

CBCT SERIES

CORE BALANCE CURRENT TRANSFORMERS

Reliable Earth Leakage Monitoring Solutions

Designed for use with Earth Leakage Relays (ELR) and Residual Current Protection Systems.



High Accuracy
Leakage Current Detection



Compatible
with KAR-1 Earth Leakage Relay



Toroidal &
Split Core Models Available



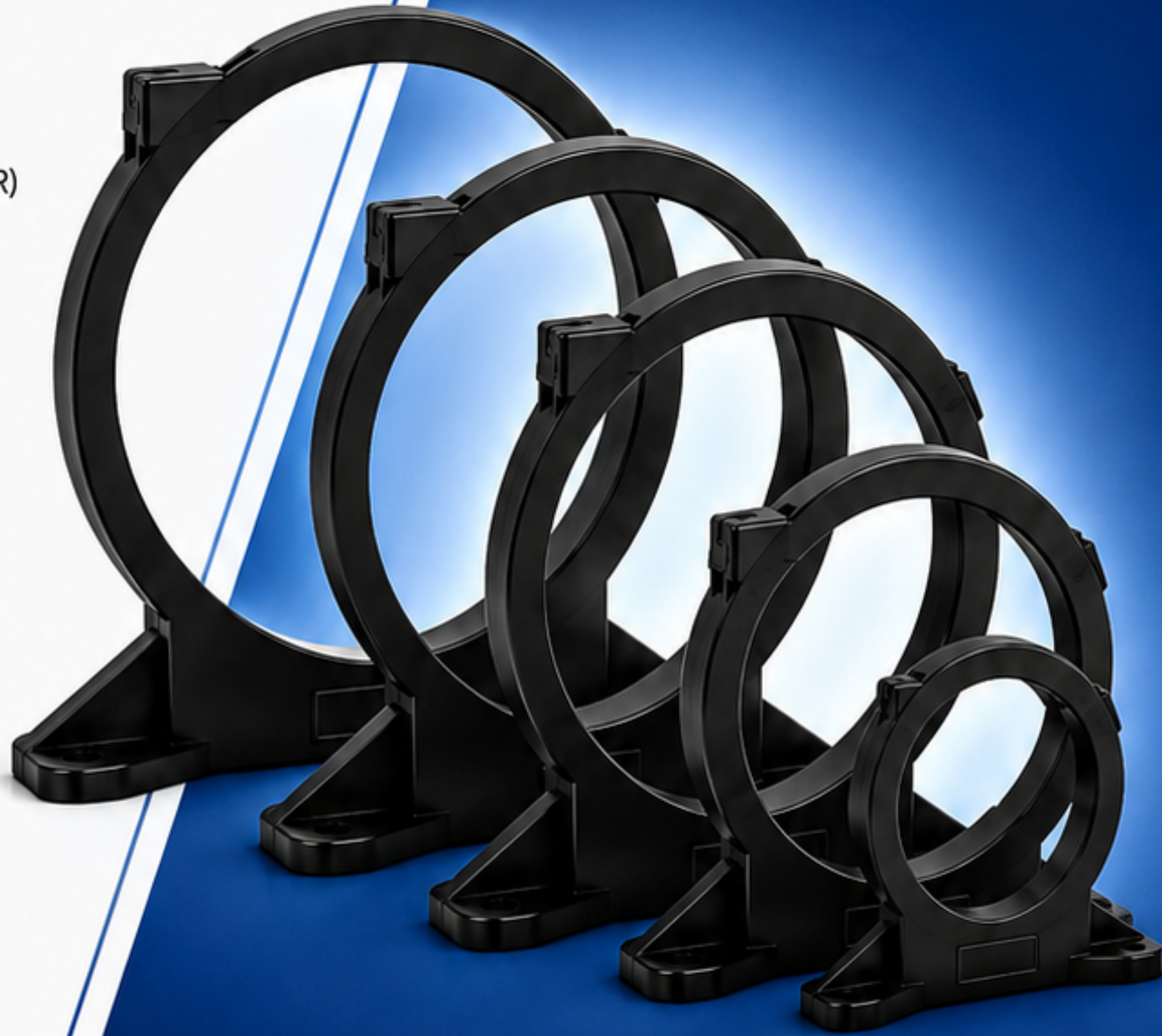
Up to 20kA
Short-Time Current Withstand



UL94 V0
Flame Retardant Material



IEC 60947-2
Compliant



PRODUCT RANGE

TOROIDAL CBCT

- Ø25 mm
- Ø45 mm
- Ø80 mm
- Ø100 mm
- Ø150 mm
- Ø210 mm
- Ø310 mm

SPLIT CORE CBCT

- 200 × 200 mm
- 300 × 300 mm
- 360 × 100 mm
- 500 × 100 mm



Reliable
Protection



Easy
Installation



High
Accuracy



Long
Service Life



ISO
9001

ISO
14001

ISO
45001

Core Balance Current Transformer CBCT

The KAR-1 is compatible with a range of high-quality Core Balance Current Transformers (CBCTs). These CBCTs have been identified as suitable choices to ensure optimal performance and compatibility with the KAR-1 device.

