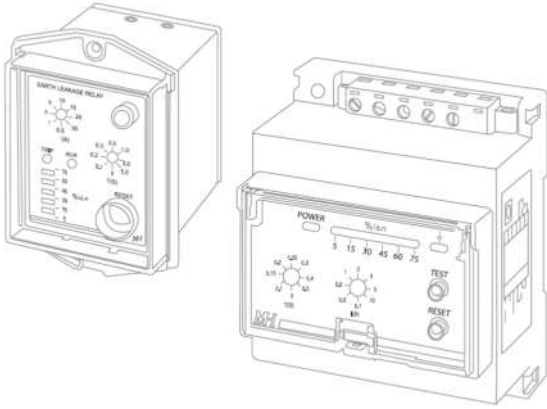


## ELxx / ELxxP series Earth Leakage Relay

### Operating Instructions



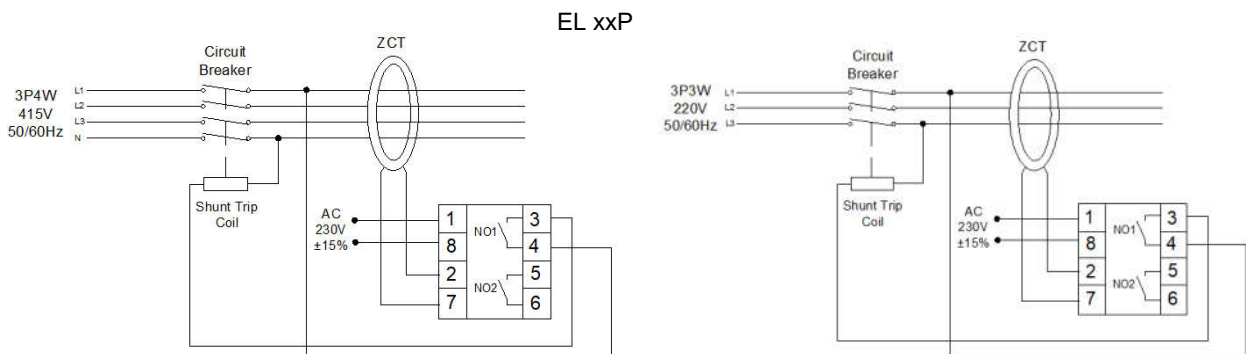
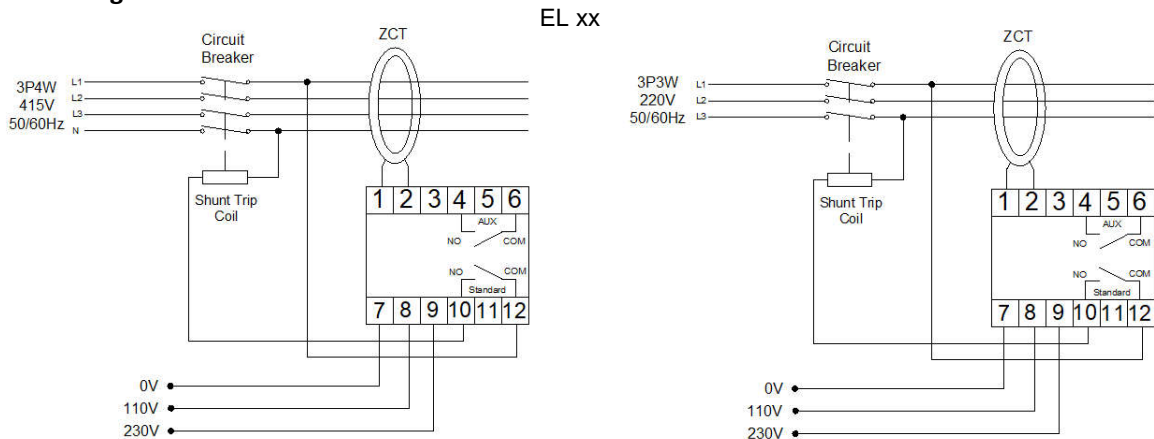
#### Features

