

KAR1-HD

Ultra-immunised earth leakage system for measurement and signalling with external transformer of the CT/CTA series



Compatible with **CT-1/CTA-1** earth leakage transformers

Description

Electronic earth leakage protection relay, connected to the external transformers of the **CT-1/CTA-1** series. Ultra-immunized type relay with high frequency currents filtering and high immunity. Type-A relay with third harmonic filtering (settable). True root mean square (TRMS) measure. Fail safe function for each four relays. **Log tripped** residual current.

- Compact size: 3 modules
- Display of data on the screen
- Two independent programmable outputs (main and pre-alarm)

1. Applications

The **KAR1-HD** relays associated with **CT-1/CTA-1** transformers offer smart earth leakage protection. Their design features guarantee maximum security and electrical service continuity, avoiding unwanted tripping. Viewing the instantaneous leakage value on the display, together with the pre-alarm indicators, makes it possible to obtain information on the status of lines to be protected, and to perform adequate preventive maintenance.

In addition, version **KAR1-HD 485** features RS-485 communications, with Modbus RTU protocol, offers centralised supervision in real time, as well as keeping a log of historical data for future analysis.

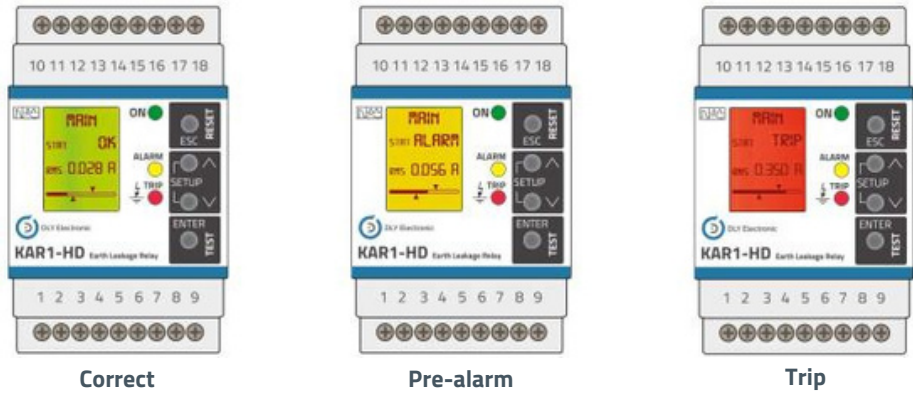
Technical features

Protection	Tripping type	A
	Measurement	True root mean square (TRMS)
	Tripping set-point (I _{Δn})	0.03...30A
	Prealarm set-point	50...90%
	Tripping time (t)	0.02...10s
	Earth leakage transformer	External CT-1/CTA-1 series
	Test and reset	With built-in buttons or remote T & R
	LED indicators	Leakage trip
	Power supply voltage	Display
		Pre-alarm (yellow display)
Electrical features		Instantaneous level of leakage
		Parameter programming
		External transf. disconnected indicator
Mechanical features	Auxiliary voltage	230 VAC (+ 20%) 50 / 60 Hz
	Output contacts	230 VAC / 5 A
	Operating temperature	-10... +60 °C
Certifications	Attachment	DIN rail (IEC 60715)
	Dimensions	3 modules
Standards	Weight	200g
	Protection degree	Front: IP40, IP20 on back panel
	CE	EN 61010, EN 61000-6-2, EN 61000-6-3, IEC/TR 60755 EN 60947-2 Annex M

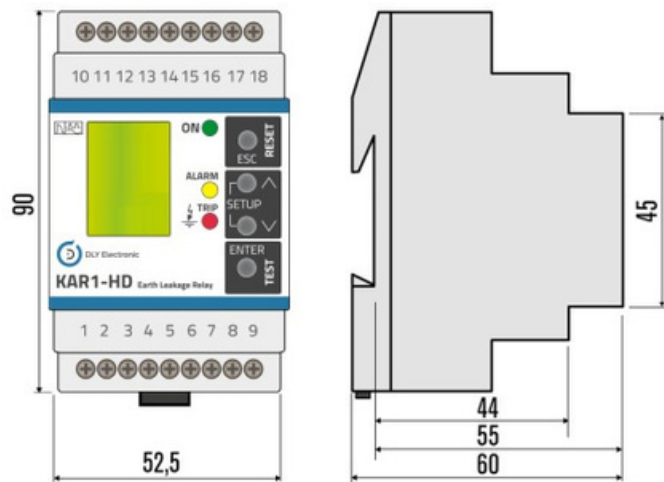
KAR1-HD

Ultra-immunised earth leakage system for measurement and signalling with external transformer of the CT/CTA series

Operators and alarms with visual indications



Dimensions



Connections

