**OEM Automatic Ltd**
Address: Whiteacres, Whetstone Leicester, LE8 6ZG
0116 284 9900 | Orders@oem.co.uk | www.oem.co.uk

# GNR SERIES 45MM RELAY

GNR45BCZ
DIN Rail SSR 45mm 600V ac 45A, 120V ac In, ZC




- Load current 35A and 45A
- Operating Voltage 48-600 VAC
- Control Voltage 4-32 VDC, 90-140 VAC and 180-260 VAC
- Broad range of power ratings

### 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 35 and 45 amps
- Output voltage rating: 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** | 45 A |
| **Output voltage** | 48-600V ac |
| **Control voltage** | 90-140V ac |
| **Connection** | Screw connection |
| **Type of control** | Zero voltage turn on |
| **Activation** | 0 V |
| **Additional features** | Contactor configuration |

## OUTPUT SPECIFICATION

| | |
|---|---|
| **Output voltage** | 48-600V ac |
| **Leakage current at V max, T=25°C max** | 1 mA |
| **Peak voltage** | 1100 V |
| **2421_Peak current (A)** | 150 |
| **Voltage drop over semiconductor at max** | 1.35 V |
| **Number of poles** | 1 |
| **I2t value** | 2562 A²s |

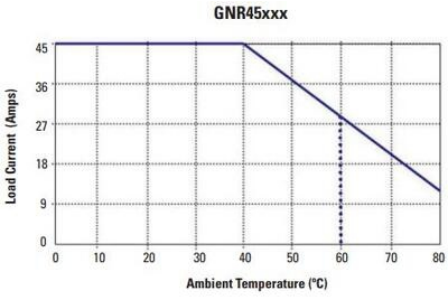
## INPUT SPECIFICATION

| | |
|---|---|
| **Control voltage** | 90-140V ac |
| **Turn-off voltage** | 10 V |
| **Input current min** | 5 mA |
| **Input current max** | 6 mA |
| **Response time** | 30 ms |
| **Release time** | 20 ms |

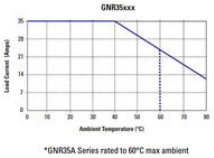
## GENERAL SPECIFICATION

| | |
|---|---|
| **Insulation voltage in/out** | 4000 V |
| **Temperature operational min** | -20 °C |
| **Temperature operational max** | 80 °C |
| **Storage temperature max** | 100 °C |
| **Storage temperature min** | -40 °C |
| **Weight** | 400 g |
| **Height** | 88.1 mm |
| **Width** | 45 mm |
| **Depth** | 120.7 mm |
| **LED indication** | Input status indication |
| **Approvals** | CE, CSA, EMC, UL |
| **IP class** | IP20 |

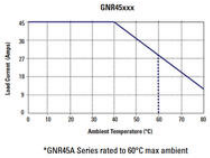
| | |
|---|---|
| **Load voltage** | AC |



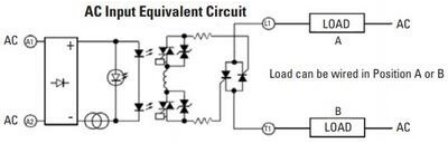

*GNR45A Series rated to 60°C max ambient

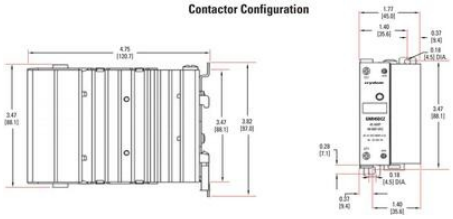


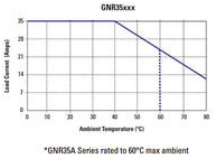

*GNR35A Series rated to 60°C max ambient



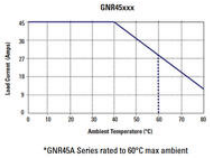

*GNR45A Series rated to 60°C max ambient




*GNR35A Series rated to 60°C max ambient




*GNR45A Series rated to 60°C max ambient