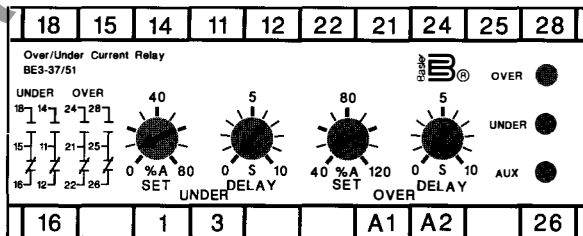
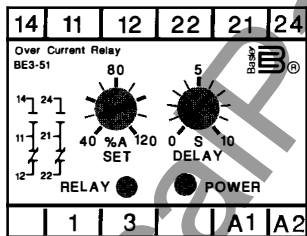
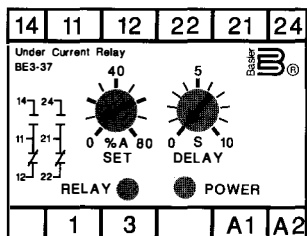


## BE3-37, BE3-51, BE3-37/51 AC CURRENT RELAYS

### APPLICATION:

BE3 ac current relays provide current monitoring and protection in both single and 3 phase systems. They are used in applications such as motor protection, load detection and generator control. Under, over and combined under/over units are available. The relays operate when the externally adjustable trip point is reached. An external time delay control is provided to prevent false tripping. All the current relays energize when the input signal exceeds the trip point, i.e. relay energizes on trip, unless option of de-energize on trip is requested. A red LED indicates the state of the relay by illuminating when the relay is energized. A green LED indicates the condition of the power supply.

### CASE CONNECTIONS:



### GENERAL SPECIFICATIONS:

#### Input

Rated value in: 5A  
Frequency: 50/60 or 400Hz  
Burden: Less than 0.5VA per phase  
Overload: 2 times nominal current continuous, 10 times nominal current for 3 seconds

#### Setpoint

Range overcurrent: Adjustable 40% to 120% nominal  
Range undercurrent: Adjustable 0% to 80% nominal  
Time delay: Adjustable 0 to 10 sec

Operating time: 200 ms, typical  
Repeatability: Better than 0.5% of full span  
Differential: Fixed at 5%

#### Power Supply

AC voltage: 120, 240, 380, 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: 0.88 lbs. (0.4kg),  
2.17 in. wide (55mm)  
Combined unit: 1.32 lbs. (0.6kg),  
3.93 in. wide (100mm)

**Basler Electric**

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

ULE-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 +7°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:**

BE3-37, BE3-51, BE3-37/51			E			
MODEL NO.						
<b>Sensing Input Type</b>	<b>Nominal Input Type</b>	<b>Frequency</b>	<b>External Power</b>	<b>Output Type</b>		
1) Single Phase 3) Three Phase ⚠	E) 5A (CT)	1) 50/60Hz 2) 400Hz	A) 120Vac B) 240Vac C) 380Vac D) 480Vac E) 24Vdc	1) Energize to trip (51) 2) De-energize to trip (37) 3) Energize to trip over, de-energize to trip under (37/51)		

⚠ Available for BE3-37 and BE3-51 only.

# B Basler Electric



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