



ELSEC AND ELCOR SENSITIVE EARTH FAULT RELAY

The ELSEC and ELCOR present a trusted sensitive earth fault relay and sensor combination to use in motor control centre, soft starter, variable speed drives, direct online and feeder applications.



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ELSEC and ELCOR

The combination of ELSEC and ELCOR is designed to provide reliable and accurate sensitive earth leakage protection of motors, motor control centers, variable speed drives, direct on-lines, cables and human life on the lowest sensitive trip threshold.

For well over a decade, the combination has been, and still is, available for both instantaneous trip settings as well as with IDMT curves, dependent on the application and requirements of the end-user.

A trip test button, which works in conjunction with the ELCOR sensors' trip winding, is a standard feature in all ELSECs. The availability of this function made ELSEC a forerunner in the industry for ease of legally required in-situ/on-site annual audit of protection devices as per IEC requirements as well as local health and safety requirements. It does allow for instantaneous trip testing by push of a button as opposed to the costly and time consuming testing with external equipment.

For user benefit, the front panel of the ELSEC is equipped with a button to reset the relays after a trip.

Why buy an ELSEC and ELCOR combination

Both ELSEC and ELCOR are designed, manufactured and supported in South Africa to meet the needs of our harsh climate.

Over decades the ELSEC and ELCOR combination have established themselves as the industry standard for reliable and accurate sensitive earth leakage protection.

The ELSEC relay comes standard with a test button and the ELCOR sensors are fitted with a trip winding. The two work in conjunction with each other to test the integrity and health of the protection functionalities expected of the combination.

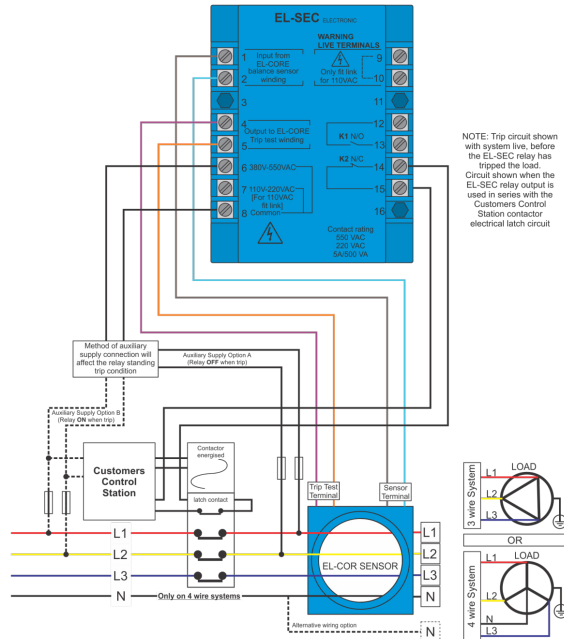
The reliable protection functionality, as well as the built-in test feature, result in substantial cost savings to the end-user.

The ELSEC and ELCOR combination provides optimal protection for personnel and equipment from hazardous touch potential, electrical shock, and all damages associated with an earth fault condition.



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Key features and functions for the ELSEC and ELCOR



Sensor Core for cable application (toroidal) is offered with an internal diameter size of 30mm, 55mm and 100mm.

Any sensitivity on the ELSEC may be used with any size toroidal ELCOR.

Sensor core for Busbar applications (rectangular) are offered in two sizes, medium rectangular core with internal dimensions of 259mmx60mm and a large rectangular core with internal dimensions of 375mm x 119mm.

Unlike with the toroidal ELCOR option, the rectangular ELCOR has to be paired with an ELSEC Relay.

Relays are offered to respond either instantaneously or with a prescribed time delay.

System and auxiliary parameters

Trip accuracy of +/-20%

Maximum voltage of 690VAC through core with an auxiliary supply of 110-220VAC or 380-550VAC +/-20%

Maximum auxiliary supply burden of 25VA @ 550V and 5VA @ 220V

Relay outputs: Contact form of 1 x N/O & 1 x N/C

The contact load measures 5A 550V AC (cos @1) and 5A 32V DC (L/R = 0ms)

Contractor coil operation AC15 is 1.5A 480V AC

Solenoid operation DC13 is 2A 60V DC, 50ms

LED trip indication will continue for approximately 3hrs after power failure.

Note relays will be de-energised during this period.



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