5.00  | 6.13   | 4.38          | 4.00          | 0.28 x 0.38            | 1                          | 3                                       | 1D            | CREN1            | 11.79          |
|                | CRX0024CC   | 0.68            | 47        | 6.50       | 5.00  | 6.13   | 4.38          | 4.00          | 0.28 x 0.38            | 1                          | 2                                       | 1D            | CREN1            | 10.35          |
|                | CRX0024DC   | 0.86            | 60        | 6.50       | 5.00  | 6.13   | 4.38          | 4.00          | 0.28 x 0.38            | 1                          | 2                                       | 1D            | CREN1            | 10.47          |
| 27             | CRX0027AC   | 1.06            | 57        | 6.50       | 5.00  | 6.13   | 4.38          | 4.00          | 0.28 x 0.38            | 1                          | 3                                       | 1D            | CREN1            | 11.09          |
|                | CRX0027BC   | 0.86            | 60        | 6.50       | 5.00  | 6.13   | 4.38          | 4.00          | 0.28 x 0.38            | 1                          | 2                                       | 1D            | CREN1            | 10.47          |
|                | CRX0027CC   | 1.40            | 57        | 6.50       | 5.00  | 6.13   | 4.38          | 4.00          | 0.28 x 0.38            | 1                          | 3                                       | 1D            | CREN1            | 12.14          |
|                | CRX0027DC   | 1.77            | 93        | 7.12       | 4.69  | 6.38   | 4.80          | 3.27          | 0.38 x 0.50            | 2                          | 3                                       | 2A            | CREN2            | 11.5           |
| 31             | CRX0031AC   | 0.32            | 31        | 6.50       | 5.00  | 6.13   | 4.38          | 4.00          | 0.28 x 0.38            | 1                          | 3                                       | 1D            | CREN1            | 10.35          |
|                | CRX0031BC   | 0.32            | 31        | 6.50       | 5.00  | 6.13   | 4.38          | 4.00          | 0.28 x 0.38            | 1                          | 3                                       | 1D            | CREN1            | 10.35          |
|                | CRX0031CC   | 0.55            | 68        | 6.50       | 5.00  | 6.13   | 4.38          | 4.00          | 0.28 x 0.38            | 1                          | 3                                       | 1D            | CREN1            | 11.79          |
|                | CRX0031DC   | 0.68            | 80        | 6.50       | 5.00  | 6.13   | 4.38          | 4.00          | 0.28 x 0.38            | 1                          | 3                                       | 1D            | CREN1            | 12.15          |
| 32             | CRX0032AC   | 0.88            | 68        | 6.50       | 5.00  | 6.13   | 4.38          | 4.00          | 0.28 x 0.38            | 1                          | 3                                       | 1D            | CREN1            | 11.85          |
|                | CRX0032BC   | 1.43            | 80        | 7.12       | 4.69  | 6.38   | 4.80          | 3.27          | 0.38 x 0.50            | 2                          | 3                                       | 2A            | CREN2            | 12.1           |
| 34             | CRX0034AC   | 0.68            | 80        | 6.50       | 5.00  | 6.13   | 4.38          | 4.00          | 0.28 x 0.38            | 1                          | 3                                       | 1D            | CREN1            | 12.15          |
|                | CRX0034BC   | 1.13            | 115       | 7.12       | 5.19  | 6.38   | 4.80          | 3.77          | 0.38 x 0.50            | 2                          | 3                                       | 2B            | CREN2            | 12             |
| 35             | CRX0035CC   | 1.70            | 93        | 7.12       | 5.19  | 6.38   | 4.80          | 3.77          | 0.38 x 0.50            | 2                          | 3                                       | 2B            | CREN2            | 24             |
| 40             | CRX0040AC   | 0.55            | 68        | 6.50       | 5.00  | 6.13   | 4.38          | 4.00          | 0.28 x 0.38            | 1                          | 3                                       | 1D            | CREN1            | 11.79          |
|                | CRX0040BC   | 0.94            | 105       | 7.12       | 4.69  | 6.38   | 4.80          | 3.27          | 0.38 x 0.50            | 2                          | 3                                       | 2A            | CREN2            | 12.2           |
| 41             | CRX0041AC   | 0.68            | 80        | 6.50       | 5.00  | 6.13   | 4.38          | 4.00          | 0.28 x 0.38            | 1                          | 3                                       | 1D            | CREN1            | 12.15          |
|                | CRX0041BC   | 1.13            | 115       | 7.12       | 5.19  | 6.38   | 4.80          | 3.77          | 0.38 x 0.50            | 2                          | 3                                       | 2B            | CREN2            | 12             |
| 45             | CRX0045CC   | 1.20            | 140       | 7.12       | 5.19  | 6.38   | 4.80          | 3.77          | 0.38 x 0.50            | 2                          | 3                                       | 2B            | CREN2            | 24             |
| 46             | CRX0046AC   | 0.21            | 40        | 6.50       | 5.00  | 6.13   | 4.38          | 4.00          | 0.28 x 0.38            | 1                          | 3                                       | 1D            | CREN1            | 10.87          |
|                | CRX0046BC   | 0.21            | 40        | 6.50       | 5.00  | 6.13   | 4.38          | 4.00          | 0.28 x 0.38            | 1                          | 3                                       | 1D            | CREN1            | 10.87          |
|                | CRX0046CC   | 0.36            | 60        | 6.50       | 5.00  | 6.13   | 4.38          | 4.00          | 0.28 x 0.38            | 1                          | 3                                       | 1D            | CREN1            | 11.5           |
|                | CRX0046DC   | 0.45            | 130       | 7.12       | 4.69  | 6.38   | 4.80          | 3.27          | 0.38 x 0.50            | 2                          | 3                                       | 2A            | CREN2            | 19             |

All dimensions in inches

## Standard Three Phase Reactor Core &amp; Coil Specification Charts

| Current (Amps) | Part Number | Inductance (mH) | Watt Loss | Dimensions |       |        |            |            | Mtg Slot/<br>Hole Size | Dim. Fig. #<br>(pg 124) | Termination Style Ref. #<br>(pg 123) | Frame Size | Enclosure P/N | Weight (lb) |
|----------------|-------------|-----------------|-----------|------------|-------|--------|------------|------------|------------------------|-------------------------|--------------------------------------|------------|---------------|-------------|
|                |             |                 |           | Width      | Depth | Height | Mtg. Width | Mtg. Depth |                        |                         |                                      |            |               |             |
| 52             | CRX0052AC   | 0.50            | 70        | 7.12       | 4.69  | 6.38   | 4.80       | 3.27       | 0.38 x 0.50            | 2                       | 3                                    | 2A         | CREN2         | 15          |
|                | CRX0052BC   | 0.43            | 85        | 7.12       | 4.69  | 6.38   | 4.80       | 3.27       | 0.38 x 0.50            | 2                       | 3                                    | 2A         | CREN2         | 17          |
|                | CRX0052CC   | 0.91            | 130       | 7.12       | 5.19  | 6.38   | 4.80       | 3.77       | 0.38 x 0.50            | 2                       | 3                                    | 2B         | CREN2         | 25          |
|                | CRX0052DC   | 0.74            | 170       | 7.12       | 5.19  | 6.38   | 4.80       | 3.77       | 0.38 x 0.50            | 2                       | 3                                    | 2B         | CREN2         | 25          |
| 59             | CRX0059AC   | 0.17            | 55        | 6.50       | 5.00  | 6.13   | 4.38       | 4.00       | 0.28 x 0.38            | 1                       | 3                                    | 1D         | CREN1         | 11.03       |
|                | CRX0059BC   | 0.22            | 85        | 7.25       | 5.88  | 5.63   | 4.80       | 3.27       | 0.38 x 0.50            | 3                       | 4                                    | 3A         | CREN2         | 18          |
|                | CRX0059CC   | 0.30            | 75        | 7.12       | 4.69  | 6.38   | 4.80       | 3.27       | 0.38 x 0.50            | 2                       | 3                                    | 2A         | CREN2         | 16          |
|                | CRX0059DC   | 0.36            | 110       | 7.25       | 6.00  | 5.63   | 4.80       | 3.77       | 0.38 x 0.50            | 3                       | 4                                    | 3C         | CREN2         | 25          |
| 62             | CRX0062AC   | 0.45            | 130       | 7.12       | 4.69  | 6.38   | 4.80       | 3.27       | 0.38 x 0.50            | 2                       | 3                                    | 2A         | CREN2         | 19          |
|                | CRX0062BC   | 0.74            | 170       | 7.12       | 5.19  | 6.38   | 4.80       | 3.77       | 0.38 x 0.50            | 2                       | 3                                    | 2B         | CREN2         | 25          |
| 65             | CRX0065AC   | 0.34            | 110       | 7.25       | 6.00  | 5.63   | 4.80       | 3.77       | 0.38 x 0.50            | 3                       | 4                                    | 3C         | CREN2         | 25          |
|                | CRX0065BC   | 0.57            | 120       | 7.25       | 6.00  | 5.63   | 4.80       | 3.77       | 0.38 x 0.50            | 3                       | 4                                    | 3C         | CREN2         | 25          |
| 75             | CRX0075AC   | 0.12            | 70        | 7.25       | 5.88  | 5.63   | 4.80       | 3.27       | 0.38 x 0.50            | 3                       | 4                                    | 3A         | CREN2         | 17          |
|                | CRX0075BC   | 0.19            | 95        | 7.25       | 5.88  | 5.63   | 4.80       | 3.27       | 0.38 x 0.50            | 3                       | 4                                    | 3A         | CREN2         | 18          |
|                | CRX0075CC   | 0.22            | 85        | 7.25       | 5.88  | 5.63   | 4.80       | 3.27       | 0.38 x 0.50            | 3                       | 4                                    | 3A         | CREN2         | 18          |
|                | CRX0075DC   | 0.29            | 105       | 7.25       | 6.00  | 5.63   | 4.80       | 3.77       | 0.38 x 0.50            | 3                       | 4                                    | 3C         | CREN2         | 21          |
| 77             | CRX0077AC   | 0.29            | 105       | 7.25       | 6.00  | 5.63   | 4.80       | 3.77       | 0.38 x 0.50            | 3                       | 4                                    | 3C         | CREN2         | 21          |
|                | CRX0077BC   | 0.36            | 110       | 7.25       | 6.00  | 5.63   | 4.80       | 3.77       | 0.38 x 0.50            | 3                       | 4                                    | 3C         | CREN2         | 25          |
|                | CRX0077CC   | 0.60            | 216       | 9.25       | 6.25  | 7.00   | 6.00       | 3.70       | 0.44 x 1.0             | 3                       | 4                                    | 3E         | CREN2         | 30          |
|                | CRX0077DC   | 0.49            | 160       | 7.25       | 6.00  | 5.63   | 4.80       | 3.77       | 0.38 x 0.50            | 3                       | 4                                    | 3C         | CREN2         | 24          |
| 88             | CRX0088AC   | 0.12            | 70        | 7.25       | 5.88  | 5.63   | 4.80       | 3.27       | 0.38 x 0.50            | 3                       | 4                                    | 3A         | CREN2         | 17          |
|                | CRX0088BC   | 0.12            | 70        | 7.25       | 5.88  | 5.63   | 4.80       | 3.27       | 0.38 x 0.50            | 3                       | 4                                    | 3A         | CREN2         | 17          |
|                | CRX0088CC   | 0.19            | 95        | 7.25       | 5.88  | 5.63   | 4.80       | 3.27       | 0.38 x 0.50            | 3                       | 4                                    | 3A         | CREN2         | 18          |
|                | CRX0088DC   | 0.24            | 120       | 7.25       | 6.00  | 5.63   | 4.80       | 3.77       | 0.38 x 0.50            | 3                       | 4                                    | 3C         | CREN2         | 24          |
| 96             | CRX0096AC   | 0.24            | 120       | 7.25       | 6.00  | 5.63   | 4.80       | 3.77       | 0.38 x 0.50            | 3                       | 4                                    | 3C         | CREN2         | 24          |
|                | CRX0096BC   | 0.39            | 170       | 9.25       | 8.25  | 7.00   | 6.00       | 5.70       | 0.44 x 1.0             | 3                       | 4                                    | 3N         | CREN2         | 49          |
| 99             | CRX0099AC   | 0.28            | 125       | 7.25       | 6.00  | 5.63   | 4.80       | 3.77       | 0.38 x 0.50            | 3                       | 4                                    | 3C         | CREN2         | 26          |
|                | CRX0099BC   | 0.48            | 210       | 9.25       | 8.00  | 7.00   | 6.00       | 5.45       | 0.44 x 1.0             | 3                       | 4                                    | 3L         | CREN2         | 48          |
| 114            | CRX0114AC   | 0.09            | 70        | 7.25       | 6.00  | 5.63   | 4.80       | 3.27       | 0.38 x 0.50            | 3                       | 5                                    | 3B         | CREN2         | 18          |
|                | CRX0114BC   | 0.11            | 140       | 9.25       | 6.75  | 7.00   | 6.00       | 3.83       | 0.44 x 1.0             | 3                       | 5                                    | 3F         | CREN2         | 28          |
|                | CRX0114CC   | 0.14            | 110       | 9.25       | 7.25  | 7.00   | 6.00       | 4.33       | 0.44 x 1.0             | 3                       | 5                                    | 3J         | CREN2         | 33          |
|                | CRX0114DC   | 0.19            | 190       | 10.80      | 8.25  | 10.00  | 7.20       | 5.21       | 0.44 x 1.0             | 4                       | 5                                    | 4A         | CRECH2        | 52          |
| 124            | CRX0124AC   | 0.19            | 190       | 10.80      | 8.25  | 10.00  | 7.20       | 5.21       | 0.44 x 1.0             | 4                       | 5                                    | 4A         | CRECH2        | 52          |
|                | CRX0124BC   | 0.30            | 185       | 9.25       | 8.63  | 7.00   | 6.00       | 5.20       | 0.44 x 1.0             | 3                       | 5                                    | 3Q         | CREN2         | 48          |
| 125            | CRX0125AC   | 0.23            | 160       | 9.25       | 7.63  | 7.00   | 6.00       | 4.70       | 0.44 x 1.0             | 3                       | 5                                    | 3K         | CREN2         | 41          |
|                | CRX0125BC   | 0.38            | 250       | 10.80      | 9.13  | 10.00  | 7.20       | 6.08       | 0.44 x 1.0             | 4                       | 5                                    | 4C         | CRECH2        | 67          |
| 143            | CRX0143AC   | 0.07            | 88        | 7.25       | 6.00  | 5.63   | 4.80       | 3.27       | 0.38 x 0.50            | 3                       | 5                                    | 3B         | CREN2         | 20          |
|                | CRX0143BC   | 0.10            | 130       | 9.25       | 7.00  | 7.00   | 6.00       | 3.95       | 0.44 x 1.0             | 3                       | 5                                    | 3H         | CREN2         | 34          |
|                | CRX0143CC   | 0.11            | 140       | 9.25       | 6.75  | 7.00   | 6.00       | 3.83       | 0.44 x 1.0             | 3                       | 5                                    | 3F         | CREN2         | 28          |
|                | CRX0143DC   | 0.11            | 140       | 9.25       | 6.75  | 7.00   | 6.00       | 3.83       | 0.44 x 1.0             | 3                       | 5                                    | 3F         | CREN2         | 28          |
| 144            | CRX0144AC   | 0.19            | 190       | 10.80      | 8.25  | 10.00  | 7.20       | 5.21       | 0.44 x 1.0             | 4                       | 5                                    | 4A         | CRECH2        | 52          |
|                | CRX0144BC   | 0.35            | 240       | 10.80      | 9.50  | 10.00  | 7.20       | 6.33       | 0.44 x 1.0             | 4                       | 5                                    | 4D         | CRECH4        | 74          |
| 156            | CRX0156AC   | 0.15            | 210       | 9.25       | 7.00  | 7.00   | 6.00       | 4.08       | 0.44 x 1.0             | 3                       | 5                                    | 3G         | CREN2         | 32          |
|                | CRX0156BC   | 0.24            | 260       | 9.25       | 8.63  | 7.00   | 6.00       | 5.70       | 0.44 x 1.0             | 3                       | 5                                    | 3R         | CRECH2        | 32          |
| 170            | CRX0170AC   | 0.06            | 100       | 7.25       | 6.25  | 5.63   | 4.80       | 3.77       | 0.38 x 0.50            | 3                       | 5                                    | 3D         | CREN2         | 23          |
|                | CRX0170BC   | 0.06            | 100       | 7.25       | 6.25  | 5.63   | 4.80       | 3.77       | 0.38 x 0.50            | 3                       | 5                                    | 3D         | CREN2         | 23          |
|                | CRX0170CC   | 0.10            | 130       | 9.25       | 7.00  | 7.00   | 6.00       | 3.95       | 0.44 x 1.0             | 3                       | 5                                    | 3H         | CREN2         | 34          |
|                | CRX0170DC   | 0.10            | 130       | 9.25       | 7.00  | 7.00   | 6.00       | 3.95       | 0.44 x 1.0             | 3                       | 5                                    | 3H         | CREN2         | 34          |
| 180            | CRX0180AC   | 0.13            | 180       | 9.25       | 8.88  | 7.00   | 6.00       | 5.95       | 0.44 x 1.0             | 3                       | 5                                    | 3S         | CRECH2        | 54          |
|                | CRX0180BC   | 0.21            | 250       | 10.80      | 8.38  | 10.00  | 7.20       | 5.33       | 0.44 x 1.0             | 4                       | 5                                    | 4B         | CRECH2        | 63          |
| 192            | CRX0192AC   | 0.15            | 200       | 9.25       | 8.25  | 7.00   | 6.00       | 5.45       | 0.44 x 1.0             | 3                       | 5                                    | 3P         | CRECH2        | 53          |
|                | CRX0192BC   | 0.25            | 325       | 10.80      | 10.50 | 10.00  | 7.20       | 7.33       | 0.44 x 1.0             | 4                       | 5                                    | 4E         | CRECH2        | 90          |

