



## Panasonic Electric Works

### General Information

|                          |                                                                      |
|--------------------------|----------------------------------------------------------------------|
| <b>Kit Part Number:</b>  | <a href="#">284-4002</a>                                             |
| <b>Description:</b>      | Hybrid and Electric Vehicles Automotive Relays Kit                   |
| <b>Application:</b>      | Agricultural Equipment, Automotive Equipment, Construction Equipment |
| <b>Series:</b>           | Automotive Relays                                                    |
| <b>Solution:</b>         | DC Voltage                                                           |
| <b>Product Type:</b>     | Relays                                                               |
| <b>Number of Pieces:</b> | 11                                                                   |
| <b>RoHS:</b>             | Yes                                                                  |

### Specifications

|                           |                              |
|---------------------------|------------------------------|
| <b>Coil Voltage:</b>      | 12V, 24V                     |
| <b>Load Current:</b>      | 10A, 30A, 35A, 40A, 70A, 80A |
| <b>Load Voltage:</b>      | 14V, 400V                    |
| <b>Mounting Style:</b>    | Screw Mounted, Plug-in       |
| <b>Output Protection:</b> | Resistor, Diode              |
| <b>Sealed:</b>            | Yes                          |

### Product Highlights

Relays for automotive electrics that includes plug-in, printed circuit board and high-voltage types. Applications include safety, power train control, comfort and special vehicles. Featuring 12, 24 and 36 volt DC coil voltage

#### Features and Benefits

- AEV hermetically sealed construction for high DC voltage / current
- Pre-charge and main circuit switching
- Stable contact resistance
- PhotoMOS for battery monitoring circuit
- CB relays for accessory controls

#### Applications

- Automobiles
- Electric Vehicles
- Hybrid Vehicles
- Fuel-cell Vehicles
- Construction Equipment
- Agriculture Equipment



| Part No.                    | Qty<br>In Kit | Description                                                     | Datasheet                 | P/N<br>Details          | Search Distributors<br>Inventory |
|-----------------------------|---------------|-----------------------------------------------------------------|---------------------------|-------------------------|----------------------------------|
| <a href="#">CB1-12V</a>     | 1             | 1 Form C Sealed Plug-in 12 V DC Automotive Relay                | <a href="#">Datasheet</a> | <a href="#">Details</a> | <a href="#">Search</a>           |
| <a href="#">CB1-D-12V</a>   | 1             | 1 Form C Sealed 12 V DC Relay with Diode                        | <a href="#">Datasheet</a> | <a href="#">Details</a> | <a href="#">Search</a>           |
| <a href="#">CB1-R-12V</a>   | 1             | 1 Form C Sealed 12 V DC Relay with Resistor                     | <a href="#">Datasheet</a> | <a href="#">Details</a> | <a href="#">Search</a>           |
| <a href="#">CB1A-12V</a>    | 1             | 1 Form A Sealed 12 V DC Relay                                   | <a href="#">Datasheet</a> | <a href="#">Details</a> | <a href="#">Search</a>           |
| <a href="#">CB1A-D-12V</a>  | 1             | 1 Form A Sealed 12 V DC Relay with Diode                        | <a href="#">Datasheet</a> | <a href="#">Details</a> | <a href="#">Search</a>           |
| <a href="#">CB1A-R-12V</a>  | 1             | 1 Form A Sealed 12 V DC Relay with Resistor                     | <a href="#">Datasheet</a> | <a href="#">Details</a> | <a href="#">Search</a>           |
| <a href="#">CB1AH-12V</a>   | 1             | 1 Form A Sealed High Capacity Plug-in 12 V DC Automotive Rel... | <a href="#">Datasheet</a> | <a href="#">Details</a> | <a href="#">Search</a>           |
| <a href="#">CB1AH-R-12V</a> | 1             | 1 Form A Sealed High Contact Capacity 12 V DC Relay with Res... | <a href="#">Datasheet</a> | <a href="#">Details</a> | <a href="#">Search</a>           |
| <a href="#">AEV18024</a>    | 1             | 1 Form A 80 A 24 V DC Relay                                     | <a href="#">Datasheet</a> | <a href="#">Details</a> | <a href="#">Search</a>           |
| <a href="#">AEV110242</a>   | 1             | 1 Form A 10 A 24 V DC Relay                                     | <a href="#">Datasheet</a> | <a href="#">Details</a> | <a href="#">Search</a>           |
| <a href="#">CB1AH-D-12V</a> | 1             | 1 Form A Sealed High Contact Capacity 12 V DC Relay with Dio... | <a href="#">Datasheet</a> | <a href="#">Details</a> | <a href="#">Search</a>           |

### Recommended Tool

| Part No. | Included in Kit |
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