

The RM Line Reactor . . .

CORE

The quality and performance of a line 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 RM line. Choice of conductors, winding techniques and cooling ducts are precisely selected to assure the highest continuous, reliable performance.

INSULATION SYSTEM

HPS Line Reactors are designed to meet the most difficult temperature environments. On units up to 160 amps, RM line reactors have a 115°C temperature rise designed for 200°C Insulation Class. This results in a permissible 24 hour maximum ambient of 50°C and an average of 40°C continuously.

On units larger than 160 amps, Class 220 Insulation is used throughout with a maximum permissible continuous ambient temperature of 60°C. These temperature tests are all measured at

150% rated 60 Hz current. The extra 50% current during the temperature test is to consider the worst heating effect due to the present of harmonics in the motor drive system. Generally harmonic heating effect is approximately 30% and depends on individual drive system. 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 three 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.

... Features of Construction

ENCLOSURES

Enclosed reactors are standard as either NEMA 2 or 3R. Units in NEMA 3R enclosures are suitable for floor or wall mounting. Wall mounting is available on NEMA 3R units up to 600 lbs. Please consult customer service for details.

Enclosures are finished with a 7 stage phosphate process with baked enamel ANSI 61 grey.



QUALITY CONTROL

Every reactor is production line tested in accordance with the requirements for UL, ANSI, NEMA and CSA. This confirms that every unit meets our highest expectations for Quality Assurance.

Additionally, line reactors have been short circuit tested at a certified laboratory to confirm the withstandability of our reactors to short circuits that may be present in a distribution system. Tests were done in accordance with ANSI C57.12.91 at 25 times rated current for 2 seconds. Those test results are available upon request successfully withstanding this test ensured that the RM line reactor will survive power stresses such as short circuits that may be present in a distribution circuit.

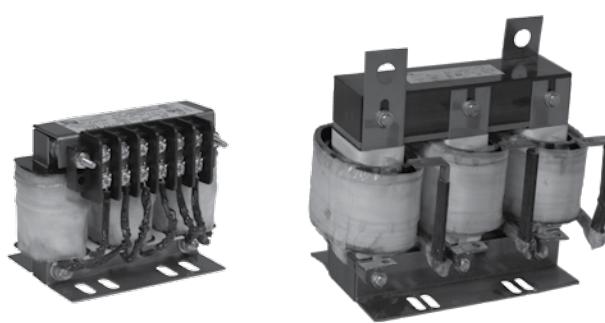
UL and CSA CERTIFICATION

A vital assurance for our customers is the approval of this product line to national standards.

Our open and enclosed style reactors are recognized by UL and certified by CSA as follows:

UL File No.: E61431

CSA File No.: LR3902



This approval is inclusive to 2000 amps and 8.6 kV class, and may be of interest for any special applications.

Our products are built in accordance with and meet UL 508, UL 506 and CSA C22.2 NO.66 standards.

INPUT AND OUTPUT SIDE REACTORS

HPS three phase Line 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.



Standard Three Phase Line Reactor 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:

600V Class

APPROVALS:

UL File No.: E61431
 CSA File No.: LR 3902
 CE Mark (IEC 61558-2-20:2000)

SOUND LEVEL:

2 to 18 amps: 58 dBA
 130 to 320 amps: 70 dBA
 25 to 100 amps: 64 dBA
 400 to 1200 amps: 75 dBA

ENCLOSURE: (when specified)

NEMA 2 or NEMA 3R, ANSI 61 Grey, UL50

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.



RM Series Line Reactor Selection Tables

| Line Reactor Part Number Guide | | | |
|--|-------------------------------|----|---|
| RM 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 | | | |
| In-Line Reactor | | | |

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 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 |

SECTION 3

LINE REACTORS

SECTION 3

| HP 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 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 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 |