- Manual test button for relay functional check
- Real time monitoring of leakage current (%)
- Detection of 'No-connection' of ZCT (Zero Phase Current Transformer)
- Tamper-Proof design for setting protection
- Manufactured in accordance with IEC 60255 Series

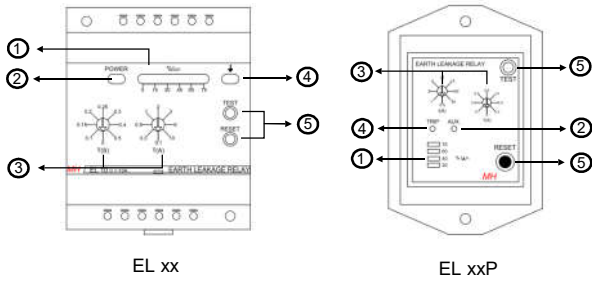
#### Technical Data

<b>Power supply</b>	AC110/230V (ELxx) $\pm 15\%$ AC 230V (ELxxP) $\pm 15\%$ (other voltages available upon request)	
<b>Operating frequency</b>	50/60Hz	
<b>Current setting</b>	EL 03/03P: 0.03/0.1/0.3/0.5/1/1.5/2/3 EL 10/10P: 0.1/0.3/0.5/1/2/3/5/10 EL 30/30P: 0.5/1/3/5/10/15/20/30	
<b>Delay Time setting</b>	0-0.5 sec	
<b>Pick-up current</b>	80% of the setting current	
<b>Operating and storage temperature range</b>	Operating -10°C to 55°C Storage and transit -20°C to 65°C	
<b>Relative humidity (IEC 60068-2-30)</b>	95% at +40°C	
<b>Degree of protection (IEC 60529)</b>	IP31 (Front), IP20 (Back)	
<b>Output contact</b>	<b>Relay Output</b>	2 x N/O (Normally Open)
	<b>Contact Rating</b>	5A at 250V
	<b>Electrical Life</b>	1 x 10 <sup>5</sup>
	<b>Mechanical Life</b>	1 x 10 <sup>6</sup>
<b>Indication</b>	Red LED (relay tripped/ZCT Link Fault(Blink)) Green LED (Power ON)	
<b>Housing material</b>	ABS resin complying with UL94VO	
<b>Unit Weight</b>	Approximately 300g	
<b>Power consumption</b>	$\leq 2.5VA$	

#### Connection Diagram



## Overview



- (1) Real Time Current Reading (%)      (4) Trip Indicator  
 (2) Power ON LED                              (5) Test and Reset Button  
 (3) Current and Time Setting knob

## Operation Description

### Contact

The relay is equipped with 2 sets of NO contact relay. The contact will energise after the delay time lapse during a fault.

### Current Setting

- This is to set the threshold of the earth leakage current, the pick up current is About 80% of the set current, the relay pick up and trips when delay time Lapse, the voltage free contact will close which in turn trip the breaker.

### Time Setting

- This is to set the time delay for the relay is trip after detecting a fault
- Time setting range: 0 - 0.5 sec

### Button

- Test Button: This is to check the functionality of the relay  
Press to simulate a Earth leakage to trip the relay.
- Reset Button: This is to reset the relay after tripping  
Press on to reset the relay to resume operation

## Standards Compliances

Product Standard	IEC 60755, IEC 60255 Series
Product Safety Requirements	IEC 60255-27
Electromagnetic Compatibility	CISPR11/22 (IEC 60255-26)
	IEC 61000-4-2 (IEC 60255-26)
	IEC 61000-4-3 (IEC 60255-26)
	IEC 61000-4-4 (IEC 60255-26)
	IEC 61000-4-5 (IEC 60255-26)
	IEC 61000-4-6 (IEC 60255-26)
	IEC 61000-4-8 (IEC 60255-26)
Vibration, Shock and Bump	IEC 61000-4-11 (IEC 60255-26)
	IEC 60255-21-1 IEC 60255-21-2
Dry Heat, Damp Heat, Steady State, Cyclic Temperature with Humidity	IEC 60068-2-2 (IEC 60255-1)
	IEC 60068-2-78 (IEC 60255-1)
	IEC 60068-2-30 (IEC 60255-1)

## Dimension & Cut Out (in mm)

