



ELR & CBCT Serisi

EARTH LEAKAGE RELAYS & CORE BALANCE CURRENT TRANSFORMERS

Wide Auxiliary Range
(220 – 415VAC / 220VDC)

Manual & Auto
Reset Option

Configurable Earth
Leakage Trip Time
(0sec-10sec)

TEST Feature to
Check Product
Functionality

Wide Range of
Earth Leakage
Current: 30mA- 30A

Adaptability to
Diverse Panel Designs with
Varying CT Sizes



FEATURES

	ELR-30-M	ELR-30-A
Earth Leakage Relay Type	Type A	
Power Supply		
Supply Voltage	220-415VAC / 220VDC -20% to +20%	
Power Consumption (Max.)	10VA	
LED Indication	ON (Green Led) ON (Red Led) Relay Trip / Blinking (CT OPEN)	
Power ON EL / CT Leakage Current/ TST	BY bar graph 30%(Green), 45%(Green), 60%(Yellow), and 75%(Red), Blink Test/Reset Switch is pressed	
Threshold Δn (A)	0.03 – 0.1 – 0.3 – 0.5 – 1 – 3 – 5 – 10 – 20 – 30	
Frequency	50-60Hz	
Relay O / P Characteristics		
Contact Rating	1 C/O + 1 NO; 5 A (Resistive) @ 240 VAC / 30 VDC	
Contact Arrangement	1 C/O SPDT and 1 NO SPST	
Utilization Category (AC-15)	3.0 A at 120 V & 1.5 A at 240 V	
Utilization Category (DC-13)	0.22 A at 125 V & 0.10 A at 250 V	
Mechanical Life Expectancy	1X10 ⁷	
Electrical Life Expectancy	1X10 ⁵	
Contact Material	Ag Alloy	
Feature Characteristics		
Reset	Manual Reset	Auto Reset
No. Of Auto Resets	-	4
Clear Auto Reset	After 1 hour of healthy condition or supply interruption	
Test / Reset	Local and Remote (Non Potential Free Contacts) (Up to 10 m)	
At Settings (s)	0.040 – 0.06 – 0.15 – 0.25 – 0.5 – 0.8 – 1 – 2.5 – 5 – 10	
Reset Enable	Below 50% of set Δn in presence of CBCT	
Reset Time	<1 s	
Type Class	'A' True RMS measurement upto ΔI 1A (as per IEC 60947-2 Annex M) 'AC' True RMS measurement 30mA to 30A (as per IEC 60947-2 Annex M)	
Setting Accuracy	-20% (Including CBCT accuracy)	
Repeat Accuracy	± 2%	
Ambient Conditions		
Storage Temperature	-20°C to +80°C	
Operating Temperature	-15°C to +60°C	
Relative Humidity	5 to 95% Rh (without condensation)	
Max. Operating Altitude	2000 m	
Degree of Protection	IP-20 for Terminals, IP-40 for Enclosure	
Operating Position	Any	
Pollution Degree	II	
Others		
Mounting	Base / Din Rail	
Dimensions in mm (W X H X D)	36 X 90 X 65	
Weight Approx. (Un-packed)	150g	
Certification	CE RoHS	

CBCT for Type A & AC Current				
Product Code	CBCT-70	CBCT-92	CBCT-120	CBCT-210
CBCT-70	37x133x109.3	37x176x153	37x155x132	37x282x250
CBCT-92	70mm	92mm	120mm	210mm
CBCT-120	160A	200A	250A	400A
CBCT-210	30mA to 30A	30mA to 30A	30mA to 30A	30mA to 30A

RECTANGULAR CURRENT TRANSFORMERS	
	CBCT-R-350
Turns Ratio	1 : 1500
Rated Frequency	50-60Hz
Leakage Current Range	30mA... 30A
Rated Operational Current	up to 2500A
Rated Short Time Current	25KA/1sn.
Max. Permissible Current	20KA/1sn.
Impulse Withstand Voltage	5KV
Dielectric Withstand	2KV
Operating Temperature	-20°C...+65°C
Storage Temperature	-20°C...+85°C
Dimension(mm)	350 x 150x 30mm
Weight(Kg)	3.7Kg

ELR

Dimensions (mm)

CBCT	SIZE	WEIGHT (gr)	A	B	C	D	E
CBCT-70	70	240	20	109	133	27	60
CBCT-92	92	250	20	132	155	27	73
CBCT-120	120	255	20	153	176	27	73
CBCT-210	210	280	20.5	250	282	28	128

RATIO A/A	DIMENSIONS					Weight
	C	D	E	F/G	A	
1500/1	445	240	30	405/200	350 150	3,7 KG

HEADQUARTERS

Address: Dudullu OSB; 1. Cadde; No: 23 34776 Umraniye - ISTANBUL / TURKIYE Tel: +90 216 313 01 10 Fax: +90 216 314 16 15 Sales Fax: +90 216 365 71 71
E-mail: contact@entes.eu Web: www.entes.eu Call Center Technical Support: 0850 888 84 25 Coordinates: 40,995852 N, 29,178398 E

INTERNATIONAL BRANCH OFFICES

ISTANBUL : contact@entes.eu Tel: +90 216 313 01 10 Fax: +90 216 314 16 15
INDIA : contact@entes.in Tel: +91 981 - 2980004
GREECE : contact@entes.eu Tel: +30 2310 706999 +30 2310 707296
GERMANY : kontakt@enteselektronik.com Tel: +49(0) 7022-931992-0

© ENTES Elektronik Cihazlar İmalat ve Ticaret A.Ş.

