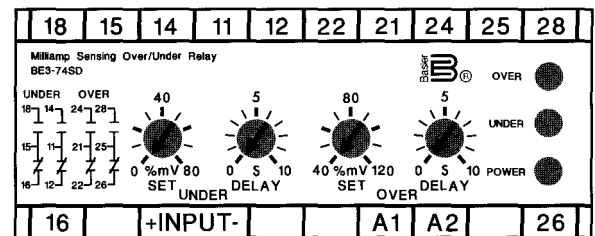
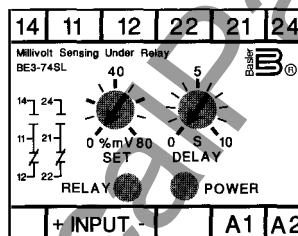
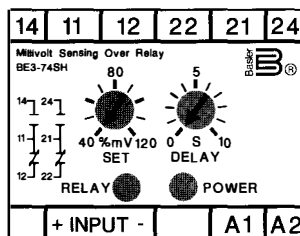


BE3-74SH, BE3-74SL, BE3-74SD MILLIVOLT SENSING ALARM RELAYS

APPLICATION:

BE3 dc millivolt sensing relays accept millivolt signals from shunts, sensors, and transducers. A common application is protection of equipment from overcurrent in a dc charging system; for example, using a 400Amp/75mV shunt. The 75mV signal is fed to the BE3-74S. If the user wishes to ensure the current does not exceed 300Amp, the BE3-74S trip is set at 75% (56.25mV). If the current goes above 300Amps, the relay energizes. BE3 millivolt sensing alarm 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 condition of the power supply.

CASE CONNECTIONS:



GENERAL SPECIFICATIONS:

Input

Rated value: 50mVdc, 100mVdc, and 10 to 99mVdc (specify nominal range)
Input impedance: 50 kohms
Source impedance: 100 ohms maximum
Overload: 10 times input continuous

Setpoint

Range overvoltage: Adjustable 40% to 120%
Range undervoltage: Adjustable 0% to 80%
Differential: Fixed at 5%

Repeatability:

Better than 0.5% of full span

Time delay:

Adjustable 1 to 10 sec

Power Supply

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

Weight and Case Size

Single unit: Approx. 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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ROUTE 143, BOX 269 HIGHLAND, ILLINOIS 62249, U.S.A. PHONE 618-654-2341 FAX 618-654-2351

ULN-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:

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

Surge withstand:**RFI:****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:

BE3-74SH, BE3-74SL, BE3-74SD MODEL NO.	7		5		
Sensing Input Type	Nominal Input Type	Frequency	External Power	Output Type	
7) Transducer/Shunt	F) 50 Millivolt G) 100 Millivolt S) 10 to 999 Millivolt (Specify nominal Millivolt)	5) dc	A) 120Vac B) 240Vac C) 380Vac D) 480Vac E) 24Vdc	1) Energize to trip (74SH) 2) De-energize to trip (74SL) 3) Energize to trip over, de-energize to trip under (74SD)	

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Printed in U.S.A.