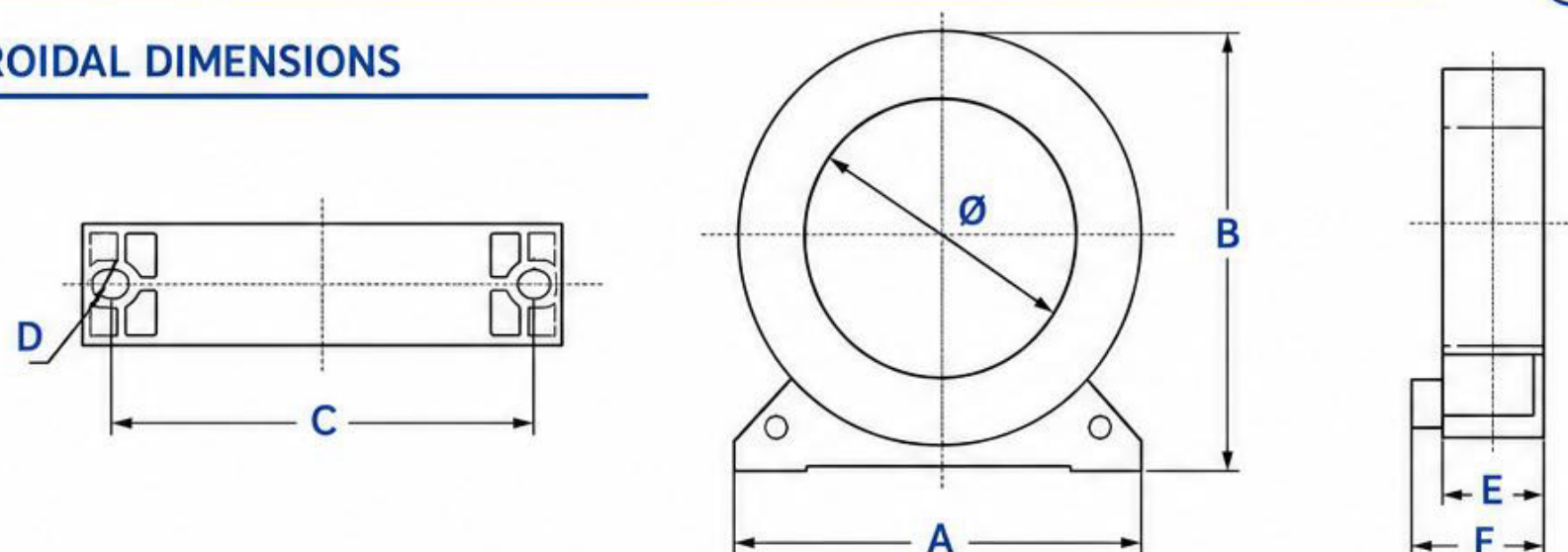
Parameter	Value
Standard	IEC 60947-2 / IEC 60947-2 LV directive 2014/35/EU EMC directive 2014/30/EU
Operating Voltage Rated Value Maximum	1000 V
Nominal Frequency	47...65Hz
Operating Frequency	25...10kHz -3dB
Permissible Current	20kA During 1 second
Material Fire Rating	UL94 V0
Power-Frequency Withstanding Voltage	3kV 50Hz, 1 min.
Installation Category	CAT. III 600V reinforced
Protection Degree	IP20
Insulation Resistance	DC500V/100M
Short Term Overcurrent	6·In (2 s)
Operating Temperature	-20 to +55°C
Storage Temperature	-20...+70°C
Connections	1.5mm ²
Standard	IEC 60947-2

TOROIDAL CURRENT TRANSFORMERS (CBCT)

TYPE	CODE	HOLE SIZE Ø (mm)	AMPERE (A)
TOROIDAL	CBCT-1-25	25 mm	63 A
	CBCT-1-45	45 mm	100 A
	CBCT-1-80	80 mm	400 A
	CBCT-1-100	100 mm	630 A
	CBCT-1-150	150 mm	1250 A
	CBCT-1-210	210 mm	2500 A
	CBCT-1-310	310 mm	3500 A



TOROIDAL DIMENSIONS



- Ø : Hole size (mm)
- A : Overall width (mm)
- B : Overall height (mm)
- C : Base length (mm)
- D : Hole diameter (mm)
- E : Base step (mm)
- F : Overall depth (mm)