SECTION 3

RM SERIES

Standard Three Phase Line Reactor Core & Coil Specification Charts

| Current (Amps) | Part Number | Inductance (mH) | Watts Loss | Dimensions | | | | | Mtg Slot/ Hole Size | Dim. Fig. # (Page 117) | Weight (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 |
| 2 | RM0002M20 | 20.0 | 9 | 4.40 | 2.83 | 3.33 | 1.44/2.56 | 1.77 | .281 x .625 | 1 | 3 |
| 2 | 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 |
| 4 | RM0004M22 | 22.0 | 25 | 6.00 | 3.30 | 4.80 | 2.00/3.00 | 2.09 | .281 x .625 | 3 | 8 |
| 4 | RM0004N30 | 3.00 | 7 | 4.40 | 2.83 | 3.33 | 1.44/2.56 | 1.77 | .281 x .625 | 1 | 2 |
| 4 | RM0004N65 | 6.50 | 13 | 4.40 | 2.83 | 3.33 | 1.44/2.56 | 1.77 | .281 x .625 | 1 | 3 |
| 4 | 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 |
| 8 | RM0008N30 | 3.00 | 25 | 4.40 | 2.83 | 3.33 | 2.00 | 1.77 | .281 x .625 | 1 | 3 |
| 8 | RM0008N50 | 5.00 | 31 | 4.40 | 3.33 | 3.33 | 2.00 | 2.37 | .281 x .625 | 1 | 4 |
| 8 | 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 |
| 12 | RM0012N25 | 2.50 | 26 | 6.00 | 3.30 | 4.80 | 2.00/3.00 | 2.09 | .281 x .625 | 3 | 8 |
| 12 | RM0012N31 | 3.10 | 30 | 6.00 | 3.55 | 4.80 | 2.00/3.00 | 2.34 | .281 x .625 | 3 | 9 |
| 12 | RM0012N42 | 4.20 | 34 | 6.00 | 3.80 | 4.80 | 2.00/3.00 | 2.59 | .281 x .625 | 3 | 10 |
| 12 | 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 |
| 18 | RM0018N25 | 2.50 | 40 | 6.00 | 3.84 | 4.80 | 2.00/3.00 | 2.84 | .281 x .625 | 2 | 13 |
| 18 | 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 |
| 25 | RM0025N20 | 2.00 | 59 | 7.15 | 3.75 | 5.60 | 3.00 | 2.87 | .38 x .63 | 3 | 18 |
| 25 | 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 |
| 35 | RM0035N17 | 1.70 | 90 | 8.60 | 4.87 | 6.93 | 3.00/4.20 | 3.62 | .44 X 1.00 | 3 | 35 |
| 35 | RM0035P40 | 0.40 | 36 | 6.00 | 3.34 | 5.70 | 2.00/3.00 | 2.34 | .281 x .625 | 2 | 9 |
| 35 | 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 |
| 45 | RM0045P30 | 0.30 | 33 | 6.00 | 3.84 | 5.70 | 2.00/3.00 | 2.84 | .281 x .625 | 2 | 13 |
| 45 | 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 |
| 55 | RM0055P50 | 0.50 | 75 | 8.50 | 4.37 | 6.88 | 3.00/4.20 | 3.12 | .44 X 1.00 | 3 | 26 |
| 55 | 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 |
| 80 | RM0080P23 | 0.23 | 70 | 8.50 | 4.87 | 6.88 | 3.00/4.20 | 3.62 | .44 X 1.00 | 4 | 33 |
| 80 | RM0080P40 | 0.40 | 138 | 9.40 | 5.94 | 6.95 | 3.00/4.20 | 3.62 | .44 X 1.00 | 4 | 36 |
| 80 | 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 |
| 110 | RM0110P18 | 0.18 | 95 | 8.50 | 4.87 | 6.88 | 3.00/4.20 | 3.62 | .44 X 1.00 | 4 | 35 |
| 110 | RM0110P30 | 0.30 | 123 | 10.70 | 5.85 | 8.35 | 3.60/4.80 | 4.23 | .44 X 1.25 | 4 | 52 |
| 110 | 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 |
| 130 | RM0130P20 | 0.20 | 115 | 10.70 | 6.20 | 8.35 | 3.60/4.80 | 3.73 | .44 X 1.25 | 4 | 41 |
| 130 | RM0130P30 | 0.30 | 142 | 10.70 | 5.85 | 8.29 | 3.60/4.80 | 4.23 | .44 X 1.25 | 4 | 53 |
| 130 | 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 |
| 160 | RM0160P23 | 0.23 | 142 | 10.90 | 6.35 | 8.29 | 3.60/4.80 | 4.73 | .44 X 1.25 | 4 | 66 |
| 160 | RM0160P32 | 0.32 | 141 | 10.50 | 8.35 | 8.29 | 3.60/4.80 | 6.73 | .44 X 1.25 | 4 | 104 |
| 160 | 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 & Coil Specification Charts

