

GFR Series - 1 Pole+N, D Trip, 300 mA 480Y/277V AC Ground Fault Relay with Overload Protection (RCBO)

Altech Corp.

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	GFR2D05300	240V AC
6.0A	GFR2D06300	240V AC
8.0A	GFR2D08300	240V AC
10A	GFR2D10300	240V AC
12A	GFR2D12300	240V AC
13A	GFR2D13300	240V AC
15A	GFR2D15300	240V AC
16A	GFR2D16300	240V AC
20A	GFR2D20300	240V AC
25A	GFR2D25300	240V AC
30A	GFR2D30300	240V AC
32A	GFR2D32300	240V AC
35A	GFR2D35300	240V AC
40A	GFR2D40300	240V AC

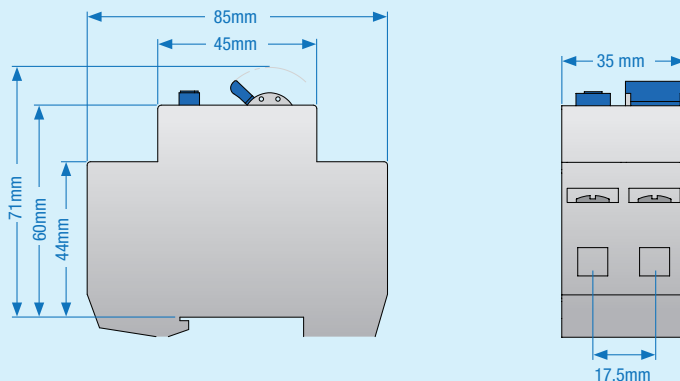
UL 1077
Ground Fault Relay
with Overload Protection

Technical Specification

Number of Poles	1+N
Voltage Rating (maximum)	277V AC
Ground Fault Sensitivity Level	300 mA
Short Circuit Withstand Rating	10 kA
Rated Frequency	50/60Hz
Trip Characteristic	D
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)



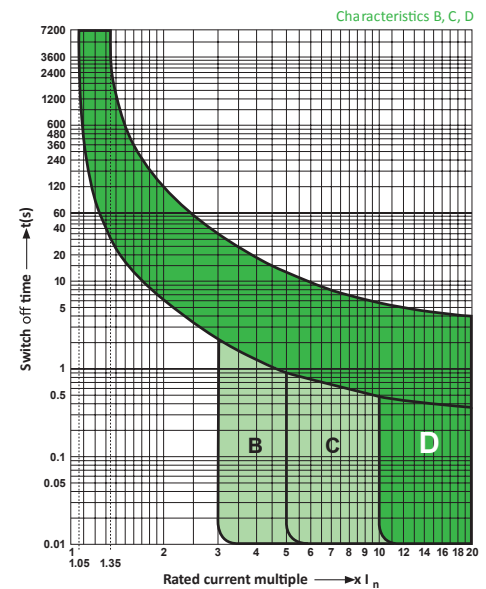
Weight

217 g

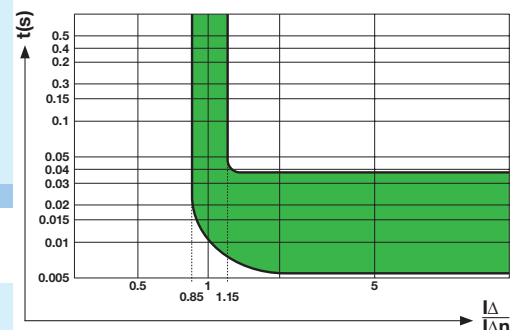
GFR Series RCBO Short Circuit Withstand Rating

