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CT-Y-45 Residual Current Transformer

45mm aperture | 1A nominal residual input | voltage or current output



The CT-Y-45 circular through-core transformer connects to compatible residual-current monitoring and protection devices. Select a 0-1V or 0-0.5mA full-scale output and accuracy class 0.1, 0.2, 0.5 or 1.0. The 45mm aperture accommodates the circuit conductors and the housing uses screw fixation.

Technical specifications and selection

Model	CT-Y-45
Construction	Circular through-core residual current transformer
Through-core aperture	45mm
Nominal residual-current input	In = 1A; nominal input span 0-1A
Full-scale output options	0-1V or 0-0.5mA at In
Accuracy class options	0.1 / 0.2 / 0.5 / 1.0
Accuracy-assured residual-current range	10%-130% In; 0.1-1.3A at In = 1A
Overall sensor response range	10mA-5A
Working frequency	50-400Hz
Dielectric strength	2.5kV / 1mA / 1min
Insulation resistance test	DC500V / 1000 MOhm / 1min
Operating temperature	-12 to +45°C
Ambient humidity	Up to 85%
Connection options	Terminal type or 1.5m shielded twisted wire
Shell / skeleton	ABS, flame-retardant grade 94-V0 / PBT
Core / encapsulation	Nickel steel or nanocrystalline core; epoxy resin casting
Original dimensional values	A = 79.5mm; B = 83.5mm; C = 24mm; D = 66.5mm; G = M5
Installation	Screw fixation

Applications and installation

Compatible residual-current, leakage and electrical-fire monitoring systems. Match the selected full-scale output and accuracy class to the monitoring device and pass the required circuit conductors through the 45mm aperture.