

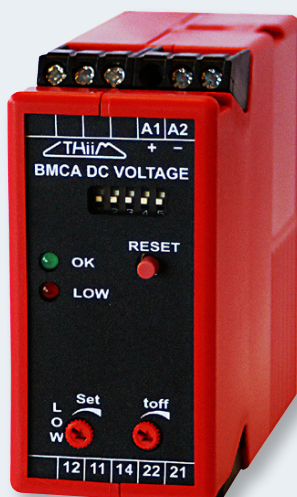


BATTERY VOLTAGE MONITORING RELAY

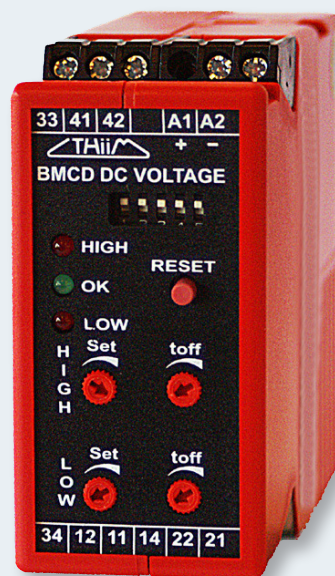
BMCA low
BMCD high & low

DC

UPS



BMCA



BMCD



Features

- Programmable voltage 12, 24, 48 and 110 V
- Gives alarm/disconnects the load from the battery when voltage drops below set level
- Applies to a variety of applications
- Easy to install and configure
- Compatible with most battery types



Benefits

- Prevents unnecessary wear from battery overcharging
- Increases battery life and performance
- Optimizes charging by preventing deep discharge
- Reduces maintenance costs
- Ensures reliable power supply



Applications

- DC Power distribution
- UPS systems
- Battery banks and charger systems



BATTERY VOLTAGE MONITORING RELAY

BMCA low
BMCD high & low

DESCRIPTION

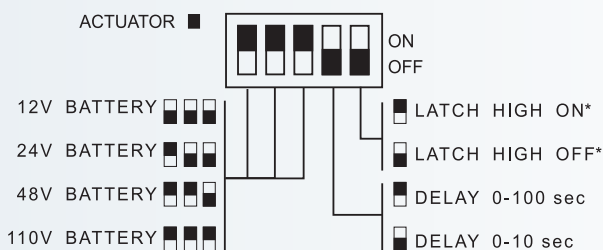
The BMCA battery voltage relay is designed to measure battery voltage for undervoltage. The BMCD battery voltage relay is designed to measure battery voltage for undervoltage and overvoltage.

Nominal system voltage can be set to 12 V, 24 V, 48 V or 110 V by DIP switches.

APPLICATION

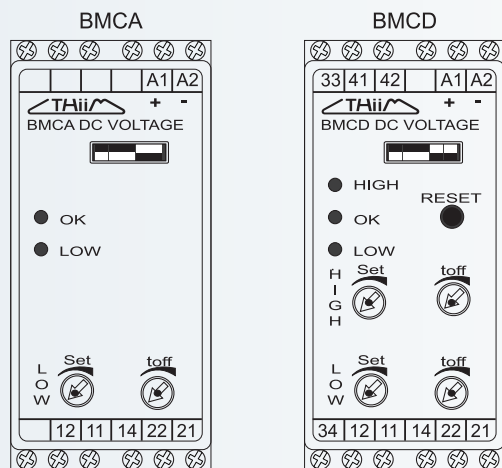
Avoiding deep discharging, or overcharging in UPS, stationary battery equipment and mobile battery equipment. Alarm function in case of faulty batteries or charges.

