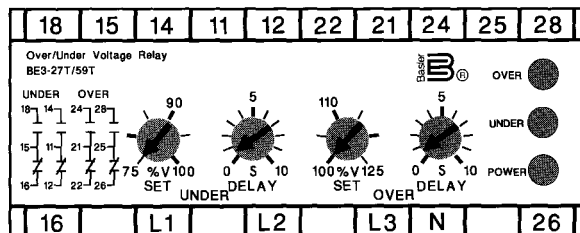
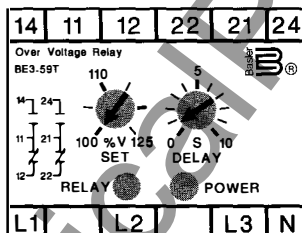
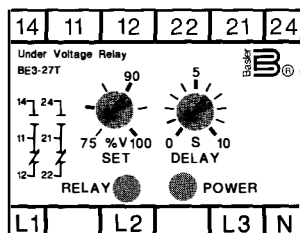


BE3 ac voltage relays provide voltage monitoring and protection in both single and 3 phase systems. They are used in applications such as utility mains failure, regulation of power supplies, and protection of voltage sensitive equipment. Undervoltage, overvoltage and combined under/overvoltage units are available. BE3 ac relays operate when the externally adjustable trip point is reached. An external time delay control with adjustment from 200ms to 10 seconds is provided. This time delay may be used to prevent false tripping when there are slight variations in the voltage supply. On overvoltage units, the relay energizes when the input signal exceeds the trip point. On undervoltage units the relay de-energizes when the input signal goes below the trip point. 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

Nominal line to line voltage:

120V, 240V, 380V, 480V

Other nominal voltages: Contact the factory

Frequency: 50/60 or 400Hz

Burden: Less than 2.5VA per phase

single units, less than 3VA per
phase combined units

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

All units self-powered.

Setpoint

Range undervoltage: Adjustable 75% to 100% of nominal

Range overvoltage: Adjustable 100% to 125% of nominal

Differential: Fixed at 1%

Repeatability: Better than 0.5% of full span

Time delay: Adjustable from 0 to 10 sec

Operating time: 200 ms, typical

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)

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:

BE3-27T, BE3-59T, BE3-27T/59T								N	
MODEL NO.									
Sensing Input Type	Nominal Input Type	Frequency	External Power	Output Type					
1) Single Phase 3) Three Phase Three Wire 4) Three Phase Four Wire	A) 120Vac B) 240Vac C) 380Vac D) 480Vac S) Special voltage ⚠ ⚠	1) 50/60Hz 2) 400Hz	N) Not required	1) Energize to trip (59T) 2) De-energize to trip (27T) 3) Energize to trip over, de-energize to trip under (27T/59T)					

⚠ For other voltage applications, contact the factory.
 ⚠ Voltages are line to line.

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