All dimensions in inches



## Standard Three Phase Reactor Core &amp; Coil Specification Charts

| Current<br>(Amps) | Part<br>Number | Inductance<br>(mH) | Watt<br>Loss | Dimensions |       |        |               |               | Mtg Slot/<br>Hole Size | Dim.<br>Fig. #<br>(pg 124) | Termination<br>Style Ref. #<br>(pg 123) | Frame<br>Size | Enclosure<br>P/N | Weight<br>(lb) |
|-------------------|----------------|--------------------|--------------|------------|-------|--------|---------------|---------------|------------------------|----------------------------|-----------------------------------------|---------------|------------------|----------------|
|                   |                |                    |              | Width      | Depth | Height | Mtg.<br>Width | Mtg.<br>Depth |                        |                            |                                         |               |                  |                |
| 200               | CRX0200CC      | 0.11               | 195          | 9.25       | 7.63  | 7.00   | 6.00          | 4.70          | 0.44 x 1.0             | 3                          | 5                                       | 3K            | CRECH2           | 44             |
| 211               | CRX0211AC      | 0.05               | 125          | 7.25       | 6.25  | 5.63   | 4.80          | 3.77          | 0.38 x 0.50            | 3                          | 5                                       | 3D            | CREN2            | 24             |
|                   | CRX0211BC      | 0.05               | 125          | 7.25       | 6.25  | 5.63   | 4.80          | 3.77          | 0.38 x 0.50            | 3                          | 5                                       | 3D            | CREN2            | 24             |
|                   | CRX0211CC      | 0.08               | 180          | 9.25       | 7.63  | 7.00   | 6.00          | 4.70          | 0.44 x 1.0             | 3                          | 5                                       | 3K            | CRECH2           | 39             |
|                   | CRX0211DC      | 0.10               | 225          | 11.05      | 8.25  | 10.00  | 7.20          | 5.21          | 0.44 x 1.0             | 4                          | 5                                       | 4G            | CRECH2           | 58             |
| 240               | CRX0240AC      | 0.10               | 225          | 11.05      | 8.25  | 10.00  | 7.20          | 5.21          | 0.44 x 1.0             | 4                          | 5                                       | 4G            | CRECH2           | 58             |
|                   | CRX0240BC      | 0.16               | 435          | 13.75      | 11.63 | 12.50  | 9.00          | 8.70          | 0.44 x 1.0             | 4                          | 5                                       | 4V            | CRECH4           | 155            |
| 242               | CRX0242AC      | 0.12               | 275          | 11.05      | 8.25  | 10.00  | 7.20          | 5.08          | 0.44 x 1.0             | 4                          | 5                                       | 4F            | CRECH2           | 59             |
|                   | CRX0242BC      | 0.20               | 360          | 11.05      | 9.50  | 10.00  | 7.20          | 6.46          | 0.44 x 1.0             | 4                          | 5                                       | 4M            | CRECH4           | 87             |
| 273               | CRX0273AC      | 0.04               | 130          | 9.25       | 8.13  | 7.00   | 6.00          | 5.20          | 0.44 x 1.0             | 3                          | 5                                       | 3M            | CRECH2           | 43             |
|                   | CRX0273BC      | 0.04               | 130          | 9.25       | 8.13  | 7.00   | 6.00          | 5.20          | 0.44 x 1.0             | 3                          | 5                                       | 3M            | CRECH2           | 43             |
|                   | CRX0273CC      | 0.06               | 200          | 11.05      | 9.13  | 10.00  | 7.20          | 6.08          | 0.44 x 1.0             | 4                          | 5                                       | 4L            | CRECH4           | 67             |
|                   | CRX0273DC      | 0.08               | 310          | 13.75      | 9.00  | 12.50  | 9.00          | 6.05          | 0.44 x 1.0             | 4                          | 5                                       | 4M            | CRECH4           | 84             |
| 289               | CRX0289AC      | 0.10               | 290          | 11.05      | 9.00  | 10.00  | 7.20          | 5.96          | 0.44 x 1.0             | 4                          | 5                                       | 4K            | CRECH4           | 75             |
|                   | CRX0289BC      | 0.16               | 435          | 13.75      | 11.63 | 12.50  | 9.00          | 8.70          | 0.44 x 1.0             | 4                          | 5                                       | 4V            | CRECH4           | 155            |
| 302               | CRX0302AC      | 0.08               | 310          | 13.75      | 9.00  | 12.50  | 9.00          | 6.05          | 0.44 x 1.0             | 4                          | 5                                       | 4M            | CRECH4           | 84             |
|                   | CRX0302BC      | 0.13               | 475          | 13.75      | 11.38 | 14.50  | 9.00          | 8.42          | 0.44 x 1.0             | 4                          | 5                                       | 4AA           | CRECH4           | 171            |
| 336               | CRX0336AC      | 0.08               | 360          | 13.75      | 9.38  | 14.50  | 9.00          | 6.42          | 0.44 x 1.0             | 4                          | 5                                       | 4W            | CRECH4           | 110            |
|                   | CRX0336BC      | 0.13               | 475          | 13.75      | 11.38 | 14.50  | 9.00          | 8.42          | 0.44 x 1.0             | 4                          | 5                                       | 4AA           | CRECH4           | 171            |
| 343               | CRX0343AC      | 0.03               | 200          | 11.05      | 8.63  | 10.00  | 7.20          | 5.58          | 0.44 x 1.0             | 4                          | 5                                       | 4H            | CRECH4           | 57             |
|                   | CRX0343BC      | 0.03               | 200          | 11.05      | 8.63  | 10.00  | 7.20          | 5.58          | 0.44 x 1.0             | 4                          | 5                                       | 4H            | CRECH4           | 57             |
|                   | CRX0343CC      | 0.05               | 230          | 11.05      | 8.88  | 10.00  | 7.20          | 5.83          | 0.44 x 1.0             | 4                          | 5                                       | 4J            | CRECH4           | 66             |
|                   | CRX0343DC      | 0.06               | 325          | 13.75      | 9.38  | 12.50  | 9.00          | 6.42          | 0.44 x 1.0             | 4                          | 5                                       | 4Q            | CRECH4           | 95             |
| 361               | CRX0361AC      | 0.06               | 325          | 13.75      | 9.38  | 12.50  | 9.00          | 6.42          | 0.44 x 1.0             | 4                          | 5                                       | 4Q            | CRECH4           | 95             |
|                   | CRX0361BC      | 0.10               | 445          | 13.75      | 11.38 | 12.50  | 9.00          | 8.42          | 0.44 x 1.0             | 4                          | 5                                       | 4U            | CRECH5           | 147            |
| 382               | CRX0382AC      | 0.07               | 435          | 13.75      | 10.38 | 12.50  | 9.00          | 7.30          | 0.44 x 1.0             | 4                          | 5                                       | 4S            | CRECH5           | 116            |
|                   | CRX0382BC      | 0.12               | 580          | 13.75      | 11.50 | 14.50  | 9.00          | 8.67          | 0.44 x 1.0             | 4                          | 5                                       | 4AB           | CRECH5           | 180            |
| 396               | CRX0396AC      | 0.03               | 200          | 11.05      | 8.63  | 10.00  | 7.20          | 5.58          | 0.44 x 1.0             | 4                          | 5                                       | 4H            | CRECH4           | 57             |
|                   | CRX0396BC      | 0.03               | 200          | 11.05      | 8.63  | 10.00  | 7.20          | 5.58          | 0.44 x 1.0             | 4                          | 5                                       | 4H            | CRECH4           | 57             |
|                   | CRX0396CC      | 0.04               | 300          | 13.75      | 9.38  | 12.50  | 9.00          | 6.42          | 0.44 x 1.0             | 4                          | 5                                       | 4Q            | CRECH4           | 92             |
|                   | CRX0396DC      | 0.04               | 300          | 13.75      | 9.38  | 12.50  | 9.00          | 6.42          | 0.44 x 1.0             | 4                          | 5                                       | 4Q            | CRECH4           | 92             |
| 412               | CRX0412AC      | 0.07               | 435          | 13.75      | 10.38 | 12.50  | 9.00          | 7.30          | 0.44 x 1.0             | 4                          | 5                                       | 4S            | CRECH5           | 116            |
|                   | CRX0412BC      | 0.11               | 550          | 13.75      | 10.88 | 12.50  | 9.00          | 7.92          | 0.44 x 1.0             | 4                          | 5                                       | 4T            | CRECH5           | 146            |
| 414               | CRX0414AC      | 0.06               | 400          | 13.75      | 10.13 | 12.50  | 9.00          | 7.17          | 0.44 x 1.0             | 4                          | 5                                       | 4R            | CRECH5           | 125            |
|                   | CRX0414BC      | 0.08               | 505          | 13.75      | 11.38 | 12.50  | 9.00          | 8.42          | 0.44 x 1.0             | 4                          | 5                                       | 4U            | CRECH5           | 143            |
| 472               | CRX0472AC      | 0.06               | 400          | 13.75      | 10.13 | 12.50  | 9.00          | 7.17          | 0.44 x 1.0             | 4                          | 5                                       | 4R            | CRECH5           | 125            |
|                   | CRX0472BC      | 0.10               | 560          | 13.75      | 11.63 | 12.50  | 9.00          | 8.70          | 0.44 x 1.0             | 4                          | 5                                       | 4V            | CRECH5           | 171            |
| 477               | CRX0477AC      | 0.05               | 420          | 13.75      | 10.88 | 14.50  | 9.00          | 7.42          | 0.44 x 1.0             | 4                          | 6                                       | 4Z            | CRECH6           | 145            |
|                   | CRX0477BC      | 0.08               | 600          | 13.75      | 13.38 | 14.50  | 9.00          | 9.92          | 0.44 x 1.0             | 4                          | 6                                       | 4AC           | CRECH6           | 220            |
| 515               | CRX0515AC      | 0.05               | 420          | 13.75      | 10.88 | 14.50  | 9.00          | 7.42          | 0.44 x 1.0             | 4                          | 6                                       | 4Z            | CRECH6           | 145            |
|                   | CRX0515BC      | 0.08               | 600          | 13.75      | 13.38 | 14.50  | 9.00          | 9.92          | 0.44 x 1.0             | 4                          | 6                                       | 4AC           | CRECH6           | 220            |
| 528               | CRX0528AC      | 0.02               | 220          | 13.75      | 9.38  | 12.50  | 9.00          | 5.70          | 0.44 x 1.0             | 4                          | 6                                       | 4P            | CRECH5           | 74             |
|                   | CRX0528BC      | 0.02               | 220          | 13.75      | 9.38  | 12.50  | 9.00          | 5.70          | 0.44 x 1.0             | 4                          | 6                                       | 4P            | CRECH5           | 74             |
|                   | CRX0528CC      | 0.03               | 355          | 13.75      | 9.63  | 14.50  | 9.00          | 6.17          | 0.44 x 1.0             | 4                          | 6                                       | 4X            | CRECH5           | 102            |
|                   | CRX0528DC      | 0.04               | 495          | 13.75      | 10.63 | 14.50  | 9.00          | 7.17          | 0.44 x 1.0             | 4                          | 6                                       | 4Y            | CRECH5           | 133            |
| 590               | CRX0590AC      | 0.04               | 495          | 13.75      | 10.63 | 14.50  | 9.00          | 7.17          | 0.44 x 1.0             | 4                          | 6                                       | 4Y            | CRECH5           | 133            |
|                   | CRX0590BC      | 0.06               | 680          | 13.75      | 13.38 | 14.50  | 9.00          | 9.92          | 0.44 x 1.0             | 4                          | 6                                       | 4AC           | CRECH6           | 220            |
| 720               | CRX0720AC      | 0.03               | 480          | 13.75      | 11.63 | 14.50  | 9.00          | 7.17          | 0.44 x 1.0             | 5                          | 6                                       | 5A            | CRECH6           | 145            |
| 840               | CRX0840AC      | 0.03               | 570          | 13.75      | 11.88 | 14.50  | 9.00          | 7.17          | 0.44 x 1.0             | 5                          | 6                                       | 5B            | CRECH6           | 150            |
| 960               | CRX0960AC      | 0.02               | 675          | 17.75      | 13.75 | 18.50  | 12.00         | 7.42          | 0.44 x 1.0             | 5                          | 7                                       | 5D            | CRECH6           | 270            |
| 1080              | CRX1080AC      | 0.02               | 675          | 17.75      | 13.75 | 18.50  | 12.00         | 7.42          | 0.44 x 1.0             | 5                          | 7                                       | 5D            | CRECH6           | 270            |
| 1200              | CRX1200AC      | 0.02               | 710          | 17.75      | 13.25 | 18.50  | 12.00         | 6.92          | 0.44 x 1.0             | 5                          | 7                                       | 5C            | CRECH6           | 250            |

All dimensions in inches



## Standard Three Phase Reactor Enclosed Specification Charts

| Current (Amps) | Part Number | Inductance (mH) | Watt Loss | Dimensions |       |        |            |            | Mtg Slot/<br>Hole Size | Enclosure Style | Termination Style Ref. #<br>(pg 123) | Weight (lb) |
|----------------|-------------|-----------------|-----------|------------|-------|--------|------------|------------|------------------------|-----------------|--------------------------------------|-------------|
|                |             |                 |           | Width      | Depth | Height | Mtg. Width | Mtg. Depth |                        |                 |                                      |             |
| 1              | CRX0001AE   | 27.20           | 21        | 10.00      | 10.00 | 8.13   | 7.00       | 6.00       | 0.188                  | N1              | 1                                    | 7.39        |
|                | CRX0001BE   | 47.09           | 12        | 10.00      | 10.00 | 8.13   | 7.00       | 6.00       | 0.188                  | N1              | 1                                    | 7.30        |
| 1.1            | CRX01D1AE   | 20.36           | 12        | 10.00      | 10.00 | 8.13   | 7.00       | 6.00       | 0.188                  | N1              | 1                                    | 7.23        |
|                | CRX01D1BE   | 33.94           | 15        | 10.00      | 10.00 | 8.13   | 7.00       | 6.00       | 0.188                  | N1              | 1                                    | 7.33        |
| 1.4            | CRX01D4AE   | 20.36           | 12        | 10.00      | 10.00 | 8.13   | 7.00       | 6.00       | 0.188                  | N1              | 1                                    | 7.23        |
|                | CRX01D4BE   | 33.94           | 15        | 10.00      | 10.00 | 8.13   | 7.00       | 6.00       | 0.188                  | N1              | 1                                    | 7.33        |
| 1.6            | CRX01D6AE   | 14.91           | 15        | 10.00      | 10.00 | 8.13   | 7.00       | 6.00       | 0.188                  | N1              | 1                                    | 7.26        |
|                | CRX01D6BE   | 23.55           | 12        | 10.00      | 10.00 | 8.13   | 7.00       | 6.00       | 0.188                  | N1              | 1                                    | 7.36        |
| 1.8            | CRX01D8AE   | 14.91           | 15        | 10.00      | 10.00 | 8.13   | 7.00       | 6.00       | 0.188                  | N1              | 1                                    | 7.26        |
|                | CRX01D8BE   | 27.20           | 21        | 10.00      | 10.00 | 8.13   | 7.00       | 6.00       | 0.188                  | N1              | 1                                    | 7.39        |
| 2              | CRX0002CE   | 20.00           | 15        | 10.00      | 10.00 | 8.13   | 7.00       | 6.00       | 0.188                  | N1              | 1                                    | 7.99        |
| 2.1            | CRX02D1AE   | 10.61           | 19        | 10.00      | 10.00 | 8.13   | 7.00       | 6.00       | 0.188                  | N1              | 1                                    | 7.39        |
|                | CRX02D1BE   | 17.83           | 21        | 10.00      | 10.00 | 8.13   | 7.00       | 6.00       | 0.188                  | N1              | 1                                    | 7.73        |
| 2.4            | CRX02D4AE   | 4.67            | 29        | 10.00      | 10.00 | 8.13   | 7.00       | 6.00       | 0.188                  | N1              | 1                                    | 7.74        |
|                | CRX02D4BE   | 4.08            | 9         | 10.00      | 10.00 | 8.13   | 7.00       | 6.00       | 0.188                  | N1              | 1                                    | 7.20        |
|                | CRX02D4CE   | 7.06            | 22        | 10.00      | 10.00 | 8.13   | 7.00       | 6.00       | 0.188                  | N1              | 1                                    | 7.53        |
|                | CRX02D4DE   | 7.06            | 22        | 10.00      | 10.00 | 8.13   | 7.00       | 6.00       | 0.188                  | N1              | 1                                    | 7.53        |
|                | CRX02D6AE   | 10.61           | 35        | 10.00      | 10.00 | 8.13   | 7.00       | 6.00       | 0.188                  | N1              | 1                                    | 7.56        |
| 2.6            | CRX02D6BE   | 17.83           | 21        | 10.00      | 10.00 | 8.13   | 7.00       | 6.00       | 0.188                  | N1              | 1                                    | 7.73        |
|                | CRX02D7AE   | 10.61           | 19        | 10.00      | 10.00 | 8.13   | 7.00       | 6.00       | 0.188                  | N1              | 1                                    | 7.39        |
| 2.7            | CRX02D7BE   | 17.83           | 21        | 10.00      | 10.00 | 8.13   | 7.00       | 6.00       | 0.188                  | N1              | 1                                    | 7.73        |
| 3              | CRX0003AE   | 7.06            | 22        | 10.00      | 10.00 | 8.13   | 7.00       | 6.00       | 0.188                  | N1              | 1                                    | 7.53        |
|                | CRX0003BE   | 10.61           | 35        | 10.00      | 10.00 | 8.13   | 7.00       | 6.00       | 0.188                  | N1              | 1                                    | 7.56        |
| 3.4            | CRX03D4AE   | 7.06            | 22        | 10.00      | 10.00 | 8.13   | 7.00       | 6.00       | 0.188                  | N1              | 1                                    | 7.53        |
|                | CRX03D4BE   | 10.61           | 35        | 10.00      | 10.00 | 8.13   | 7.00       | 6.00       | 0.188                  | N1              | 1                                    | 7.56        |
| 3.5            | CRX03D5AE   | 2.80            | 15        | 10.00      | 10.00 | 8.13   | 7.00       | 6.00       | 0.188                  | N1              | 1                                    | 7.21        |
|                | CRX03D5BE   | 3.55            | 18        | 10.00      | 10.00 | 8.13   | 7.00       | 6.00       | 0.188                  | N1              | 1                                    | 7.47        |
|                | CRX03D5CE   | 5.09            | 40        | 10.00      | 10.00 | 8.13   | 7.00       | 6.00       | 0.188                  | N1              | 2                                    | 15.99       |
|                | CRX03D5DE   | 4.67            | 29        | 10.00      | 10.00 | 8.13   | 7.00       | 6.00       | 0.188                  | N1              | 1                                    | 7.74        |
| 3.9            | CRX03D9AE   | 7.06            | 22        | 10.00      | 10.00 | 8.13   | 7.00       | 6.00       | 0.188                  | N1              | 1                                    | 7.53        |
|                | CRX03D9BE   | 10.61           | 35        | 10.00      | 10.00 | 8.13   | 7.00       | 6.00       | 0.188                  | N1              | 1                                    | 7.56        |
| 4              | CRX0004CE   | 9.10            | 26        | 10.00      | 10.00 | 8.13   | 7.00       | 6.00       | 0.188                  | N1              | 1                                    | 7.99        |
| 4.6            | CRX04D6AE   | 2.13            | 15        | 10.00      | 10.00 | 8.13   | 7.00       | 6.00       | 0.188                  | N1              | 1                                    | 7.25        |
|                | CRX04D6BE   | 2.13            | 15        | 10.00      | 10.00 | 8.13   | 7.00       | 6.00       | 0.188                  | N1              | 1                                    | 7.25        |
|                | CRX04D6CE   | 3.55            | 18        | 10.00      | 10.00 | 8.13   | 7.00       | 6.00       | 0.188                  | N1              | 1                                    | 7.47        |
|                | CRX04D6DE   | 4.67            | 29        | 10.00      | 10.00 | 8.13   | 7.00       | 6.00       | 0.188                  | N1              | 1                                    | 7.74        |
| 4.8            | CRX04D8AE   | 4.70            | 22        | 10.00      | 10.00 | 8.13   | 7.00       | 6.00       | 0.188                  | N1              | 1                                    | 7.56        |
|                | CRX04D8BE   | 7.78            | 35        | 10.00      | 10.00 | 8.13   | 7.00       | 6.00       | 0.188                  | N1              | 1                                    | 9.45        |
| 6.1            | CRX06D1AE   | 4.67            | 29        | 10.00      | 10.00 | 8.13   | 7.00       | 6.00       | 0.188                  | N1              | 1                                    | 7.74        |
|                | CRX06D1BE   | 7.78            | 35        | 10.00      | 10.00 | 8.13   | 7.00       | 6.00       | 0.188                  | N1              | 1                                    | 9.45        |
| 6.6            | CRX06D6AE   | 1.48            | 18        | 10.00      | 10.00 | 8.13   | 7.00       | 6.00       | 0.188                  | N1              | 1                                    | 7.35        |
|                | CRX06D6BE   | 1.48            | 18        | 10.00      | 10.00 | 8.13   | 7.00       | 6.00       | 0.188                  | N1              | 1                                    | 7.35        |
|                | CRX06D6CE   | 2.33            | 24        | 10.00      | 10.00 | 8.13   | 7.00       | 6.00       | 0.188                  | N1              | 1                                    | 7.65        |
|                | CRX06D6DE   | 3.06            | 31        | 10.00      | 10.00 | 8.13   | 7.00       | 6.00       | 0.188                  | N1              | 1                                    | 9.43        |
| 7.5            | CRX07D5AE   | 1.31            | 18        | 10.00      | 10.00 | 8.13   | 7.00       | 6.00       | 0.188                  | N1              | 1                                    | 7.44        |
|                | CRX07D5BE   | 1.53            | 25        | 10.00      | 10.00 | 8.13   | 7.00       | 6.00       | 0.188                  | N1              | 2                                    | 9.26        |
|                | CRX07D5CE   | 2.33            | 24        | 10.00      | 10.00 | 8.13   | 7.00       | 6.00       | 0.188                  | N1              | 1                                    | 7.65        |
|                | CRX07D5DE   | 2.33            | 24        | 10.00      | 10.00 | 8.13   | 7.00       | 6.00       | 0.188                  | N1              | 1                                    | 7.65        |
| 7.6            | CRX07D6AE   | 3.06            | 31        | 10.00      | 10.00 | 8.13   | 7.00       | 6.00       | 0.188                  | N1              | 1                                    | 9.43        |
|                | CRX07D6BE   | 5.09            | 40        | 10.00      | 10.00 | 8.13   | 7.00       | 6.00       | 0.188                  | N1              | 2                                    | 15.99       |

