



# BMR

## BATTERY MONITOR RELAY

- High Reliability
- High Input Impedance
- LED Indication for Alarm Conditions
- Available for 24 V, 48 V, 125 V, and 250 V configurations

The Battery Monitor Relay contains over/under voltage sensors combined with positive and negative ground detection. The BMR is available with a single relay alarm for any out-of-tolerance condition or with separate relays for voltage and ground fault conditions. The time delay to alarm is adjustable between one and fifteen seconds.

The BMR-2 has separate relays for battery voltage and ground fault alarms. The LED Indicators on the front panel operate instantaneously upon detection of an alarm condition. The Output Relays of the BMR-2 are delayed. The time delay is adjustable for the Over/Under Voltage Relay while the time delay for the Ground Fault Detector is fixed at five seconds.

The Battery Monitor Relays are easily installed and quickly connected. Both the BMR and the BMR-2 are available in 24, 48, 125, and 250 V configurations.

### ORDERING INFORMATION

| Part Number    | Type  | Nominal Voltage |
|----------------|-------|-----------------|
| <b>999C260</b> | BMR   | 125 Vdc         |
| <b>999C261</b> | BMR   | 48 Vdc          |
| <b>999C262</b> | BMR   | 24 Vdc          |
| <b>999C263</b> | BMR   | 250 Vdc         |
| <b>999C280</b> | BMR-2 | 125 Vdc         |
| <b>999C281</b> | BMR-2 | 48 Vdc          |
| <b>999C282</b> | BMR-2 | 24 Vdc          |
| <b>999C283</b> | BMR-2 | 250 Vdc         |

## SPECIFICATIONS

|                                              |                        |                                                                        |
|----------------------------------------------|------------------------|------------------------------------------------------------------------|
| <b>Battery Voltage Ranges</b>                |                        | 90 - 155 V                                                             |
|                                              |                        | 38 - 56 V                                                              |
|                                              |                        | 20 - 28 V                                                              |
|                                              |                        | 190-310 V                                                              |
| <b>Fault Resistance Limit Set Adjustment</b> |                        | 2 to 75 K ohm                                                          |
|                                              |                        |                                                                        |
| <b>Output Contacts</b>                       | Voltage Detection      | 1 Form C                                                               |
|                                              |                        | 1 Form B                                                               |
|                                              | Ground Fault Detection | 1 Form B                                                               |
|                                              | for BMR-2 only         |                                                                        |
| <b>Contact Rating</b>                        |                        | 125 Vdc 0.2 A resistive                                                |
| <b>LED Indicators</b>                        | Power                  |                                                                        |
|                                              | Battery Overvoltage    |                                                                        |
|                                              | Battery Undervoltage   |                                                                        |
|                                              | Positive Ground Fault  |                                                                        |
|                                              | Negative Ground Fault  |                                                                        |
| <b>Noise Immunity</b>                        |                        | Input SWC Filter                                                       |
| <b>Time Delay to Alarm</b>                   | BMR & BMR-2 UV/OV      | Adjustable 1 to 15 seconds                                             |
|                                              | BMR-2 Ground Detect    | Fixed - Approximately 5 seconds                                        |
| <b>Settings</b>                              |                        | Single-turn Locking Potentiometers for UV, OV, Time Delay              |
|                                              |                        | Internal Potentiometers for Ground Fault Detect and Voltage Midpoints. |
| <b>Temperature Range</b>                     | Operating              | 0° to 55° C                                                            |
|                                              | Storage                | -54° to 70° C                                                          |
|                                              | Humidity               | 0 to 95% R.H. Non-condensing                                           |

## DIMENSIONS

