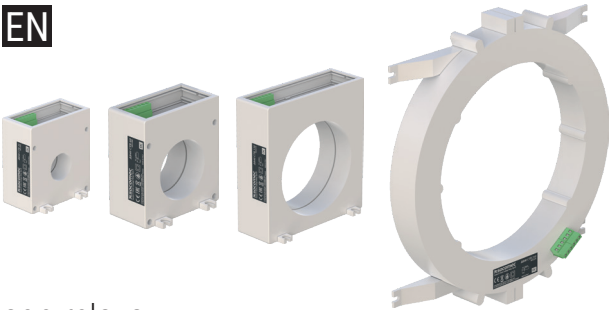




Toroidal current transformers
compatible with type-B earth leakage relays



Socomec Resource Center
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and technical manuals

ΔB40 CTB



WARNING!

- Carefully read the manual before the installation or use.
- This device is to be installed by qualified personnel, complying to current standards, to avoid damages.
- Before any maintenance operation on the device, remove supply inputs.
- The manufacturer cannot be held responsible for electrical safety in case of improper use of the equipment.
- Products illustrated herein are subject to alteration and changes without prior notice.

Introduction

The residual current transformers of the **ΔB40 CTB** range are especially designed to protect and monitor Type-B loads (**IEC 60755**) and are suitable for measuring AC, DC and pulsating leakage currents.

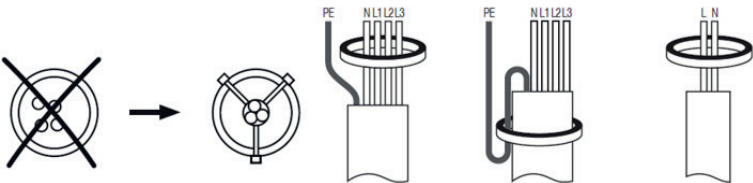
The range of **ΔB40 CTB** differential transformers is designed for use with the **RESYS B40** electronic relays, which give it the associated trip current (sensitivity). They must be crossed by the cables of the line to be controlled; insert the phases and neutral if present. The earth cable must NOT cross the current transformer.

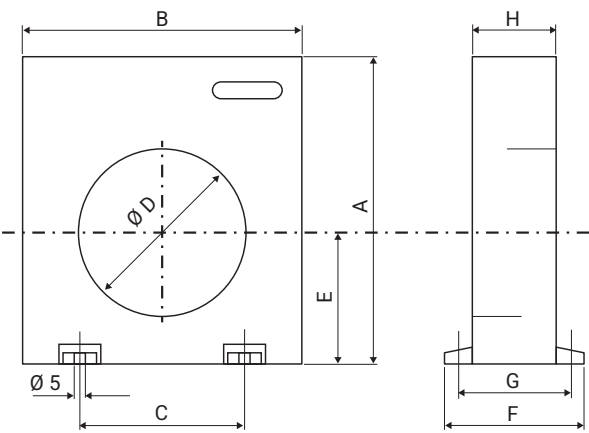
Note: Twist the connection wires between toroid and the relay, keep away from the power cables and in the presence of strong electromagnetic fields use a shielded lead. Reduce the distance between the toroid and the relay to the minimum.

Technical characteristics

Designation	ΔB40 CTB 35	ΔB40 CTB 60	ΔB40 CTB 80	ΔB40 CTB 110	ΔB40 CTB 160	ΔB40 CTB 210	ΔB40 CTB 300
Window frame	Ø 35mm	Ø 60mm	Ø 80mm	Ø 110mm	Ø 160mm	Ø 210mm	Ø 300mm
Minimum rated current of the monitored circuit	30 mA	30 mA	100 mA	100 mA	500 mA	500 mA	500 mA
Mass	255 g	360 g	550 g	610 g	760 g	950 g	2200 g
Differential type	Type B						
Assigned primary current	10A						
Maximum AC voltage (Phase/neutral)	300 Vac						
Assigned withstand voltage (V)	2,5kV						
Type of terminal	Screw (fixed)						
Number of terminals	6						
Conductor cross section (max)	2,5mm²						
Protection degree	IP20						
Operating temperature	-10...+60°C						
Storage temperature	-20...+80°C						
Relative humidity	10...95%						
Reference standards	IEC 62020, IEC60755, IEC 60947-2-M, IEC 61869-2						

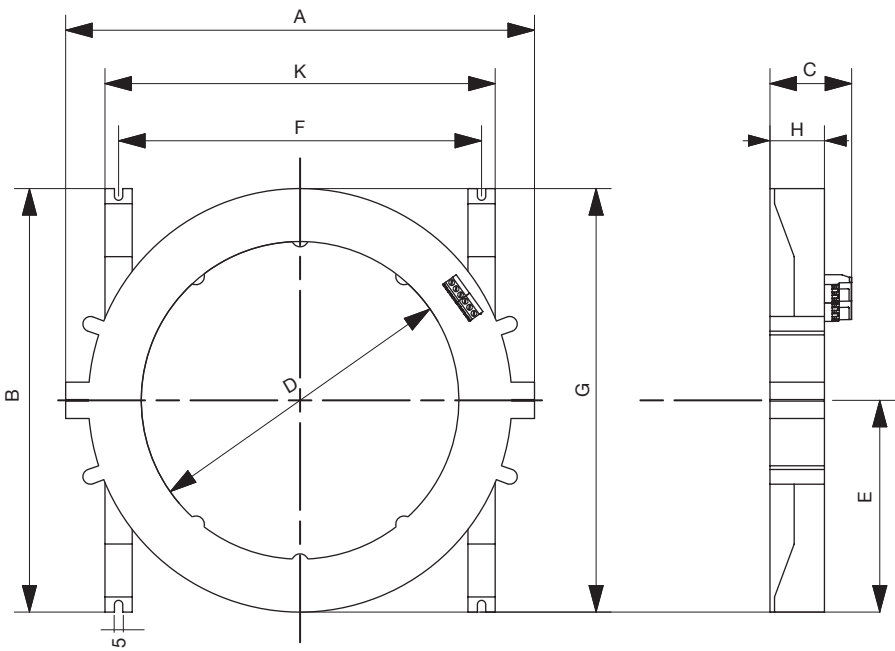
Installation of differential current transformers





Type	A	B	C	D	E	F	G	H
ΔB40 CTB 35	110	100	60	35	47	70	63	50
ΔB40 CTB 60	110	100	60	60	47	70	63	50
ΔB40 CTB 80	160	150	110	80	70	70	60	50
ΔB40 CTB 110	160	150	110	110	70	70	60	50
ΔB40 CTB 160	220	236	64	160	110	156	50	40

Δ B40 CTB 210 / 300



Type	A	B	C	D	E	F	G	H	K
ΔB40 CTB 210	310	290	54	210	145	240	280	36	258
ΔB40 CTB 300	416	385	60	300	190	350	365	42	366

