

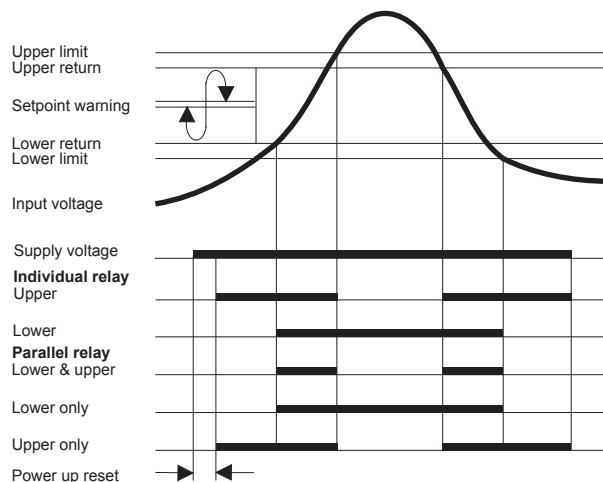
DC VOLTAGE MONITORING RELAY

Type:BMWB

FEATURES

- Includes two relays for use in parallel or for individual under and over voltage signalisation
- Accurate adjustment for upper limit, upper return, lower limit and lower return by means of multiturn potentiometers
- Easy dipswitch setting selects function as under and over voltage relay, window relay or under or over voltage relay only
- LEDs indicate the state of the input
- LED indicates the state of the relay
- LEDs indicate when the timing function is active

FUNCTION DIAGRAM



Description:

BMW B is a combined over and/or under voltage relay. The voltage relay is designed for precise monitoring of a wide range of DC voltages from 14V to 340V.

With a built in high efficiency switch mode power supply, the BMW B is able to cover the whole measuring range without the need of an external supply.

The BMW B can by means of dipswitches be set to work as a relay for monitoring under voltage and over voltage with two individual C/O contacts, or the contacts can be paralleled and the BMW B be used as a window discriminator relay where both C/O contacts are in the powerless position outside the window. With the paralleled relays the BMW B can be set to only register under or over voltage.

Operation:

When the supply voltage is applied, the - power up reset - period begins. If a voltage within the allowed voltage range is applied to the input, the internal relay pulls in at the end of the reset period.

If the input voltage exceeds the adjusted upper or lower limit, the corresponding relay or both relays drops out.

If the input voltage comes between the upper return and the lower return, the relay pulls in.

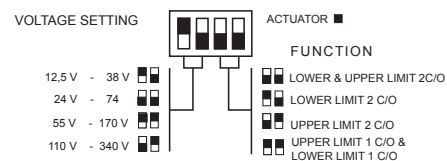
As under voltage relay only, the relays remains energized for input voltages exceeding the upper limit.

As over voltage relay only, the relay remains energized for input voltage under the lower range limit, until it drops out due to power loss at inputs below 14 V.

Application:

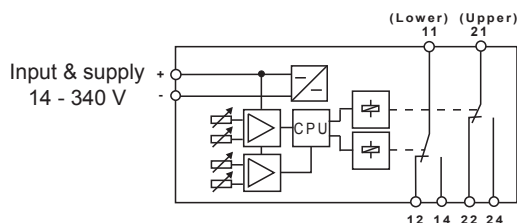
Voltage monitoring in UPS, stationary and mobile battery installations.

PROGRAMMABLE FEATURES

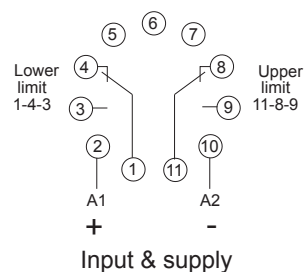


CONNECTION DIAGRAM

Rail mounting



Socket Mounting



SPECIFICATIONS

INPUT	DC voltage 0 - 340 V
Ranges selectable by dipswitch	14 V - 38 V 24 V - 74 V 55 V - 170 V 110 V - 340 V
Differential	Adjustable within upper and lower limit

PERFORMANCE PARAMETERS

TIMING

Response time	Approx. 200 msec.
Time range during run	Separate On and Off delay 0 - 10 sec. adjustable

ELECTRICAL

Temp. dependence	Typ. $\pm 0.02\%$ / °C
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OUTPUT

Contact rating	Relay, 2 x 1 C/O, AgNi/Au 6 A, 250 VAC, 1500 W See figure
Mechanical life	30 million operations

SUPPLY

DC voltage direct from input	DC voltage direct from input
Voltage range	14 - 340 Volts (Max. 360V)
Power consumption	Max 3 W

GENERAL

Temperature range	- 25 °C to + 55 °C ambient
Humidity	Up to 90 % RH non-condensing
Dielectric test voltage	Coil to relay contacts 4000 VAC
	Pole to pole 2500 VAC
Weight Nett.	0.15 kg



EMC directive 89/336:

International Standards

EN50081 - Emission

EN50082 - Immunity

Low voltage directive 73/23:

EN60255 - Electrical Relays

ORDERING INFORMATION

EXAMPLE:

TYPE

DC voltage monitoring control relay

INPUT AND SUPPLY VOLTAGE

14 V - 340 V DC

ADJUSTMENT

Trimpot and dipswitch adj.

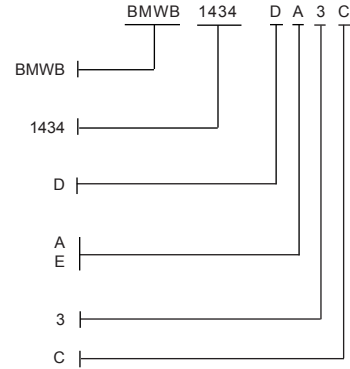
HOUSING

Rail mounting
Socket Mounting

SIZE

35 mm.

CODE END



Relay Contacts:

Max. breaking capacity

A - resistive load DC

B - resistive load AC

