



## Neutral Grounding Resistor (NGR) Checklist

Today's Date:

Company Name:

Company Address:

Customer Name:

Company street address

Company city

Company state/province

Company zip/postal code

Project Name:

Project Location (Address):

Bid Required By (Date):

Project street address

Requested Delivery Date:

Project city

Project state/province

Planned Commissioning Date:

Project zip/postal code

Is drawing approval required? YES NO

Note: Dimensional drawing are provided with the quotation. As built drawings will be provided withing 1-3 weeks of a purchase being received.

### NGR Specification

1. System Type:

Wye Delta (c/w zig zag transformer)

6. Pulsing Circuit:

Yes No

2. NGR Quantity:

7. Enclosure Type:

3. System Voltage (LL):

480 V 600 V 2,400 V  
4,160 V 13,800 V 25,000 V  
Other:

Please specify

NEMA Type 3R (IP54)

Backplate Only

Painted Galvanized Steel

Stainless Steel

*Please specify:*

SS 304

SS 316

SS 316L (*recommended for offshore*)

4. Time Rating (Duty):

Continuous 10 Sec. 60 Sec.

Other:

Please specify

5. NGR Let-Through Current:

5 A 10 A 25 A  
100 A 400 A Other:

Please specify

Advanced Functionality

1.

Switchgear Configuration:

Single Main

Main-Tie-Main

Other

Please specify

2.

Resistor Monitoring Relay:

NGRM 5x0 Series

NGRM 7x0 Series

Other

Please specify

\* indicating 5kV L-L and below offerings will include Type B ground-fault detection. Above 5kV will include Type A ground-fault detection.

3.

Feeder Monitoring and Control:

Number of Feeders:

Number of Feeders requiring AC/DC:

None

(Feeders with VFD's, UPS or other non-linear loads)

NOTE: For a quote with the correct CTs, include information of feeder sizes and number of conductors. Contact TAG@bender-us.com for assistance with feeder level detection and one-line review.

4.

Options:

Virtual Training

Commissioning

Test Resistor

Heater

Horn

Analog Handheld Ammeter

Light

Control Power Transformer

Other:

Please specify

5.

Separate Control Package

480 and 600 V units are quoted in one enclosure. MV units are supplied with NGR and controls separate unless otherwise specified.

6.

Corrosive Environment

NOTE: If yes is checked, the enclosure type will be changed to stainless steel, unless otherwise requested.

Special Requests or Additions

Additional CT Required

Brand, Ratio, Other Information:

Seismic Rating Required

Level:

Cable Entry or Bushings:

Bushings Top


Knockout Plate

Bushings Side

Altitude greater than 3000 m AMSL required:

Please provide file name if supplying single line diagram:

Bender Inc.  
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www.benderinc.com

 **BENDER**  
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Notes

Preferred Channel

Consulting Engineer:

