

GFR Series - 1 Pole+N, B Trip, 100 mA

277V AC Ground Fault Relay

with Overload Protection (RCBO)

The GFR Series is a combined Equipment Ground Fault Relay and Supplementary Protector (RCBO), featuring dual pole switching (live and neutral) and designed to provide protection against overloads and AC ground faults (residual current faults) as well as pulsating DC ground faults.

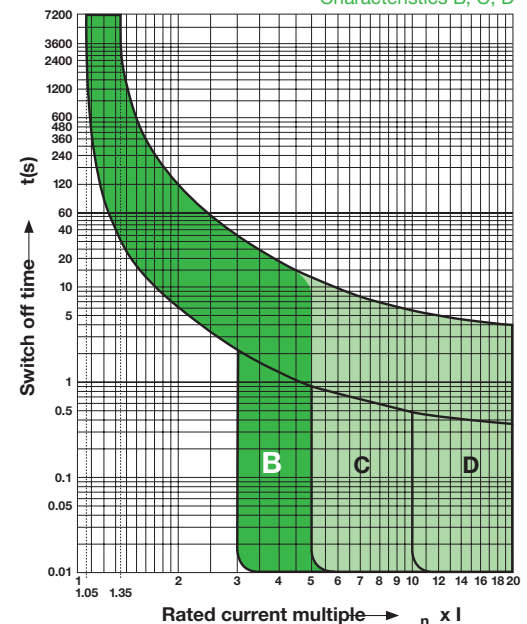
Ordering Information

Rated Current	Type/Cat. No.	Rated Voltage
5.0A	GFR2B05100	277V AC
6.0A	GFR2B06100	277V AC
8.0A	GFR2B08100	277V AC
10A	GFR2B10100	277V AC
12A	GFR2B12100	277V AC
13A	GFR2B13100	277V AC
15A	GFR2B15100	277V AC
16A	GFR2B16100	277V AC
20A	GFR2B20100	277V AC
25A	GFR2B25100	277V AC
30A	GFR2B30100	277V AC
32A	GFR2B32100	277V AC
35A	GFR2B35100	277V AC
40A	GFR2B40100	277V AC



GFR Series RCBO Overload Trip Curves

Characteristics B, C, D

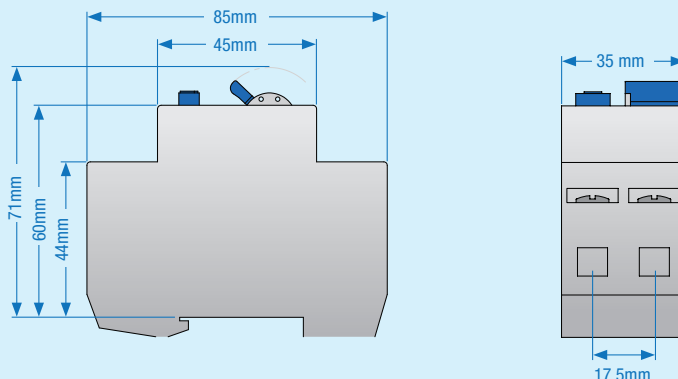


Technical Specification

Number of Poles	1+N
Voltage Rating (maximum)	277V AC
Ground Fault Sensitivity Level	100 mA
Short Circuit Withstand Rating	10 kA
Rated Frequency	50/60Hz
Trip Characteristic	B
Cable Size & Tightening Torque	Stranded Wire: 16 - 3 AWG (1.5 mm ² - 25 mm ²) @ 17.5 lb-in (2.0 Nm) Solid Wire: 16 - 10 AWG (1.5 mm ² - 5.5 mm ²) @ 17.5 lb-in (2.0 Nm) 18 - 16 AWG (1 mm ² - 1.5 mm ²) @ 25 lb-in (2.8 Nm)
Electrical Life	6000 Switching Operations
Mechanical Life	10000 Switching Operations

Dimensions

(to convert to inches multiply by 0.03937)