Note: Please refer to Pages 264 to 269 for enclosure dimensional specifications

All dimensions in inches



## Standard Three Phase Reactor Enclosed Specification Charts

| Current<br>(Amps) | Part<br>Number | Inductance<br>(mH) | Watt<br>Loss | Dimensions |       |        |               |               | Mtg Slot/<br>Hole Size | Enclosure<br>Style | Termination<br>Style Ref. #<br>(pg 123) | Weight<br>(lb) |
|-------------------|----------------|--------------------|--------------|------------|-------|--------|---------------|---------------|------------------------|--------------------|-----------------------------------------|----------------|
|                   |                |                    |              | Width      | Depth | Height | Mtg.<br>Width | Mtg.<br>Depth |                        |                    |                                         |                |
| 8                 | CRX0008CE      | 7.50               | 39           | 10.00      | 10.00 | 8.13   | 7.00          | 6.00          | 0.188                  | N1                 | 2                                       | 16.61          |
| 9                 | CRX0009AE      | 3.06               | 31           | 10.00      | 10.00 | 8.13   | 7.00          | 6.00          | 0.188                  | N1                 | 1                                       | 9.43           |
|                   | CRX0009BE      | 5.09               | 40           | 10.00      | 10.00 | 8.13   | 7.00          | 6.00          | 0.188                  | N1                 | 2                                       | 15.99          |
| 10.7              | CRX10D7AE      | 0.95               | 30           | 10.00      | 10.00 | 8.13   | 7.00          | 6.00          | 0.188                  | N1                 | 2                                       | 9.50           |
|                   | CRX10D7BE      | 0.95               | 30           | 10.00      | 10.00 | 8.13   | 7.00          | 6.00          | 0.188                  | N1                 | 2                                       | 9.50           |
|                   | CRX10D7CE      | 1.64               | 37           | 10.00      | 10.00 | 8.13   | 7.00          | 6.00          | 0.188                  | N1                 | 2                                       | 9.28           |
|                   | CRX10D7DE      | 1.53               | 25           | 10.00      | 10.00 | 8.13   | 7.00          | 6.00          | 0.188                  | N1                 | 2                                       | 9.26           |
| 11                | CRX0011AE      | 2.57               | 36           | 10.00      | 10.00 | 8.13   | 7.00          | 6.00          | 0.188                  | N1                 | 2                                       | 9.58           |
|                   | CRX0011BE      | 2.10               | 31           | 10.00      | 10.00 | 8.13   | 7.00          | 6.00          | 0.188                  | N1                 | 2                                       | 9.48           |
|                   | CRX0011CE      | 3.40               | 39           | 10.00      | 10.00 | 8.13   | 7.00          | 6.00          | 0.188                  | N1                 | 2                                       | 15.63          |
|                   | CRX0011DE      | 4.28               | 45           | 10.00      | 10.00 | 8.13   | 7.00          | 6.00          | 0.188                  | N1                 | 2                                       | 15.60          |
| 12                | CRX0012CE      | 4.20               | 52           | 10.00      | 10.00 | 8.13   | 7.00          | 6.00          | 0.188                  | N1                 | 2                                       | 16.80          |
| 14                | CRX0014AE      | 1.64               | 37           | 10.00      | 10.00 | 8.13   | 7.00          | 6.00          | 0.188                  | N1                 | 2                                       | 9.28           |
|                   | CRX0014BE      | 2.73               | 57           | 10.00      | 10.00 | 8.13   | 7.00          | 6.00          | 0.188                  | N1                 | 2                                       | 16.07          |
| 16.7              | CRX16D7AE      | 0.59               | 30           | 10.00      | 10.00 | 8.13   | 7.00          | 6.00          | 0.188                  | N1                 | 2                                       | 9.06           |
|                   | CRX16D7BE      | 0.59               | 30           | 10.00      | 10.00 | 8.13   | 7.00          | 6.00          | 0.188                  | N1                 | 2                                       | 9.06           |
|                   | CRX16D7CE      | 1.06               | 57           | 10.00      | 10.00 | 8.13   | 7.00          | 6.00          | 0.188                  | N1                 | 3                                       | 16.09          |
|                   | CRX16D7DE      | 0.95               | 30           | 10.00      | 10.00 | 8.13   | 7.00          | 6.00          | 0.188                  | N1                 | 2                                       | 9.50           |
| 17                | CRX0017AE      | 1.66               | 51           | 10.00      | 10.00 | 8.13   | 7.00          | 6.00          | 0.188                  | N1                 | 2                                       | 15.28          |
|                   | CRX0017BE      | 2.73               | 57           | 10.00      | 10.00 | 8.13   | 7.00          | 6.00          | 0.188                  | N1                 | 2                                       | 16.07          |
| 21                | CRX0021AE      | 1.06               | 57           | 10.00      | 10.00 | 8.13   | 7.00          | 6.00          | 0.188                  | N1                 | 3                                       | 16.09          |
|                   | CRX0021BE      | 1.80               | 57           | 10.00      | 10.00 | 8.13   | 7.00          | 6.00          | 0.188                  | N1                 | 2                                       | 16.17          |
| 22                | CRX0022AE      | 1.28               | 51           | 10.00      | 10.00 | 8.13   | 7.00          | 6.00          | 0.188                  | N1                 | 2                                       | 15.62          |
|                   | CRX0022BE      | 2.14               | 77           | 10.00      | 10.00 | 8.13   | 7.00          | 6.00          | 0.188                  | N1                 | 2                                       | 16.88          |
| 24                | CRX0024AE      | 0.41               | 35           | 10.00      | 10.00 | 8.13   | 7.00          | 6.00          | 0.188                  | N1                 | 2                                       | 9.35           |
|                   | CRX0024BE      | 0.55               | 68           | 10.00      | 10.00 | 8.13   | 7.00          | 6.00          | 0.188                  | N1                 | 3                                       | 16.79          |
|                   | CRX0024CE      | 0.68               | 47           | 10.00      | 10.00 | 8.13   | 7.00          | 6.00          | 0.188                  | N1                 | 2                                       | 15.35          |
|                   | CRX0024DE      | 0.86               | 60           | 10.00      | 10.00 | 8.13   | 7.00          | 6.00          | 0.188                  | N1                 | 2                                       | 15.47          |
| 27                | CRX0027AE      | 1.06               | 57           | 10.00      | 10.00 | 8.13   | 7.00          | 6.00          | 0.188                  | N1                 | 3                                       | 16.09          |
|                   | CRX0027BE      | 0.86               | 60           | 10.00      | 10.00 | 8.13   | 7.00          | 6.00          | 0.188                  | N1                 | 2                                       | 15.47          |
|                   | CRX0027CE      | 1.40               | 57           | 10.00      | 10.00 | 8.13   | 7.00          | 6.00          | 0.188                  | N1                 | 3                                       | 17.14          |
|                   | CRX0027DE      | 1.77               | 93           | 14.00      | 14.00 | 12.13  | 10.00         | 10.50         | 0.188                  | N2                 | 3                                       | 21.50          |
| 31                | CRX0031AE      | 0.32               | 31           | 10.00      | 10.00 | 8.13   | 7.00          | 6.00          | 0.188                  | N1                 | 3                                       | 15.35          |
|                   | CRX0031BE      | 0.32               | 31           | 10.00      | 10.00 | 8.13   | 7.00          | 6.00          | 0.188                  | N1                 | 3                                       | 15.35          |
|                   | CRX0031CE      | 0.55               | 68           | 10.00      | 10.00 | 8.13   | 7.00          | 6.00          | 0.188                  | N1                 | 3                                       | 16.79          |
|                   | CRX0031DE      | 0.68               | 80           | 10.00      | 10.00 | 8.13   | 7.00          | 6.00          | 0.188                  | N1                 | 3                                       | 17.15          |
| 32                | CRX0032AE      | 0.88               | 68           | 10.00      | 10.00 | 8.13   | 7.00          | 6.00          | 0.188                  | N1                 | 3                                       | 16.85          |
|                   | CRX0032BE      | 1.43               | 80           | 14.00      | 14.00 | 12.13  | 10.00         | 10.50         | 0.188                  | N2                 | 3                                       | 22.10          |
| 34                | CRX0034AE      | 0.68               | 80           | 10.00      | 10.00 | 8.13   | 7.00          | 6.00          | 0.188                  | N1                 | 3                                       | 17.15          |
|                   | CRX0034BE      | 1.13               | 115          | 14.00      | 14.00 | 12.13  | 10.00         | 10.50         | 0.188                  | N2                 | 3                                       | 22.00          |
| 35                | CRX0035CE      | 1.70               | 93           | 14.00      | 14.00 | 12.13  | 10.00         | 10.50         | 0.188                  | N2                 | 3                                       | 34.00          |
| 40                | CRX0040AE      | 0.55               | 68           | 10.00      | 10.00 | 8.13   | 7.00          | 6.00          | 0.188                  | N1                 | 3                                       | 16.79          |
|                   | CRX0040BE      | 0.94               | 105          | 14.00      | 14.00 | 12.13  | 10.00         | 10.50         | 0.188                  | N2                 | 3                                       | 22.20          |
| 41                | CRX0041AE      | 0.68               | 80           | 10.00      | 10.00 | 8.13   | 7.00          | 6.00          | 0.188                  | N1                 | 3                                       | 17.15          |
|                   | CRX0041BE      | 1.13               | 115          | 14.00      | 14.00 | 12.13  | 10.00         | 10.50         | 0.188                  | N2                 | 3                                       | 22.00          |
| 45                | CRX0045CE      | 1.20               | 140          | 14.00      | 14.00 | 12.13  | 10.00         | 10.50         | 0.188                  | N2                 | 3                                       | 34.00          |
| 46                | CRX0046AE      | 0.21               | 40           | 10.00      | 10.00 | 8.13   | 7.00          | 6.00          | 0.188                  | N1                 | 3                                       | 15.87          |
|                   | CRX0046BE      | 0.21               | 40           | 10.00      | 10.00 | 8.13   | 7.00          | 6.00          | 0.188                  | N1                 | 3                                       | 15.87          |
|                   | CRX0046CE      | 0.36               | 60           | 10.00      | 10.00 | 8.13   | 7.00          | 6.00          | 0.188                  | N1                 | 3                                       | 16.50          |
|                   | CRX0046DE      | 0.45               | 130          | 14.00      | 14.00 | 12.13  | 10.00         | 10.50         | 0.188                  | N2                 | 3                                       | 29.00          |

Note: Please refer to Pages 264 to 269 for enclosure dimensional specifications

All dimensions in inches



## Standard Three Phase Reactor Enclosed Specification Charts

| Current (Amps) | Part Number | Inductance (mH) | Watt Loss | Dimensions |       |        |            |            | Mtg Slot/<br>Hole Size | Enclosure Style | Termination Style Ref. #<br>(pg 123) | Weight (lb) |
|----------------|-------------|-----------------|-----------|------------|-------|--------|------------|------------|------------------------|-----------------|--------------------------------------|-------------|
|                |             |                 |           | Width      | Depth | Height | Mtg. Width | Mtg. Depth |                        |                 |                                      |             |
| 52             | CRX0052AE   | 0.50            | 70        | 14.00      | 14.00 | 12.13  | 10.00      | 10.50      | 0.188                  | N2              | 3                                    | 25.00       |
|                | CRX0052BE   | 0.43            | 85        | 14.00      | 14.00 | 12.13  | 10.00      | 10.50      | 0.188                  | N2              | 3                                    | 27.00       |
|                | CRX0052CE   | 0.91            | 130       | 14.00      | 14.00 | 12.13  | 10.00      | 10.50      | 0.188                  | N2              | 3                                    | 35.00       |
|                | CRX0052DE   | 0.74            | 170       | 14.00      | 14.00 | 12.13  | 10.00      | 10.50      | 0.188                  | N2              | 3                                    | 35.00       |
| 59             | CRX0059AE   | 0.17            | 55        | 10.00      | 10.00 | 8.13   | 7.00       | 6.00       | 0.188                  | N1              | 3                                    | 16.03       |
|                | CRX0059BE   | 0.22            | 85        | 14.00      | 14.00 | 12.13  | 10.00      | 10.50      | 0.188                  | N2              | 4                                    | 28.00       |
|                | CRX0059CE   | 0.30            | 75        | 14.00      | 14.00 | 12.13  | 10.00      | 10.50      | 0.188                  | N2              | 3                                    | 26.00       |
|                | CRX0059DE   | 0.36            | 110       | 14.00      | 14.00 | 12.13  | 10.00      | 10.50      | 0.188                  | N2              | 4                                    | 35.00       |
| 62             | CRX0062AE   | 0.45            | 130       | 14.00      | 14.00 | 12.13  | 10.00      | 10.50      | 0.188                  | N2              | 3                                    | 29.00       |
|                | CRX0062BE   | 0.74            | 170       | 14.00      | 14.00 | 12.13  | 10.00      | 10.50      | 0.188                  | N2              | 3                                    | 35.00       |
| 65             | CRX0065AE   | 0.34            | 110       | 14.00      | 14.00 | 12.13  | 10.00      | 10.50      | 0.188                  | N2              | 4                                    | 35.00       |
|                | CRX0065BE   | 0.57            | 120       | 14.00      | 14.00 | 12.13  | 10.00      | 10.50      | 0.188                  | N2              | 4                                    | 35.00       |
| 75             | CRX0075AE   | 0.12            | 70        | 14.00      | 14.00 | 12.13  | 10.00      | 10.50      | 0.188                  | N2              | 4                                    | 27.00       |
|                | CRX0075BE   | 0.19            | 95        | 14.00      | 14.00 | 12.13  | 10.00      | 10.50      | 0.188                  | N2              | 4                                    | 28.00       |
|                | CRX0075CE   | 0.22            | 85        | 14.00      | 14.00 | 12.13  | 10.00      | 10.50      | 0.188                  | N2              | 4                                    | 28.00       |
|                | CRX0075DE   | 0.29            | 105       | 14.00      | 14.00 | 12.13  | 10.00      | 10.50      | 0.188                  | N2              | 4                                    | 31.00       |
| 77             | CRX0077AE   | 0.29            | 105       | 14.00      | 14.00 | 12.13  | 10.00      | 10.50      | 0.188                  | N2              | 4                                    | 31.00       |
|                | CRX0077BE   | 0.36            | 110       | 14.00      | 14.00 | 12.13  | 10.00      | 10.50      | 0.188                  | N2              | 4                                    | 35.00       |
|                | CRX0077CE   | 0.60            | 216       | 14.00      | 14.00 | 12.13  | 10.00      | 10.50      | 0.188                  | N2              | 4                                    | 40.00       |
|                | CRX0077DE   | 0.49            | 160       | 14.00      | 14.00 | 12.13  | 10.00      | 10.50      | 0.188                  | N2              | 4                                    | 34.00       |
| 88             | CRX0088AE   | 0.12            | 70        | 14.00      | 14.00 | 12.13  | 10.00      | 10.50      | 0.188                  | N2              | 4                                    | 27.00       |
|                | CRX0088BE   | 0.12            | 70        | 14.00      | 14.00 | 12.13  | 10.00      | 10.50      | 0.188                  | N2              | 4                                    | 27.00       |
|                | CRX0088CE   | 0.19            | 95        | 14.00      | 14.00 | 12.13  | 10.00      | 10.50      | 0.188                  | N2              | 4                                    | 28.00       |
|                | CRX0088DE   | 0.24            | 120       | 14.00      | 14.00 | 12.13  | 10.00      | 10.50      | 0.188                  | N2              | 4                                    | 34.00       |
| 96             | CRX0096AE   | 0.24            | 120       | 14.00      | 14.00 | 12.13  | 10.00      | 10.50      | 0.188                  | N2              | 4                                    | 34.00       |
|                | CRX0096BE   | 0.39            | 170       | 14.00      | 14.00 | 12.13  | 10.00      | 10.50      | 0.188                  | N2              | 4                                    | 59.00       |
| 99             | CRX0099AE   | 0.28            | 125       | 14.00      | 14.00 | 12.13  | 10.00      | 10.50      | 0.188                  | N2              | 4                                    | 36.00       |
|                | CRX0099BE   | 0.48            | 210       | 14.00      | 14.00 | 12.13  | 10.00      | 10.50      | 0.188                  | N2              | 4                                    | 58.00       |
| 114            | CRX0114AE   | 0.09            | 70        | 14.00      | 14.00 | 12.13  | 10.00      | 10.50      | 0.188                  | N2              | 5                                    | 28.00       |
|                | CRX0114BE   | 0.11            | 140       | 14.00      | 14.00 | 12.13  | 10.00      | 10.50      | 0.188                  | N2              | 5                                    | 38.00       |
|                | CRX0114CE   | 0.14            | 110       | 14.00      | 14.00 | 12.13  | 10.00      | 10.50      | 0.188                  | N2              | 5                                    | 43.00       |
|                | CRX0114DE   | 0.19            | 190       | 23.50      | 16.50 | 17.90  | 22.40      | 6.50       | 0.56                   | CH2             | 5                                    | 83.00       |
| 124            | CRX0124AE   | 0.19            | 190       | 23.50      | 16.50 | 17.90  | 22.40      | 6.50       | 0.56                   | CH2             | 5                                    | 83.00       |
|                | CRX0124BE   | 0.30            | 185       | 14.00      | 14.00 | 12.13  | 10.00      | 10.50      | 0.188                  | N2              | 5                                    | 58.00       |
| 125            | CRX0125AE   | 0.23            | 160       | 14.00      | 14.00 | 12.13  | 10.00      | 10.50      | 0.188                  | N2              | 5                                    | 51.00       |
|                | CRX0125BE   | 0.38            | 250       | 23.50      | 16.50 | 17.90  | 22.40      | 6.50       | 0.56                   | CH2             | 5                                    | 98.00       |
| 143            | CRX0143AE   | 0.07            | 88        | 14.00      | 14.00 | 12.13  | 10.00      | 10.50      | 0.188                  | N2              | 5                                    | 30.00       |
|                | CRX0143BE   | 0.10            | 130       | 14.00      | 14.00 | 12.13  | 10.00      | 10.50      | 0.188                  | N2              | 5                                    | 44.00       |
|                | CRX0143CE   | 0.11            | 140       | 14.00      | 14.00 | 12.13  | 10.00      | 10.50      | 0.188                  | N2              | 5                                    | 38.00       |
|                | CRX0143DE   | 0.11            | 140       | 14.00      | 14.00 | 12.13  | 10.00      | 10.50      | 0.188                  | N2              | 5                                    | 38.00       |
| 144            | CRX0144AE   | 0.19            | 190       | 23.50      | 16.50 | 17.90  | 22.40      | 6.50       | 0.56                   | CH2             | 5                                    | 83.00       |
|                | CRX0144BE   | 0.35            | 240       | 26.10      | 20.50 | 25.90  | 25.00      | 6.50       | 0.56                   | CH4             | 5                                    | 114.00      |
| 156            | CRX0156AE   | 0.15            | 210       | 14.00      | 14.00 | 12.13  | 10.00      | 10.50      | 0.188                  | N2              | 5                                    | 42.00       |
|                | CRX0156BE   | 0.24            | 260       | 23.50      | 16.50 | 17.90  | 22.40      | 6.50       | 0.56                   | CH2             | 5                                    | 63.00       |
| 170            | CRX0170AE   | 0.06            | 100       | 14.00      | 14.00 | 12.13  | 10.00      | 10.50      | 0.188                  | N2              | 5                                    | 33.00       |
|                | CRX0170BE   | 0.06            | 100       | 14.00      | 14.00 | 12.13  | 10.00      | 10.50      | 0.188                  | N2              | 5                                    | 33.00       |
|                | CRX0170CE   | 0.10            | 130       | 14.00      | 14.00 | 12.13  | 10.00      | 10.50      | 0.188                  | N2              | 5                                    | 44.00       |
|                | CRX0170DE   | 0.10            | 130       | 14.00      | 14.00 | 12.13  | 10.00      | 10.50      | 0.188                  | N2              | 5                                    | 44.00       |
| 180            | CRX0180AE   | 0.13            | 180       | 23.50      | 16.50 | 17.90  | 22.40      | 6.50       | 0.56                   | CH2             | 5                                    | 85.00       |
|                | CRX0180BE   | 0.21            | 250       | 23.50      | 16.50 | 17.90  | 22.40      | 6.50       | 0.56                   | CH2             | 5                                    | 94.00       |
| 192            | CRX0192AE   | 0.15            | 200       | 23.50      | 16.50 | 17.90  | 22.40      | 6.50       | 0.56                   | CH2             | 5                                    | 84.00       |
|                | CRX0192BE   | 0.25            | 325       | 23.50      | 16.50 | 17.90  | 22.40      | 6.50       | 0.56                   | CH2             | 5                                    | 121.00      |