| Current (Amps) | Part Number | Inductance (mH) | Watts Loss | Dimensions | | | | | Mtg Slot/Hole Size | Dim. Fig. # (Page 117) | Weight (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 |
| 200 | RM0200P19 | 0.190 | 138 | 10.50 | 9.53 | 8.29 | 3.60/4.80 | 6.23 | .44 X 1.25 | 4 | 93 |
| 200 | RM0200P24 | 0.240 | 164 | 10.50 | 8.35 | 8.29 | 3.60/4.80 | 6.73 | .44 X 1.25 | 4 | 105 |
| 200 | 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 |
| 250 | RM0250P19 | 0.190 | 203 | 13.75 | 7.25 | 11.43 | 4.80 | 5.94 | .44 X 1.00 | 5 | 137 |
| 250 | RM0250U45 | 0.045 | 90 | 10.50 | 5.35 | 8.31 | 3.60/4.80 | 3.73 | .44 X 1.25 | 4 | 40 |
| 250 | 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 |
| 320 | RM0320P16 | 0.160 | 270 | 13.75 | 8.25 | 11.43 | 4.80 | 6.44 | .44 X 1.00 | 5 | 146 |
| 320 | RM0320U40 | 0.040 | 94 | 10.50 | 6.85 | 8.29 | 3.60/4.80 | 5.23 | .44 X 1.25 | 4 | 69 |
| 320 | RM0320U75 | 0.075 | 184 | 13.75 | 8.44 | 11.43 | 4.80 | 5.94 | .44 X 1.00 | 5 | 87 |
| 320 | 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 |
| 400 | RM0400P14 | 0.14 | 305 | 18.00 | 11.00 | 14.00 | 6.00 | 8.25 | 0.563 | 6 | 253 |
| 400 | RM0400U30 | 0.030 | 130 | 10.50 | 6.35 | 8.29 | 3.60/4.80 | 4.73 | .44 X 1.25 | 4 | 61 |
| 400 | RM0400U61 | 0.061 | 177 | 13.75 | 8.69 | 11.43 | 4.80 | 5.44 | .44 X 1.00 | 5 | 115 |
| 400 | 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 |
| 500 | RM0500U50 | 0.05 | 196 | 13.75 | 9.69 | 11.43 | 4.80 | 6.44 | .44 X 1.00 | 5 | 151 |
| 500 | RM0500U57 | 0.057 | 217 | 13.75 | 9.63 | 11.43 | 4.80 | 6.94 | .44 X 1.00 | 5 | 168 |
| 500 | RM0500U85 | 0.085 | 280 | 13.75 | 9.75 | 11.43 | 4.80 | 8.44 | .44 X 1.00 | 5 | 225 |
| 500 | RM0500U96 | 0.096 | 317 | 22.00 | 10.75 | 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 |
| 600 | RM0600U40 | 0.040 | 223 | 13.75 | 8.25 | 11.43 | 4.80 | 6.94 | .44 X 1.00 | 5 | 177 |
| 600 | RM0600U65 | 0.065 | 290 | 13.75 | 9.75 | 11.43 | 4.80 | 8.44 | .44 X 1.00 | 5 | 230 |
| 600 | 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 |
| 700 | 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 |
| 750 | RM0750U25 | 0.025 | 250 | 18.00 | 9.25 | 14.00 | 6.00 | 7.25 | 0.563 | 6 | 184 |
