ELR-40 | ELR-4mo | ELR-4v | ELR-4mv

EARTH LEAKAGE RELAY - FLUSH-MOUNT VERSION DIN 48x96 mm

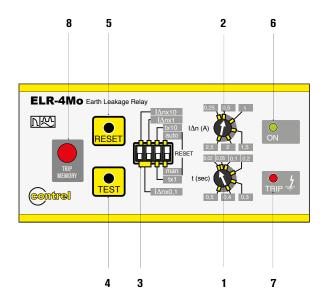


GENERAL CHARACTERISTICS

- · Earth leakage relay type A
- External toroidal
- Green power LED indicator (ON)
- Red relay tripped LED indicator (TRIP)
- Front TEST and RESET buttons
- · Configurable automatic or manual resetting
- Flag indicator (TRIP MEMORY) (ELR-m4o, ELR-m4v only)
- Flush mount 48x96mm housing with transparent cover
- Degree of protection: IP20 terminals, IP40 on front with cover

ORDER CODE	RATED AUXILIARY Supply Voltage	OUTPUTS CONTACTS	WT [kg]
ELR-4v 48	24-48 VAC/DC	2	0,390
ELR-4v 415	110 VAC/DC-240-415 VAC	2	0,390
ELR-4o 48	24-48 VAC/DC	2	0,390
ELR-4o 415	110 VAC/DC-240-415 VAC	2	0,390
ELR-m4v 48	24-48 VAC/DC	2	0,390
ELR-m4v 415	110 VAC/DC-240-415 VAC	2	0,390
ELR-m4o 48	24-48 VAC/DC	2	0,390
ELR-m4o 415	110 VAC/DC-240-415 VAC	2	0,390

OPTIONS	
T	Tropicalisation
F	Built-in filter for 3rd harmonic



ADJUSTMENTS				
Configurable tripping set-point (I∆n)		0,0250,25A 0,252,5A 2,525A 2525OA (with external multiplier CT1-M)		
Configurable 0,020,5s tripping delay time (t) 0,020,5s		0,020,5s 0,25s.		
LEGEN	DA			
1	Tripping delay time adjustment			
2	Fault current to earth adjustment			
3	Dip switches settings: 3a - auto reset (A) - man reset (M) auto reset = automatic reset man reset = manual reset through RESET key on the front. For remote resetting, simply shut off the auxiliary supply for about 1 second 3b - tx10 - tx1 constant selection for tripping delay time adjustment. Examples: positioning the dip switch on tx10 and the potentiometer on 0.3 we will have a tripping delay upon exceeding the I Δ n threshold of 0.3x10 = 3 seconds; positioning the dip switch on tx1 and the potentiometer on 0.3 we will have a tripping delay upon exceeding the I Δ n threshold of 0.3x1 = 0.3 seconds 3c - I Δ nx0,1 - I Δ nx1 - I Δ nx10 constant selection for fault current to earth adjustment. The constants in relation to the position I Δ nx0.1 and I Δ nx0.1 K = 0.1 • dip switch position I Δ nx1 and I Δ nx0.1 K = 1 • dip switch position I Δ nx1 and I Δ nx0.1 K = 10			
4	TEST key. Causes tripp	oing of the relay.		
5	RESET key. To reset the relay after tripping. For remote reset, simply shut off the auxiliary supply for about 1 second.			
6	ON LED. Indicates the	presence of auxiliary voltage.		
7	TRIP LED. Lighting up indicates the cutting in of the TRIP relay due to exceeding the $I\Delta n$ set.			
8	TRIP MEMORY (versions ELR-m4o, ELR-m4v) Mechanical trip relay indicator for exceeding the l∆n set. It stores the indication also in the lack of auxiliary voltage. The flag indicator resetting can only be made			

with the RESET button.

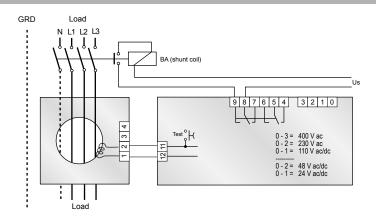


ELR-40 | ELR-4mo | ELR-4v | ELR-4mv

EARTH LEAKAGE RELAY - FLUSH-MOUNT VERSION DIN 48x96 mm

TECHNICAL CHARACTERISTICS	ELR-4 / ELR-m4	
CONTROL CIRCUIT		
Toroidal transformer	External	
Adjustments tripping set-point (I∆)	0.025÷25A (25÷250A with external multiplier)	
Adjustments tripping time (t)	0.02÷5s	
AUXILIARY SUPPLY		
Auxiliary voltage (Us)	24-48 VAC/DC 110 VAC/DC-240-415 VAC	
Rated frequency	50-60 Hz	
Maximum power consumption	4 VA	
OUTPUT RELAYS		
Contact arrangement	1 changeover (trip)	
Rated contact capacity Ith	5 A (240 VAC)	
INDICATIONS		
Auxiliary voltage available (ON)	Green LED	
Relay tripping (TRIP)	Red LED	
Mechanical flag (TRIP)	Flag indicator (versioni ELR-m4)	
INSULATION		
Insulation test	2.5kV for 1 minute	
AMBIENT OPERATING CONDITIONS		
Operating temperature	-10÷60 °C	
Storage temperature	-20÷80 °C	
Relative humidity	≤90%	
ENCLOSURE		
Version	Flush mount 48x96mm	
Degree of protection	IP20 terminals IP40 with protective cover	
CERTIFICATIONS AND COMPLIANCE		
Reference standards	IEC/EN 61010, IEC/EN 61000-6-2 IEC/EN 61000-6-3, IEC/TR 60755 CEI EN 60947-2 Annex M	

WIRING CONNECTION



MECHANICAL DIMENSIONS