Note: Please refer to Pages 264 to 269 for enclosure dimensional specifications

All dimensions in inches



## Standard Three Phase Reactor Enclosed Specification Charts

| Current<br>(Amps) | Part<br>Number | Inductance<br>(mH) | Watt<br>Loss | Dimensions |       |        |               |               | Mtg Slot/<br>Hole Size | Enclosure<br>Style | Termination<br>Style Ref. #<br>(pg 123) | Weight<br>(lb) |
|-------------------|----------------|--------------------|--------------|------------|-------|--------|---------------|---------------|------------------------|--------------------|-----------------------------------------|----------------|
|                   |                |                    |              | Width      | Depth | Height | Mtg.<br>Width | Mtg.<br>Depth |                        |                    |                                         |                |
| 200               | CRX0200CE      | 0.11               | 195          | 23.50      | 16.50 | 17.90  | 22.40         | 6.50          | 0.56                   | CH2                | 5                                       | 75.00          |
| 211               | CRX0211AE      | 0.05               | 125          | 14.00      | 14.00 | 12.13  | 10.00         | 10.50         | 0.188                  | N2                 | 5                                       | 34.00          |
|                   | CRX0211BE      | 0.05               | 125          | 14.00      | 14.00 | 12.13  | 10.00         | 10.50         | 0.188                  | N2                 | 5                                       | 34.00          |
|                   | CRX0211CE      | 0.08               | 180          | 23.50      | 16.50 | 17.90  | 22.40         | 6.50          | 0.56                   | CH2                | 5                                       | 70.00          |
|                   | CRX0211DE      | 0.10               | 225          | 23.50      | 16.50 | 17.90  | 22.40         | 6.50          | 0.56                   | CH2                | 5                                       | 89.00          |
| 240               | CRX0240AE      | 0.10               | 225          | 23.50      | 16.50 | 17.90  | 22.40         | 6.50          | 0.56                   | CH2                | 5                                       | 89.00          |
|                   | CRX0240BE      | 0.16               | 435          | 26.10      | 20.50 | 25.90  | 25.00         | 6.50          | 0.56                   | CH4                | 5                                       | 195.00         |
| 242               | CRX0242AE      | 0.12               | 275          | 23.50      | 16.50 | 17.90  | 22.40         | 6.50          | 0.56                   | CH2                | 5                                       | 90.00          |
|                   | CRX0242BE      | 0.20               | 360          | 26.10      | 20.50 | 25.90  | 25.00         | 6.50          | 0.56                   | CH4                | 5                                       | 127.00         |
| 273               | CRX0273AE      | 0.04               | 130          | 23.50      | 16.50 | 17.90  | 22.40         | 6.50          | 0.56                   | CH2                | 5                                       | 74.00          |
|                   | CRX0273BE      | 0.04               | 130          | 23.50      | 16.50 | 17.90  | 22.40         | 6.50          | 0.56                   | CH2                | 5                                       | 74.00          |
|                   | CRX0273CE      | 0.06               | 200          | 26.10      | 20.50 | 25.90  | 25.00         | 6.50          | 0.56                   | CH4                | 5                                       | 107.00         |
|                   | CRX0273DE      | 0.08               | 310          | 26.10      | 20.50 | 25.90  | 25.00         | 6.50          | 0.56                   | CH4                | 5                                       | 124.00         |
| 289               | CRX0289AE      | 0.10               | 290          | 26.10      | 20.50 | 25.90  | 25.00         | 6.50          | 0.56                   | CH4                | 5                                       | 115.00         |
|                   | CRX0289BE      | 0.16               | 435          | 26.10      | 20.50 | 25.90  | 25.00         | 6.50          | 0.56                   | CH4                | 5                                       | 195.00         |
| 302               | CRX0302AE      | 0.08               | 310          | 26.10      | 20.50 | 25.90  | 25.00         | 6.50          | 0.56                   | CH4                | 5                                       | 124.00         |
|                   | CRX0302BE      | 0.13               | 475          | 26.10      | 20.50 | 25.90  | 25.00         | 6.50          | 0.56                   | CH4                | 5                                       | 211.00         |
| 336               | CRX0336AE      | 0.08               | 360          | 26.10      | 20.50 | 25.90  | 25.00         | 6.50          | 0.56                   | CH4                | 5                                       | 150.00         |
|                   | CRX0336BE      | 0.13               | 475          | 26.10      | 20.50 | 25.90  | 25.00         | 6.50          | 0.56                   | CH4                | 5                                       | 211.00         |
| 343               | CRX0343AE      | 0.03               | 200          | 26.10      | 20.50 | 25.90  | 25.00         | 6.50          | 0.56                   | CH4                | 5                                       | 97.00          |
|                   | CRX0343BE      | 0.03               | 200          | 26.10      | 20.50 | 25.90  | 25.00         | 6.50          | 0.56                   | CH4                | 5                                       | 97.00          |
|                   | CRX0343CE      | 0.05               | 230          | 26.10      | 20.50 | 25.90  | 25.00         | 6.50          | 0.56                   | CH4                | 5                                       | 106.00         |
|                   | CRX0343DE      | 0.06               | 325          | 26.10      | 20.50 | 25.90  | 25.00         | 6.50          | 0.56                   | CH4                | 5                                       | 135.00         |
| 361               | CRX0361AE      | 0.06               | 325          | 26.10      | 20.50 | 25.90  | 25.00         | 6.50          | 0.56                   | CH4                | 5                                       | 135.00         |
|                   | CRX0361BE      | 0.10               | 445          | 28.10      | 21.30 | 28.90  | 27.00         | 6.50          | 0.56                   | CH5                | 5                                       | 203.00         |
| 382               | CRX0382AE      | 0.07               | 435          | 28.10      | 21.30 | 28.90  | 27.00         | 6.50          | 0.56                   | CH5                | 5                                       | 172.00         |
|                   | CRX0382BE      | 0.12               | 580          | 28.10      | 21.30 | 28.90  | 27.00         | 6.50          | 0.56                   | CH5                | 5                                       | 236.00         |
| 396               | CRX0396AE      | 0.03               | 200          | 26.10      | 20.50 | 25.90  | 25.00         | 6.50          | 0.56                   | CH4                | 5                                       | 97.00          |
|                   | CRX0396BE      | 0.03               | 200          | 26.10      | 20.50 | 25.90  | 25.00         | 6.50          | 0.56                   | CH4                | 5                                       | 97.00          |
|                   | CRX0396CE      | 0.04               | 300          | 26.10      | 20.50 | 25.90  | 25.00         | 6.50          | 0.56                   | CH4                | 5                                       | 132.00         |
|                   | CRX0396DE      | 0.04               | 300          | 26.10      | 20.50 | 25.90  | 25.00         | 6.50          | 0.56                   | CH4                | 5                                       | 132.00         |
| 412               | CRX0412AE      | 0.07               | 435          | 28.10      | 21.30 | 28.90  | 27.00         | 6.50          | 0.56                   | CH5                | 5                                       | 172.00         |
|                   | CRX0412BE      | 0.11               | 550          | 28.10      | 21.30 | 28.90  | 27.00         | 6.50          | 0.56                   | CH5                | 5                                       | 202.00         |
| 414               | CRX0414AE      | 0.06               | 400          | 28.10      | 21.30 | 28.90  | 27.00         | 6.50          | 0.56                   | CH5                | 5                                       | 181.00         |
|                   | CRX0414BE      | 0.08               | 505          | 28.10      | 21.30 | 28.90  | 27.00         | 6.50          | 0.56                   | CH5                | 5                                       | 199.00         |
| 472               | CRX0472AE      | 0.06               | 400          | 28.10      | 21.30 | 28.90  | 27.00         | 6.50          | 0.56                   | CH5                | 5                                       | 181.00         |
|                   | CRX0472BE      | 0.10               | 560          | 28.10      | 21.30 | 28.90  | 27.00         | 6.50          | 0.56                   | CH5                | 5                                       | 227.00         |
| 477               | CRX0477AE      | 0.05               | 420          | 33.50      | 23.00 | 31.20  | 32.50         | 9.00          | 0.56                   | CH6                | 6                                       | 231.00         |
|                   | CRX0477BE      | 0.08               | 600          | 33.50      | 23.00 | 31.20  | 32.50         | 9.00          | 0.56                   | CH6                | 6                                       | 306.00         |
| 515               | CRX0515AE      | 0.05               | 420          | 33.50      | 23.00 | 31.20  | 32.50         | 9.00          | 0.56                   | CH6                | 6                                       | 231.00         |
|                   | CRX0515BE      | 0.08               | 600          | 33.50      | 23.00 | 31.20  | 32.50         | 9.00          | 0.56                   | CH6                | 6                                       | 306.00         |
| 528               | CRX0528AE      | 0.02               | 220          | 28.10      | 21.30 | 28.90  | 27.00         | 6.50          | 0.56                   | CH5                | 6                                       | 130.00         |
|                   | CRX0528BE      | 0.02               | 220          | 28.10      | 21.30 | 28.90  | 27.00         | 6.50          | 0.56                   | CH5                | 6                                       | 130.00         |
|                   | CRX0528CE      | 0.03               | 355          | 28.10      | 21.30 | 28.90  | 27.00         | 6.50          | 0.56                   | CH5                | 6                                       | 158.00         |
|                   | CRX0528DE      | 0.04               | 495          | 28.10      | 21.30 | 28.90  | 27.00         | 6.50          | 0.56                   | CH5                | 6                                       | 189.00         |
| 590               | CRX0590AE      | 0.04               | 495          | 28.10      | 21.30 | 28.90  | 27.00         | 6.50          | 0.56                   | CH5                | 6                                       | 189.00         |
|                   | CRX0590BE      | 0.06               | 680          | 33.50      | 23.00 | 31.20  | 32.50         | 9.00          | 0.56                   | CH6                | 6                                       | 306.00         |
| 720               | CRX0720AE      | 0.03               | 480          | 33.50      | 23.00 | 31.20  | 32.50         | 9.00          | 0.56                   | CH6                | 6                                       | 231.00         |
| 840               | CRX0840AE      | 0.03               | 570          | 33.50      | 23.00 | 31.20  | 32.50         | 9.00          | 0.56                   | CH6                | 6                                       | 236.00         |
| 960               | CRX0960AE      | 0.02               | 675          | 33.50      | 23.00 | 31.20  | 32.50         | 9.00          | 0.56                   | CH6                | 7                                       | 356.00         |
| 1080              | CRX1080AE      | 0.02               | 675          | 33.50      | 23.00 | 31.20  | 32.50         | 9.00          | 0.56                   | CH6                | 7                                       | 356.00         |
| 1200              | CRX1200AE      | 0.02               | 710          | 33.50      | 23.00 | 31.20  | 32.50         | 9.00          | 0.56                   | CH6                | 7                                       | 336.00         |

Note: Please refer to Pages 264 to 269 for enclosure dimensional specifications

All dimensions in inches

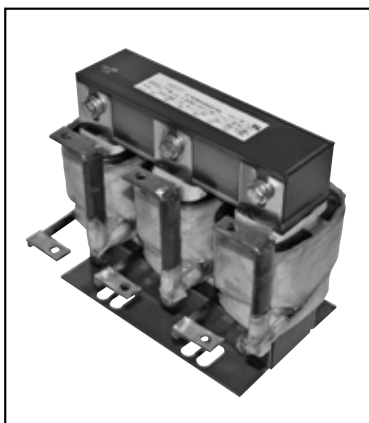




# RM Series

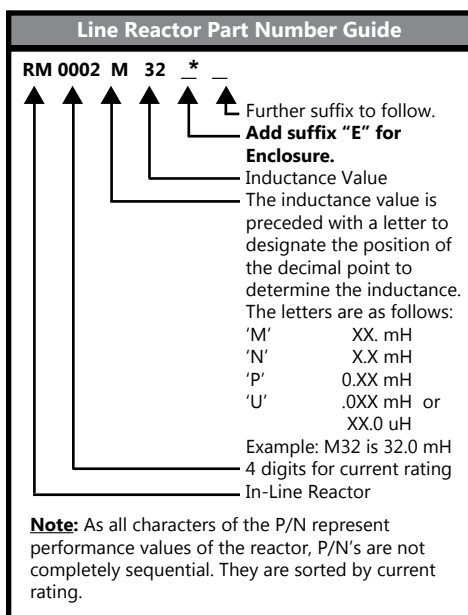
## REACTORS

### SINGLE AND THREE PHASE STANDARD SPECIFICATIONS



|                          | Core and Coil                                                                                                                                     | Enclosed                                                                                                                                          |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>System Voltage</b>    | 1.2kV Class                                                                                                                                       | 1.2kV Class                                                                                                                                       |
| <b>UL Listed</b>         | File: E61431                                                                                                                                      | File: E61431                                                                                                                                      |
| <b>CSA Certified</b>     | File: LR3902                                                                                                                                      | File: LR3902                                                                                                                                      |
| <b>Ratings</b>           | Nominal Inductance +/- 10% @ rated current<br>95% of nominal inductance @ 150% rated current<br>50% of nominal inductance @ 350% of rated current | Nominal Inductance +/- 10% @ rated current<br>95% of nominal inductance @ 150% rated current<br>50% of nominal inductance @ 350% of rated current |
| <b>Frequency</b>         | 60 Hz                                                                                                                                             | 60 Hz                                                                                                                                             |
| <b>Insulation System</b> | 200°C temperature class up to 160 amps<br>220°C temperature class over 160 amps                                                                   | 80°C for 130 °C Temperature Insulation Class                                                                                                      |
| <b>Enclosure Type</b>    | N/A                                                                                                                                               | Type 1<br>(optional Type 3R available)                                                                                                            |
| <b>Enclosure Finish</b>  | N/A                                                                                                                                               | ANSI 61 Grey, UL50                                                                                                                                |
| <b>Termination</b>       | Terminal blocks are provided on select model ranges, and terminal pads are supplied on higher current ratings.                                    | Terminal blocks are provided on select model ranges, and terminal pads are supplied on higher current ratings.                                    |
| <b>Impedance</b>         | Typically 3% and 5%                                                                                                                               | Typically 3% and 5%                                                                                                                               |
| <b>Mounting</b>          | Floor mounting available on all units. Wall and ceiling mounting available on units up to 200 lbs.                                                | Floor mounting available on all units. Wall and ceiling mounting available on enclosure style N1, N2, NH5 and NH6.                                |
| <b>Sound Level</b>       | Meets NEMA ST-20 standards                                                                                                                        | Meets NEMA ST-20 standards                                                                                                                        |

# RM Series Line Reactor Selection Tables



\* Add the Suffix "E" to the standard part number for an Enclosed unit.

| HP Rating | 240 Volt - 60 Hz |      |              |      |
|-----------|------------------|------|--------------|------|
|           | 3% Impedance     |      | 5% Impedance |      |
|           | P/N              | Amps | P/N          | Amps |
| 0.5       | RM0004N65        | 4    | RM0004M12    | 4    |
| 1         | RM0004N30        | 4    | RM0004N65    | 4    |
| 1.5       | RM0008N30        | 8    | RM0008N50    | 8    |
| 2         | RM0008N15        | 8    | RM0008N30    | 8    |
| 3         | RM0012N13        | 12   | RM0012N25    | 12   |
| 5         | RM0018P80        | 18   | RM0018N15    | 18   |
| 7.5       | RM0025P50        | 25   | RM0025N12    | 25   |
| 10        | RM0035P40        | 35   | RM0035P80    | 35   |
| 15        | RM0045P30        | 45   | RM0055P50    | 55   |
| 20        | RM0055P25        | 55   | RM0055P50    | 55   |
| 25        | RM0080P20        | 80   | RM0080P40    | 80   |
| 30        | RM0080P20        | 80   | RM0080P23    | 80   |
| 40        | RM0130P10        | 130  | RM0110P18    | 110  |
| 50        | RM0130P10        | 130  | RM0130P20    | 130  |
| 60        | RM0160U75        | 160  | RM0160P15    | 160  |
| 75        | RM0200U55        | 200  | RM0200P11    | 200  |
| 100       | RM0250U45        | 250  | RM0250U90    | 250  |
| 125       | RM0320U40        | 320  | RM0320U75    | 320  |
| 150       | RM0400U30        | 400  | RM0400U61    | 400  |
| 200       | RM0500U25        | 500  | RM0500U50    | 500  |
| 250       | RM0600U20        | 600  | RM0600U40    | 600  |
| 300       | RM0750U15        | 750  | RM0750U25    | 750  |
| 350       | RM0900U13        | 900  | RM0900U26    | 900  |
| 400       | RM1000U11        | 1000 | RM1000U18    | 1000 |
| 500       | RM1200U10        | 1200 | RM1200U15    | 1200 |