| 750 | RM0750U36 | 0.036 | 293 | 18.00 | 9.75 | 14.00 | 6.00 | 7.75 | 0.563 | 6 | 236 |
| 750 | 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 |
| 900 | RM0900U26 | 0.026 | 286 | 18.00 | 13.00 | 14.00 | 6.00 | 8.25 | 0.56 | 6 | 259 |
| 900 | RM0900U32 | 0.032 | 400 | 18.00 | 13.63 | 14.00 | 6.00 | 10.25 | 0.75 | 6 | 340 |
| 900 | RM0900U43 | 0.043 | 441 | 22.50 | 14.00 | 20.50 | 7.50 | 8.75 | 0.75 | 6 | 434 |
| 900 | RM0900U53 | 0.053 | 490 | 22.50 | 13.00 | 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 |
| 1000 | RM1000U18 | 0.018 | 232 | 22.50 | 13.75 | 20.50 | 7.50 | 11 | 0.75 | 6 | 282 |
| 1000 | RM1000U29 | 0.029 | 377 | 22.50 | 13.75 | 20.50 | 7.50 | 7.25 | 0.75 | 6 | 394 |
| 1000 | RM1000U38 | 0.038 | 416 | 22.50 | 14.00 | 20.50 | 7.50 | 10.25 | 0.56 | 6 | 450 |
| 1000 | 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 |
| 1200 | RM1200U15 | 0.015 | 287 | 18.00 | 14.00 | 18.50 | 6.00 | 10.75 | 0.75 | 6 | 300 |
| 1200 | RM1200U18 | 0.018 | 395 | 18.00 | 14.25 | 18.38 | 7.50 | 8.25 | 0.75 | 6 | 343 |
| 1200 | RM1200U24 | 0.024 | 440 | 22.50 | 14.00 | 20.50 | 7.50 | 9.25 | 0.75 | 6 | 444 |
| 1200 | RM1200U30 | 0.030 | 490 | 22.50 | 14.00 | 17.00 | 7.50 | 10.25 | 0.75 | 6 | 534 |
| 1200 | 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 (Amps) | Part Number | Inductance (mH) | Watts Loss | Dimensions | | | | | Mtg Slot/ Hole Size | Dim. Fig. # (Page 117) | Case Style | Enclosed Weight (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 |
| 2 | RM0002M20E | 20.0 | 9 | 10.00 | 8.00 | 8.00 | 7.00 | 6.50 | 0.188 | 1 | N1 | 10 |
| 2 | 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 |
| 4 | RM0004M22E | 22.0 | 25 | 10.00 | 8.00 | 8.00 | 7.00 | 6.50 | 0.188 | 3 | N1 | 15 |
| 4 | RM0004N30E | 3.00 | 7 | 10.00 | 8.00 | 8.00 | 7.00 | 6.50 | 0.188 | 1 | N1 | 9 |
| 4 | RM0004N65E | 6.50 | 13 | 10.00 | 8.00 | 8.00 | 7.00 | 6.50 | 0.188 | 1 | N1 | 10 |
| 4 | 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 |
| 8 | RM0008N30E | 3.00 | 25 | 10.00 | 8.00 | 8.00 | 7.00 | 6.50 | 0.188 | 1 | N1 | 10 |
| 8 | RM0008N50E | 5.00 | 31 | 10.00 | 8.00 | 8.00 | 7.00 | 6.50 | 0.188 | 1 | N1 | 11 |
| 8 | 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 |
