

## Product sheet

## Differential protection relay RH99M 54 mm 12-24 V

Brand: SCHNEIDER

Reference: IMPO 56170



Differential protection relay type RH99M, designed for electrical safety applications in systems with a nominal voltage of 12 to 48 V DC/AC, 50/60 Hz. Offers 9 configurable leakage sensitivity settings (0.03–30 A), instantaneous timing for low currents and up to 4.5 s for higher currents.

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### Description

Differential current protection relay RH99M from the VigiPacT range, designed for relay protection applications with DIN rail mounting.

#### Technical features

- Rated supply voltage: 12...24 V AC 50/60 Hz (55...120 %) and 12...48 V DC (55...120 %)
- Power consumption: 4 VA
- Rated network voltage: 1000 V AC (50/60 Hz) and 1000 V AC (400 Hz)
- Earthing system: TN-S, IT, TT
- Surge voltage withstand: 8 kV
- Reset: Manual
- Test function: Remote and local
- Internal earth leakage current measurement, range: 80...100 %
- Adjustment protection: Secured by tamper-proof cover
- Protection degree IP: IP40 (front face), IP30 (sides), IP20 (terminals)
- Impact protection degree IK: IK07
- Overvoltage category: IV
- Electric shock protection class: Class II
- Electromagnetic compatibility: Conducted and radiated emissions (Class B), immunity to RF, ESD, overvoltages, and vibrations
- Operating ambient temperature: -35...70 °C

- Storage ambient temperature: -55...85 °C
- Relative humidity: 95 % at 55 °C
- Contamination degree: 3
- Weight: 0.3 kg
- Dimensions: 54 mm (width) x 81 mm (height) x 74 mm (depth)
- Connections: Screw terminals for flexible and rigid cables, conductor cross-section range from 0.14 mm² to 4 mm²
- Tightening torque: 0.25 N·m to 0.6 N·m depending on terminal
- Stripping length: 5 to 8 mm depending on connection
- Step spacing: 9 mm, 6 steps
- Sustainable offering status: Green Premium product
- EU RoHS Directive: Compliant
- REACH Regulation: No SVHC
- Waste electrical and electronic equipment (WEEE): Must be recycled according to specific EU system
- Free of mercury, free of PVC

Specifications

|                     |                                                      |
|---------------------|------------------------------------------------------|
| Frequency           | 50/60 Hz                                             |
| Sensitivity         | 30 mA                                                |
| EAN                 | 3303430561705                                        |
| Manufacturer        | SCHNEIDER                                            |
| Long                | 81 mm                                                |
| Measures            | 54 mm (ancho) x 81 mm (altura) x 74 mm (profundidad) |
| Weight (kg)         | 0,3 kg                                               |
| Depth               | 74 mm                                                |
| Protection          | IP40                                                 |
| Rated voltage       | 24                                                   |
| Nominal voltage (V) | 12...24 V AC 50/60 Hz y 12...48 V CC                 |
| Current type        | AC                                                   |

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Item downloaded on 22 October 2026