

Toroidal Leakage Current Relay (KAR01 & KAR11) Datasheet



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1.1. General Features

KAR01 and KAR11 protect the system from overload and short circuit currents in case leakage current is detected. The toroidal leakage current relay (Table 1) is used together with the toroidal current transformer, and it measures the leakage current value coming from the toroidal transformer and ensures that the circuit breaker is activated.

In addition, the KAR11 model has a harmonic filter and is not affected by harmonic signals occurring on the line. In this way, it can be used easily in environments with harmonic noise.

1.2. Technical Features

TOROIDAL LEAKAGE CURRENT RELAYS													
Product Code	Product Name	Product Description	Leakage Current Value Range	Power On Delay Time Interval	Supply Voltage	Time Tolerance	Output Relay	Operating Temperature	Assembly	*Harmonic Filtering	Sealable	Test and Reset	Dimensions W x H x D (mm)
GA8501	KAR01	TOROIDAL LEAKAGE CURRENT RELAY	30mA - 30A	0sec - 5sec	200-240 V AC (50 Hz)	± %15	10 A @250 VAC	- 20 / 60 °C	DIN2		✓	Manuel/ Remote	34x91x64
GA8511	KAR11	HARMONIC FILTER TOROIDAL LEAKAGE CURRENT RELAY	30mA - 30A	0sec - 5sec	200-240 V AC (50 Hz)	± %15	10 A @250 VAC	- 20 / 60 °C	DIN2	✓	✓	Manuel/ Remote	34x91x64

Table 1 : Toroidal Leakage Current Relays

*Harmonic Filtering Feature; It is used to prevent faulty tripping of the leakage current relay in panels where loads causing high harmonics such as motor drives, UPSs, arc furnaces, welding machines are connected

Operating Voltage:	200-240 V AC Supply
Operating Frequency:	50 Hz
Switch On Time Setting:	0,045 – 5 sec
Reset:	Manual / Electrical (Remote)
Relay Output:	1 × C/O, 5 A @ 250 VAC
Time Tolerance:	±%15
Indicator:	6 pieces LED
Operating Temperature:	-20°C, +60°C
Moisture:	40 - 85 % RH
Protection Class:	IP20
Mounting:	DIN Rail Mounting

