

NGR-AC-34.5KV-10KA-AN-CU-M1

10 kA 1-PH Air Core Neutral Grounding Reactor, 34500V , AN Class, 60 Hz, Copper, Light Grey

Product ID: 315387

Please see last page for supporting documentation for this product (certificates, CAD files & drawings, IES files, wiring diagrams, etc).



Image: NGR-AC-34.5KV-10KA-AN-CU-M1

Larson Electronics LLC manufactures a wide variety of products, including custom built to spec designs. The pictures displayed for this unit are a general representation of form factor for the product line and may not accurately represent this exact configuration in every detail due to custom builds and changes between similar products in our standard catalog. The specifics for this configuration are listed in the specification table and supporting documentation (CAD files, Dimensional Drawing, Name Plate Diagram, Wiring Diagram, etc.). This means that specific details (receptacles, plugs, wires, connections, mounting brackets, external finishes, etc.) may not be accurately represented in images vs specifications. Please review specifications and do not order based solely on images.

NGR-AC-34.5KV-10KA-AN-CU-M1 Air Core Neutral Grounding Reactor

Type: Air Core, Dry Type

Nominal Voltage Rating: 34.5 kV

Voltage Operating Range: 31 - 38 kV

Insulation Class: 38 kV

Voltage BIL (Coil): 200 kV

Voltage BIL (Base insulator): 200 kV

Current Capability Rating: 10 kA/3s

Short-circuit Capability Rating: < 25.5 kA (@ 10 sec.)

Frequency: 60 Hz

Quality Factor @ Rated Factory: >10

Rated Current: >300A

Rated Resistance: 2.0 Ohm

Rated Inductance: 5.305 mH, -3% ~ +10%

X/R For A Ground Fault: -

Minimum Creep Distance: 37.4 inches

Installation: Outdoor

Winding Material: Copper

Terminal: NEMA 4-hole copper pad

Lightning Arrestors: Included, (1) Station Class

Lightning Arrestor Voltage Rating: 36 kV Class, 10kA

Lightning Arrestor MCOV Rating: 29 kVrms

Knockouts: N/A

Current Transformer: Included, 100/5A, 5P10, 10VA

Bushings for External Neutral Connections: Included, with support and

Approvals/Ratings

NRTL listed for United States

NRTL listed for Canada

Meets or Exceeds NEMA ST-20 Standards

Meets or Exceeds ANSI TR-2055 Station Post Insulators

Seismic Qualified for Earthquake Loads

CE Certified

UL Listed

2 Years Of Warranty

RoHS

insulators

Cooling Class: AN (Air-Natural)

Mounting: Aluminum Bottom Pedestal

Mounting Insulators: TR231 / C4-250 Insulator

Insulation: 220°C

Temperature Rise: 155°C

Elevation (Altitude): <3300 ft

Temperature Range: -40°C to +50°C

Wind Load: <100 mph

Ice / Snow Load: 20 psf

Seismic Requirement (Horizontal): 0.2g

Sound Level: Meets NEMA ST-20 Standards

Enclosure Construction: Epoxy Impregnated, Fiberglass Encapsulated Construction

Finish: ANSI 70 Light Grey

Dimensions: .37.732" (+/- 3.937") H x 40.973" (+/-1.969") Ø; 68.70"H (w/ insulators)

Weight: 1540 lbs

Shipping Method: TBD

Shipping Weight: TBD

Shipping Dimensions: TBD

Special Orders - Special Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671

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E-mail: sales@larsonelectronics.com

The NGR-AC-34.5KV-10KA-AN-CU-M1 is a single phase reactor generally connected between ground and neutral of transformers or generators in order to control single line-to-ground faults at a desired level. They achieve this by resisting current flow through inductive elements. This unit is used in order to limit line-to-ground fault current to a value which will not damage the equipment in the power system, yet allow sufficient flow of fault current to operate protective relays to clear the fault. If the circuit is balanced, current flow through the reactor will be zero, thus, there will be no losses.

PLEASE NOTE: ANY FREE SHIPPING OFFERS DO NOT APPLY TO POWER DISTRIBUTION PANELS, TRANSFORMERS, OR SUBSTATIONS

Unit Features: The NGR-AC-34.5KV-10KA-AN-CU-M1 is a single phase reactor with a 10 kA current capability. This reactor is configured with a rated voltage of 34.5 kV AC. Featuring robust construction, this unit's cores are manufactured with non-aging, cold-rolled silicon steel laminations using state of the art technology.

This unit boasts a low cost of ownership and is highly energy efficient. Lower heat emissions mean less cooling is needed as well. The standard NEMA Type 3R enclosure makes the unit suitable for both indoor and outdoor applications and is designed to be floor mounted. Wall mount brackets or additional mounting accessories can be purchased separately. This reactor features 220°C insulation with a 155°C temperature rise.

Benefits: The NGR-AC-34.5KV-10KA-AN-CU-M1 has a perfect mechanical strength to withstand high short-circuit forces, limited temperature rise enables longer lifetime, special surface protection against UV and pollution Class IV areas, maintenance-free design, low noise levels.

Applications: Reducing single phase to earth fault currents which occur in electrical networks to prevent damages on transformers and generators, reducing temporary over voltages formed by braking instantaneous fault currents, providing long-life for switchgears, and reducing step voltages to a harmless level for personnel.

Larson Electronics is a manufacturer and as such can build stationary and portable transformer systems to your specifications. Although we carry several models of power distribution transformer systems, we can deliver custom ordered units almost as quickly as our prebuilt units. If this model does not meet your needs, please contact us at 1-800-369-6671 or sales@larsonelectronics.com to discuss your specific requirements.



Frequently Asked Questions (FAQ)

There are no Fags



Export Control Classification Number (ECCN): EAR99



Links (Click on the below items to view):

- **Dimensional Drawing 2D** (<https://www.larsonelectronics.com/images/product/DimensionalDrawing/315387.PDF>)
- **Electrical Nameplate Diagram** (<https://www.larsonelectronics.com/images/product/Nameplate/315387.PDF>)
- **HigResPic1** (<https://www.larsonelectronics.com/images/product/HigResPic1/315387.JPG>)
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