

### **GNR SERIES 22.5MM RELAY**

GNR10BHZ DIN Rail SSR 22.5mm 240V ac 10A, 120V ac In, ZC

- Load current 10, 20 and 30A
- Operating voltage 24-280 VAC and 48-600 VAC
- Control voltage 4-32 VDC, 90-140 VAC and 180-280 VAC
- · Broad range of power ratings





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#### PRODUCT DESCRIPTION

These relays offer a broad range of power ratings which makes them suitable for diverse applications. Their high reliability and efficient design have made of them a market favorite for many years.

- Current ratings of 10, 20 and 30 amps
- Output voltage ratings: 24-280 and 48-600 VAC
- Direct Bond Copper (DBC) Substrate
- · LED input status indicator
- UL 508 Endurance Rating for Enhanced Reliability
- UL/CSA/TUV Approved, CE Compliant
- Built-in overvoltage protection
- DIN Rail or Panel Mount
- Zero voltage or Instantaneous turn-on output

# **TECHNICAL DATA**

#### **OVERVIEW**

| Output current      | 10 A                 |
|---------------------|----------------------|
| Output voltage      | 24-280V ac           |
| Control voltage     | 90-140V ac           |
| Type of control     | Zero voltage turn on |
| Activation          | 0 V                  |
| Additional features | Relay configuration  |

#### **OUTPUT SPECIFICATION**

Output voltage

24-280V ac

| Peak current                           | 190     |
|--|---------|
| Voltage drop over semiconductor at max | 1.5 V   |
| Number of poles                        | 1       |
| I2t value                              | 182 A²s |
|  |         |

### INPUT SPECIFICATION

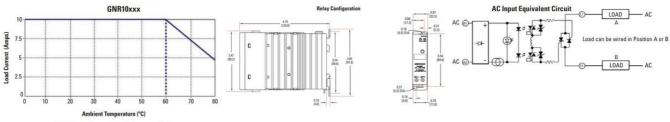
| Control voltage   | 90-140V ac |
|-------------------|------------|
| Turn-off voltage  | 10 V       |
| Input current min | 5 mA       |
| Input current max | 23 mA      |
| Response time     | 30 ms      |
| Release time      | 20 ms      |

## **GENERAL SPECIFICATION**

| Insulation voltage in/out   | 2500 V                  |
|-----------------------------|-------------------------|
| Temperature operational min | -20 °C                  |
| Temperature operational max | 80 °C                   |
| Storage temperature max     | 100 °C                  |
| Storage temperature min     | -40 °C                  |
| Weight                      | 225 g                   |
| Height                      | 89.8 mm                 |
| Width                       | 22.5 mm                 |
| Depth                       | 120.8 mm                |
| LED indication              | Input status indication |
| Approvals                   | CE, CSA, EMC, UL        |
| IP class                    | IP20                    |
|                             |                         |

Load voltage

AC



\*GNR10A Series rated to 60°C max ambient