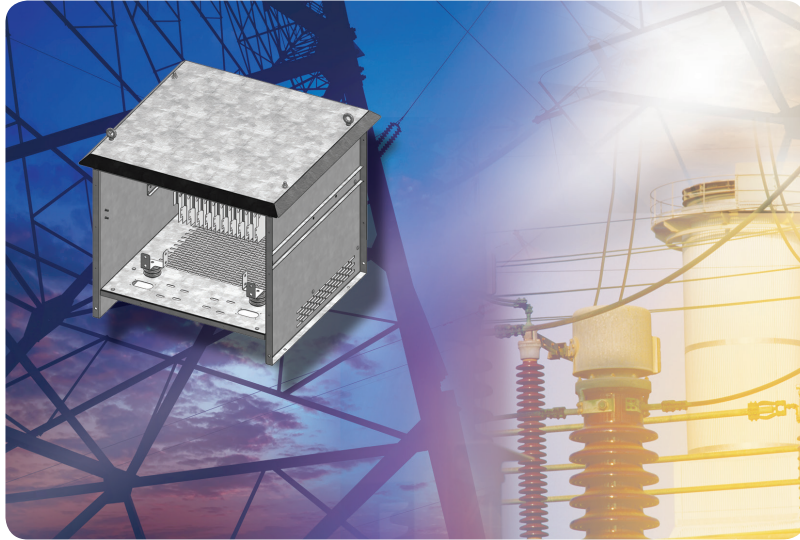


Reliable Neutral Grounding Resistors (NGR), High-Current Grid Resistors



KEY BENEFITS

- Neutral ground resistors offer line-neutral voltage to 8 kV and operating temperatures to +760 °C
- Tied live design ensures there are no floating voltages in the assembly
- Rugged, shock-resistant, IP23-rated enclosures available for environmental protection
- Lifting eyes allow safe and easy installation
- Stainless steel resistive elements
- High-thermal-capacity to absorb high currents
- Can be designed for specific applications

APPLICATIONS

- Industrial power systems
- Transformers
- Generators

RESOURCES

- Datasheet: NGR - www.vishay.com/doc?31873
- For technical questions contact vishaymilwaukee@vishay.com
- Material categorization: For definitions please see www.vishay.com/doc?99912





Reliable Neutral Grounding Resistors, High-Current Grid Resistors

APPLICATIONS OF NEUTRAL GROUNDING (NEUTRAL EARTHING)

Vishay Milwaukee offers a complete line of custom and standard neutral grounding resistors (NGRs), also known as neutral earthing resistors (NERs). Vishay Milwaukee devices are designed to absorb a large amount of energy without exceeding temperature limitations as defined in IEEE-32. These resistors are used for the grounding of generators and transformers in wye configurations for ground fault, overvoltage, and short circuit protection.

CONTACT THE FACTORY FOR CUSTOM DESIGN AND OPTIONS FOR STANDARD DESIGNS

Options include: current transformers, enclosure style and entrance location, enclosure stands, disconnects, bushings, etc. For custom designs please include: system voltage, line-neutral voltage, max. on-time, current rating.

STANDARD ELECTRICAL SPECIFICATIONS					
MODEL	SYSTEM VOLTAGE (kV)	LINE-NEUTRAL VOLTAGE (kV)	CURRENT (A)	RESISTANCE VALUE \square	TOLERANCE \pm %
NGR1390	2.4	1.39	100 to 1000	1.39 to 13.9	10
NGR2400	4.16	2.4	100 to 1000	2.40 to 24.00	10
NGR4160	7.20	4.16	100 to 1000	4.16 to 41.60	10
NGR7200	12.47	7.2	100 to 1000	7.2 to 72	10
NGR7620	13.2	7.62	100 to 1000	7.6 to 76	10
NGR8000	13.8	8	100 to 1000	8 to 80	10

Note

- Per IEEE-32, standard NGRs are designed for a maximum on-time of 10 s and a maximum temperature rise of 760 °C.

GLOBAL PART NUMBER INFORMATION					
Global Part Numbering example: NGR8000K1000BZZZZZ (NGR-ZZZZZ 8000 V 1000 A 10 % B)					
N	G	R	8	0	0
0	0	K	1	0	0
0	0	B	Z	Z	Z
Z	Z	Z	Z	Z	Z
MODEL (3 digits)	VALUE (4 digits)	TOLERANCE (1 digit)	SIZE (4 digit)	PACKAGING (1 digit)	SPECIAL (5 digits)
NGR	1390 = 1390 V line-neutral 2400 = 2400 V line-neutral 4160 = 4160 V line-neutral 7200 = 7200 V line-neutral 7620 = 7620 V line-neutral 8000 = 8000 V line-neutral	K = \pm 10 % K = standard for all types and values	0400 = 400 A 1000 = 1000 A	B = bulk D = wood crated R = international, heavy duty and plastic skids B = standard for all types and values	Allowable range 00000 to ZZZZZ alphanumeric Engineering controlled internal document number

CONTACT INFORMATION
For design assistance, contact: vishaymilwaukeeeresistor@vishay.com or +1-888-616-6666

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