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

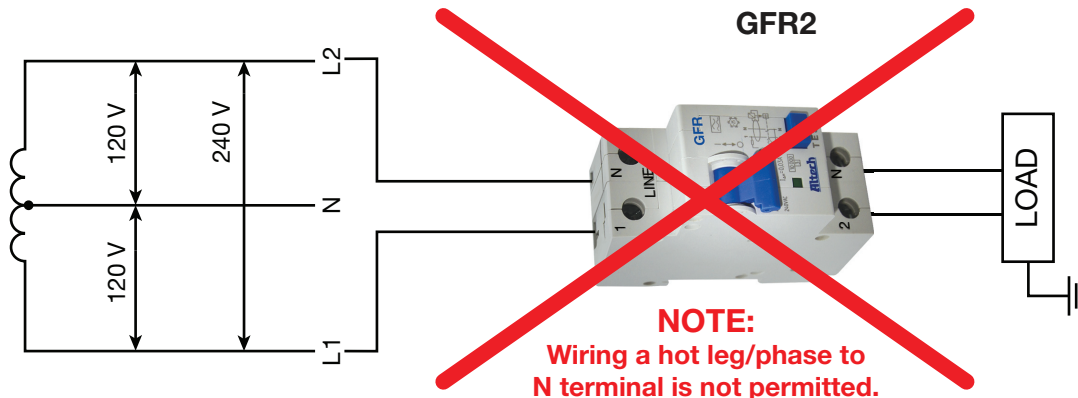
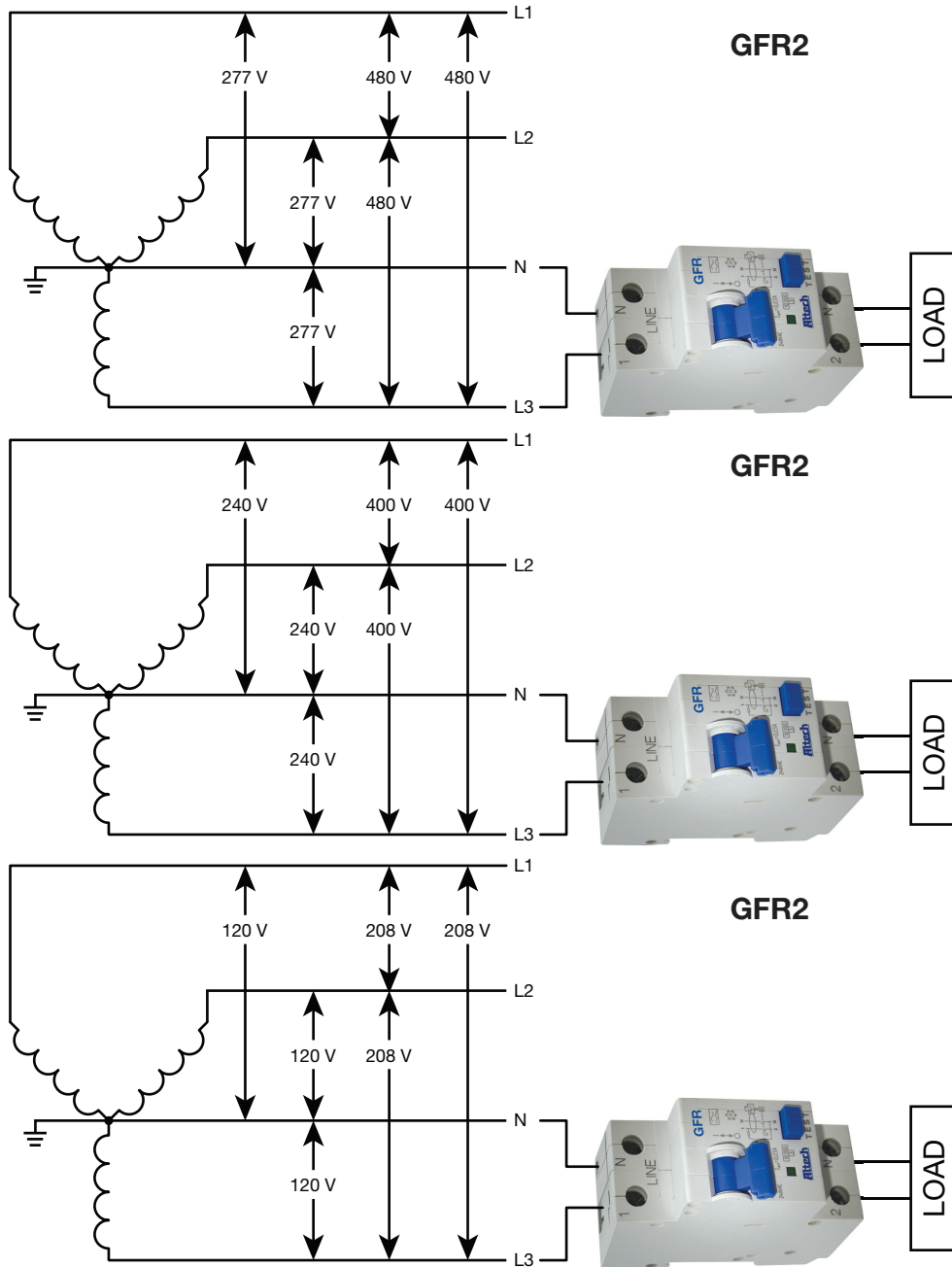
GFL Series RCBO Overload Trip Curves



GFR Series RCBO Ground Fault Trip Curve



GFR Series - 1 Pole+N, D Trip, 300 mA
 Applicable voltage systems and wiring examples.



NOTE:
 Wiring a hot leg/phase to
 N terminal is not permitted.

UL 1077
 Ground Fault Relay
 with Overload Protection

Mouser Electronics

Authorized Distributor

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