

EFR-2 Latched Universal Earth Leakage Protection Relay



Two new models in the **EFR2** range of **OPTIMA** earth fault protection relays giving latched capability.

The **EFR2-L** gives non-fail safe latched protection where reset is required without voltage supply to the relay. With volt loss to the unit the relay does not trip.

With Earth fault detection above the preset levels of current and time, the relay will trip into a latched condition, also latching LED or lamp indication of the trip. if voltage is removed from the relay, the latched trip remains but for a period of up to 6 hours the relay can be reset without the need for voltage supply.

If a trip occurs and voltage is removed from the unit for a longer period than 6 hours. Returning the voltage supply, the fault indication comes on showing an Earth fault has occurred, if the supply remains on for more than 10 seconds, the system charges its internal supply, so enabling removal of supply, opening the door and resetting the relay without voltage on the unit.

The **EFR2-FSL** gives latched fail safe facility, with discrimination between, voltage loss and Earth Fault when resetting. With volt loss, the relay trips, holds the tripped condition until voltage is restored auto resetting the relay.

With Earth fault detection above the preset level of current and time, the relay will trip into a latched condition, also latching the LED, or lamp indication of the trip. If voltage is removed from the relay, the latched trip remains. when voltage is returned, the relay stays in the trip condition and the trip indication also returns. The relay will only reset by pressing the manual reset button with voltage on.

Terminals are provided to give remote reset and test capability.

Both these new relays have terminals for connection rather than flying leads and have a universal non-isolated supply of 24V to 240V AC/DC and also they can be connected to any of our extensive range of round, rectangular or split current transformers.

See overleaf for full specification.

SPECIFICATION

	EFR2-L	EFR2-FSL
Control Voltage	: 24-240V AC/DC non isolated	24-240V AC/DC non isolated
Trip Current	: 30mA to 2Amps	30mA to 2Amps
Time Delay	: 20mSecs to 2 seconds	20mSecs to 2 seconds
Frequency Range	: 5Hz-800Hz (monitoring)	5Hz-800Hz (monitoring)
Temperature range	: -10°C to +55°C	-10°C to +55°C
Relative Humidity	: 95% non condensating	95% non condensating
Output relay	: Non fail-safe latched Separate N/C and N/O contacts Rated 5 amps 1250VA 415V max	Fail safe latched Separate N/C and N/O contacts Rated 5 amps 1250VA 415V max
Core balance C.T.	: External	External
Controls	: Integral test, reset push button Power on -Green LED Earth Fault Trip -Red LED	Remote reset, remote test Power on -Green LED Earth Fault Trip -Red LED
Connections	: Terminal connections	Terminal connections
Construction	: Totally encapsulated and housed in flame retardant ABS enclosure Din-rail or chassis mounting Finish -Grey RAL7032	Totally encapsulated and housed in flame retardant ABS enclosure Din-rail or chassis mounting Finish -Grey RAL7032
Dimensions	: 70mm x 45mm x 100mm (H x W x D)	70mm x 45mm x 100mm (H x W x D)

In line with our policy of constant improvements, we reserve the right to vary the specifications contained in this leaflet.

The services of our Technical support staff are available for assistance or guidance on earth leakage problems and possible solutions please contact us at:

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