


Earth Fault Relay

D2 EFR 1	Applications, Prospects
<div style="text-align: center;">  </div> <p>What is D2 EFR 1? It is an Earth Fault Relay designed to monitor power systems & Motor / Pump loads and provide a relay operation when an earth leakage / fault occurs. Earth Fault Relay is extremely accurate, easy to set, compact and easy to install. It is DIN Rail mounted & has settable Earth Fault Current with respect to connected 1A or 5A CT secondary. With an external link the trip response time (Instantaneous tripping or delayed tripping) can be selected. Adjustable Trip Time Delay has also been provided for delayed trip response. It is suitable for standard 1A OR 5 A CTs in 3 phases or CBCT or Neutral CT Earth Fault Relay is specially designed to fit as an OE component with Air Circuit Breakers, Vacuum Circuit Breakers or MCCBs using shunt coils. This is an improvised version of existing D2 EFR 1 model with more advantages.</p> <p>Features:</p> <ul style="list-style-type: none"> • Aux. Supply 230, 240, 380, 415 VAC or 30 VDC • Suitable for standard 1A / 5 A CTs in 3 phases • Suitable for standard 1A or 5 A CBCT • Current Setting: 10% - 100% of input • With 1A input the setting range is 100 mA to 1A • With input the setting range is 500 mA to 5A • Selectable Trip delay (Instant or Delayed) • Delayed trip adjustable • 1CO or 2 CO output • Energizes on Fault • Manual / Remote Resetting • Suitable for Shunt Trip Coil or UV Coil • DIN Rail Mounted (56.5 x 76 x 117.5 mm) 	<p>Applications, Prospects</p> <p>Where to use? Earth Fault Relays can find application as an integrated component with ACBs, MCCBs, VCB etc. or Motor control centres, Generator panels, AMF panels etc.</p> <p>Switchgear manufacturers of world repute like Controls & Switchgears, L & T, Siemens have tested & use them.</p> <p>Earth fault protection can be an optional accessory OR can be offered as a packaged component.</p> <p>For Whom? Control Panel Manufacturers, generator panels Builders, Motor Control Panel manufacturers, End Users like Mines, Oil Rigs, Refineries, Fertilizer plants, Cement Plants, Switchgear manufacturers, Oil Immersed Starter, Auto Transformer Starter manufacture</p> <p>Technical specifications:</p> <p>Auxiliary Supply: 24 / 30V DC, 110 / 220 / 380 / 415V AC</p> <p>Rated Current Input: 5A / 1A (Selection Via. Terminals)</p> <p>Terminal 1 & 2: Current Input 5A, Terminal 1 & 3: Current Input 1A Frequency: 50 / 60 Hz \pm 3% Power Consumption: 3 VA Max.</p> <p>Output Relay Contact: 1 CO / (2 CO)</p> <p>Output Contact Rating: 5A, 240V AC (Resistive) Life Expectancy: 0.5×10^6 operations at 100% rating EF Trip Setting: 10% to 100% of rated Current Input (Variable) Set Accuracy: \pm 5% w. r. t. Current input of 100% (Full scale) Trip Time Delay: 0.1 Sec. to 1 Sec. (Adj), Power ON Delay: 1 Sec. to 10 Sec. (Adjustable) Reset: Manual / Remote Reset Indication: ON (Green): ON, EF (Red): Trip Current Sensor: Neutral CT / CBCT Summation CT with secondary current Rating of 1A Or 5A (Protection Class) Operating Conditions: Temperature: 5 $^{\circ}$C to 60 $^{\circ}$C, Humidity: Up to 95% R.H.</p>

Enclosure: DIN Rail mounting Enclosure in ABS material

Dimensions (mm):

Overall: 76 x 56.5 x 117.5 mm.

Mounting: 68 x 27 mm.

Weight (Approx): 550 gm.

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