

Technology that Protects + Secures Life

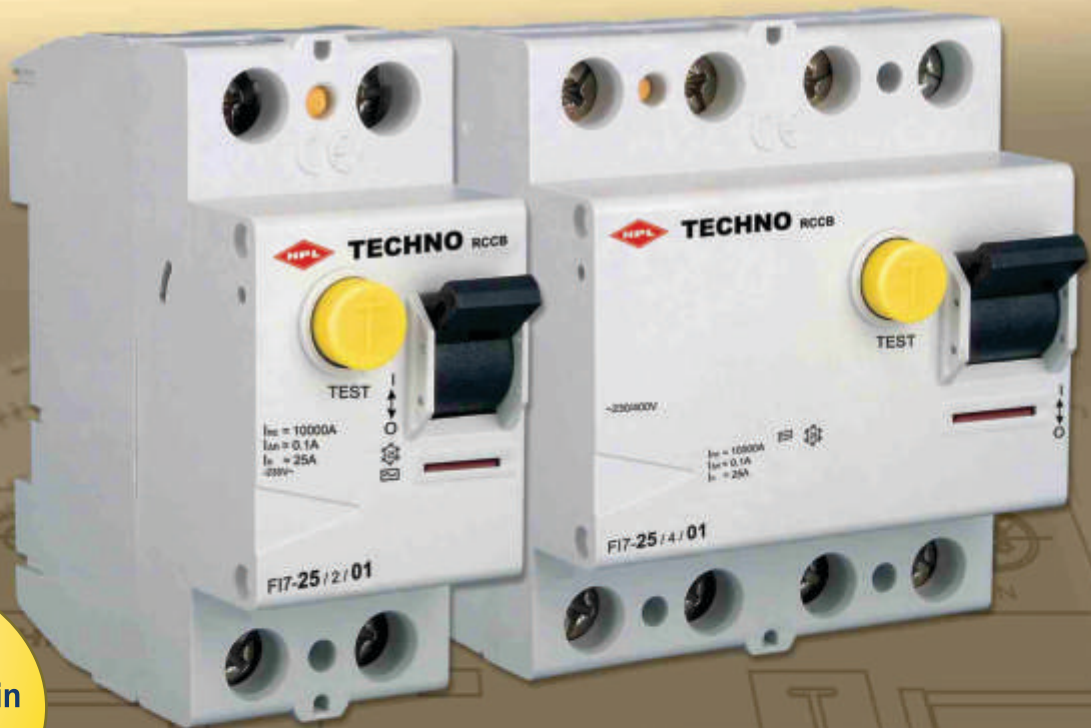


Residual Current Circuit Breaker

Model: FI7

Now in India, made in Europe

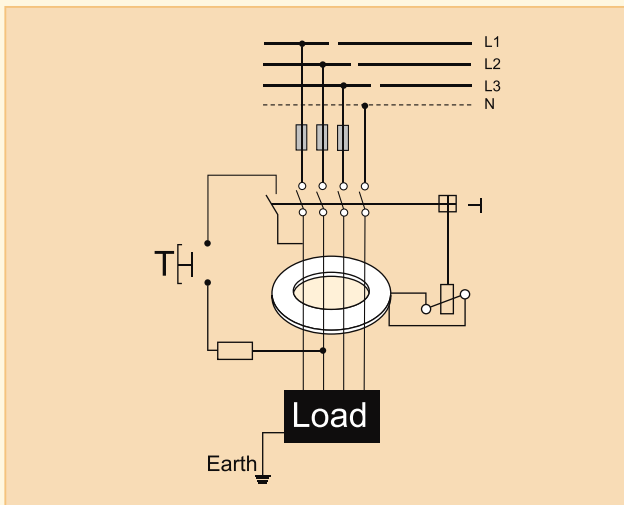
CE



Manufactured
in world's most
sophisticated plant in
Europe

At Moeller  Austria

- ✓ Dedicated earth leakage protection.
- ✓ Range: 25, 40 & 63Amp, 30mA, 100mA, 300mA
- ✓ 2 pole & 4 pole versions, Breaking capacity 10kA
- ✓ Protection against Electrocution, Short Circuit & Electrical fire
- ✓ Consistent performance, Compact & Space saving
- ✓ Conforms to International IEC/EN: 61008, IS:12640, 240/415V, 50 Hz.



Wiring Scheme for RCCB

Introduction

From large buildings to private homes, from industries to hospitals, electricity is essential. The extensive use of electricity in our daily life has become so common that we tend to forget that careless use of electricity can be hazardous. Every year, a large number of people are victims of accidents caused by negligent use of electricity, and a large number of industrial & domestic fires are attributed to "electrical faults".

HPL has introduced state-of-the-art HPL Techno RCCB model FI7 made in Europe, which is capable of detecting earth leakage current as soon as they appear and isolate the supply system.