| HP Rating | 480 Volt - 60 Hz |      |              |      |
|-----------|------------------|------|--------------|------|
|           | 3% Impedance     |      | 5% Impedance |      |
|           | P/N              | Amps | P/N          | Amps |
| 1         | RM0002M12        | 2    | RM0002M20    | 2    |
| 1.5       | RM0004N91        | 4    | RM0004M12    | 4    |
| 2         | RM0004N65        | 4    | RM0004M12    | 4    |
| 3         | RM0008N50        | 8    | RM0008N75    | 8    |
| 5         | RM0008N30        | 8    | RM0008N50    | 8    |
| 7.5       | RM0012N25        | 12   | RM0012N42    | 12   |
| 10        | RM0018N15        | 18   | RM0018N25    | 18   |
| 15        | RM0025N12        | 25   | RM0025N20    | 25   |
| 20        | RM0035P80        | 35   | RM0035N17    | 35   |
| 25        | RM0035P80        | 35   | RM0035N12    | 35   |
| 30        | RM0045P70        | 45   | RM0045N12    | 45   |
| 40        | RM0055P50        | 55   | RM0055P85    | 55   |
| 50        | RM0080P40        | 80   | RM0080P70    | 80   |
| 60        | RM0080P40        | 80   | RM0080P70    | 80   |
| 75        | RM0110P30        | 110  | RM0110P45    | 110  |
| 100       | RM0130P20        | 130  | RM0130P30    | 130  |
| 125       | RM0160P15        | 160  | RM0160P23    | 160  |
| 150       | RM0200P11        | 200  | RM0200P24    | 200  |
| 200       | RM0250U90        | 250  | RM0250P15    | 250  |
| 250       | RM0320U75        | 320  | RM0320P13    | 320  |
| 300       | RM0400U61        | 400  | RM0400P11    | 400  |
| 350       | RM0500U50        | 500  | RM0500U85    | 500  |
| 400       | RM0500U50        | 500  | RM0500U85    | 500  |
| 500       | RM0600U40        | 600  | RM0600U65    | 600  |
| 600       | RM0750U36        | 750  | RM0750U60    | 750  |
| 700       | RM0900U26        | 900  | RM0900U43    | 900  |
| 800       | RM1000U29        | 1000 | RM1000U38    | 1000 |
| 1000      | RM1200U18        | 1200 | RM1200U30    | 1200 |

| HP Rating | 600 Volt - 60 Hz |      |              |      |
|-----------|------------------|------|--------------|------|
|           | 3% Impedance     |      | 5% Impedance |      |
|           | P/N              | Amps | P/N          | Amps |
| 1         | RM0002M20        | 2    | RM0002M32    | 2    |
| 1.5       | RM0002M12        | 2    | RM0002M20    | 2    |
| 2         | RM0004M12        | 4    | RM0004M22    | 4    |
| 3         | RM0004N91        | 4    | RM0004M12    | 4    |
| 5         | RM0008N50        | 8    | RM0008N75    | 8    |
| 7.5       | RM0012N31        | 12   | RM0012N51    | 12   |
| 10        | RM0012N25        | 12   | RM0012N42    | 12   |
| 15        | RM0018N15        | 18   | RM0018N25    | 18   |
| 20        | RM0025N12        | 25   | RM0025N20    | 25   |
| 25        | RM0035N12        | 35   | RM0035N17    | 35   |
| 30        | RM0035P80        | 35   | RM0035N17    | 35   |
| 40        | RM0045P70        | 45   | RM0045N12    | 45   |
| 50        | RM0055P50        | 55   | RM0055P85    | 55   |
| 60        | RM0080P40        | 80   | RM0080P70    | 80   |
| 75        | RM0080P40        | 80   | RM0080P70    | 80   |
| 100       | RM0110P30        | 110  | RM0110P45    | 110  |
| 125       | RM0130P20        | 130  | RM0130P37    | 130  |
| 150       | RM0160P23        | 160  | RM0160P32    | 160  |
| 200       | RM0200P19        | 200  | RM0200P24    | 200  |
| 250       | RM0250P15        | 250  | RM0250P19    | 250  |
| 300       | RM0320U96        | 320  | RM0320P16    | 320  |
| 350       | RM0400U82        | 400  | RM0400P14    | 400  |
| 400       | RM0400U82        | 400  | RM0400P14    | 400  |
| 500       | RM0500U57        | 500  | RM0500U96    | 500  |
| 600       | RM0600U65        | 600  | RM0600U80    | 600  |
| 700       | RM0700U41        | 700  | RM0700U68    | 700  |
| 800       | RM0750U36        | 750  | RM0750U60    | 750  |
| 900       | RM0900U32        | 900  | RM0900U53    | 900  |
| 1000      | RM1000U29        | 1000 | RM1000U48    | 1000 |
| 1200      | RM1200U24        | 1200 | RM1200U40    | 1200 |



| HP<br>Rating | 525 Volt - 50 Hz |      |              |      |
|--------------|------------------|------|--------------|------|
|              | 3% Impedance     |      | 5% Impedance |      |
|              | P/N              | Amps | P/N          | Amps |
| 1            | RM0002M20        | 2    | RM0002M32    | 2    |
| 1.5          | RM0002M12        | 2    | RM0002M20    | 2    |
| 2            | RM0004M12        | 4    | RM0004M22    | 4    |
| 3            | RM0004N65        | 4    | RM0004M12    | 4    |
| 5            | RM0008N50        | 8    | RM0008N75    | 8    |
| 7.5          | RM0012N31        | 12   | RM0012N51    | 12   |
| 10           | RM0012N25        | 12   | RM0012N42    | 12   |
| 15           | RM0018N15        | 18   | RM0018N25    | 18   |
| 20           | RM0025N12        | 25   | RM0025N20    | 25   |
| 25           | RM0035N12        | 35   | RM0035N17    | 35   |
| 30           | RM0035P80        | 35   | RM0035N17    | 35   |
| 40           | RM0045P70        | 45   | RM0045N12    | 45   |
| 50           | RM0055P50        | 55   | RM0055P85    | 55   |
| 60           | RM0080P40        | 80   | RM0080P70    | 80   |
| 75           | RM0080P40        | 80   | RM0080P70    | 80   |
| 100          | RM0110P30        | 110  | RM0110P45    | 110  |
| 125          | RM0130P20        | 130  | RM0130P37    | 130  |
| 150          | RM0160P23        | 160  | RM0160P32    | 160  |
| 200          | RM0200P19        | 200  | RM0200P24    | 200  |
| 250          | RM0250P15        | 250  | RM0250P19    | 250  |
| 300          | RM0320U96        | 320  | RM0320P16    | 320  |
| 350          | RM0400U82        | 400  | RM0400P14    | 400  |
| 400          | RM0400U82        | 400  | RM0400P14    | 400  |
| 500          | RM0500U57        | 500  | RM0500U96    | 500  |
| 600          | RM0600U65        | 600  | RM0600U80    | 600  |
| 700          | RM0700U41        | 700  | RM0700U68    | 700  |
| 800          | RM0750U36        | 750  | RM0750U60    | 750  |
| 900          | RM0900U32        | 900  | RM0900U53    | 900  |
| 1000         | RM1000U29        | 1000 | RM1000U48    | 1000 |
| 1200         | RM1200U24        | 1200 | RM1200U40    | 1200 |

| HP<br>Rating | 660 Volt - 50 Hz |      |                 |      |
|--------------|------------------|------|-----------------|------|
|              | 3% Impedance     |      | 5% Impedance    |      |
|              | P/N              | Amps | P/N             | Amps |
| 1            | RM0002M32        | 2    | Consult Factory | 2    |
| 1.5          | RM0002M20        | 2    | RM0002M32       | 2    |
| 2            | RM0004M22        | 4    | Consult Factory | 4    |
| 3            | RM0004M12        | 4    | RM0004M22       | 4    |
| 5            | RM0008N75        | 8    | Consult Factory | 8    |
| 7.5          | RM0008N50        | 8    | RM0008N75       | 8    |
| 10           | RM0012N42        | 12   | Consult Factory | 12   |
| 15           | RM0018N25        | 18   | Consult Factory | 18   |
| 20           | RM0025N20        | 25   | Consult Factory | 25   |
| 25           | RM0025N20        | 25   | Consult Factory | 25   |
| 30           | RM0035N17        | 35   | Consult Factory | 35   |
| 40           | RM0035N12        | 35   | RM0035N17       | 35   |
| 50           | RM0055P85        | 55   | Consult Factory | 55   |
| 60           | RM0055P85        | 55   | Consult Factory | 55   |
| 75           | RM0080P70        | 80   | Consult Factory | 80   |
| 100          | RM0080P40        | 80   | RM0080P70       | 80   |
| 125          | RM0110P45        | 110  | Consult Factory | 110  |
| 150          | RM0130P30        | 130  | Consult Factory | 130  |
| 200          | RM0160P23        | 160  | Consult Factory | 160  |
| 250          | RM0200P19        | 200  | Consult Factory | 200  |
| 300          | RM0250P15        | 250  | Consult Factory | 250  |
| 350          | RM0320P13        | 320  | Consult Factory | 320  |
| 400          | RM0320P13        | 320  | Consult Factory | 320  |
| 500          | RM0400U82        | 400  | RM0400P14       | 400  |
| 600          | RM0500U85        | 500  | Consult Factory | 500  |
| 700          | RM0600U65        | 600  | Consult Factory | 600  |
| 800          | RM0700U68        | 700  | Consult Factory | 700  |
| 900          | RM0750U60        | 750  | Consult Factory | 750  |
| 1000         | RM0900U43        | 900  | Consult Factory | 900  |
| 1200         | RM1000U38        | 1000 | Consult Factory | 1000 |

| HP<br>Rating | 690 Volt - 50 Hz |      |                 |      |
|--------------|------------------|------|-----------------|------|
|              | 3% Impedance     |      | 5% Impedance    |      |
|              | P/N              | Amps | P/N             | Amps |
| 1            | RM0002M32        | 2    | Consult Factory | 2    |
| 1.5          | RM0002M20        | 2    | Consult Factory | 2    |
| 2            | RM0002M20        | 2    | RM0002M32       | 2    |
| 3            | RM0004M12        | 4    | RM0004M22       | 4    |
| 5            | RM0008N75        | 8    | Consult Factory | 8    |
| 7.5          | RM0008N50        | 8    | Consult Factory | 8    |
| 10           | RM0012N42        | 12   | Consult Factory | 12   |
| 15           | RM0018N25        | 18   | Consult Factory | 18   |
| 20           | RM0018N25        | 18   | Consult Factory | 18   |
| 25           | RM0025N20        | 25   | Consult Factory | 25   |
| 30           | RM0035N17        | 35   | Consult Factory | 35   |
| 40           | RM0035N12        | 35   | Consult Factory | 35   |
| 50           | RM0045N12        | 45   | Consult Factory | 45   |
| 60           | RM0055P85        | 55   | Consult Factory | 55   |
| 75           | RM0080P70        | 80   | Consult Factory | 80   |
| 100          | RM0080P40        | 80   | Consult Factory | 80   |
| 125          | RM0110P45        | 110  | Consult Factory | 110  |
| 150          | RM0130P30        | 130  | Consult Factory | 130  |
| 200          | RM0160P23        | 160  | Consult Factory | 160  |
| 250          | RM0200P19        | 200  | Consult Factory | 200  |
| 300          | RM0250P19        | 250  | Consult Factory | 250  |
| 350          | RM0320P16        | 320  | Consult Factory | 320  |
| 400          | RM0320P13        | 320  | Consult Factory | 320  |
| 500          | RM0400P11        | 400  | Consult Factory | 400  |
| 600          | RM0500U85        | 500  | Consult Factory | 500  |
| 700          | RM0600U65        | 600  | Consult Factory | 600  |
| 800          | RM0600U65        | 600  | Consult Factory | 600  |
| 900          | RM0700U68        | 700  | Consult Factory | 700  |
| 1000         | RM0750U60        | 750  | Consult Factory | 750  |
| 1200         | RM0900U43        | 900  | Consult Factory | 900  |



## Standard Three Phase Line Reactor Core &amp; Coil Specification Charts

| Current<br>(Amps) | Part<br>Number | Inductance<br>(mH) | Watts<br>Loss | Dimensions |      |      |           |        | Mtg Slot/<br>Hole Size | Dim.<br>Fig. #<br>(Page 125) | Weight<br>(Lbs.) |
|-------------------|----------------|--------------------|---------------|------------|------|------|-----------|--------|------------------------|------------------------------|------------------|
|                   |                |                    |               | W          | D    | H    | Mtg. W    | Mtg. D |                        |                              |                  |
| 2                 | RM0002M12      | 12.0               | 7             | 4.40       | 2.83 | 3.33 | 1.44/2.56 | 1.77   | .281 x .625            | 1                            | 2                |
|                   | RM0002M20      | 20.0               | 9             | 4.40       | 2.83 | 3.33 | 1.44/2.56 | 1.77   | .281 x .625            | 1                            | 3                |
|                   | RM0002M32      | 32.0               | 13            | 4.40       | 2.83 | 3.33 | 1.44/2.56 | 1.77   | .281 x .625            | 1                            | 3                |
| 4                 | RM0004M12      | 12.0               | 21            | 4.40       | 3.33 | 3.33 | 1.44/2.56 | 2.37   | .281 x .625            | 1                            | 4                |
|                   | RM0004M22      | 22.0               | 25            | 6.00       | 3.30 | 4.80 | 2.00/3.00 | 2.09   | .281 x .625            | 3                            | 8                |
|                   | RM0004N30      | 3.00               | 7             | 4.40       | 2.83 | 3.33 | 1.44/2.56 | 1.77   | .281 x .625            | 1                            | 2                |
|                   | RM0004N65      | 6.50               | 13            | 4.40       | 2.83 | 3.33 | 1.44/2.56 | 1.77   | .281 x .625            | 1                            | 3                |
|                   | RM0004N91      | 9.10               | 15            | 4.40       | 3.33 | 3.33 | 1.44/2.56 | 2.37   | .281 x .625            | 1                            | 3                |
| 8                 | RM0008N15      | 1.50               | 11            | 4.40       | 2.83 | 3.33 | 2.00      | 1.77   | .281 x .625            | 1                            | 3                |
|                   | RM0008N30      | 3.00               | 25            | 4.40       | 2.83 | 3.33 | 2.00      | 1.77   | .281 x .625            | 1                            | 3                |
|                   | RM0008N50      | 5.00               | 31            | 4.40       | 3.33 | 3.33 | 2.00      | 2.37   | .281 x .625            | 1                            | 4                |
|                   | RM0008N75      | 7.50               | 31            | 6.00       | 3.55 | 4.80 | 2.00/3.00 | 2.34   | .281 x .625            | 3                            | 9                |
| 12                | RM0012N13      | 1.30               | 23            | 4.40       | 2.83 | 3.33 | 2.00      | 1.77   | .281 x .625            | 1                            | 3                |
|                   | RM0012N25      | 2.50               | 26            | 6.00       | 3.30 | 4.80 | 2.00/3.00 | 2.09   | .281 x .625            | 3                            | 8                |
|                   | RM0012N31      | 3.10               | 30            | 6.00       | 3.55 | 4.80 | 2.00/3.00 | 2.34   | .281 x .625            | 3                            | 9                |
|                   | RM0012N42      | 4.20               | 34            | 6.00       | 3.80 | 4.80 | 2.00/3.00 | 2.59   | .281 x .625            | 3                            | 10               |
|                   | RM0012N51      | 5.10               | 39            | 6.05       | 3.80 | 4.80 | 2.00/3.00 | 2.59   | .281 x .625            | 3                            | 13               |
| 18                | RM0018N15      | 1.50               | 29            | 6.00       | 3.55 | 4.80 | 2.00/3.00 | 2.34   | .281 x .625            | 3                            | 9                |
|                   | RM0018N25      | 2.50               | 40            | 6.00       | 3.84 | 4.80 | 2.00/3.00 | 2.84   | .281 x .625            | 2                            | 13               |
|                   | RM0018P80      | 0.80               | 19            | 6.00       | 3.30 | 4.80 | 2.00/3.00 | 2.09   | .281 x .625            | 3                            | 7                |
| 25                | RM0025N12      | 1.20               | 44            | 6.10       | 3.84 | 5.70 | 2.00/3.00 | 2.34   | .281 x .625            | 2                            | 10               |
|                   | RM0025N20      | 2.00               | 59            | 7.15       | 3.75 | 5.60 | 3.00      | 2.87   | .38 x .63              | 3                            | 18               |
|                   | RM0025P50      | 0.50               | 23            | 6.00       | 3.84 | 5.70 | 2.00/3.00 | 2.09   | .281 x .625            | 2                            | 7                |
| 35                | RM0035N12      | 1.20               | 75            | 8.50       | 4.37 | 6.88 | 3.00/4.20 | 3.12   | .44 X 1.00             | 3                            | 26               |
|                   | RM0035N17      | 1.70               | 90            | 8.60       | 4.87 | 6.93 | 3.00/4.20 | 3.62   | .44 X 1.00             | 3                            | 35               |
|                   | RM0035P40      | 0.40               | 36            | 6.00       | 3.34 | 5.70 | 2.00/3.00 | 2.34   | .281 x .625            | 2                            | 9                |
|                   | RM0035P80      | 0.80               | 51            | 7.00       | 3.75 | 5.61 | 3.00      | 2.87   | .38 x .63              | 3                            | 17               |
| 45                | RM0045N12      | 1.20               | 100           | 8.50       | 4.37 | 6.88 | 3.00/4.20 | 3.62   | .44 X 1.00             | 3                            | 35               |
|                   | RM0045P30      | 0.30               | 33            | 6.00       | 3.84 | 5.70 | 2.00/3.00 | 2.84   | .281 x .625            | 2                            | 13               |
|                   | RM0045P70      | 0.70               | 64            | 6.90       | 4.45 | 5.60 | 3.00      | 3.37   | .38 x .63              | 3                            | 22               |
| 55                | RM0055P25      | 0.25               | 39            | 6.05       | 3.84 | 5.70 | 2.00/3.00 | 2.84   | .281 x .625            | 2                            | 12               |
|                   | RM0055P50      | 0.50               | 75            | 8.50       | 4.37 | 6.88 | 3.00/4.20 | 3.12   | .44 X 1.00             | 3                            | 26               |
|                   | RM0055P85      | 0.85               | 110           | 8.50       | 4.87 | 6.95 | 3.00/4.20 | 3.62   | .44 X 1.00             | 3                            | 35               |
| 80                | RM0080P20      | 0.20               | 88            | 8.50       | 4.37 | 6.88 | 3.00/4.20 | 3.12   | .44 X 1.00             | 4                            | 26               |
|                   | RM0080P23      | 0.23               | 70            | 8.50       | 4.87 | 6.88 | 3.00/4.20 | 3.62   | .44 X 1.00             | 4                            | 33               |
|                   | RM0080P40      | 0.40               | 138           | 9.40       | 5.94 | 6.95 | 3.00/4.20 | 3.62   | .44 X 1.00             | 4                            | 36               |
|                   | RM0080P70      | 0.70               | 140           | 10.50      | 5.85 | 8.35 | 3.60/4.80 | 4.23   | .44 X 1.25             | 4                            | 63               |
| 110               | RM0110P15      | 0.15               | 86            | 8.50       | 5.44 | 6.88 | 3.00/4.20 | 3.12   | .44 X 1.00             | 4                            | 27               |
|                   | RM0110P18      | 0.18               | 95            | 8.50       | 4.87 | 6.88 | 3.00/4.20 | 3.62   | .44 X 1.00             | 4                            | 35               |
|                   | RM0110P30      | 0.30               | 123           | 10.70      | 5.85 | 8.35 | 3.60/4.80 | 4.23   | .44 X 1.25             | 4                            | 52               |
|                   | RM0110P45      | 0.45               | 130           | 10.50      | 5.85 | 8.29 | 3.60/4.80 | 4.23   | .44 X 1.25             | 4                            | 63               |
| 130               | RM0130P10      | 0.10               | 95            | 8.50       | 5.44 | 6.88 | 3.00/4.20 | 3.12   | .44 X 1.00             | 4                            | 27               |
|                   | RM0130P20      | 0.20               | 115           | 10.70      | 6.20 | 8.35 | 3.60/4.80 | 3.73   | .44 X 1.25             | 4                            | 41               |
|                   | RM0130P30      | 0.30               | 142           | 10.70      | 5.85 | 8.29 | 3.60/4.80 | 4.23   | .44 X 1.25             | 4                            | 53               |
|                   | RM0130P37      | 0.37               | 143           | 10.70      | 6.35 | 8.32 | 3.60/4.80 | 4.73   | .44 X 1.25             | 4                            | 75               |
| 160               | RM0160P15      | 0.15               | 129           | 10.50      | 6.20 | 8.31 | 3.60/4.80 | 3.73   | .44 X 1.25             | 4                            | 46               |
|                   | RM0160P23      | 0.23               | 142           | 10.90      | 6.35 | 8.29 | 3.60/4.80 | 4.73   | .44 X 1.25             | 4                            | 66               |
|                   | RM0160P32      | 0.32               | 141           | 10.50      | 8.35 | 8.29 | 3.60/4.80 | 6.73   | .44 X 1.25             | 4                            | 104              |
|                   | RM0160U75      | 0.08               | 100           | 8.50       | 5.44 | 6.91 | 3.00/4.20 | 3.12   | .44 X 1.00             | 4                            | 29               |

