

Earth Leakage Relays are used by OEMs in combination with fault breaking devices such as MCBs and MCCBs, to provide earth leakage detection in special distribution panels under the control of an Authorised Person.

The OEM tests the combination to verify that the total disconnection time is in conformity with EN60947-2 Annex M.

- ✓ Adustable trip current and time setting.
- ✓ Compact design combined ELRC-1 /... Type A
- ✓ Flexible design ELR -3E or ELR-3C used with separately mounted residual current transformer CT-1/... Type A
- ✓ ELR-3B and ELR-3B10 with display screen used with separately mounted residual current transformer CTB-1/... Type B



ELRC-1/...



CT-1/...



ELR-3C

Product Standard: EN 60947-2 Annex M

Ordering reference: see below

ELRC - 1/... Earth leakage relay - Type A Control supply 110-125V ac/dc, 220-240V ac, 380-415V ac			
Monitoring: Voltage < 415V 50/60Hz			
Internal Diam. in mm	Contacts C/O	Setting range	Reference
35	1	0.025 < 25 A	ELRC-1/35
60	1	0.025 < 25 A	ELRC-1/60
80	1	0.025 < 25 A	ELRC-1/80
110	1	0.025 < 25 A	ELRC-1/110



ELR-3E Earth leakage relay - Type A Control supply 110-125V ac/dc, 220-240V ac, 380-415V ac			
Monitoring: Voltage < 415V 50/60Hz			
Modules	Contacts C/O	Setting range	Reference
3	1	0.03 < 1 A	ELR-3E

**ELR-3E
DIP switch
adjustment**



ELR-3C Earth leakage relay - Type A Control supply 110-125V ac/dc, 220-240V ac, 380-415V ac			
Monitoring: Voltage < 415V 50/60Hz			
Modules	Contacts C/O	Setting range	Reference
2.5	1	0.025 < 25 A	ELR-3C

ELR-3C
Potentiometer adjustment



CT-1/... Residual current transformer Type A for use with ELR-3E & ELR-3C relays			
Monitoring: Voltage < 415V 50/60Hz			
Internal Diam. in mm	Rated Voltage	Minimum Meas. Current in mA	Reference
35	415V	25	CT-1/35
60	415V	25	CT-1/60
80	415V	100	CT-1/80
110	415V	250	CT-1/110



ELR-3B Earth leakage relay - 0.03 < 3A - Type B				
control supply voltage - ordering reference				
Monitoring: Voltage < 415V 50/60Hz / CT Type B				
Modules	Contacts C/O	Control Supply	Setting range	Reference
3	2	230V AC	0.03 < 3A	ELR-3B
3	2	24 or 48V AC*	0.03 < 3A	ELR-3B 24 125
3	2	110V AC	0.03 < 3A	ELR-3B 110VAC
* 24-125 version also suitable for use with 48V /125V DC				

ELR-3B includes a display to quickly view settings, leakage current and alarms.



ELR-3B must be used in conjunction with a separate Control Type B CTB-1 transformer.

ELR-3B10 Earth leakage relay - 0.3 < 10A - Type B				
control supply voltage - ordering reference				
Modules	Contacts C/O	Control Supply	Setting range	Reference
3	2	230V AC	0.3 < 10A	ELR-3B10
3	2	24 or 48V AC*	0.3 < 10A	ELR-3B10 24 125
3	2	110V AC	0.3 < 10A	ELR-3B10 110VAC
* 24-125 version also suitable for use with 48V /125V DC				

**CTB-1/... Residual current transformer Type B
for use with ELR-3B & ELR-3B10 relays**

Internal Diam. in mm	Minimum* Setting mA	Minimum Meas. Current in mA	Reference
35	30	25	CTB-1/35
60	≥ 300	25	CTB-1/60
80	≥ 300	100	CTB-1/80
110	≥ 300	100	CTB-1/110
160	≥ 500	100	CTB-1/160

* Minimum recommended setting for ELR-3B associated with CTB diameter



Have a question? Please **contact us today**
Tel: **01628 829133** email: **sales@doepke.co.uk**

Doepke UK Ltd

Version 2 03/08/2023