



BATTERY VOLTAGE MONITORING RELAY

Type: BMCA low BMCD high & low

FEATURES

- Supply from the battery
- Programmable voltage 12V, 24V, 48V & 110V
- · LEDs indicate the state of the input
- Programmable OFF delay 0-10 sec or 0-100 sec
- · Programmable Latch for over voltage

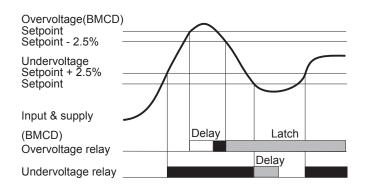
Description:

The BMCA battery voltage relay is designed to measure battery voltage for under voltage. The BMCD battery voltage relay is designed to measure battery voltage for under voltage and over voltage. The relays are Programmable for 12V, 24V, 48V or 110V battery systems, can be set by DIP switch.

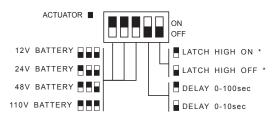
Application:

Avoiding deep discharging, or overcharging in UPS, stationary battery equipment and mobile battery equipment. Alarm function in case of faulty batteries or charges.

FUNCTION DIAGRAM



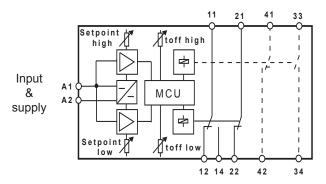
PROGRAMMABLE FEATURES



* LATCH ONLY ON TYPE BMCD

CONNECTION DIAGRAM

Rail mounting



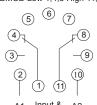
BMCA Low: 11,12,14 & 21,22

Relay contacts:

BMCD Low: 11,12,14 & 21,22 BMCD High: 41,42 & 33,34

Socket mounting

Relay contacts: BMCA Low 1,4,3 & 11,8,9 BMCD Low 1,4,3 High 11,8,9



A1 Input & A2 + supply -

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SPECIFICATIONS

INPUT

BMCA & BMCD

12 V, range int. adjustable Under voltage from 9 to 12 V Over voltage from 12 to 15 V Precision 12V \pm 0.1 V

24 V, range int. adjustable Under voltage from 18 to 24 V Over voltage from 24 to 30 V Precision 24V \pm 0.2 V

48 V, range int. adjustable Under voltage from 36 to 48 V Over voltage from 48 to 60 V Precision 48V \pm 0.4 V

110 V, range int. adjustable Under voltage from 83 to 110 V Over voltage from 110 to 137 V Precision 110V ± 0.9 V

Differential Under voltage

Under voltage Approx. setpoint + 2.5 %

Over voltage

Approx. setpoint - 2.5 %

PERFORMANCE PARAMETERS

TIMING

OUTPUT

Under voltage Relay, 1 C/O and 1 N/C, AgNi
Over voltage Relay, 1 N/O and 1 N/C, AgNi
Contact rating 6 A, 250 VAC, 1500 W
Mechanical life 30 Million operations

SUPPLY DC voltage, supply and input

internal connected From 8 to 180 V

Power consumption 2,5 W

GENERAL

Temperature range $-25~^{\circ}\text{C}$ to + 55 $^{\circ}\text{C}$

Humidity Up to 90 % RH non-condensing Dielectric test voltage Coil to relay contacts 4000 VAC

Pole to pole 2500 VAC

Weight 0.14 kg

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International Standards
EMC directive 89/336: EN50081 - Emission

EN50082 - Immunity

Low voltage directive 73/23: EN60255 - Electrical Relays

ORDERING INFORMATION

