BATTERY VOLTAGE MONITORING RELAY

BMCA low
BMCD high & low

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

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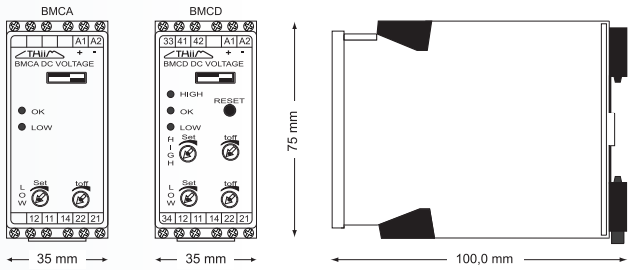
DESCRIPTION

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.

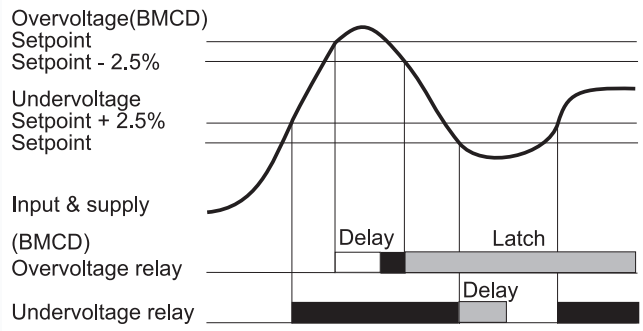
APPLICATION

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

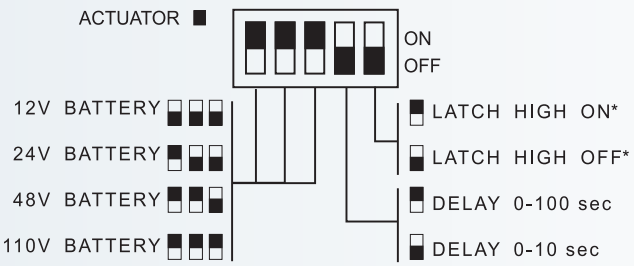
DIMENSIONS



FUNCTIONS

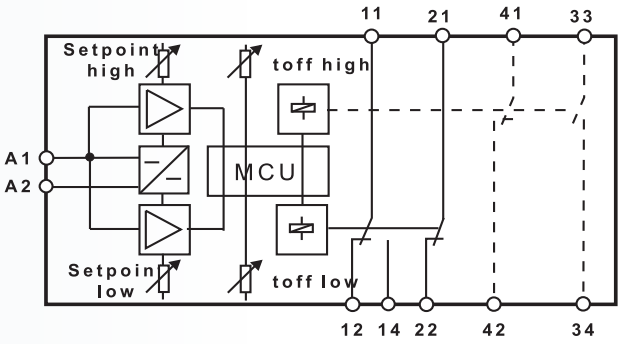


CONFIGURATION



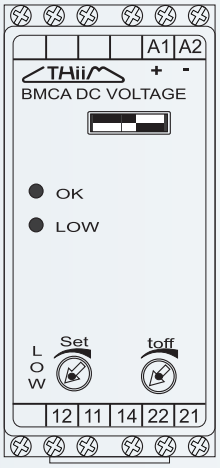
* LATCH ONLY ON TYPE BMCD

CONNECTIONS

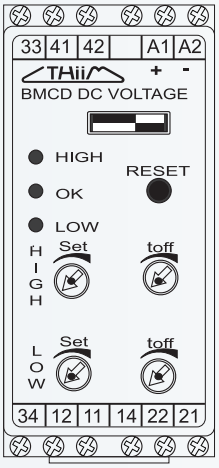


FRONT

BMCA



BMCD



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SPECIFICATIONS

INPUT

BMCA & BMCD	12 V, range int. adjustable Undervoltage: 9-12 V Overvoltage: 12-15 V Precision: 12 V ± 0.1 V 24 V, range int. adjustable Undervoltage: 18-24 V Overvoltage: 24-30 V Precision: 24 V ± 0.2 V 48 V, range int. adjustable Undervoltage: 36-48 V Overvoltage: 48-60 V Precisio: 48 V ± 0.4 V 110 V, range int. adjustable Undervoltage: 83-110 V Overvoltage: 110-137 V Precision: 110 V ± 0.9 V
Hysteresis	Undervoltage Approx. setpoint +2.5 % Overvoltage Approx. setpoint -2.5 %

PERFORMANCE PARAMETERS

TIMING	
Time range accuracy	±5 %
ELECTRICAL	
Repeat accuracy	<0.5 %
Temp. dependence	Typ ±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

CE

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 BMCD 0820 A A 3 C

TYPE

Battery multicontrol relay undervoltage	BMCA
Battery multicontrol relay over- & undervoltage	BMCD

SUPPLY

8-180 V	0820

ADJUSTMENT

Trimpot adjustable	A

HOUSING

Rail mounting	A

SIZE

35 mm	3

CODE END

Extend code	E
Code end	C

Company info

Datablad_BMCA/BMCD_S24_v1