All dimensions in inches



## Standard Three Phase Line Reactor Core &amp; Coil Specification Charts

| Current<br>(Amps) | Part<br>Number | Inductance<br>(mH) | Watts<br>Loss | Dimensions |       |       |           |        | Mtg Slot/<br>Hole Size | Dim.<br>Fig. #<br>(Page 125) | Weight<br>(Lbs.) |
|-------------------|----------------|--------------------|---------------|------------|-------|-------|-----------|--------|------------------------|------------------------------|------------------|
|                   |                |                    |               | W          | D     | H     | Mtg. W    | Mtg. D |                        |                              |                  |
| 200               | RM0200P11      | 0.11               | 114           | 10.50      | 7.53  | 8.35  | 3.60/4.80 | 4.48   | .44 X 1.25             | 4                            | 52               |
|                   | RM0200P19      | 0.190              | 138           | 10.50      | 9.53  | 8.29  | 3.60/4.80 | 6.23   | .44 X 1.25             | 4                            | 93               |
|                   | RM0200P24      | 0.240              | 164           | 10.50      | 8.35  | 8.29  | 3.60/4.80 | 6.73   | .44 X 1.25             | 4                            | 105              |
|                   | RM0200U55      | 0.055              | 89            | 8.50       | 5.94  | 7.05  | 3.00/4.20 | 3.62   | .44 X 1.00             | 4                            | 37               |
| 250               | RM0250P15      | 0.150              | 188           | 13.75      | 9.00  | 11.43 | 4.80      | 5.44   | .44 X 1.00             | 5                            | 119              |
|                   | RM0250P19      | 0.190              | 203           | 13.75      | 7.25  | 11.43 | 4.80      | 5.94   | .44 X 1.00             | 5                            | 137              |
|                   | RM0250U45      | 0.045              | 90            | 10.50      | 5.35  | 8.31  | 3.60/4.80 | 3.73   | .44 X 1.25             | 4                            | 40               |
|                   | RM0250U90      | 0.090              | 131           | 10.50      | 8.75  | 8.35  | 3.60/4.80 | 4.73   | .44 X 1.25             | 4                            | 65               |
| 320               | RM0320P13      | 0.13               | 245           | 13.75      | 7.75  | 11.43 | 4.80      | 6.44   | .44 X 1.00             | 5                            | 127              |
|                   | RM0320P16      | 0.160              | 270           | 13.75      | 8.25  | 11.43 | 4.80      | 6.44   | .44 X 1.00             | 5                            | 146              |
|                   | RM0320U40      | 0.040              | 94            | 10.50      | 6.85  | 8.29  | 3.60/4.80 | 5.23   | .44 X 1.25             | 4                            | 69               |
|                   | RM0320U75      | 0.075              | 184           | 13.75      | 8.44  | 11.43 | 4.80      | 5.94   | .44 X 1.00             | 5                            | 87               |
|                   | RM0320U96      | 0.096              | 214           | 13.75      | 6.25  | 11.43 | 4.80      | 4.93   | .44 X 1.00             | 5                            | 107              |
| 400               | RM0400P11      | 0.11               | 278           | 13.75      | 7.75  | 11.43 | 4.80      | 6.44   | .44 X 1.00             | 5                            | 156              |
|                   | RM0400P14      | 0.14               | 305           | 18.00      | 11.00 | 14.00 | 6.00      | 8.25   | 0.563                  | 6                            | 253              |
|                   | RM0400U30      | 0.030              | 130           | 10.50      | 6.35  | 8.29  | 3.60/4.80 | 4.73   | .44 X 1.25             | 4                            | 61               |
|                   | RM0400U61      | 0.061              | 177           | 13.75      | 8.69  | 11.43 | 4.80      | 5.44   | .44 X 1.00             | 5                            | 115              |
|                   | RM0400U82      | 0.082              | 210           | 13.75      | 7.75  | 11.43 | 4.80      | 6.44   | .44 X 1.00             | 5                            | 148              |
| 500               | RM0500U25      | 0.025              | 152           | 13.75      | 7.75  | 11.43 | 4.80      | 6.44   | .44 X 1.00             | 5                            | 100              |
|                   | RM0500U50      | 0.05               | 196           | 13.75      | 9.69  | 11.43 | 4.80      | 6.44   | .44 X 1.00             | 5                            | 151              |
|                   | RM0500U57      | 0.057              | 217           | 13.75      | 9.63  | 11.43 | 4.80      | 6.94   | .44 X 1.00             | 5                            | 168              |
|                   | RM0500U85      | 0.085              | 280           | 13.75      | 9.75  | 11.43 | 4.80      | 8.44   | .44 X 1.00             | 5                            | 225              |
|                   | RM0500U96      | 0.096              | 317           | 22.00      | 15.50 | 20.50 | 6.00      | 8.75   | 0.75                   | 6                            | 282              |
| 600               | RM0600U20      | 0.020              | 147           | 13.75      | 8.25  | 11.43 | 4.80      | 6.56   | .44 X 1.00             | 5                            | 115              |
|                   | RM0600U40      | 0.040              | 223           | 13.75      | 8.25  | 11.43 | 4.80      | 6.94   | .44 X 1.00             | 5                            | 177              |
|                   | RM0600U65      | 0.065              | 290           | 13.75      | 9.75  | 11.43 | 4.80      | 8.44   | .44 X 1.00             | 5                            | 230              |
|                   | RM0600U80      | 0.080              | 340           | 22.50      | 12.63 | 20.50 | 7.50      | 8.75   | 0.75                   | 6                            | 310              |
| 700               | RM0700U41      | 0.041              | 276           | 22.50      | 13.00 | 20.25 | 6.00      | 8.25   | 0.56                   | 6                            | 240              |
|                   | RM0700U68      | 0.068              | 400           | 22.50      | 14.25 | 22.00 | 7.50      | 9.75   | 0.75                   | 6                            | 403              |
| 750               | RM0750U15      | 0.015              | 209           | 18.00      | 8.25  | 14.00 | 6.00      | 6.25   | 0.563                  | 6                            | 159              |
|                   | RM0750U25      | 0.025              | 250           | 18.00      | 9.25  | 14.00 | 6.00      | 7.25   | 0.563                  | 6                            | 184              |
|                   | RM0750U36      | 0.036              | 293           | 18.00      | 9.75  | 14.00 | 6.00      | 7.75   | 0.563                  | 6                            | 236              |
|                   | RM0750U60      | 0.060              | 415           | 22.50      | 13.50 | 20.75 | 7.50      | 8.25   | 0.75                   | 6                            | 403              |
| 900               | RM0900U13      | 0.013              | 216           | 18.00      | 12.00 | 14.00 | 6.00      | 7.25   | 0.56                   | 6                            | 159              |
|                   | RM0900U26      | 0.026              | 286           | 18.00      | 13.00 | 14.00 | 6.00      | 8.25   | 0.56                   | 6                            | 259              |
|                   | RM0900U32      | 0.032              | 400           | 18.00      | 13.63 | 14.00 | 6.00      | 10.25  | 0.75                   | 6                            | 340              |
|                   | RM0900U43      | 0.043              | 441           | 22.50      | 14.00 | 20.50 | 7.50      | 8.75   | 0.75                   | 6                            | 434              |
|                   | RM0900U53      | 0.053              | 490           | 22.50      | 13.75 | 21.50 | 7.50      | 10.25  | 0.75                   | 6                            | 546              |
| 1000              | RM1000U11      | 0.011              | 179           | 18.00      | 12.50 | 18.00 | 6.00      | 9.25   | 0.75                   | 6                            | 200              |
|                   | RM1000U18      | 0.018              | 232           | 22.50      | 13.75 | 20.50 | 7.50      | 11     | 0.75                   | 6                            | 282              |
|                   | RM1000U29      | 0.029              | 377           | 22.50      | 13.75 | 20.50 | 7.50      | 7.25   | 0.75                   | 6                            | 394              |
|                   | RM1000U38      | 0.038              | 416           | 22.50      | 14.00 | 20.50 | 7.50      | 10.25  | 0.56                   | 6                            | 450              |
|                   | RM1000U48      | 0.048              | 490           | 22.50      | 15.00 | 20.50 | 7.50      | 11.25  | 0.75                   | 6                            | 642              |
| 1200              | RM1200U10      | 0.010              | 228           | 18.00      | 13.50 | 14.00 | 6.00      | 8.25   | 0.563                  | 6                            | 205              |
|                   | RM1200U15      | 0.015              | 287           | 18.00      | 14.00 | 18.50 | 6.00      | 10.75  | 0.75                   | 6                            | 300              |
|                   | RM1200U18      | 0.018              | 395           | 18.00      | 14.25 | 18.38 | 7.50      | 8.25   | 0.75                   | 6                            | 343              |
|                   | RM1200U24      | 0.024              | 440           | 22.50      | 14.00 | 20.50 | 7.50      | 9.25   | 0.75                   | 6                            | 444              |
|                   | RM1200U30      | 0.030              | 490           | 22.50      | 14.00 | 17.00 | 7.50      | 10.25  | 0.75                   | 6                            | 534              |
|                   | RM1200U40      | 0.040              | 576           | 22.50      | 17.00 | 19.50 | 7.50      | 11.75  | 0.563                  | 6                            | 600              |

All dimensions in inches



## Standard Three Phase Line Reactor Enclosed Specification Charts

| Current<br>(Amps) | Part<br>Number | Inductance<br>(mH) | Watts<br>Loss | Dimensions |       |       |        |        | Mtg Slot/<br>Hole Size | Dim.<br>Fig. #<br>(Page 125) | Case<br>Style | Enclosed<br>Weight<br>(Lbs.) |
|-------------------|----------------|--------------------|---------------|------------|-------|-------|--------|--------|------------------------|------------------------------|---------------|------------------------------|
|                   |                |                    |               | W          | D     | H     | Mtg. W | Mtg. D |                        |                              |               |                              |
| 2                 | RM0002M12E     | 12.0               | 7             | 10.00      | 8.00  | 8.00  | 7.00   | 6.50   | 0.188                  | 1                            | N1            | 9                            |
|                   | RM0002M20E     | 20.0               | 9             | 10.00      | 8.00  | 8.00  | 7.00   | 6.50   | 0.188                  | 1                            | N1            | 10                           |
|                   | RM0002M32E     | 32.0               | 13            | 10.00      | 8.00  | 8.00  | 7.00   | 6.50   | 0.188                  | 1                            | N1            | 10                           |
| 4                 | RM0004M12E     | 12.0               | 21            | 10.00      | 8.00  | 8.00  | 7.00   | 6.50   | 0.188                  | 1                            | N1            | 11                           |
|                   | RM0004M22E     | 22.0               | 25            | 10.00      | 8.00  | 8.00  | 7.00   | 6.50   | 0.188                  | 3                            | N1            | 15                           |
|                   | RM0004N30E     | 3.00               | 7             | 10.00      | 8.00  | 8.00  | 7.00   | 6.50   | 0.188                  | 1                            | N1            | 9                            |
|                   | RM0004N65E     | 6.50               | 13            | 10.00      | 8.00  | 8.00  | 7.00   | 6.50   | 0.188                  | 1                            | N1            | 10                           |
|                   | RM0004N91E     | 9.10               | 15            | 10.00      | 8.00  | 8.00  | 7.00   | 6.50   | 0.188                  | 1                            | N1            | 10                           |
| 8                 | RM0008N15E     | 1.50               | 11            | 10.00      | 8.00  | 8.00  | 7.00   | 6.50   | 0.188                  | 1                            | N1            | 10                           |
|                   | RM0008N30E     | 3.00               | 25            | 10.00      | 8.00  | 8.00  | 7.00   | 6.50   | 0.188                  | 1                            | N1            | 10                           |
|                   | RM0008N50E     | 5.00               | 31            | 10.00      | 8.00  | 8.00  | 7.00   | 6.50   | 0.188                  | 1                            | N1            | 11                           |
|                   | RM0008N75E     | 7.50               | 31            | 10.00      | 8.00  | 8.00  | 7.00   | 6.50   | 0.188                  | 3                            | N1            | 16                           |
| 12                | RM0012N13E     | 1.30               | 23            | 10.00      | 8.00  | 8.00  | 7.00   | 6.50   | 0.188                  | 1                            | N1            | 10                           |
|                   | RM0012N25E     | 2.50               | 26            | 10.00      | 8.00  | 8.00  | 7.00   | 6.50   | 0.188                  | 3                            | N1            | 15                           |
|                   | RM0012N31E     | 3.10               | 30            | 10.00      | 8.00  | 8.00  | 7.00   | 6.50   | 0.188                  | 3                            | N1            | 16                           |
|                   | RM0012N42E     | 4.20               | 34            | 10.00      | 8.00  | 8.00  | 7.00   | 6.50   | 0.188                  | 3                            | N1            | 17                           |
|                   | RM0012N51E     | 5.10               | 39            | 10.00      | 8.00  | 8.00  | 7.00   | 6.50   | 0.188                  | 3                            | N1            | 20                           |
| 18                | RM0018N15E     | 1.50               | 29            | 10.00      | 8.00  | 8.00  | 7.00   | 6.50   | 0.188                  | 3                            | N1            | 16                           |
|                   | RM0018N25E     | 2.50               | 40            | 10.00      | 8.00  | 8.00  | 7.00   | 6.50   | 0.188                  | 2                            | N1            | 20                           |
|                   | RM0018P80E     | 0.80               | 19            | 10.00      | 8.00  | 8.00  | 7.00   | 6.50   | 0.188                  | 3                            | N1            | 14                           |
| 25                | RM0025N12E     | 1.20               | 44            | 10.00      | 8.00  | 8.00  | 7.00   | 6.50   | 0.188                  | 2                            | N1            | 17                           |
|                   | RM0025N20E     | 2.00               | 59            | 14.00      | 14.00 | 12.00 | 10.00  | 10.50  | 0.188                  | 3                            | N2            | 35                           |
|                   | RM0025P50E     | 0.50               | 23            | 10.00      | 8.00  | 8.00  | 7.00   | 6.50   | 0.188                  | 2                            | N1            | 14                           |
| 35                | RM0035N12E     | 1.20               | 75            | 14.00      | 14.00 | 12.00 | 10.00  | 10.50  | 0.188                  | 3                            | N2            | 43                           |
|                   | RM0035N17E     | 1.70               | 90            | 14.00      | 14.00 | 12.00 | 10.00  | 10.50  | 0.188                  | 3                            | N2            | 52                           |
|                   | RM0035P40E     | 0.40               | 36            | 10.00      | 8.00  | 8.00  | 7.00   | 6.50   | 0.188                  | 2                            | N1            | 16                           |
|                   | RM0035P80E     | 0.80               | 51            | 14.00      | 14.00 | 12.00 | 10.00  | 10.50  | 0.188                  | 3                            | N2            | 24                           |
| 45                | RM0045N12E     | 1.20               | 100           | 14.00      | 14.00 | 12.00 | 10.00  | 10.50  | 0.188                  | 3                            | N2            | 52                           |
|                   | RM0045P30E     | 0.30               | 33            | 10.00      | 8.00  | 8.00  | 7.00   | 6.50   | 0.188                  | 2                            | N1            | 20                           |
|                   | RM0045P70E     | 0.70               | 64            | 14.00      | 14.00 | 12.00 | 10.00  | 10.50  | 0.188                  | 3                            | N2            | 39                           |
| 55                | RM0055P25E     | 0.25               | 39            | 10.00      | 8.00  | 8.00  | 7.00   | 6.50   | 0.188                  | 2                            | N1            | 19                           |
|                   | RM0055P50E     | 0.50               | 75            | 14.00      | 14.00 | 12.00 | 10.00  | 10.50  | 0.188                  | 3                            | N2            | 43                           |
|                   | RM0055P85E     | 0.85               | 110           | 14.00      | 14.00 | 12.00 | 10.00  | 10.50  | 0.188                  | 3                            | N2            | 52                           |
| 80                | RM0080P20E     | 0.20               | 88            | 14.00      | 14.00 | 12.00 | 10.00  | 10.50  | 0.188                  | 4                            | N2            | 43                           |
|                   | RM0080P23E     | 0.23               | 70            | 14.00      | 14.00 | 12.00 | 10.00  | 10.50  | 0.188                  | 4                            | N2            | 50                           |
|                   | RM0080P40E     | 0.40               | 138           | 14.00      | 14.00 | 12.00 | 10.00  | 10.50  | 0.188                  | 4                            | N2            | 53                           |
|                   | RM0080P70E     | 0.70               | 140           | 14.00      | 14.00 | 12.00 | 10.00  | 10.50  | 0.188                  | 4                            | N2            | 80                           |
| 110               | RM0110P15E     | 0.15               | 86            | 14.00      | 14.00 | 12.00 | 10.00  | 10.50  | 0.188                  | 4                            | N2            | 44                           |
|                   | RM0110P18E     | 0.18               | 95            | 14.00      | 14.00 | 12.00 | 10.00  | 10.50  | 0.188                  | 4                            | N2            | 52                           |
|                   | RM0110P30E     | 0.30               | 123           | 14.00      | 14.00 | 12.00 | 10.00  | 10.50  | 0.188                  | 4                            | N2            | 69                           |
|                   | RM0110P45E     | 0.45               | 130           | 14.00      | 14.00 | 12.00 | 10.00  | 10.50  | 0.188                  | 4                            | N2            | 80                           |
| 130               | RM0130P10E     | 0.10               | 95            | 14.00      | 14.00 | 12.00 | 10.00  | 10.50  | 0.188                  | 4                            | N2            | 44                           |
|                   | RM0130P20E     | 0.20               | 115           | 14.00      | 14.00 | 12.00 | 10.00  | 10.50  | 0.188                  | 4                            | N2            | 58                           |
|                   | RM0130P30E     | 0.30               | 142           | 14.00      | 14.00 | 12.00 | 10.00  | 10.50  | 0.188                  | 4                            | N2            | 70                           |
|                   | RM0130P37E     | 0.37               | 143           | 14.00      | 14.00 | 12.00 | 10.00  | 10.50  | 0.188                  | 4                            | N2            | 92                           |
| 160               | RM0160P15E     | 0.15               | 129           | 14.00      | 14.00 | 12.00 | 10.00  | 10.50  | 0.188                  | 4                            | N2            | 63                           |
|                   | RM0160P23E     | 0.23               | 142           | 14.00      | 14.00 | 12.00 | 10.00  | 10.50  | 0.188                  | 4                            | N2            | 83                           |
|                   | RM0160P32E     | 0.32               | 141           | 23.90      | 25.00 | 28.75 | 22.75  | 9.00   | 0.56                   | 4                            | NH6           | 164                          |
|                   | RM0160U75E     | 0.08               | 100           | 14.00      | 14.00 | 12.00 | 10.00  | 10.50  | 0.188                  | 4                            | N2            | 46                           |

