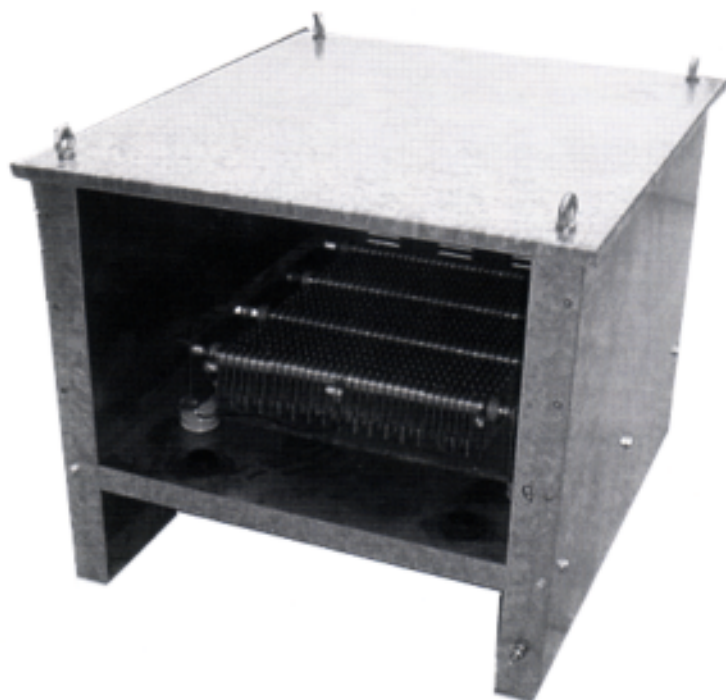


CUSTOM POWER RESISTORS SINCE 1944



## **MRC Neutral Grounding Resistors**

Milwaukee Resistor Corporation (MRC) has been designing and manufacturing resistors for energy control for 60 years.

Excellent quality, attention to detail, short leadtimes and superior customer service are the key reasons that the Industry continues to choose MRC as their preferred provider of power resistors. Now, in response to customer requests, MRC is offering a variety of Neutral Grounding Resistors for industrial applications.

*(see pages 2 and 3 for details)*

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## Application

Neutral Grounding Resistors are used for several purposes in industrial power systems:

1. To limit ground fault current and therefore limit fault damage.
2. To limit over voltages on equipment.
3. To protect people, property and equipment in the event of a short circuit.

## Features

MRC Neutral Grounding Resistors are ideal for industrial applications, featuring:

- Rugged shock-resistant construction.
- Stainless steel resistive element.
- High thermal capacity to absorb high currents.
- Louvered side covers protect the resistor from harsh weather, birds and rodents.
- Galvanized finish enables customers to use the MRC Neutral Grounding Resistor both in doors and outdoors.
- Lifting eyes provide for ease of movement.

## Design Criteria

MRC Neutral Grounding Resistors are designed to absorb a large amount of energy without exceeding temperature limitations defined in IEEE-32. The most widely used Neutral Grounding Resistors in the USA are installed on 5KV power systems at industrial facilities and rated for 400 Amps.

## Available Options

Elevated support stands that provide ground clearance and additional safety by positioning the resistors out of reach.

Current transformers mounted inside the resistor enclosure.

Porcelain entrance bushings can be mounted on top or on the side of the enclosure.

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## MRC Neutral Grounding Resistors

### Industrial Product Offering

#### 5KV Voltage Class

Part Number	System Voltage	Line-Neutral Voltage	Current (Amps)	Resistance (Ohms)	Dimensions (W x D x H)
MRC24100	4160	2400	100	24	36" x 42" x 32"
MRC24200	4160	2400	200	12	36" x 42" x 32"
MRC24400	4160	2400	400	6	36" x 42" x 32"
MRC24800	4160	2400	800	3	36" x 42" x 32"

#### Medium Voltage

Part Number	System Voltage	Line-Neutral Voltage	Current (Amps)	Resistance (Ohms)	Dimensions (W x D x H)
MRC72100	12470	7200	100	72	42" x 48" x 48"
MRC72200	12470	7200	200	36	42" x 48" x 48"
MRC72400	12470	7200	400	18	42" x 48" x 48"
MRC72800	12470	7200	800	9	42" x 48" x 48"

Part Number	System Voltage	Line-Neutral Voltage	Current (Amps)	Resistance (Ohms)	Dimensions (W x D x H)
MRC76100	13200	7620	100	76	42" x 48" x 48"
MRC76200	13200	7620	200	38	42" x 48" x 48"
MRC76400	13200	7620	400	19	42" x 48" x 48"
MRC76800	13200	7620	800	9.5	42" x 48" x 48"

Part Number	System Voltage	Line-Neutral Voltage	Current (Amps)	Resistance (Ohms)	Dimensions (W x D x H)
MRC80100	13800	8000	100	80	42" x 48" x 48"
MRC80200	13800	8000	200	40	42" x 48" x 48"
MRC80400	13800	8000	400	20	42" x 48" x 48"
MRC80800	13800	8000	800	10	42" x 48" x 48"

All of the above Neutral Grounding Resistors are designed for a maximum 'time-on' of 10 seconds and a maximum temperature rise of 760C as defined in IEEE 32.

# MRC Neutral Grounding Resistors

## Selection & Proposal Details

For your convenience, you can fax the attached to our sales department and one of our friendly customer service representatives will provide you with a complete and timely proposal.

### Electrical Characteristics

System voltage \_\_\_\_\_

Line-Neutral Voltage \_\_\_\_\_

Desired Current Rating \_\_\_\_\_

Desired Resistance Level \_\_\_\_\_

Short time rating \_\_\_\_\_

### Connection Details

Standard Entry/Exit in Bottom \_\_\_\_\_

Top or side entrance bushing \_\_\_\_\_

### OPTIONS

Current Transformer (specify voltage class and ratio) \_\_\_\_\_

Elevated Stand (specify height of stand) \_\_\_\_\_



8920 W. Heather Avenue • Milwaukee, WI 53224

Tel: 888-616-6666 • Fax: 414-362-9876

email: [sales@milwaukeeeresistor.com](mailto:sales@milwaukeeeresistor.com)

[www.milwaukeeeresistor.com](http://www.milwaukeeeresistor.com)