

EARTH LEAKAGE (373-ELR) PROTECTION RELAYS

KEY FEATURES

- Precision digital settings
- LED bar graph display 10 selectable trip levels – 30mA to 10A
- 16 selectable time delay Oms to 10 seconds
- Less than 40ms response time 0-1mA analogue output
- 8 amp 250V rated relay contacts
- User selectable energize or de-energize link
- Double-pole change over relay
- Single-pole pre-alarm
 option

TE Connectivity's (TE) Crompton Instruments Earth Leakage Protection Relays (373-ELR) offer a standard DPCO version, incorporating a single set point, LED leakage level indicator, and double-pole change over relay contacts. An optional pre-alarm version is available, where the main setpoint relay has two single-pole change-over contacts, one which will de-energize on trip function and the other at 60% of the selected setting.

This protection relay does not check the continuity of any part of the earthing circuit.

The 373-ELR is designed for secondary protection due to the externally connected current transformer and contactor components. Life protection devices require an integral CT and mains contactor.

Residual current devices are used to detect potentially dangerous earth fault currents before damage is caused. An undetected fault current may lead to cables overheating, which could start a fire. If high fault currents are involved, hazardous voltages may also appear on earthed equipment, putting lives at risk. The 373-ELR earth leakage protection relays allow the fault current to be continuously monitored and compared with the user-selectable leakage level. Should the leakage exceed this level, the relay will trip to indicate a fault condition. With a very fast response time of under 40ms, the supply can be disconnected before serious damage can occur. This product is intended to provide a high degree of earth leakage protection and monitoring for any electrical equipment, specifically motors and their control gear, generator sets and transformers

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PRODUCT SPECIFICATION

Measuring input	From core balanced current transformer	
Overload	20 x nominal for 1 second	
Frequency	50Hz or 60Hz +/-10%	
Auxiliary voltage	12-48V DC, 24-48V AC and DC or 100-250V AC and DC	
Auxiliary burden	Less than 1.5 Watts	
Trip current settings	Selectable 30mA, 100mA, 200mA, 300mA, 500mA, 1A, 2A, 3A, 5A, 10A	
Trip accuracy	50% <trip 1543<="" <100%="" accordance="" current="" iec="" in="" point="" th="" with=""></trip>	
Trip response time	<40ms (at 5 x rated trip current, ignoring the selected time delay)	
Time delay set points	Selectable Oms, 50ms, 100ms, 150ms, 200ms, 300ms, 400ms, 500ms, 600ms, 700ms, 800ms, 900ms, 1 second, 2 seconds, 5 seconds, 10 seconds. When 30mA leakage is selected, the time delay is disabled	
Indication	5 yellow LED bar graph for leakage levels. Red LED indicated trip function Green LED indicated auxiliary power presence. Red LED pre-alarm indica- tion (SPCO version only)	
Relay contacts	Standard: 2-pole change over. Option: 2 1-pole change over (pre-alarm and main alarm)	
Relay contact rating	8 amps at 250V AC. 8 amps at 30V DC resistive	
Relay mechanical life	>100,000 operations	
Analogue output	0 to 1mA = 0 to 100% of selected tripping level. Compliance 1V, accuracy 10%	
Enclosure style	DIN 43880, rail width 70mm	
Material	Flame retardant UL94V0	
Terminals	1 to 4mm2 solid or stranded conductors. IP20 protection	
Operating temperature	-10°C to +60°C	
Storage temperature	-20°C to +70°C	
Relative humidity	<95% non condensing	
Weight	<250g	
Dimensions	71mm widex90.5mm highx73mm deep 2.79" widex3.56" highx2.87" deep	

PRODUCT CODES – DOUBLE-POLE CHANGE OVER RELAY				
50Hz	12-48V DC	373-ELRW-CBC5-A1-ST		
50Hz	24-48V AC and DC	373-ELRW-CBC5-A2-ST		
50Hz	100-250V AC and DC	373-ELRW-CBC5-A3-ST		
60Hz	12-48V DC	373-ELRW-CBC6-A1-ST		
60Hz	24-48V AC and DC	373-ELRW-CBC6-A2-ST		
60Hz	100-250V AC and DC	373-ELRW-CBC6-A3-ST		

PRODUCT COD	DES – PRE-ALARM SINGLE	-POLE CHANGE OVER RELAY
50Hz	12-48V DC	373-ELRW-CBC5-A1-PA
50Hz	24-48V AC and DC	373-ELRW-CBC5-A2-PA
50Hz	100-250V AC and DC	373-ELRW-CBC5-A3-PA
60Hz	12-48V DC	373-ELRW-CBC6-A1-PA
60Hz	24-48V AC and DC	373-ELRW-CBC6-A2-PA
60Hz	100-250V AC and DC	373-ELRW-CBC6-A3-PA

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Dimensions







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