| 12 | RM0012N25E | 2.50 | 26 | 10.00 | 8.00 | 8.00 | 7.00 | 6.50 | 0.188 | 3 | N1 | 15 |
| 12 | RM0012N31E | 3.10 | 30 | 10.00 | 8.00 | 8.00 | 7.00 | 6.50 | 0.188 | 3 | N1 | 16 |
| 12 | RM0012N42E | 4.20 | 34 | 10.00 | 8.00 | 8.00 | 7.00 | 6.50 | 0.188 | 3 | N1 | 17 |
| 12 | 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 |
| 18 | RM0018N25E | 2.50 | 40 | 10.00 | 8.00 | 8.00 | 7.00 | 6.50 | 0.188 | 2 | N1 | 20 |
| 18 | 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 |
| 25 | RM0025N20E | 2.00 | 59 | 14.00 | 14.00 | 12.00 | 10.00 | 10.50 | 0.188 | 3 | N2 | 35 |
| 25 | 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 |
| 35 | RM0035N17E | 1.70 | 90 | 14.00 | 14.00 | 12.00 | 10.00 | 10.50 | 0.188 | 3 | N2 | 52 |
| 35 | RM0035P40E | 0.40 | 36 | 10.00 | 8.00 | 8.00 | 7.00 | 6.50 | 0.188 | 2 | N1 | 16 |
| 35 | 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 |
| 45 | RM0045P30E | 0.30 | 33 | 10.00 | 8.00 | 8.00 | 7.00 | 6.50 | 0.188 | 2 | N1 | 20 |
| 45 | 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 |
| 55 | RM0055P50E | 0.50 | 75 | 14.00 | 14.00 | 12.00 | 10.00 | 10.50 | 0.188 | 3 | N2 | 43 |
| 55 | 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 |
| 80 | RM0080P23E | 0.23 | 70 | 14.00 | 14.00 | 12.00 | 10.00 | 10.50 | 0.188 | 4 | N2 | 50 |
| 80 | RM0080P40E | 0.40 | 138 | 14.00 | 14.00 | 12.00 | 10.00 | 10.50 | 0.188 | 4 | N2 | 53 |
| 80 | 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 |
| 110 | RM0110P18E | 0.18 | 95 | 14.00 | 14.00 | 12.00 | 10.00 | 10.50 | 0.188 | 4 | N2 | 52 |
| 110 | RM0110P30E | 0.30 | 123 | 14.00 | 14.00 | 12.00 | 10.00 | 10.50 | 0.188 | 4 | N2 | 69 |
| 110 | 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 |
| 130 | RM0130P20E | 0.20 | 115 | 14.00 | 14.00 | 12.00 | 10.00 | 10.50 | 0.188 | 4 | N2 | 58 |
| 130 | RM0130P30E | 0.30 | 142 | 14.00 | 14.00 | 12.00 | 10.00 | 10.50 | 0.188 | 4 | N2 | 70 |
| 130 | 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 |
| 160 | RM0160P23E | 0.23 | 142 | 14.00 | 14.00 | 12.00 | 10.00 | 10.50 | 0.188 | 4 | N2 | 83 |
| 160 | RM0160P32E | 0.32 | 141 | 23.90 | 25.00 | 28.75 | 22.75 | 9.00 | 0.56 | 4 | NH6 | 164 |
| 160 | RM0160U75E | 0.08 | 100 | 14.00 | 14.00 | 12.00 | 10.00 | 10.50 | 0.188 | 4 | N2 | 46 |