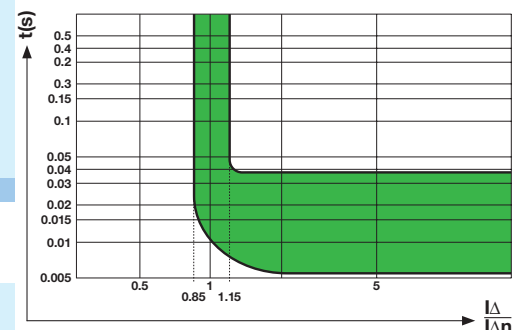
Weight

217 g

GFR Series RCBO Short Circuit Withstand Rating

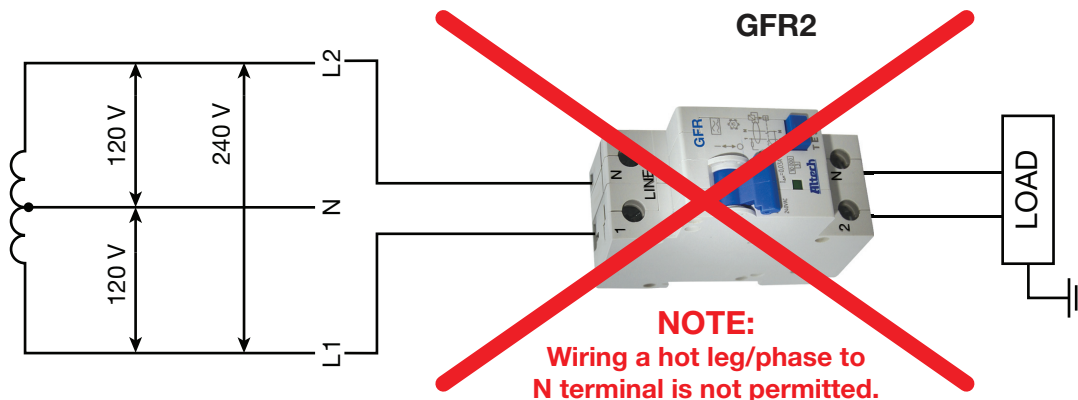
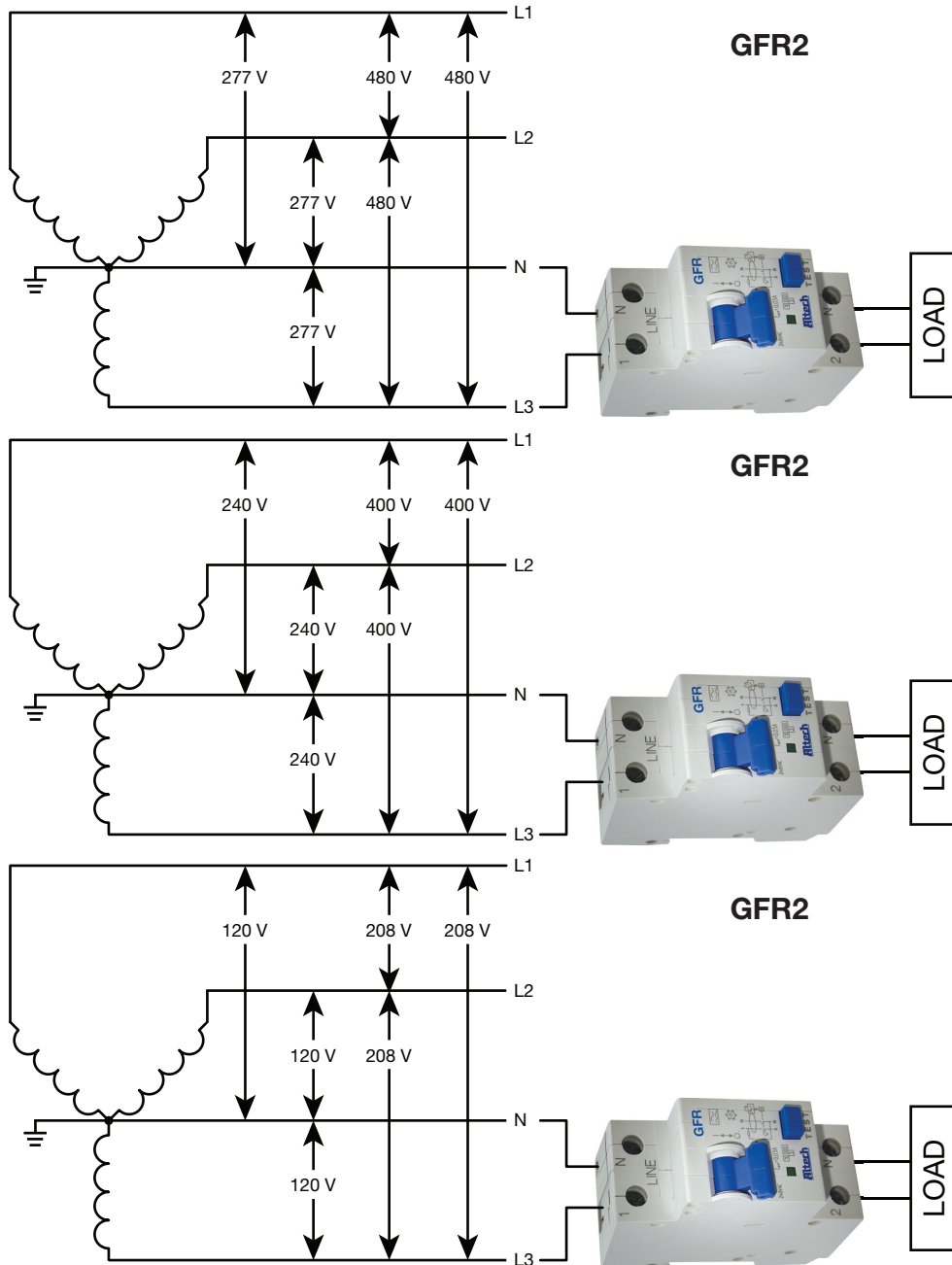
V	I	IR	Backup
1+N Pole	≤20A	10kA	None
277V AC	>20A	10kA	Class J Fuse 250A or lower Altech L Series Branch Circuit Breaker Altech R Series Supplementary Protector

GFR Series RCBO Ground Fault Trip Curve



UL 1077
Ground Fault Relay
with Overload Protection

GFR Series - 1 Pole+N, B Trip, 100 mA
 Applicable voltage systems and wiring examples.



UL 1077
 Ground Fault Relay
 with Overload Protection

Mouser Electronics

Authorized Distributor

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[GFR2B10100](#) [GFR2B15100](#) [GFR2B20100](#) [GFR2B30100](#) [GFR2B16100](#) [GFR2B40100](#)