CODE	Ø (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
CBCT-1-45	45	78	84	66	5	24	32
CBCT-1-80	80	113	119	101	5	26	34
CBCT-1-150	150	187	195	170	5	27	35
CBCT-1-210	210	259	255	241	5	27	35
CBCT-1-310	310	361	360	342	5	27	35

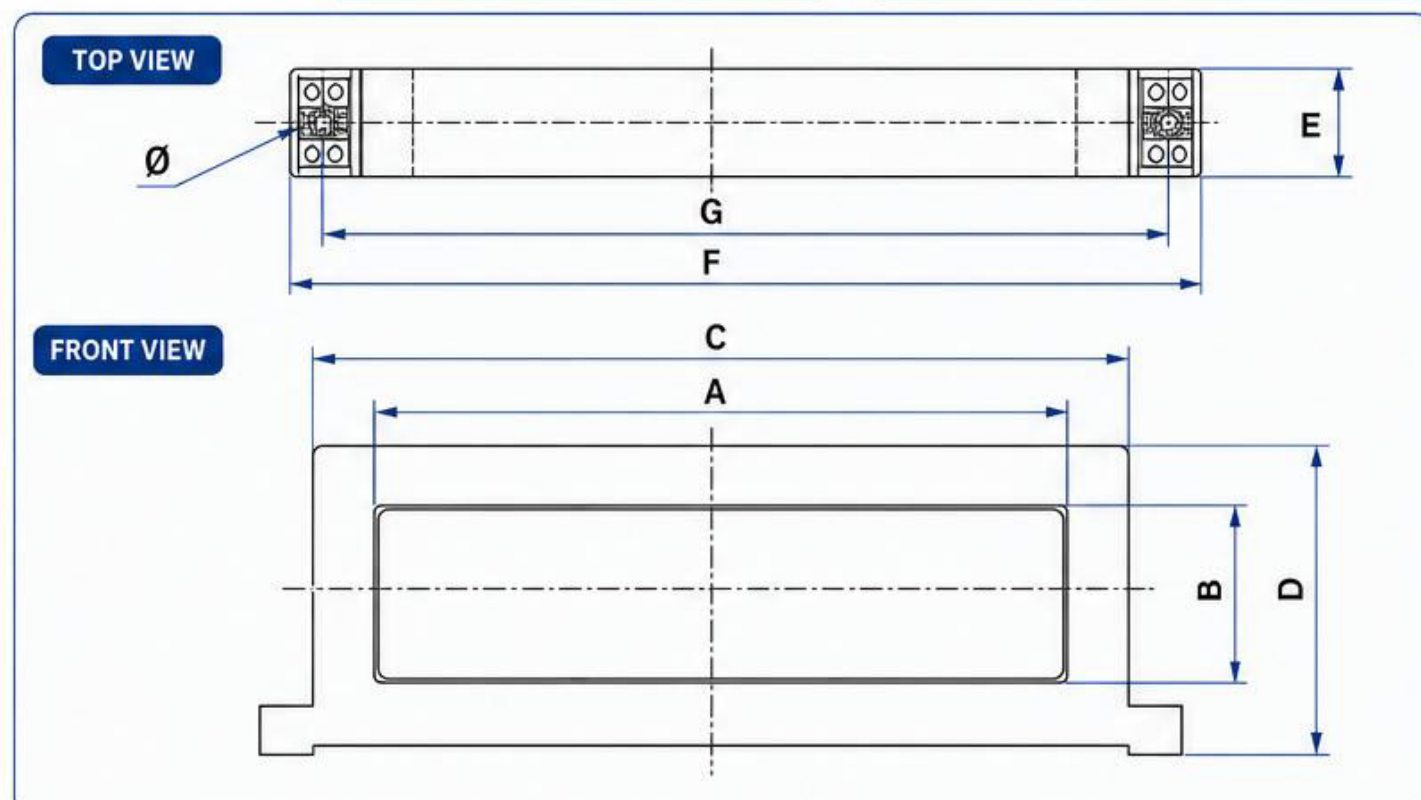
Split Core CBCT

Type	Code	Hole size Ø (mm)	Ampere (A)
 Split Core Rectangular CBCT	KCBCT-1-20-10	200 X 200	2500A
	KCBCT-1-30-10	300 X 300	4000A
	KCBCT-1-36-10	360 X 100	5000A
	KCBCT-1-50-10	500 X 100	5500A



DIMENSIONS

CODE	Ø	A	B	C	D	E	F	G
KCBCT-1-20-10	6	200	200	230	270	30	260	245
KCBCT-1-30-10	6	300	300	330	370	30	360	345
KCBCT-1-36-10	6	360	100	390	160	30	420	405
KCBCT-1-50-10	6	500	100	560	160	30	590	575



i NOTE: All dimensions are in millimeters (mm).