Note: Please refer to Pages 260 to 264 for enclosure dimensional specifications

All dimensions in inches



Standard Three Phase Line Reactor Enclosed Specification Charts

| Current (Amps) | Part Number | Inductance (mH) | Watts Loss | Dimensions | | | | | Mtg Slot/ Hole Size | Dim. Fig. # (Page 117) | Case Style | Enclosed Weight (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 |
| 200 | RM0200P19E | 0.190 | 138 | 23.90 | 25.00 | 28.75 | 22.75 | 9.00 | 0.56 | 4 | NH6 | 153 |
| 200 | RM0200P24E | 0.240 | 164 | 19.40 | 20.20 | 21.50 | 18.00 | 9.00 | 0.56 | 4 | NH5 | 165 |
| 200 | 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 |
| 250 | RM0250P19E | 0.190 | 203 | 23.90 | 25.00 | 28.75 | 22.75 | 9.00 | 0.56 | 5 | NH6 | 197 |
| 250 | RM0250U45E | 0.045 | 90 | 23.90 | 25.00 | 28.75 | 22.75 | 9.00 | 0.56 | 4 | NH6 | 100 |
| 250 | 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 |
| 320 | RM0320P16E | 0.160 | 270 | 23.90 | 25.00 | 28.75 | 22.75 | 9.00 | 0.56 | 5 | NH6 | 206 |
| 320 | RM0320U40E | 0.040 | 94 | 23.90 | 25.00 | 28.75 | 22.75 | 9.00 | 0.56 | 4 | NH6 | 129 |
| 320 | RM0320U75E | 0.075 | 184 | 23.90 | 25.00 | 28.75 | 22.75 | 9.00 | 0.56 | 5 | NH6 | 147 |
| 320 | 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 |
| 400 | RM0400P14E | 0.14 | 305 | 23.90 | 25.00 | 28.75 | 22.75 | 9.00 | 0.56 | 6 | NH6 | 313 |
| 400 | RM0400U30E | 0.030 | 130 | 23.90 | 25.00 | 28.75 | 22.75 | 9.00 | 0.56 | 4 | NH6 | 121 |
| 400 | RM0400U61E | 0.061 | 177 | 23.90 | 25.00 | 28.75 | 22.75 | 9.00 | 0.56 | 5 | NH6 | 175 |
| 400 | 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 |
| 500 | RM0500U50E | 0.05 | 196 | 23.90 | 25.00 | 28.75 | 22.75 | 9.00 | 0.56 | 5 | NH6 | 211 |
| 500 | RM0500U57E | 0.057 | 217 | 26.00 | 25.00 | 38.00 | 21.50 | 19.00 | 0.56 | 5 | NH3 | 245 |
| 500 | RM0500U85E | 0.085 | 280 | 26.00 | 25.00 | 38.00 | 21.50 | 19.00 | 0.56 | 5 | NH3 | 302 |
| 500 | 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 |
| 600 | RM0600U40E | 0.040 | 223 | 26.00 | 25.00 | 38.00 | 21.50 | 19.00 | 0.56 | 5 | NH3 | 254 |
| 600 | RM0600U65E | 0.065 | 290 | 26.00 | 25.00 | 38.00 | 21.50 | 19.00 | 0.56 | 5 | NH3 | 307 |
| 600 | 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 |
| 700 | 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 |
| 750 | RM0750U25E | 0.025 | 250 | 32.00 | 29.50 | 41.00 | 23.50 | 23.50 | 0.56 | 6 | NH4 | 291 |
| 750 | RM0750U36E | 0.036 | 293 | 32.00 | 29.50 | 41.00 | 23.50 | 23.50 | 0.56 | 6 | NH4 | 343 |
| 750 | 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 |
| 900 | RM0900U26E | 0.026 | 286 | 32.00 | 29.50 | 41.00 | 23.50 | 23.50 | 0.56 | 6 | NH4 | 366 |
| 900 | RM0900U32E | 0.032 | 400 | 32.00 | 29.50 | 41.00 | 23.50 | 23.50 | 0.56 | 6 | NH4 | 447 |
| 900 | RM0900U43E | 0.043 | 441 | 32.00 | 29.50 | 41.00 | 23.50 | 23.50 | 0.56 | 6 | NH4 | 541 |
| 900 | 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 |
| 1000 | RM1000U18E | 0.018 | 232 | 32.00 | 29.50 | 41.00 | 23.50 | 23.50 | 0.56 | 6 | NH4 | 432 |
| 1000 | RM1000U29E | 0.029 | 377 | 39.50 | 34.00 | 51.50 | 24.00 | 32.00 | 0.69 | 6 | NJ1 | 544 |
| 1000 | RM1000U38E | 0.038 | 416 | 26.00 | 25.00 | 38.00 | 21.50 | 19.00 | 0.56 | 6 | NH3 | 684 |
| 1000 | 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 |
| 1200 | RM1200U15E | 0.015 | 287 | 39.50 | 34.00 | 51.50 | 24.00 | 32.00 | 0.69 | 6 | NJ1 | 432 |
| 1200 | RM1200U18E | 0.018 | 395 | 39.50 | 34.00 | 51.50 | 24.00 | 32.00 | 0.69 | 6 | NJ1 | 493 |
| 1200 | RM1200U24E | 0.024 | 440 | 39.50 | 34.00 | 51.50 | 24.00 | 32.00 | 0.69 | 6 | NJ1 | 594 |
| 1200 | RM1200U30E | 0.030 | 490 | 39.50 | 34.00 | 51.50 | 24.00 | 32.00 | 0.69 | 6 | NJ1 | 684 |
| 1200 | RM1200U40E | 0.040 | 576 | 39.50 | 34.00 | 51.50 | 24.00 | 32.00 | 0.69 | 6 | NJ1 | 850 |