Note: Please refer to Pages 264 to 269 for enclosure dimensional specifications

All dimensions in inches





## Standard Three Phase Line Reactor Enclosed Specification Charts

| Current<br>(Amps) | Part<br>Number | Inductance<br>(mH) | Watts<br>Loss | Dimensions |       |       |        |        | Mtg Slot/<br>Hole Size | Dim.<br>Fig. #<br>(Page 125) | Case<br>Style | Enclosed<br>Weight<br>(Lbs.) |
|-------------------|----------------|--------------------|---------------|------------|-------|-------|--------|--------|------------------------|------------------------------|---------------|------------------------------|
|                   |                |                    |               | W          | D     | H     | Mtg. W | Mtg. D |                        |                              |               |                              |
| 200               | RM0200P11E     | 0.11               | 114           | 23.90      | 25.00 | 28.75 | 22.75  | 9.00   | 0.56                   | 4                            | NH6           | 112                          |
|                   | RM0200P19E     | 0.190              | 138           | 23.90      | 25.00 | 28.75 | 22.75  | 9.00   | 0.56                   | 4                            | NH6           | 153                          |
|                   | RM0200P24E     | 0.240              | 164           | 19.40      | 20.20 | 21.50 | 18.00  | 9.00   | 0.56                   | 4                            | NH5           | 165                          |
|                   | RM0200U55E     | 0.055              | 89            | 14.00      | 14.00 | 12.00 | 10.00  | 10.50  | 0.188                  | 4                            | N2            | 154                          |
| 250               | RM0250P15E     | 0.150              | 188           | 23.90      | 25.00 | 28.75 | 22.75  | 9.00   | 0.56                   | 5                            | NH6           | 179                          |
|                   | RM0250P19E     | 0.190              | 203           | 23.90      | 25.00 | 28.75 | 22.75  | 9.00   | 0.56                   | 5                            | NH6           | 197                          |
|                   | RM0250U45E     | 0.045              | 90            | 23.90      | 25.00 | 28.75 | 22.75  | 9.00   | 0.56                   | 4                            | NH6           | 100                          |
|                   | RM0250U90E     | 0.090              | 131           | 23.90      | 25.00 | 28.75 | 22.75  | 9.00   | 0.56                   | 4                            | NH6           | 125                          |
| 320               | RM0320P13E     | 0.13               | 245           | 23.90      | 25.00 | 28.75 | 22.75  | 9.00   | 0.56                   | 5                            | NH6           | 187                          |
|                   | RM0320P16E     | 0.160              | 270           | 23.90      | 25.00 | 28.75 | 22.75  | 9.00   | 0.56                   | 5                            | NH6           | 206                          |
|                   | RM0320U40E     | 0.040              | 94            | 23.90      | 25.00 | 28.75 | 22.75  | 9.00   | 0.56                   | 4                            | NH6           | 129                          |
|                   | RM0320U75E     | 0.075              | 184           | 23.90      | 25.00 | 28.75 | 22.75  | 9.00   | 0.56                   | 5                            | NH6           | 147                          |
|                   | RM0320U96E     | 0.096              | 214           | 23.90      | 25.00 | 28.75 | 22.75  | 9.00   | 0.56                   | 5                            | NH6           | 167                          |
| 400               | RM0400P11E     | 0.11               | 278           | 23.90      | 25.00 | 28.75 | 22.75  | 9.00   | 0.56                   | 5                            | NH6           | 216                          |
|                   | RM0400P14E     | 0.14               | 305           | 23.90      | 25.00 | 28.75 | 22.75  | 9.00   | 0.56                   | 6                            | NH6           | 313                          |
|                   | RM0400U30E     | 0.030              | 130           | 23.90      | 25.00 | 28.75 | 22.75  | 9.00   | 0.56                   | 4                            | NH6           | 121                          |
|                   | RM0400U61E     | 0.061              | 177           | 23.90      | 25.00 | 28.75 | 22.75  | 9.00   | 0.56                   | 5                            | NH6           | 175                          |
|                   | RM0400U82E     | 0.082              | 210           | 23.90      | 25.00 | 28.75 | 22.75  | 9.00   | 0.56                   | 5                            | NH6           | 208                          |
| 500               | RM0500U25E     | 0.025              | 152           | 23.90      | 25.00 | 28.75 | 22.75  | 9.00   | 0.56                   | 5                            | NH6           | 160                          |
|                   | RM0500U50E     | 0.05               | 196           | 23.90      | 25.00 | 28.75 | 22.75  | 9.00   | 0.56                   | 5                            | NH6           | 211                          |
|                   | RM0500U57E     | 0.057              | 217           | 26.00      | 25.00 | 38.00 | 21.50  | 19.00  | 0.56                   | 5                            | NH3           | 245                          |
|                   | RM0500U85E     | 0.085              | 280           | 26.00      | 25.00 | 38.00 | 21.50  | 19.00  | 0.56                   | 5                            | NH3           | 302                          |
|                   | RM0500U96E     | 0.096              | 317           | 26.00      | 25.00 | 38.00 | 21.50  | 19.00  | 0.56                   | 6                            | NH3           | 359                          |
| 600               | RM0600U20E     | 0.020              | 147           | 26.00      | 25.00 | 38.00 | 21.50  | 19.00  | 0.56                   | 5                            | NH3           | 192                          |
|                   | RM0600U40E     | 0.040              | 223           | 26.00      | 25.00 | 38.00 | 21.50  | 19.00  | 0.56                   | 5                            | NH3           | 254                          |
|                   | RM0600U65E     | 0.065              | 290           | 26.00      | 25.00 | 38.00 | 21.50  | 19.00  | 0.56                   | 5                            | NH3           | 307                          |
|                   | RM0600U80E     | 0.080              | 340           | 32.00      | 29.50 | 41.00 | 23.50  | 23.50  | 0.56                   | 6                            | NH4           | 417                          |
| 700               | RM0700U41E     | 0.041              | 276           | 32.00      | 29.50 | 41.00 | 23.50  | 23.50  | 0.56                   | 6                            | NH4           | 347                          |
|                   | RM0700U68E     | 0.068              | 400           | 32.00      | 29.50 | 41.00 | 23.50  | 23.50  | 0.56                   | 6                            | NH4           | 510                          |
| 750               | RM0750U15E     | 0.015              | 209           | 32.00      | 29.50 | 41.00 | 23.50  | 23.50  | 0.56                   | 6                            | NH4           | 266                          |
|                   | RM0750U25E     | 0.025              | 250           | 32.00      | 29.50 | 41.00 | 23.50  | 23.50  | 0.56                   | 6                            | NH4           | 291                          |
|                   | RM0750U36E     | 0.036              | 293           | 32.00      | 29.50 | 41.00 | 23.50  | 23.50  | 0.56                   | 6                            | NH4           | 343                          |
|                   | RM0750U60E     | 0.060              | 415           | 32.00      | 29.50 | 41.00 | 23.50  | 23.50  | 0.56                   | 6                            | NH4           | 510                          |
| 900               | RM0900U13E     | 0.013              | 216           | 32.00      | 29.50 | 41.00 | 23.50  | 23.50  | 0.56                   | 6                            | NH4           | 266                          |
|                   | RM0900U26E     | 0.026              | 286           | 32.00      | 29.50 | 41.00 | 23.50  | 23.50  | 0.56                   | 6                            | NH4           | 366                          |
|                   | RM0900U32E     | 0.032              | 400           | 32.00      | 29.50 | 41.00 | 23.50  | 23.50  | 0.56                   | 6                            | NH4           | 447                          |
|                   | RM0900U43E     | 0.043              | 441           | 32.00      | 29.50 | 41.00 | 23.50  | 23.50  | 0.56                   | 6                            | NH4           | 541                          |
|                   | RM0900U53E     | 0.053              | 490           | 32.00      | 29.50 | 41.00 | 23.50  | 23.50  | 0.56                   | 6                            | NH4           | 653                          |
| 1000              | RM1000U11E     | 0.011              | 179           | 32.00      | 29.50 | 41.00 | 23.50  | 23.50  | 0.56                   | 6                            | NH4           | 277                          |
|                   | RM1000U18E     | 0.018              | 232           | 32.00      | 29.50 | 41.00 | 23.50  | 23.50  | 0.56                   | 6                            | NH4           | 432                          |
|                   | RM1000U29E     | 0.029              | 377           | 39.50      | 34.00 | 51.50 | 24.00  | 32.00  | 0.69                   | 6                            | NJ1           | 544                          |
|                   | RM1000U38E     | 0.038              | 416           | 26.00      | 25.00 | 38.00 | 21.50  | 19.00  | 0.56                   | 6                            | NH3           | 684                          |
|                   | RM1000U48E     | 0.048              | 490           | 39.50      | 34.00 | 51.50 | 24.00  | 32.00  | 0.69                   | 6                            | NJ1           | 792                          |
| 1200              | RM1200U10E     | 0.010              | 228           | 39.50      | 34.00 | 51.50 | 24.00  | 32.00  | 0.69                   | 6                            | NJ1           | 355                          |
|                   | RM1200U15E     | 0.015              | 287           | 39.50      | 34.00 | 51.50 | 24.00  | 32.00  | 0.69                   | 6                            | NJ1           | 432                          |
|                   | RM1200U18E     | 0.018              | 395           | 39.50      | 34.00 | 51.50 | 24.00  | 32.00  | 0.69                   | 6                            | NJ1           | 493                          |
|                   | RM1200U24E     | 0.024              | 440           | 39.50      | 34.00 | 51.50 | 24.00  | 32.00  | 0.69                   | 6                            | NJ1           | 594                          |
|                   | RM1200U30E     | 0.030              | 490           | 39.50      | 34.00 | 51.50 | 24.00  | 32.00  | 0.69                   | 6                            | NJ1           | 684                          |
|                   | RM1200U40E     | 0.040              | 576           | 39.50      | 34.00 | 51.50 | 24.00  | 32.00  | 0.69                   | 6                            | NJ1           | 850                          |

Note: Please refer to Pages 264 to 269 for enclosure dimensional specifications

All dimensions in inches



## DV/DT Filters

The advent of pulse width modulated (PWM) inverters with IGBT high speed transistors has resulted in smaller more cost effective drives and increased switching speeds. A waveform with increased harmonics at higher frequencies is the result of these much faster switching devices, usually at frequencies of 10,000 to 20,000 Hertz.

Drives and motors often need to be separated by significant distances. For deep wells or mines, the motors are usually controlled on the surface. As a result, the distance between the drive and the motor creates long motor lead lengths. In some plant applications, the motors can withstand the harsh environment, but the sensitive variable frequency drive cannot. This again results in long lead lengths to the motor.

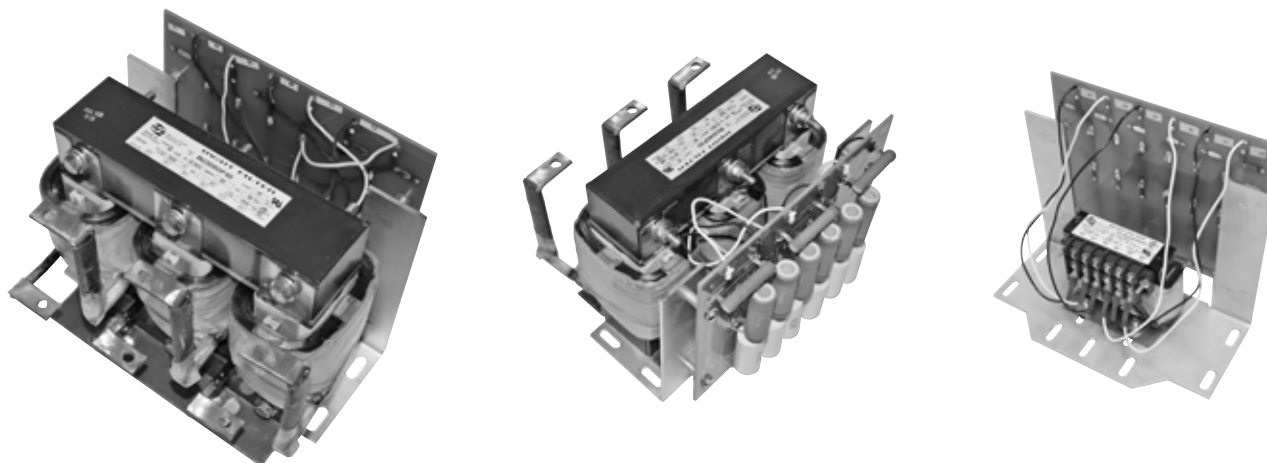
Most manufactures of variable frequency drives will publish a recommended maximum distance between their equipment and the motor. Sometimes these recommendations create application difficulties, thus increased motor lead lengths are inevitable. DV/DT is explained as the steep-front voltage pulses that travel down these long leads in the circuit to the motor and subsequently reverted back in a "reflective wave". When the conductors are long enough, usually 20 feet or more, the time for reflection matches the time for transmission resulting in a high amplitude 'standing wave' on the circuit. Voltage spikes of up to 2100 volts are frequently experienced for 600 volt systems and motor winding failures are the result.

A DV/DT filter, combines the current limiting ability of an AC line reactor plus a resistive capacitance circuit that forms a damped, low pass filter. It provides protection for the motor by slowing the rate of voltage increase and minimizing the peak voltage that occurs at the motor terminals.

The cost of a DV/DT Filter is a little more than the cost of the reactor and can be mounted next to the drive, or inside the PWM enclosure.

### APPLICATIONS

The HPS RC series DV/DT filters are specifically designed for drive/motor applications with long lead lengths (usually where the motor cable length is 20 feet and greater). They should always be installed next to the IGBT variable frequency drive. Typical installation applications include production process lines, conveyor systems and deep wells.



**TYPICAL “RC” DV/DT FILTERS PERFORMANCE**

The RC series DV/DT filters combine appropriate values of inductance, capacitance and resistance to form a filter which reduces DV/DT and peak voltages from the PWM voltage waveform. This combined with a 3% impedance reactor, that will reduce motor heating harmonics, will significantly increase the life of the motor.

Long lead length motor drive applications can experience motor terminal peak voltage spikes twice the DC bus voltage, and higher. Therefore motor terminal voltage peaks of 1200 volts for 480V drives and 1600 volts for 600V drives are not uncommon. The highest peak voltages will typically occur in lower HP applications.

**Standard “RC” DV/DT Filter Specifications****RATINGS:**

Nominal Inductance +/- 10% @ rated current.  
95% of nominal inductance @ 150% rated current.  
50% of nominal inductance @ 350% of rated current.

The above performance indicates that even at very substantial overload conditions (even beyond what other equipment in the circuit could tolerate), the RM Line Reactor will still provide current limiting performance against total harmonic distortion generated by the drive system.

**TEMPERATURE RISE:**

115° C on units up to 160 amps; average ambient of 40°C.  
115° C on units larger than 160 amps; average ambient of 60° C.

**INSULATION SYSTEM:**

200° C Temperature Class up to 160 amps  
220° C Temperature Class over 160 amps

**FREQUENCY:**

60 Hz Fundamental Current Maximum.

**COOLING METHOD:**

Natural convection

**SYSTEM VOLTAGE:**

600 Volts Maximum

**APPROVALS:**

UL File No.: E61431  
CSA File No.: LR 3902

**SOUND LEVEL:**

|                  |        |
|------------------|--------|
| 2 to 18 amps:    | 58 dBA |
| 130 to 320 amps: | 70 dBA |
| 25 to 100 amps:  | 64 dBA |
| 400 to 600 amps: | 75 dBA |

**ENCLOSURE: (when specified)**

Type 2 or type 3R

**HARMONIC WITHSTAND:**

HPS DV/DT filters are designed to withstand harmonics associated with the output side of variable speed drives including IGBT type inverters.

**SWITCHING FREQUENCY:**

2.5 KHz up to 20 KHz.



## "RC" DV/DT Filter Selection

### SELECTION GUIDELINES

HPS RC filters are current rated devices. Therefore, to properly size and select the correct unit for your application, it is necessary to know the total motor load on the inverter. All RC filters are designed to be located next to the output terminals of the drive with symmetrical configured three phase cable used to connect the RC filter to the motor. Placement of these filters anywhere else will negatively impact the units performance.

The DV/DT filters have had the reactor selected in such a manner that the 3% impedance is approximately maintained at both the 600 and 480 system voltage level. Utilizing a 3% reactor provides optimum performance and protection for the motor. Using smaller impedance reactors will not protect against the same current peaks and motor performance would therefore be diminished.

**DV/DT Filter Part Number Guide**

**RC 0002 M 32 \***

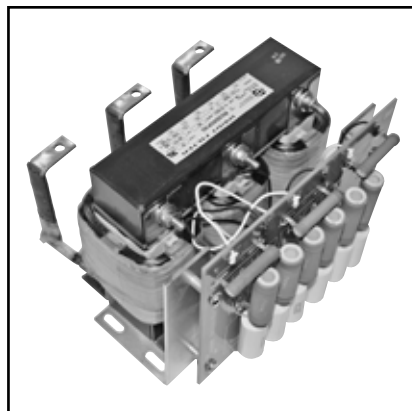
Further suffix to follow.  
Add suffix "E" for Enclosure.

Inductance Value  
The inductance value is preceded with a letter to designate the position of the decimal point to determine the inductance. The letters are as follows:

|     |                    |
|-----|--------------------|
| 'M' | XX. mH             |
| 'N' | X.X mH             |
| 'P' | 0.XX mH            |
| 'U' | .0XX mH or XX.0 uH |

Example: M32 is 32.0 mH  
4 digits for current rating DV/DT Filter

**Note:** As all characters of the P/N represent performance values of the reactor, P/N's are not completely sequential. They are sorted by current rating.



\* Add the Suffix "E" to the standard part number below for an Enclosed unit.