1.3. Technical Drawing

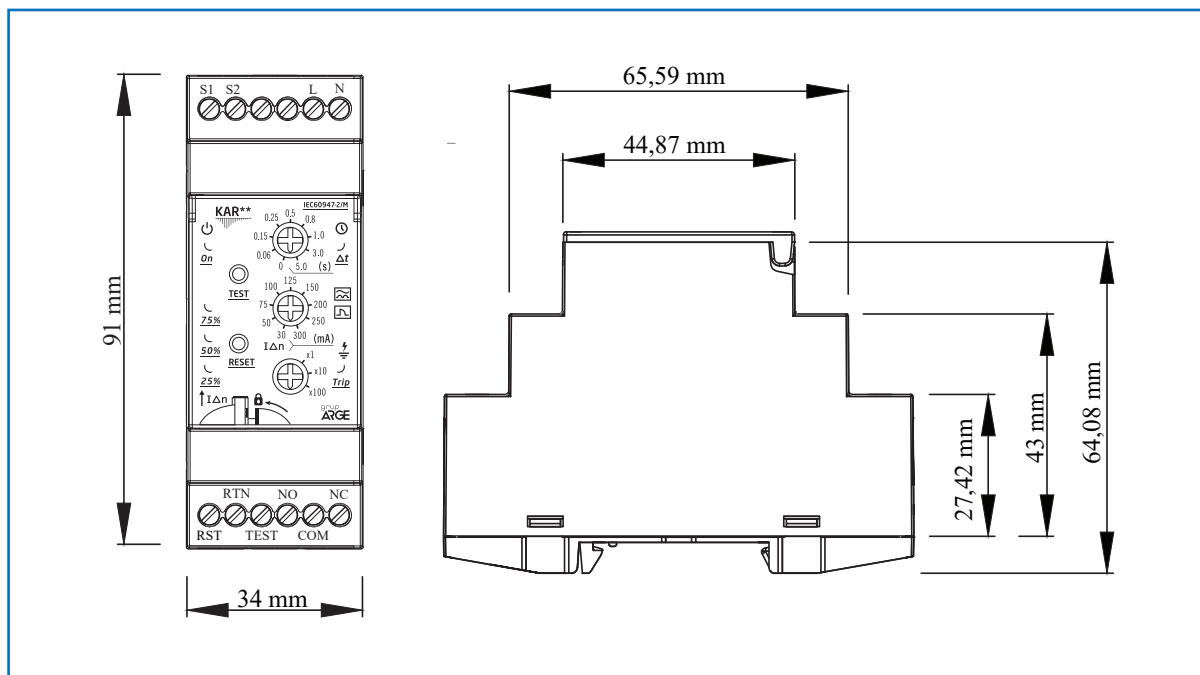


Figure 1 : KAR01-KAR11 Toroidal Leakage Current Relay Technical Drawing

1.4. Product Assembly and Disassembly

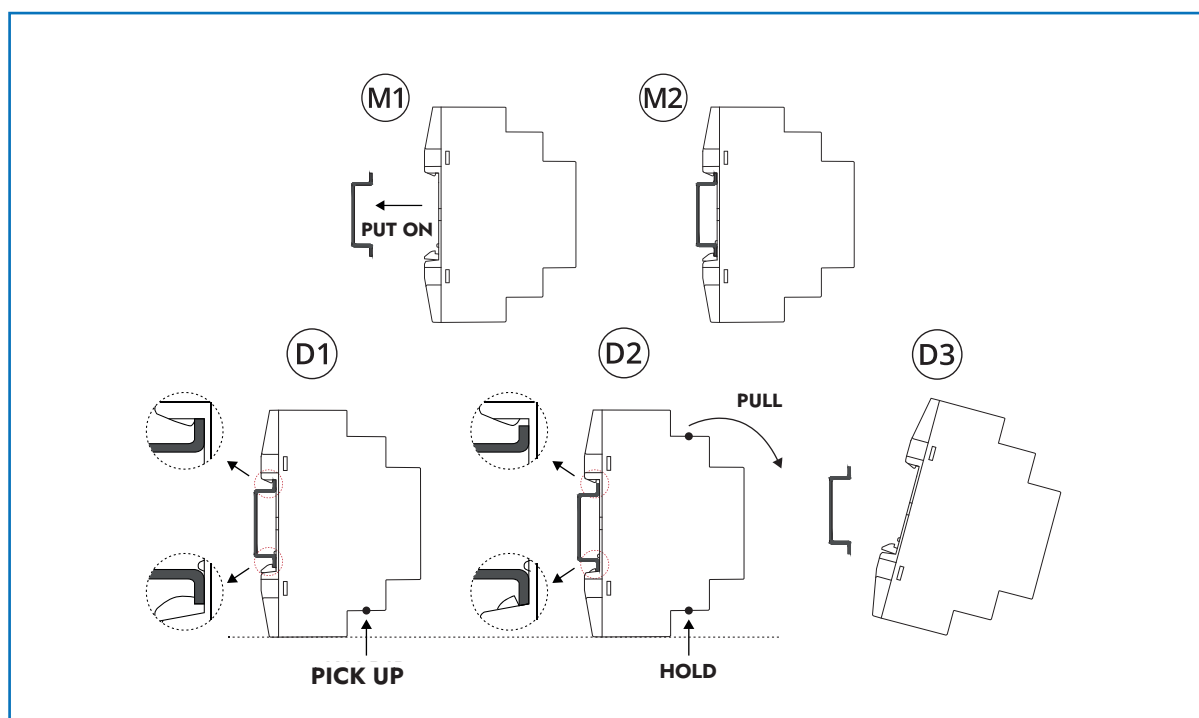


Figure 2: KAR01-KAR11 Toroidal Leakage Current Relay Product Assembly and Disassembly

1.5. Connection Diagram

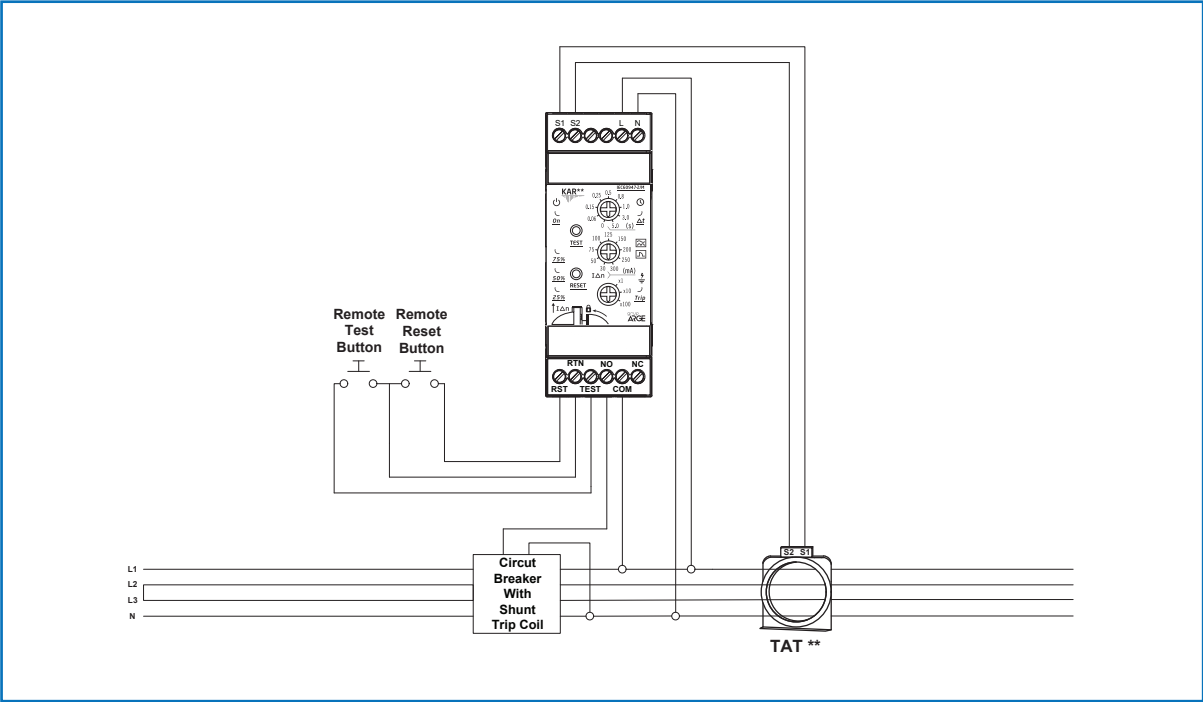


Figure 3: Toroidal Leakage Current Relay Connection Diagram