

# Generator Neutral-Grounding Resistor

## USED WITH 5kV AND 15kV GENERATOR SYSTEMS

### DESCRIPTION

Simplex SGGR Series Generator Neutral-Grounding Resistors are used with 5kV and 15kV generator systems to limit destructive ground fault currents. The SGGR Generator Neutral-Grounding Resistor is inserted in the neutral-ground connection of 4-wire, wye-connected generators. Simplex SGGR Series Resistors are designed per IEEE-32 Standards and packaged to UBC Zones 2,3,4 requirements (seismic qualification and calculations provided on a per order basis). Standard ratings and models are listed below. Specific voltage/current/resistance ratings are available from 277V through 69kV. Standard units are 10-second rated. Extended-time and continuous duty ratings are also available. Standard units are packaged in outdoor, weatherproof, galvanized steel enclosures. Alternative packaging is available including stainless steel, aluminized steel, and aluminum, special paint coatings, as well as special dimension packaging.

Options for the Simplex SGGR Series Generator Neutral-Grounding Resistors include:

- Ground current sensing current transformers
- Potential transformers
- Ground current over-current relay

### FEATURES

- Stainless steel resistors, edge-wound on ceramic core or grid type
- Rugged, shock resistant resistor construction
- High thermal capacity, thermal shock-resistant resistor construction



- 10 second duty, extended duty or continuous duty resistors available
- Galvanized steel enclosures with louvers and lifting eyes suitable for indoor or outdoor installation
- Optional enclosures include stainless steel, aluminized steel, aluminum, polyurethane or powder coatings
- Optional special dimension enclosures, special mounting arrangements available
- Optional current transformers, potential transformers and current sensing relays available
- UBC Zones 2, 3, 4 seismic qualification and calculations available

**SIMPLX<sup>®</sup>**

# SIMPLX®

## NEUTRAL-GROUNDING RESISTOR



Simplex SGGR Series, Neutral-Grounding Resistors, Standard Ratings

Contact Simplex for ratings not shown below, 277v through 69kV

Simplex Model	System Voltage	L-N Voltage	Current* (Amperes)	Resistance (Ohms)	Dimensions (inches: W x D xH)
SGGR1410 SGGR1420 SGGR1430 SGGR1440	2400	1390	100	13.9	36 x 42 x 32
200			6.9		
300			4.6		
400			3.5		
SGGR2410 SGGR2420 SGGR2430 SGGR2440 SGGR2460 SGGR2480	4160	2400	100	24	36 x 42 x 32
200			12		
300			8		
400			6		
600			4		
800			3		
SGGR4110 SGGR4120 SGGR4130 SGGR4140 SGGR4160 SGGR4180	7200	4160	100	41.6	42 x 48 x 48
200			20.8		
300			13.9		
400			10.4		
600			6.9		
800			5.2		
SGGR7210 SGGR7220 SGGR7230 SGGR7240 SGGR7260 SGGR7280 SGGR72100	12,470	7200	100	72	42 x 48 x 48
200			36		
300			24		
400			18		
600			12		
800			9		
1000			7.2		
SGGR7610 SGGR7620 SGGR7630 SGGR7640 SGGR7660 SGGR7680 SGGR76100	13,200	7620	100	76	42 x 48 x 48
200			38		
300			25.4		
400			19		
600			12.7		
800			9.5		
1000			7.6		
SGGR8010 SGGR8020 SGGR8030 SGGR8040 SGGR8060 SGGR8080 SGGR80100	13,800	8000	100	80	42 x 48 x 48
200			40		
300			26.7		
400			20		
600			13.3		
800			10		
1000			8		

\*10-Second duty rating, 760C rise, per IEEE32