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CT-45 Residual Current Transformer

45mm aperture | 0-100A primary circuit | 1A / 0.5mA (2000:1)



The CT-45 through-core transformer provides a residual-current signal to a compatible monitoring or protection device. Pass the live and neutral circuit conductors through the transformer together, as marked on the product. The illustrated terminal-connected version has a 1A nominal residual input and a 0.5mA full-scale output.

Technical specifications

Model	CT-45
Construction	Circular through-core residual current transformer
Through-core aperture	45mm
Primary current	0-100A
Nominal residual-current input	1A
Full-scale output	0.5mA at 1A residual input
Transformation ratio	2000:1
Rated continuous thermal current	2A
Working frequency	50-400Hz
Operating temperature	-12 to +45°C
Ambient humidity	Up to 85%
Connection	Terminal type
Shell / skeleton	ABS, flame-retardant grade 94-V0 / PBT
Core / encapsulation	Nickel steel or nanocrystalline core; epoxy resin casting

Applications

Residual-current indication and monitoring in compatible leakage or electrical-fire monitoring systems.

Installation: accommodate all required circuit conductors within the 45mm aperture and match the 1A / 0.5mA interface to the connected device.