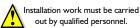
Type: BZCT035, 070, 120 & 210

Circular Toroids

- For use in conjunction with Broyce "Type A" Earth Leakage Relays
- Designed to detect leakage current and transmit a proportional signal to an Earth Leakage Relay
- □ Surface mounting with 4 fixing slots (BZCT210 supplied with separate mounting feet)
- □ Slim design



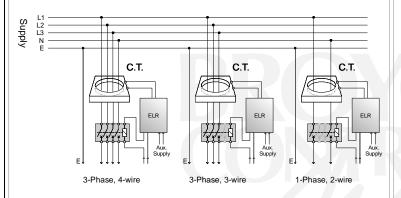
INSTALLATION NOTE



- BEFORE INSTALLATION, ISOLATE THE SUPPLY TO THE CABLES THAT ARE TO BE PASSED THROUGH THE TOROID.
- Installation of the toroid, along with the Earth Leakage Relay must be carried out in accordance with the latest wiring practices and regulations.

• FUNCTION DIAGRAM

Typical connection examples are shown below.



TECHNICAL SPECIFICATION

Size availability* and part

number: 35mm Ø (BZCT035)

70mm Ø (BZCT070) 120mm Ø (BZCT120) 210mm Ø (BZCT210)

Rated system voltage: 720VAC

Insulation level: 3kVAC

Current ratio: 1/1000

Maximum permissible

* internal diameter

rent: IkA continuous 5kA for 1.5Sec. 100kA for 0.05Sec

Minimum I∆n setting on Earth Leakage Relay for

each type of toroid: 0.03A - 35 and 70mm \varnothing

0.1A - 120mm Ø 0.3A - 210mm Ø

Distance between toroid and relay: 50 metres (max.)

Ambient temp: -20 to +60°C

Relative humidity: +95%

Housing: Grey ABS

Mounting option: Panel mount only using fixing slots provided (BZCT210 requires separate mounting feet as supplied)

Terminal conductor size: $\leq 2.5 \text{mm}^2 \text{ solid}$ $\leq 1.5 \text{mm}^2 \text{ stranded}$

Approvals: CE Compliant.
Conforms to: IEC44-1, IEC185 & BS7676

INSTALLATION DO's and DONT's

Correct installation of the Earth Leakage Relay and toroid should ensure trouble free operation, in particular, if this document is followed.

 Always ensure the Earth conductor DOES NOT pass through the toroid. If it is unavoidable, the Earth must be routed back through the toroid again and around, as shown in Fig.2 below.

As a rule, select a toroid that has an inside diameter which is twice that
or greater than the outsider diameter of the cable(s) to be passed
through.

- Ensure the cable is central in the toroid.
- 4. Place the toroid on a straight section of cable, not near a bend.
- Keep the cable and toroid away from intense magnetic fields from nearby equipment.
- 6. DO NOT pass individual conductors through separate toroids, as shown in Fig. 3.

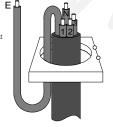
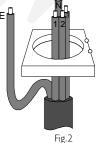


Fig. I



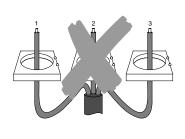
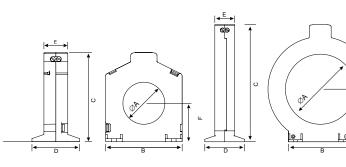


Fig.3

DIMENSIONS



	BZCT035
	BZCT070
	BZCT120
	BZCT210
1	Dimensio
	<u> </u>
	ш
	<u> </u>

Toroid AØ R CD F Weight 64 40 135g 120 155 40 80 170 20 265g 1300g 149 304 60* 145

*exc. mounting feet

BZCT-3-A

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The information provided in this literature is believed to be accurate (subject to change without prior notice); however, use of such information shall be entirely at the user's own risk.

BZCT070, 120 & 210mm

BZCT035