CONFIGURATION

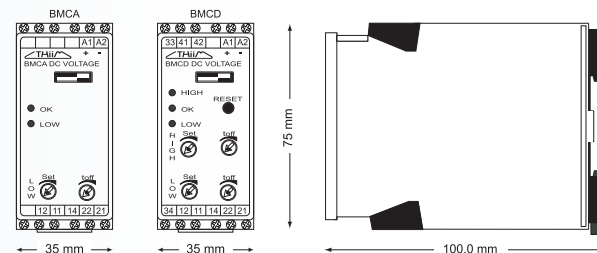


* LATCH ONLY ON TYPE BMCD

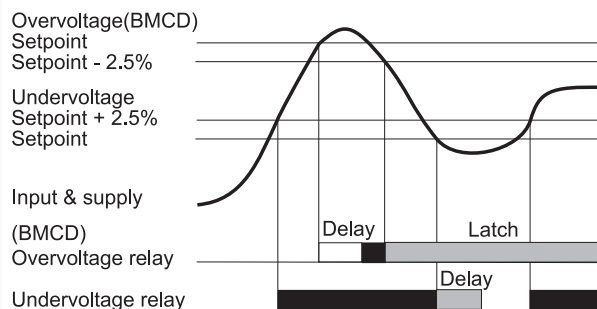
FRONT



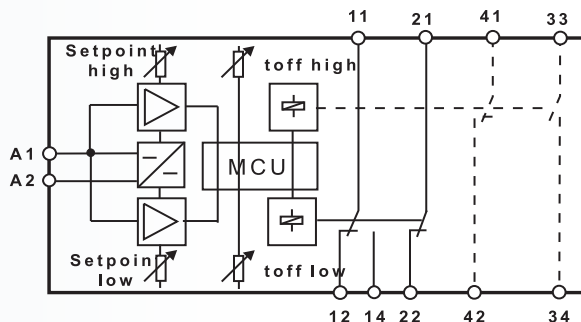
DIMENSIONS



FUNCTIONS



CONNECTIONS





BATTERY VOLTAGE MONITORING RELAY

BMCA low
BMCD high & low

SPECIFICATIONS

INPUT

BMCA & BMCD

12 V, range int. adjustable
Undervoltage: 9-12 V
Overvoltage: 12-15 V
Precision: 12 V $\pm$ 0.1 V

24 V, range int. adjustable
Undervoltage: 18-24 V
Overvoltage: 24-30 V
Precision: 24 V $\pm$ 0.2 V

48 V, range int. adjustable
Undervoltage: 36-48 V
Overvoltage: 48-60 V
Precision: 48 V $\pm$ 0.4 V

110 V, range int. adjustable
Undervoltage: 83-110 V
Overvoltage: 110-137 V
Precision: 110 V $\pm$ 0.9 V

Hysteresis

Undervoltage
Approx. setpoint +2.5 %
Overvoltage
Approx. setpoint -2.5 %

PERFORMANCE PARAMETERS

TIMING

Time range accuracy $\pm$ 5 %

ELECTRICAL

Repeat accuracy

<0.5 %

Temp. dependence

Typ $\pm$ 0.02 %/°C

OUTPUT

Undervoltage

Relay, 1 C/O and 1 N/C, AgNi

Overvoltage

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
internally connected

8-180 V

Power consumption

2,5 W

GENERAL

Temperature range

-25 °C to +55 °C

Humidity

Up to 90 % RH non-condensing

Dielectric test voltage

Coil to relay contacts: 4000 VAC

Pole to pole: 2500 VAC

TERMINALS

Tightening torque

0,32 Nm to 0,39 Nm

Screw type

PH1

Cable size

Accepts up to 3,3 mm² or 12 AWG

Weight

BMCA: 0.13 kg

BMCD: 0.13 kg



International standards

EMC directives 89/336:

EN 50081

Emission

EN 50082

Immunity

EU directive: Low voltage directive 73/23:

EN 60255

Electrical Relays

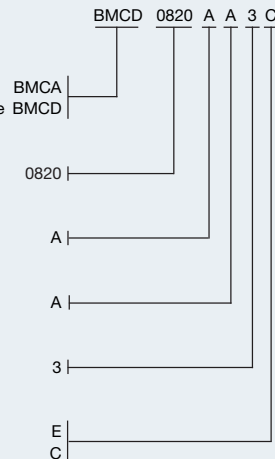
ORDERING INFORMATION

EXAMPLE

TYPE

Battery multicontrol relay undervoltage

Battery multicontrol relay over- & undervoltage



SUPPLY

8-180 V

ADJUSTMENT

Trimpot adjustable

HOUSING

Rail mounting

SIZE

35 mm

CODE END

Extend code

Code end

Company info

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