Neutral Grounding Resistors At Your Fingertips

Vishay Milwaukee Series:

NGR: <u>http://www.vishay.com/doc?31873</u>

What They Do

ISHAY

• Neutral grounding resistors (NGRs), also known as neutral earthing resistors (NERs) are used in the grounding of electric power systems to offer ground fault, overvoltage, and short circuit protection.

Electrical Capabilities

- System Voltage: 2.4 kV to 13.8 kV
- Line-Neutral Voltage: 1.39 kV to 8 kV
- Current Ratings: 5 A to 1000 A
- Tied live design to eliminate floating voltages

Key Parameters

- Rugged IP23 rated outdoor enclosures
- Stainless Steel resistor elements offer high thermal capacity
- Per IEEE-32, standard NGRs are designed for an on-time of 10 sec continuous duty and a maximum temperature rise of 760 °C
- Current Transformers (CT) optional

Application Specifics

- Found in Substations within the Oil & Gas, Industrial, and Utility markets.
- Typically integrated with medium voltage generators and large power transformers.
- The neutral grounding resistor is located between the system neutral and ground.

Schematic



How Can We Help

- Do you integrate NGR resistors into your system for certain applications?
- What is your typical Line to Neutral Voltage and Current Rating?
- Do you usually buy the resistor complete with a bottom entry/exit IP23 outdoor rated enclosure?
- Does your application ever require Current Transformers to be housed inside the enclosure?



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Information Required for Quote

System Volts (V		Line-Neut	ral Volts (V _{L-N}):	:	
Current	(A):	Resistance, VL-N/A (Ω):			
On Time:	10 sec	30 sec	60 sec	Ext Time	Continuous
IEEE Temp rise:	760°C	760°C	760°C	610°C	385°C
Enclosure Info (St	andard in Bo	<u>ld)</u>			
Туре:	Indoor (IP20)		Outdoor (IP23)		Frames (IP00)
Finish:	Mill Galva	nized	Stainless Ste	eel	Other
Customizations.					
Space limitations:	:				
Current Transformer Required?			yes	no	
600V Window type CT on Ground side:				:5 ratio	
(Lowes	t cost option)				
Line rated Bar type CT on Line side:					:5 ratio
(much i	more expens	ive, offers g	reater accuracy	()	
Enclosure Entry:		Bottom Hu	g		
(bottom entry/exi	t is standard))			
Enclosure Exit:		Bottom Hub / Top Bushing / Side Bushing			
(bottom entry/exi	t is standard)				
Elevating Stand R	equired? :				
Stand Height? :	-				



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