Operational Principle

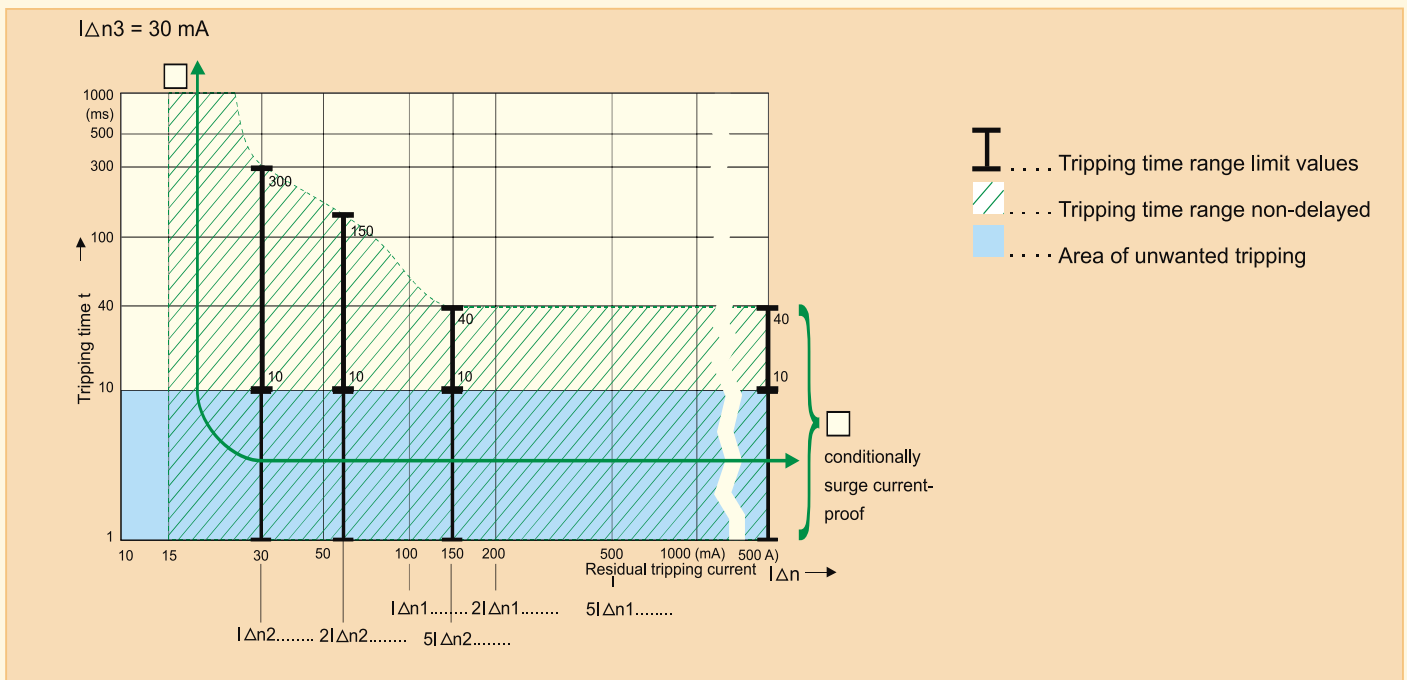
HPL TECHNO RCCB is a current operated device and is independent of line voltage conditions. This means that they provide protection even when there is voltage dip or the neutral conductor is interrupted. In a healthy system the vector sum of all currents in phase and neutral is equal to zero. The device senses imbalance or residual currents in the system and disconnects supply system.

Residual Current Circuit Breaker

- Residual Current Circuit Breaker - RCCB
- Shape compatible with and suitable for standard busbar connection to other devices
- Twin-purpose terminal (lift/open-mouthed) above and below
- Busbar positioning optionally line or load
- Free terminal space despite installed busbar
- Contact position indicator red - green (FI7-4-pole)
- Suitable for being used with standard fluorescent tubes with or without electrical ballast (typically up to 20 units per phase conductor)
- The device functions irrespective of the position of installation
- Types with 80 A permissible short-circuit back-up fuse: Take into account overload protection
- Tripping is line voltage-independent. Consequently, the RCCB is suitable for "fault current/residual current protection" and "additional protection" within the meaning of the applicable installation rules
- Mains connection at either side
- The 4-pole device can also be used for 3-pole connection. For this purpose use terminals 1-2, 3-4, and 5-6.
- The 4-pole device can also be used for 2-pole connection. For this purpose use terminals N-N and 5-6.
- Pressing the test key "T" serves the only purpose of function testing the residual current circuit breaker (RCCB). This test does not make earthing resistance measurement (R_E), or proper checking of the earth conductor condition redundant, which must be performed separately.

Tripping Characteristics (IEC/EN 61008)

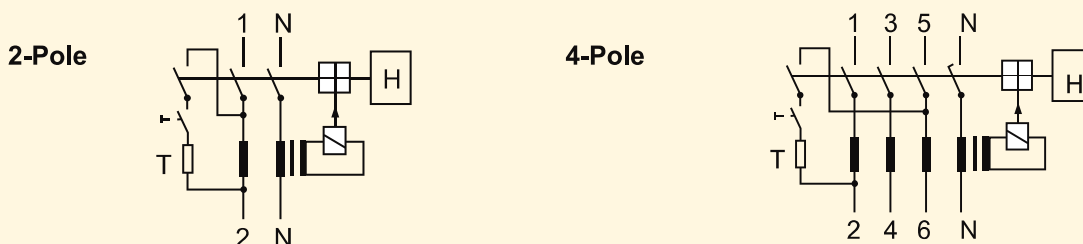
Tripping characteristics, tripping time range and selectivity of instantaneous, surge current-proof residual current circuit breaker.



