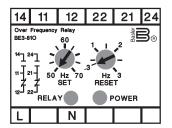


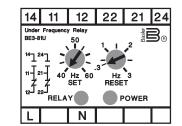
BE3-81O, BE3-81U, **BE3-810/U** FREQUENCY RELAYS

APPLICATION:

BE3 frequency relays provide monitoring, and if the frequency deviates outside the user-adjustable preset limits, the relay will operate. Typically used in protecting generators against over or under speed, this is achieved as speed is proportional to frequency. Other uses include monitoring utility mains power supplies and computer supplies. The user is provided with adjustment of both the trip point of frequency being monitored and the differential. BE3 frequency 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, while a green LED indicates the condition of the power supply. The frequency relay monitors its own power supply so no auxiliary power is necessary.

CASE CONNECTIONS:





22 11 12 21 24 25 28 18 15 14 Over/Under Fre BE3-810/U B® OVER UNDER OVER 14 24 1 °٦ UNDER 440 Hz 30 UNDER HZ 30 OVER RESET 360 Hz 440 SET 160 Hz 440 POWER SET 16 Ν 26

GENERAL SPECIFICATIONS:

Input

120V, 240V, 380V, 480V Nominal voltage: Other nominal voltages: Contact the factory Frequency: 50Hz, 60Hz, or 400Hz Burden: Less than 2.5VA per phase Overload: 1.5 times nominal continuous, 2 times nominal for 3 seconds

All units self-powered.

Setpoint

Range: 50Hz nominal 60Hz nominal Differential: 50 & 60Hz Adjustable 0.3 to 3Hz 400Hz Repeatability: Operating time:

Adjustable 40 to 60Hz Adjustable 50 to 70Hz 400Hz nominal Adjustable 360 to 440Hz Adjustable 3 to 30Hz Better than 0.5% of full span 200 ms, typical

Weight and Case Size

Single unit:

Combined unit:

0.88 lbs. (0.4kg) 2.17 in. wide (55mm) 1.32 lbs. (0.6kg) 3.93 in. wide (100mm)



PERFORMANCE SPECIFICATIONS:

Environmental

Operating temperature: 0° C to $+60^{\circ}$ C (32° F to 140° F) Functional temperature: -25° C to $+70^{\circ}$ C (-13° F to 158° F) Storage temperature: -40° C to $+70^{\circ}$ C (-40° F to 158° F) Temperature coefficient: 0.03% per $^{\circ}$ C (200ppm/ $^{\circ}$ 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: AC Rating: DC Rating: Mechanical Life:

Enclosure

Mounting:

Enclosure code: Material: D.P.D.T. 250V, 5A, nonresistive,1200VA 125V, 1A, resistive, 120 watts 5 million operations

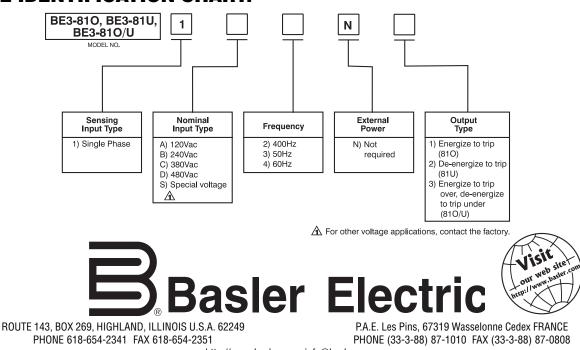
Snap onto DIN rail 1.38in. x .29in.(35mmx7.5mm), complies with DIN-EN 50022, BS 5584 Any position Case IP 50, terminals IP 30 Complies with UL 94 VO

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:



http://www.basler.com, info@basler.com