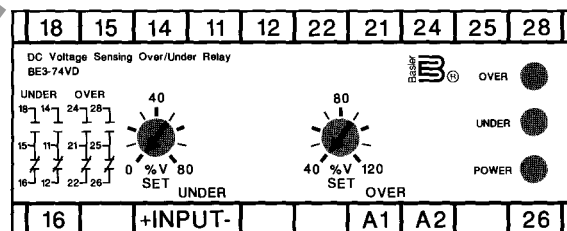
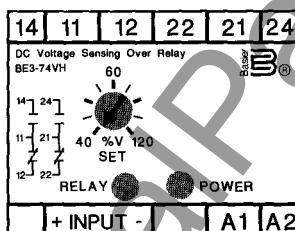
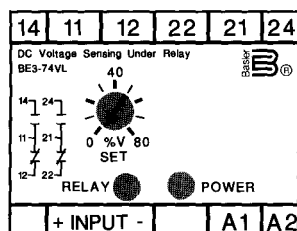


BE3-74VL, BE3-74VH, BE3-74VD DC VOLTAGE SENSING ALARM RELAYS

APPLICATION:

BE3 dc voltage sensing relays provide monitoring of battery voltage conditions, but can be used in any application where dc voltage levels are critical. The user is provided with an adjustable set point of 0-80% on undervoltage units and 40-120% on overvoltage units. The differential is internally set at 5% and no time delay is provided. BE3-74V dc voltage relays energize when the input signal exceeds the trip point, unless the option of de-energize on trip is requested. A red LED indicates the state of the relay, and a green LED indicates the state of the power supply.

CASE CONNECTIONS:



GENERAL SPECIFICATIONS:

Input

Nominal sensing input voltages: 1.0Vdc, 10Vdc, 100Vdc, 1-300Vdc (specify nominal range)

Rated value nominal voltage: 1 less than 50 volt

Overload: 1.5 times nominal continuous, 2 times nominal for 3 seconds

Burden: Ten thousand ohms per volt

Range undervoltage: Adjustable 0% to 80%
Differential: Fixed at 5%
Repeatability: Better than 0.5% of full span

Power Supply

AC voltage: 120V, 240V, 380V, 480V
±25%, 45-65Hz, 2VA
DC voltage: 24 volt (±20%/galvanically isolated), less than 3 watt

Setpoint

Range overvoltage: Adjustable 40% to 120%

Weight and Case Size

Single unit: 0.88 lbs. (0.4kg)
2.17 in. wide (55mm)
Combined unit: 1.32 lbs. (0.6kg)
3.93 in. wide (100mm)

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ULP-1
3-98

PERFORMANCE SPECIFICATIONS:

Environmental

Operating temperature: 0°C to +60°C (32°F to 140°F)
 Functional temperature: -25°C to +70°C (-13°F to 158°F)
 Storage temperature: -40°C to +70°C (-40°F to 158°F)
 Temperature coefficient: 0.03% per °C (200ppm/°C)
 Relative humidity: 95% noncondensing

Agency Approvals

UL recognized, CSA certified, C.E. compliant

Insulation

Test voltage: 4kV RMS 50Hz 1min between Input, Case, and Auxiliary
 Impulse test: EMC 5kV transient, complies with IEC 801, EN 55020
 HF interference test: EHF 2.5kV 1MHz, complies with IEC 255-4
 Protection class: II, complies with IEC 348

Applied Standards

General: IEC 144, BS 5420, VDE/VDI 0435, IEC 947, EN 60947

Safety:

Surge withstand:

RFI:

BS EN 61010, DIN 57411, VDE 0411, ANSI C37 IEC 801, EN 55020, ANSI C37-90a RFI degree N, complies with VDE 0875

Relay Output

Relay type: D.P.D.T.
 AC Rating: 250V, 5A, nonresistive, 1200VA
 DC Rating: 125V, 1A, resistive, 120 watts
 Mechanical Life: 5 million operations

Enclosure

Mounting: Snap onto DIN rail 1.38in. x .29in. (35mmx7.5mm), complies with DIN-EN 50022, BS 5584 Any position
 Enclosure code: Case IP 50, terminals IP 30
 Material: Complies with UL 94 VO

HOW TO ORDER:

Designate the Model Number followed by the complete Style Number.

Complete the Style Number by selecting one feature from each column of the Style Identification Chart and entering its designation, letter or number, in the appropriate square. Note: The description of a complete relay must include both Model Number and Style Number.

STYLE IDENTIFICATION CHART:

BE3-74VL, BE3-74VH, BE3-74VD MODEL NO.		8		5		
Sensing Input Type		Nominal Input Type		Frequency	External Power	Output Type
8) DC volts		Q) 1 volt T) 10 volt U) 100 volt S) 1 to 300 volt (Specify nominal voltage)		5) dc	A) 120Vac B) 240Vac C) 380Vac D) 480Vac E) 24Vdc	1) Energize to trip (74VH) 2) De-energize to trip (74VL) 3) Energize to trip over, de-energize to trip under (74VD)

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