Series connection of main RCCB and circuit RCCB's recommended by the installation rules set forth in ÖVE/ÖNORM E 8001-1, is compulsory for agricultural installations according to §56 of ÖVE-EN1, Part 4.

The device is ok if the result of measurement is within the time range specified by the manufacturer of the measuring instrument.

Connection Diagrams



Residual Current Circuit Breaker - General Data


Short description of the most important RCCB types:

Symbol	Description
	Standard. Suitable for outdoor installation (distribution boxes for outdoor installation and building sites) up to -25°C .
	Conditionally surge-current proof ($>250 \text{ A}$, $8/20 \mu\text{s}$) for general application.
	Press service key when putting the device into operation, and subsequently approximately once per year. Pressing the key once per month is not required any more and can be omitted unless shorter testing intervals are required under any applicable regulations (e.g. on building sites).

For accessories please contact the nearest Sales Office

Technical Data

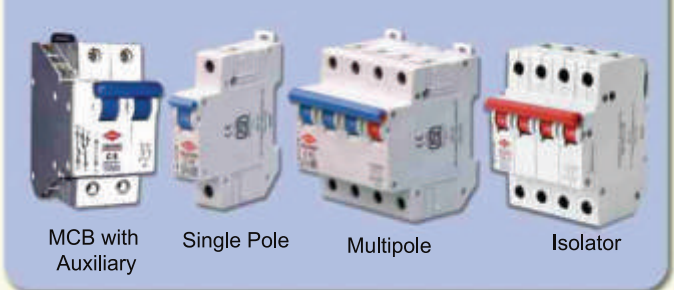
Electrical

Tripping time	Undelayed
Rated voltage	240 / 415 V; 50 Hz
Rated tripping current	30, 100, 300 mA
Sensitivity	AC 
Rated short circuit strength	10kA with 63 A gL back-up fuse 10kA with 80 A gL (FI7-80) 6 kA (Rated Current 63A) with 63A A gL
Maximum back-up fuse for short circuit protection	63 A gL 80 A gL (FI7-80)
Maximum back-up fuse for overload protection	25 A gL (FI7-25 and - 40 A) 40 A gL (FI7-63 and - 63 A) 50 A gL (FI7-80 A)
Resistance to climatic conditions	according to IEC/EN 61008
Degree of protection	built-in switch IP40
Endurance	electrical $\geq 4,000$ change overs mechanical $\geq 20,000$ change overs

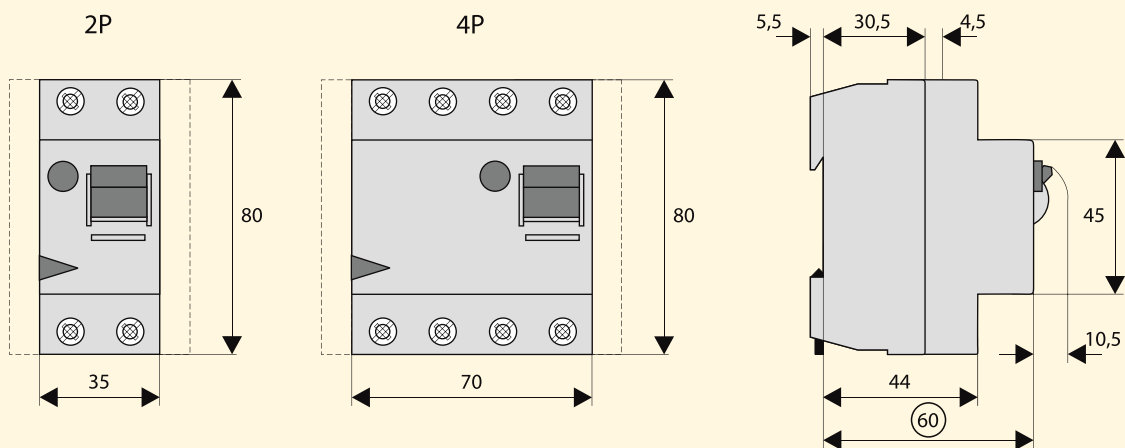
Mechanical

Frame size	45 mm
Socket size	80 mm
Device size	35 mm (2mod.), 70 mm (4 mod.)
Mounting	Quick fastening with 2 lock-in positions on DIN rail EN50022
Upper and lower terminals	Open mouthed / lift terminals
Terminal protection	Finger and hand touch safe, BGV A3, ÖVE-EN 6
Terminal capacity	1.5 mm ² - 35 mm ²
Busbar thickness	0.8 - 2 mm

Other HPL TECHNO products



Dimensions



Unless otherwise specified, 2-pole devices (1p+N) are 2 module units wide and 4-pole devices (3p+N) are 4 module units wide.



ISO-9001:2000

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