### "RC" DV/DT FILTER SELECTION TABLE FOR 600V OR 480V, 3% IMPEDANCE, 60 Hz

| Current (Amps) | Part Number | Inductance | Watts Loss | Dimensions |      |       |         |        | Mtg Slot/Hole Size | Dim. Fig. # (Page 126) | Encl. Fig. # | Weight (Lbs.) | Enclosed Weight (Lbs.) |
|----------------|-------------|------------|------------|------------|------|-------|---------|--------|--------------------|------------------------|--------------|---------------|------------------------|
|                |             |            |            | W          | D    | H     | Mtg. W  | Mtg. D |                    |                        |              |               |                        |
| 2              | RC0002M12   | 12.0       | 62         | 9.00       | 6.18 | 7.40  | 8.25    | 2      | .28 x .88          | 7                      | N1           | 4             | 11                     |
| 4              | RC0004N65   | 6.50       | 68         | 9.00       | 6.18 | 7.40  | 8.25    | 2      | .28 x .88          | 7                      | N1           | 5             | 12                     |
| 8              | RC0008N30   | 3.00       | 80         | 9.00       | 6.18 | 7.40  | 8.25    | 2      | .28 x .88          | 7                      | N1           | 5             | 12                     |
| 12             | RC0012N25   | 2.50       | 81         | 9.00       | 6.18 | 7.40  | 8.25    | 2      | .28 x .88          | 8                      | N1           | 10            | 17                     |
| 18             | RC0018N15   | 1.50       | 84         | 9.00       | 6.18 | 7.40  | 8.25    | 2      | .28 x .88          | 8                      | N1           | 11            | 18                     |
| 25             | RC0025N12   | 1.20       | 99         | 9.00       | 6.18 | 7.40  | 8.25    | 2      | .28 x .88          | 8                      | N1           | 12            | 19                     |
| 35             | RC0035P80   | 0.80       | 106        | 9.00       | 6.18 | 7.40  | 8.25    | 2      | .28 x .88          | 9                      | N2           | 19            | 36                     |
| 45             | RC0045P70   | 0.70       | 119        | 9.00       | 6.42 | 7.40  | 8.25    | 2      | .28 x .88          | 9                      | N2           | 24            | 41                     |
| 55             | RC0055P50   | 0.50       | 130        | 9.00       | 6.27 | 7.40  | 8.25    | 2      | .28 x .88          | 10                     | N2           | 28            | 45                     |
| 80             | RC0080P40   | 0.40       | 193        | 9.00       | 7.83 | 7.40  | 8.25    | 2      | .28 x .88          | 10                     | N2           | 38            | 55                     |
| 110            | RC0110P30   | 0.30       | 423        | 14.0       | 8.70 | 11.62 | 3.6/4.8 | 4.20   | .44 X 1.25         | 11                     | NH5          | 55            | 95                     |
| 130            | RC0130P20   | 0.20       | 415        | 14.0       | 8.20 | 11.62 | 3.6/4.8 | 3.73   | .44 X 1.25         | 11                     | NH5          | 44            | 88                     |
| 160            | RC0160P15   | 0.15       | 429        | 14.0       | 8.70 | 11.62 | 3.6/4.8 | 4.23   | .44 X 1.25         | 11                     | NH5          | 49            | 89                     |
| 200            | RC0200P11   | 0.11       | 414        | 14.0       | 9.23 | 11.62 | 3.6/4.8 | 4.23   | .44 X 1.25         | 11                     | NH6          | 55            | 115                    |
| 250            | RC0250U90   | 0.090      | 431        | 14.0       | 9.73 | 11.62 | 3.6/4.8 | 4.70   | .44 X 1.25         | 11                     | NH6          | 68            | 128                    |
| 320            | RC0320U75   | 0.075      | 484        | 14.4       | 9.50 | 11.43 | 4.80    | 5.94   | .44 X 1.00         | 12                     | NH6          | 90            | 150                    |
| 400            | RC0400U61   | 0.061      | 477        | 14.4       | 11.5 | 11.43 | 4.80    | 6.44   | .44 X 1.00         | 12                     | NH6          | 118           | 178                    |
| 500            | RC0500U50   | 0.05       | 496        | 14.4       | 11.5 | 11.43 | 4.80    | 6.44   | .44 X 1.00         | 12                     | NH3          | 154           | 231                    |
| 600            | RC0600U40   | 0.040      | 523        | 14.4       | 12.0 | 11.43 | 4.80    | 6.94   | .44 X 1.00         | 12                     | NH4          | 180           | 287                    |

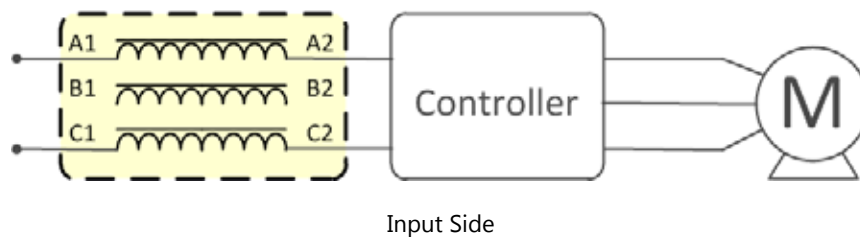
**Note:** Please refer to pages 264 to 269 for enclosure dimensional specifications



# Connection Diagrams

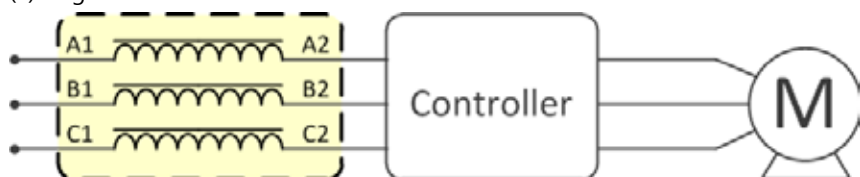
## Single Phase

(a) single motor

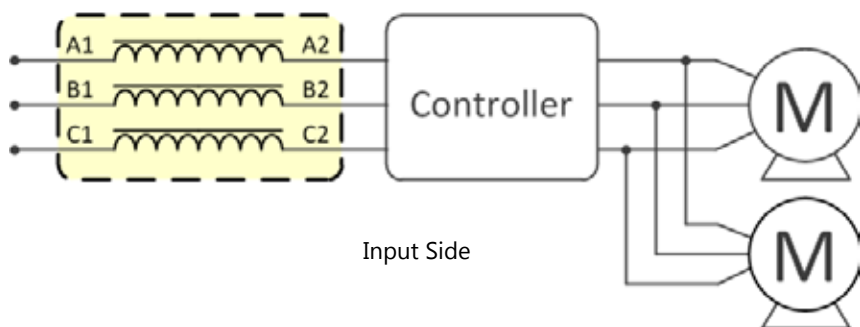


## Three Phase

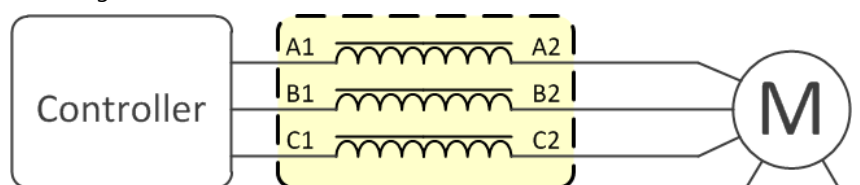
(a) single motor



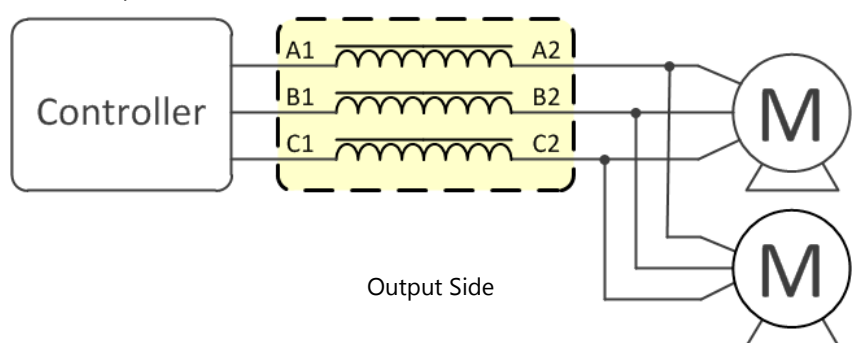
(b) multiple motors



(a) single motor



(b) multiple motors

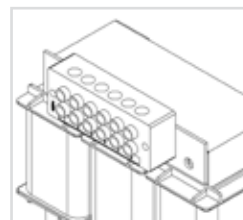
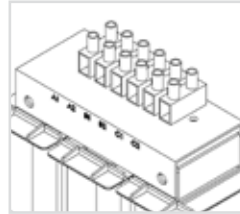


# Termination Details

## HPS Centurion® R

| Termination Style Ref # | Suitable For          | Amps |
|-------------------------|-----------------------|------|
| 1                       | 18-14 AWG             | 9    |
| 2                       | 13-10 AWG             | 27   |
| 3                       | 4-14 AWG              | 64   |
| 4                       | 1/4 inch hardware     | 110  |
| 5                       | 3/8 inch hardware     | 472  |
| 6                       | 1/2 inch hardware     | 840  |
| 7                       | 4 x 1/2 inch hardware | 1200 |

Ref. #1, 2, 3

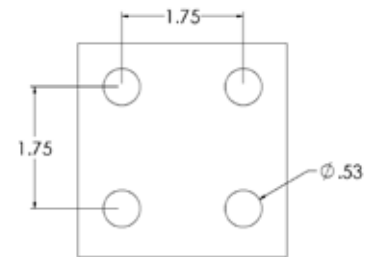


Use applicable terminal block

Ref. #4, 5, 6



Ref. #7



## HPS RM Series

| Connector Detail |                |                         |
|------------------|----------------|-------------------------|
| Open Style Ref.  | Type           | Range/Dia.              |
| Figure #1        | Terminal Block | #12 - #22               |
| Figure #2        | Terminal Block | #4 - #18                |
| Figure #3        | Terminal Block | #4 - #18                |
| All Others:      |                |                         |
| 80 to 200 amps   | Terminal Pad   | .313" dia. (diagram 1A) |
| Above 200 amps   | Terminal Pad   | .5" dia. (diagram 1B)   |

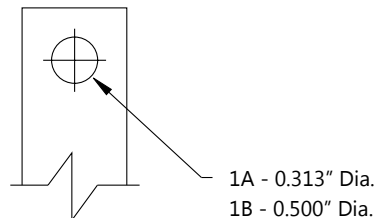


DIAGRAM 1



## HPS Centurion R Core &amp; Coil Reference Drawings

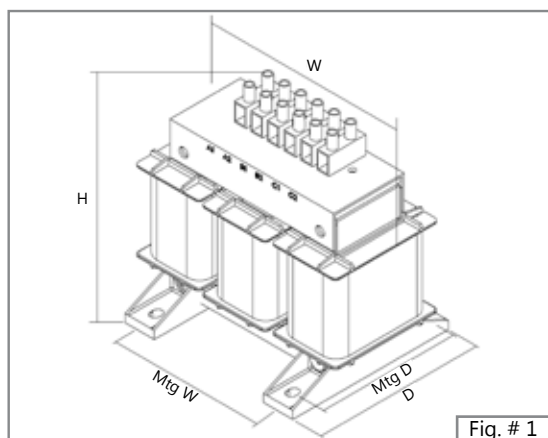


Fig. # 1

**Mounting hardware**

(not included)

4 pcs - 1/4 in. bolts  
 4 pcs - 1/4 in. nuts  
 8 pcs - 1/4 in. flat washers  
 4 pcs - 1/4 in. lock washers  
 Max. tightening torque: 5.5 ft-lb

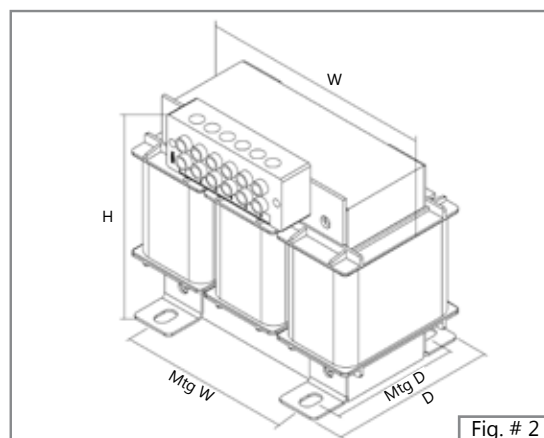


Fig. # 2

**Mounting hardware**

(not included)

4 pcs - 5/16 in. bolts  
 4 pcs - 5/16 in. nuts  
 8 pcs - 5/16 in. flat washers  
 4 pcs - 5/16 in. lock washers  
 Max. tightening torque: 18 ft-lb

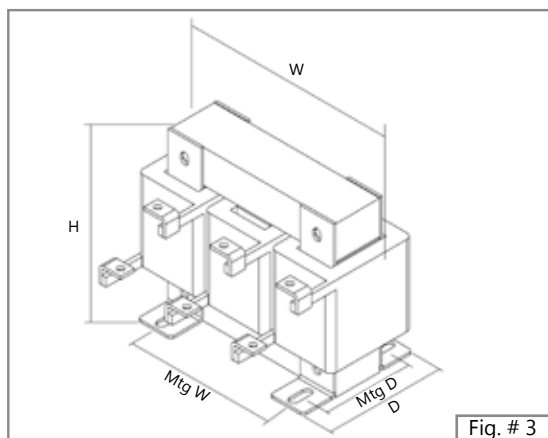


Fig. # 3

**Mounting hardware**  
(not included)

**.38x.5 slot**  
**.44x1.0 slot**

|                        |          |          |
|------------------------|----------|----------|
| 4 pcs bolts            | 5/16 in. | 3/8 in.  |
| 4 pcs nuts             | 5/16 in. | 3/8 in.  |
| 8 pcs flat washers     | 5/16 in. | 3/8 in.  |
| 4 pcs lock washers     | 5/16 in. | 3/8 in.  |
| Max. tightening torque | 18 ft-lb | 28 ft-lb |

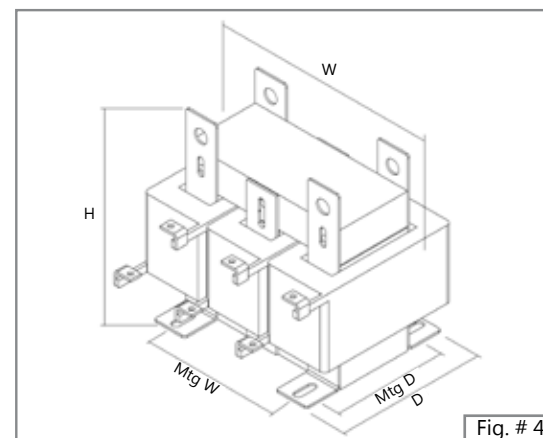


Fig. # 4

**Mounting hardware**

(not included)

4 pcs - 3/8 in. bolts  
 4 pcs - 3/8 in. nuts  
 8 pcs - 3/8 in. flat washers  
 4 pcs - 3/8 in. lock washers  
 Max. tightening torque: 28 ft-lb

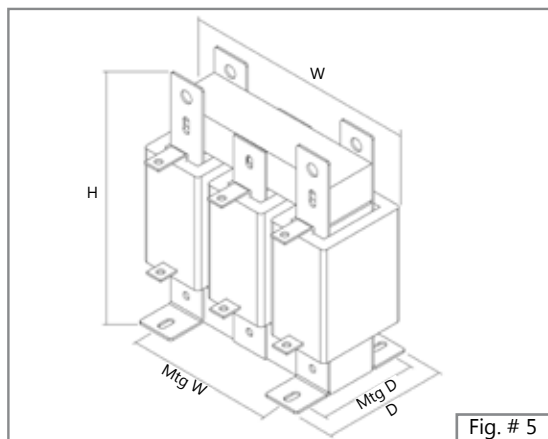


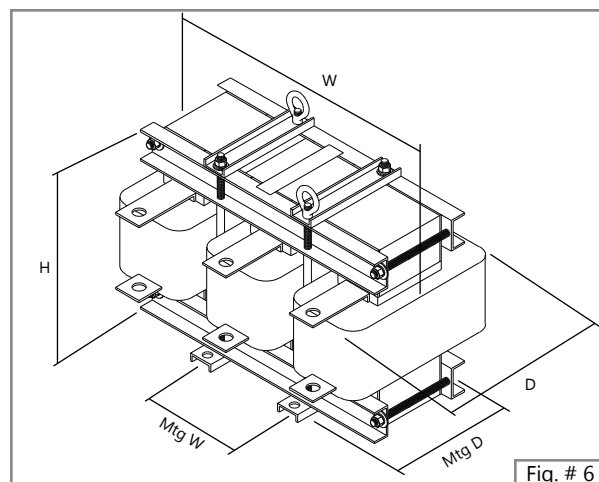
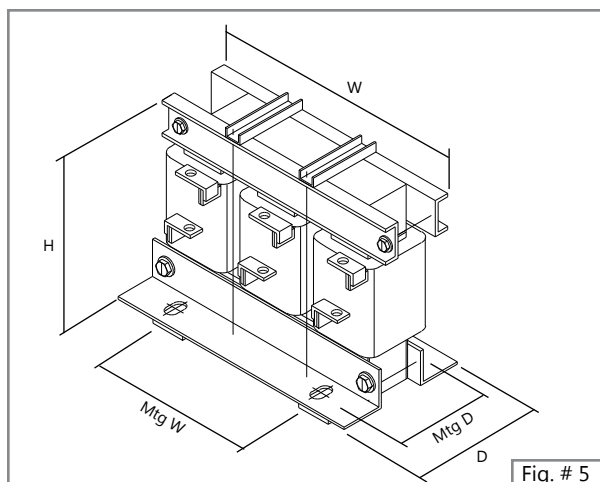
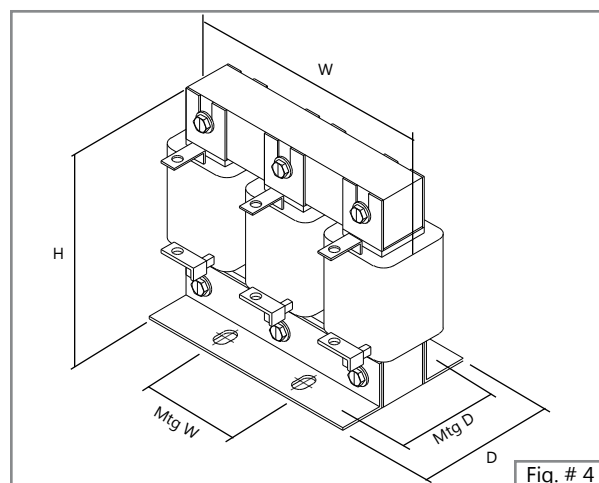
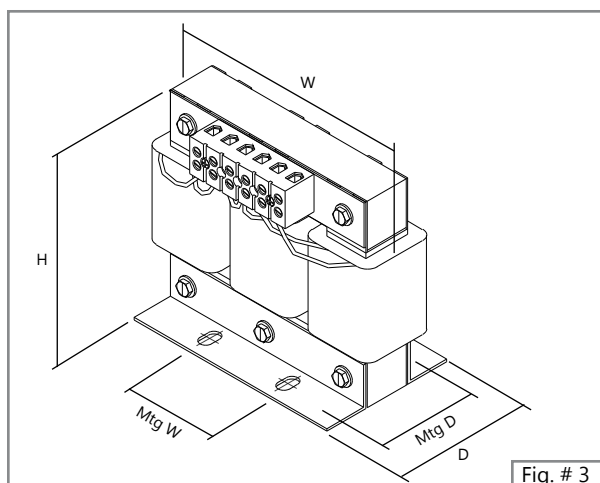
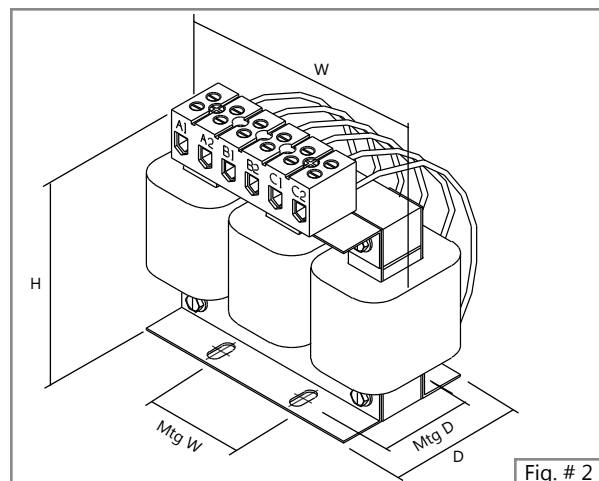
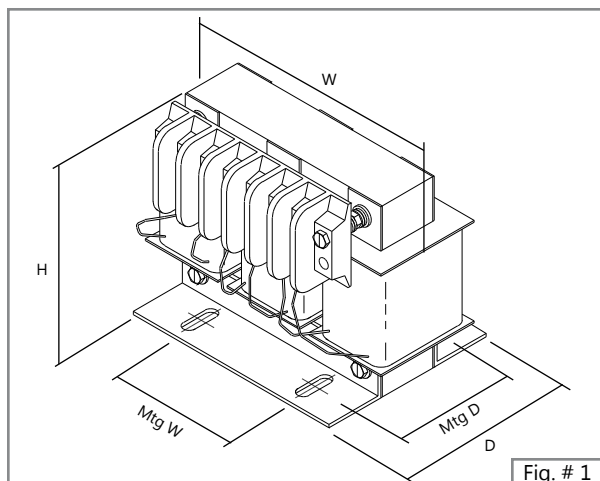
Fig. # 5

**Mounting hardware**

(not included)

4 pcs - 3/8 in. bolts  
 4 pcs - 3/8 in. nuts  
 8 pcs - 3/8 in. flat washers  
 4 pcs - 3/8 in. lock washers  
 Max. tightening torque: 28 ft-lb

# RM Reactor Core & Coil Reference Drawings



## RC DV/DT Filter Core &amp; Coil Reference Drawings