Note: Please refer to Pages 260 to 264 for enclosure dimensional specifications

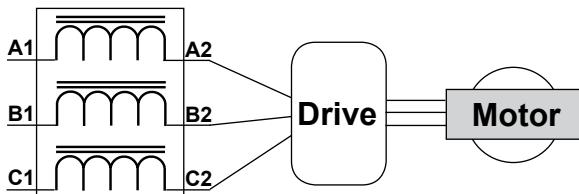
All dimensions in inches



Application and Connection Diagrams

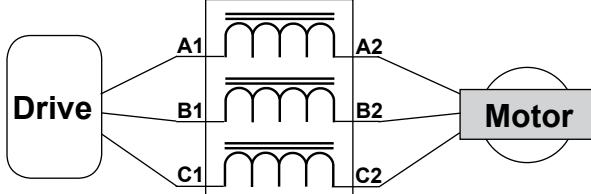
INPUT SIDE OF DRIVE

Installed on the input side of drives, reactors will reduce line notching, limit current and voltage spikes and surges from the incoming line and will reduce harmonic distortion from the drive onto the line. Units are installed in front of the drive or inverter as shown.



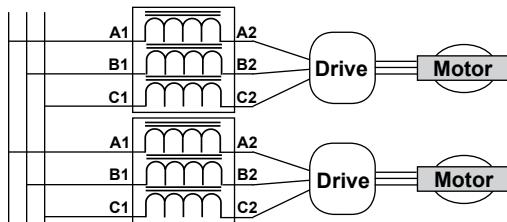
OUTPUT SIDE OF DRIVE

On the output side between the motor and the controller, reactors protect the controller from short circuits at the load. Motor performance improves. Voltage and current waveforms from the supply are enhanced reducing motor overheating and noise emissions.



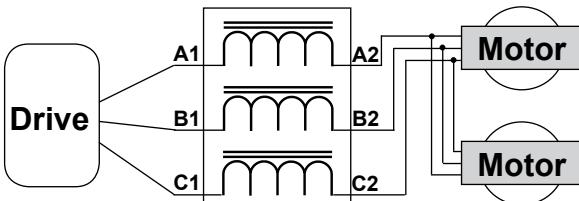
MULTIPLE DRIVES

Individual line reactors are recommended when multiple drives are installed on the same power line. Individual reactors eliminates cross talk between multiple drives and provides isolated protection for each controller for its own specific load.



MULTIPLE MOTORS

A single reactor can be installed when the application calls for multiple motors on the same drive. The reactor is sized based on the total horsepower of all the motors. Recommended for simultaneous operating motors only.



