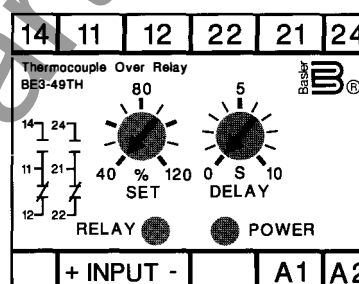
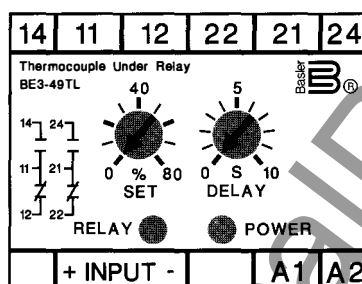


BE3-49TH, BE3-49TL THERMOCOUPLE RELAYS

APPLICATION:

BE3 thermocouple temperature relays monitor remote temperature using thermocouple transducers and provide a relay signal if the temperature being monitored exceeds the preset limit. J and K type thermocouple inputs are available to cover a wide range of temperatures. BE3 thermocouple 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, while a green LED indicates the condition of the power supply.

CASE CONNECTIONS:



GENERAL SPECIFICATIONS:

Input

Type J range:	Minimum 0-185°C (10mV span) Maximum 0-870°C (50mV span)
Type K range:	Minimum 0-245°C (10mV span) Maximum 0-1,230°C (50mV span)
Cold junction compensation:	Automatic over range of 0 to 50°C
Overload:	10 times continuous

Setpoints

Overtemperature:	Adjustable 40% to 120%
Undertemperature:	Adjustable 0 to 80%
Repeatability:	Better than 0.5% of full span
Differential:	Fixed at 2%
Time delay:	Adjustable from 0 to 10 sec

Power Supply

AC voltage:	120V, 240V, or 480V ±25%, 45-65Hz, 2VA
Frequency:	45 to 65Hz
Burden:	2VA, maximum
DC voltage:	24Vdc nominal

Weight and Case Size

Approx. 0.88 lbs. (0.4kg), 2.17 in. wide (55mm)

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ULJ-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
 Case IP 50, terminals IP 30
 Complies with UL 94 VO

Enclosure code:**Material:****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:

BE3-49TH, BE3-49TL		6		5		
MODEL NO.						
Sensing Input Type		Nominal Input Type		Frequency	External Power	Output Type
6) Thermocouple		N) J Type P) K Type R) Other, to be specified		5) dc	A) 120Vac B) 240Vac C) 380Vac D) 480Vac E) 24Vdc	1) Energize to trip (49TH) 2) De-energize to trip (49TL)

△ Consult factory.

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