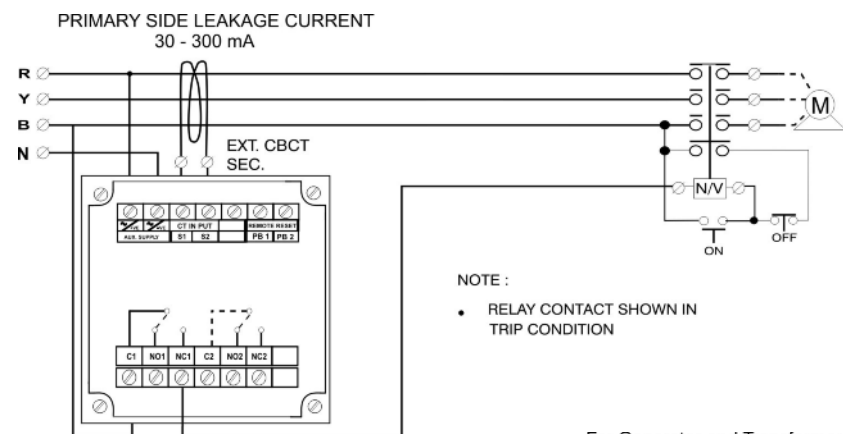
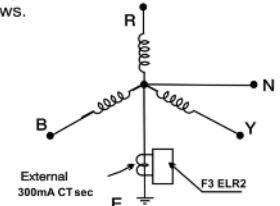


# TECHNICAL DATA SHEET FOR F3 ELR2



Earth Leakage Monitoring of 3 Phase System, Microcontroller based design, Manual / Remote Reset, Sensing 30 - 300 mA Primary Leakage Current, Input through CBCT, Adjustable Trip Settings, Adjustable Trip Delay, 2 CO Relay Output Contacts, Non -Fail safe Relay Output Logic.

For Generator and Transformer application, with 3Ph-4W system, connection of CT can be made as follows.



## Technical Specifications for F3 ELR2

Sr. No.	Parameters	Specifications
1	Auxiliary Supply	24 / 30 V DC $\pm$ 10% 110 - 240 V AC / DC $\pm$ 20%
2	Frequency	50 Hz. / 60 Hz. $\pm$ 3%
3	Power Consumption	3 VA max.
4	Output Relay Contacts	2 CO
5	Output Contact Rating	5 Amp. / 240 V AC (resistive)
6	Life Expectancy	$0.5 \times 10^6$ operations at 100% rating.
7	Rated Input Current	30 mA - 300 mA Primary Leakage Current Input through Minilec ELR CBCT
8	EL Current Trip Settings	30, 60, 90, 120, 150, 180, 210, 240, 270, 300 mA.
9	Power ON Delay	500 mSec. $\pm$ 100 mSec.
10	Trip Time Delay	0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0 Sec.
11	Set Accuracy	For Current : - 10% w.r.t. set value For Trip Delay : $\pm$ 10% w.r.t. Trip Time Delay (Set Value) + 100 Ms.
12	Reset	Manual / Remote
13	Current Sensor	Minilec make ELR CBCT
14	Indications	ON (GREEN) - Power ON EL (RED) - Earth Leakage Trip
15	Test Mode	TEST facility by TEST Push Button
16	Operating Condition	Temperature : -5 $^{\circ}$ C to + 60 $^{\circ}$ C Humidity : Upto 95% Rh
17	Enclosure	F3 Enclosure (ABS)
18	Dimensions (mm)	Overall : 96 x 96 x 80 mm Cutout : 92 x 92 mm
19	Weight (Approx.) in gms.	235 gms (24 / 30 V DC Model) 265 gms (110 - 240 V AC / DC Model)

## Suitable for following Applications :

(1) Generator Panel (2) Synchronizing Control Panels (3) AMF Panels,  
(4) Circuit breaker Panels (ACB / VCB / MCCB With Shunt / UV Trip Coil) (5) MCC Panels (6) Feeder Panels.

## Our Other Products:

Alarm Annunciator, Motor/Pump Protection Relays, EOCR, EMPR, Phase Failure Relay + UV / OV Relays, Voltage/Current/ Frequency/Reverse Power Monitoring Relays, Pump Automation Management system & Controllers, Water Level Controller, Electronic Timers, Power Line Transducers (V/I/KW/Multi-function)/DC-DC Isolators or Barrier/Temp/Resistance/Tap position etc.), Multi-function Meter, Twin Window/Split AC Controller, Bearing temp Monitoring relays (PT-100)