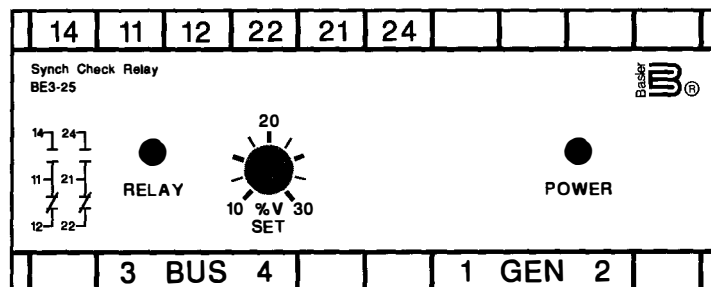


BE3-25 SYNCHRONIZING CHECK RELAYS

APPLICATION:

The BE3-25 series are synchronizing check relays, also known as paralleling relays. They are used to ensure that two AC supplies are synchronized. For a system to be synchronized, the frequency, phase angle, and voltage must be within preset limits. The BE3-25-****4 can monitor either utility mains bus bar and incoming generator, or two generators. The BE3-25-****4 offers user adjustment of the reset voltage from 10 to 30%. This voltage corresponds to 6 to 20 electrical degrees. The unit compares the input voltage and phase relationship of the bus bar to that of the generator. When the signal is within the preset limits, the relay energizes. The BE3-25-****5 operates as the BE3-25-****4, but has the additional feature of a dead bus facility. This enables the relay to energize with a generator supply only, which is a common requirement when utility mains failure occurs.

CASE CONNECTIONS:



GENERAL SPECIFICATIONS:

Input

Nominal voltage: 120V, 240V, 380V, 480V
 Other nominal voltages: Contact the factory
 Frequency: 50/60 or 400Hz
 Burden: Less than 4VA terminals marked GEN, less than 2VA terminals marked BUS
 Overload: 1.5 times nominal voltage continuous, 10 times nominal voltage for 3 seconds

All units self-powered.

Setpoint

Range: Adjustable 10% to 30% of generator voltage (6-20 electrical degrees)
 Differential: Fixed at 5%
 Repeatability: Better than 0.5% of full span
 Operating time: 500ms, typical

Weight and Case Size

Approx. 1.32 lbs. (0.6kg), 3.94 in. wide (100mm)

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ULA-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

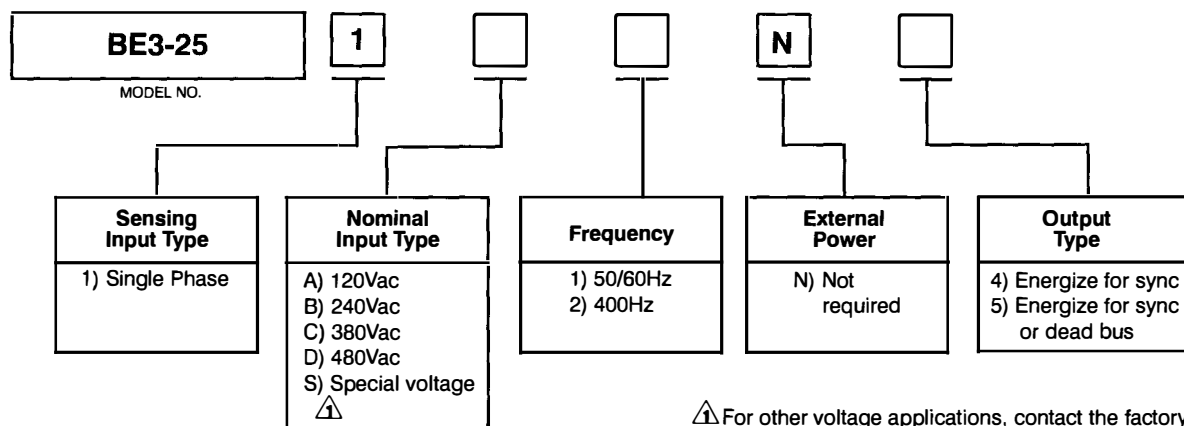
Enclosure

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:

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