selec

ELCTR35-1

Operating Instructions

OP559-V01

FEATURES

- Inbuilt Core Balance Current Transformer(CBCT)
- Monitors true RMS earth fault current
- LED indication for presence of power supply and fault current
- 'Test' and 'Reset' function
- 1SPDT Output protection relay

SPECIFICATIONS

AUXILIARY SUPPLY
230 VAC (±15%), 50/60 Hz

ELECTRICAL CONNECTION
3 Ø 3 wire, 3 Ø 4 wire or 1 Ø 2 wire systems

VA RATING
15VA max.

TRIP CONDITION
75% of IΔn

RESET TIME
Instantaneous

RESPONSE TIME
< 30ms (For 5x IΔn)
< 50ms (For 1x IΔn)

HYSTERESIS
8% of IΔn

ACCURACY
CURRENT : ± 5% of IΔn
TIME : ± 5% of Response Time

OUTPUT SPECIFICATION
Relay : 1C/O (SPDT)

OUTPUT RATING
N.O. (5A @ 250V AC)
N.C. (5A @ 30V DC)

TEST/RESET FACILITY
Test/Reset function by application of key on Front panel
Reset on power interruption

MEMORY
Storage of the leakage fault (fault storage clear by pressing 'Reset' or on power interruption)

ENVIRONMENTAL SPECIFICATIONS
– Indoor use
– Altitude of up to 2000meters
– Pollution degree 2
–Complies IEC60947-2
Temperature : Operating : 0^{0}C to 55^{0}C
Storage : -20^{0}C to 70^{0}C
Humidity : Up to 95% RH, non-condensing

MECHANICAL SPECIFICATION
No of Push Buttons : 02
Mounting : Din Rail Mount
Screw tightening torque : 0.5 N-M

Weight

LED INDICATION CHART

Conditions	'ON' LED	'R' LED	Relay
Healthy condition	ON	OFF	De-energized
50% Leakage Current of IΔn	ON	BLINK	De-energized
75% Leakage Current of IΔn	ON	ON	Energized

SAFETY PRECAUTIONS

All safety related codifications, symbols and instructions that appear in this operating manual or on the equipment must be strictly followed to ensure the safety of the operating personnel as well as the instrument.

If the equipment is not used in a manner specified by the manufacturer it might impair the protection provided by the equipment.

☛ Read complete instructions prior to installation and operation of the unit.

WIRING GUIDELINES

WARNING

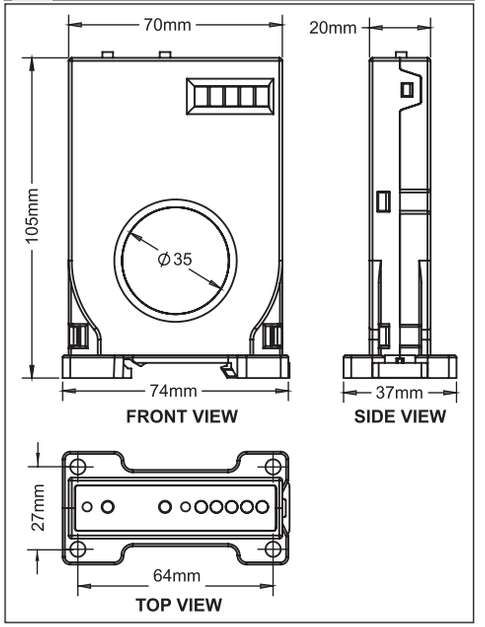
1. To prevent the risk of electric shock power supply to the equipment must be kept OFF while doing the wiring arrangement.
2. Wiring shall be done strictly according to the terminal layout with shortest connections. Confirm that all connections are correct.

CAUTION

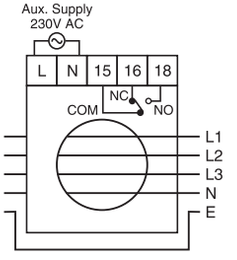
1. To ensure the safe operation of unit, check the wiring and connections.
2. It is recommended to test the unit periodically to satisfy the regulations.

NOTE : - For ELCTR35-1-30mA-230V-CE-RoHS IΔn = 30mA
- For ELCTR35-1-300mA-230V-CE-RoHS IΔn = 300mA

MECHANICAL INSTALLATION



TERMINAL CONNECTIONS



USER GUIDE

Significance of the Test button :
Test button is used to check the proper functioning of the unit even in the absence of leakage current.
i.e To check the proper functioning of unit when there is no leakage current and CBCT connected to unit press the TST button. On pressing TST button, 'R' LED glows and trip relay energises instantly, showing that the unit is working properly.

Significance of the Reset button :
When there is leakage current above 75% of IΔn unit trips ie 'R' LED illuminate. At that time to reset the unit to prior to the fault condition press reset button.

Trip time delay :
The time taken by unit to trip when fault occurs is called trip time delay.
The time delay should be long enough to avoid nuisance tripping caused by harmless transients, yet fast enough to open the circuit when a hazard exists.

WARRANTY / LIMITATIONS OF LIABILITY

Selec warrants the products to be free from defects in the materials and workmanship for a period of one year (or other period specified, if any) from the date of sale by Selec.

The warranty does not apply to defects resulting from any action of the buyer, including but not limited to improper handling, operating the product outside the specification limits or unauthorized disassembling / altering of the product. The warranty shall be VOID if the product shows evidence of having been tampered or being damaged due to usage in corrosive environment ; or current, heat, moisture or vibration ; improper specification ; wrong usage in an application ; misuse or other operating conditions outside of Selec's control.

Selec shall not be responsible for special, indirect or consequential damages, loss of profits or commercial loss in any way connected with the products, whether such claim is based on contract, warranty, negligence or strict liability.

In no event shall the responsibility of Selec for any act exceed the individual price of the product on which liability is asserted.

In no event shall Selec be responsible for warranty or other claims regarding the products unless Selec's analysis confirms that the products were properly handled, stored, installed and maintained and not subject to contamination, abuse, misuse or inappropriate modification or repair.

ORDER CODE INFORMATION

PRODUCT	SUPPLY	CERTIFICATION	
		CE	cULus LISTED
ELCTR35-1-30mA-230V-CE-RoHS	230V AC (±15%), 50/60 Hz	■	–
ELCTR35-1-300mA-230V-CE-RoHS	230V AC (±15%), 50/60 Hz	■	–

(Specifications are subject to change, since development is a continuous process.)

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