Termination Details

| 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) |

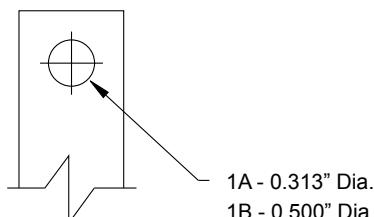


DIAGRAM 1

RM Line Reactor Cross-Reference Table

| MTE Part Number | Current (Amps) | HPS Part Number | Induct. (mH) | TCI Part Number |
|-----------------|----------------|------------------|--------------|-----------------|
| RL-00201 | 2 | RM0002M12 | 12.000 | KLR2A |
| RL-00202 | 2 | RM0002M20 | 20.000 | KLR2C |
| RL-00203 | 2 | RM0002M32 | 32.000 | * |
| RL-00404 | 4 | RM0004M12 | 12.000 | * |
| RL-00401 | 4 | RM0004N30 | 3.000 | KLR4B |
| RL-00402 | 4 | RM0004N65 | 6.500 | KLR4A |
| RL-00403 | 4 | RM0004N91 | 9.100 | KLR4C |
| RL-00801 | 8 | RM0008N15 | 1.500 | KLR8B |
| RL-00802 | 8 | RM0008N30 | 3.000 | KLR8A |
| RL-00803 | 8 | RM0008N50 | 5.000 | KLR8C |
| RL-00804 | 8 | RM0008N75 | 7.500 | * |
| RL-01201 | 12 | RM0012N13 | 1.300 | KLR12B |
| RL-01202 | 12 | RM0012N25 | 2.500 | KLR12A |
| RL-01203 | 12 | RM0012N42 | 4.200 | KLR12C |
| RL-01802 | 18 | RM0018N15 | 1.500 | KLR16A |
| RL-01803 | 18 | RM0018N25 | 2.500 | KLR16C |
| RL-01801 | 18 | RM0018P80 | 0.800 | KLR16B |
| RL-02502 | 25 | RM0025N12 | 1.200 | KLR25A |
| RL-02503 | 25 | RM0025N20 | 2.000 | KLR25C |
| RL-02501 | 25 | RM0025P50 | 0.500 | KLR25B |
| RL-03503 | 35 | RM0035N12 | 1.200 | KLR35C |
| RL-03501 | 35 | RM0035P40 | 0.400 | KLR35B |
| RL-03502 | 35 | RM0035P80 | 0.800 | KLR35A |
| RL-04503 | 45 | RM0045N12 | 1.200 | KLR45C |
| RL-04501 | 45 | RM0045P30 | 0.300 | KLR45B |
| RL-04502 | 45 | RM0045P70 | 0.700 | KLR45A |
| RL-05501 | 55 | RM0055P25 | 0.250 | KLR55B |
| RL-05502 | 55 | RM0055P50 | 0.500 | KLR55A |
| RL-05503 | 55 | RM0055P85 | 0.850 | KLR55C |

| MTE Part Number | Current (Amps) | HPS Part Number | Induct. (mH) | TCI Part Number |
|-----------------|----------------|------------------|--------------|-----------------|
| RL-08001 | 80 | RM0080P20 | 0.200 | KLR80B |
| RL-08002 | 80 | RM0080P40 | 0.400 | KLR80A |
| RL-08003 | 80 | RM0080P70 | 0.700 | KLR80C |
| RL-10001 | 100 | RM0110P15 | 0.150 | KLR110B |
| RL-10002 | 100 | RM0110P30 | 0.300 | KLR110A |
| RL-10003 | 100 | RM0110P45 | 0.450 | KLR110C |
| RL-13001 | 130 | RM0130P10 | 0.100 | KLR130B |
| RL-13002 | 130 | RM0130P20 | 0.200 | KLR130A |
| RL-13003 | 130 | RM0130P30 | 0.300 | KLR130C |
| RL-16002 | 160 | RM0160P15 | 0.150 | KLR160A |
| RL-16003 | 160 | RM0160P23 | 0.230 | KLR160C |
| RL-16001 | 160 | RM0160U75 | 0.075 | KLR160B |
| RL-20002 | 200 | RM0200P11 | 0.110 | KLR200A |
| RL-20003 | 200 | RM0200P19 | 0.190 | KLR200C |
| RL-20001 | 200 | RM0200U55 | 0.055 | KLR200B |
| RL-25003 | 250 | RM0250P15 | 0.150 | KLR250C |
| RL-25001 | 250 | RM0250U45 | 0.045 | KLR250B |
| RL-25002 | 250 | RM0250U90 | 0.090 | KLR250A |
| RL-32003 | 320 | RM0320P13 | 0.130 | KLR300C |
| RL-32001 | 320 | RM0320U40 | 0.040 | KLR300B |
| RL-32002 | 320 | RM0320U75 | 0.075 | KLR300A |
| RL-40003 | 400 | RM0400P11 | 0.110 | KLR360C |
| RL-40001 | 400 | RM0400U30 | 0.030 | KLR360B |
| RL-40002 | 400 | RM0400U61 | 0.061 | KLR360A |
| RL-50001 | 500 | RM0500U25 | 0.025 | KLR480B |
| RL-50002 | 500 | RM0500U50 | 0.050 | KLR480A |
| RL-50003 | 500 | RM0500U85 | 0.085 | KLR480C |
| RL-60001 | 600 | RM0600U20 | 0.020 | KLR600B |
| RL-60002 | 600 | RM0600U40 | 0.040 | KLR600A |
| RL-60003 | 600 | RM0600U65 | 0.065 | KLR600C |