

GFR Series - 3 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.



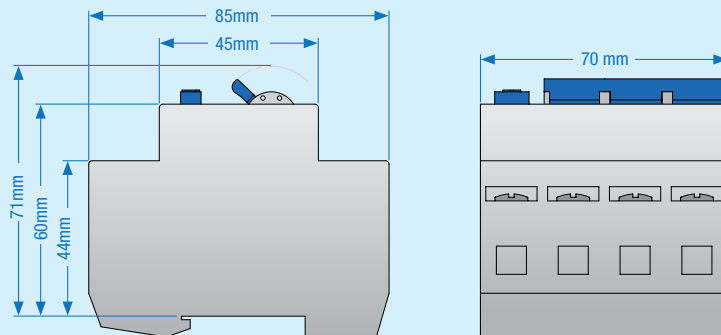
Ordering Information

Rated Current	Type/Cat. No.	Rated Voltage
5.0A	GFR4D05300	480Y/277V AC
6.0A	GFR4D06300	480Y/277V AC
8.0A	GFR4D08300	480Y/277V AC
10A	GFR4D10300	480Y/277V AC
12A	GFR4D12300	480Y/277V AC
13A	GFR4D13300	480Y/277V AC
15A	GFR4D15300	480Y/277V AC
16A	GFR4D16300	480Y/277V AC
20A	GFR4D20300	480Y/277V AC
25A	GFR4D25300	480Y/277V AC
30A	GFR4D30300	480Y/277V AC
32A	GFR4D32300	480Y/277V AC
35A	GFR4D35300	480Y/277V AC
40A	GFR4D40300	480Y/277V AC

Technical Specification

Number of Poles	3+N
Voltage Rating (maximum)	480Y/277V AC
Ground Fault Sensitivity Level	300 mA
Short Circuit Withstand Rating	30 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)

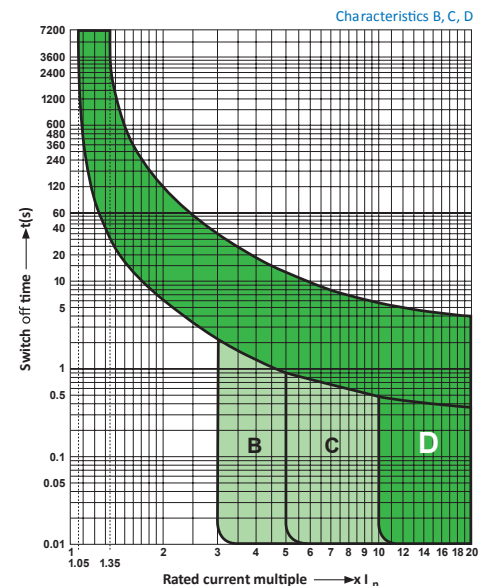


Weight 217 g

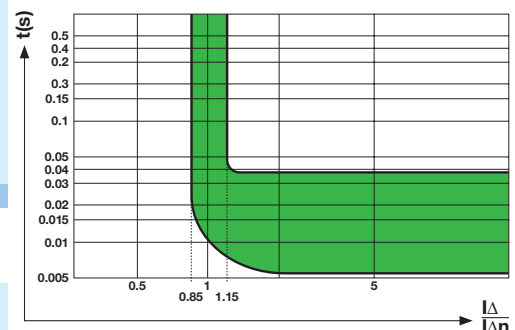
GFR Series RCBO Short Circuit Withstand Rating

V	I	IR	Backup
3+N Pole	≤20A	10kA	None
480Y/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

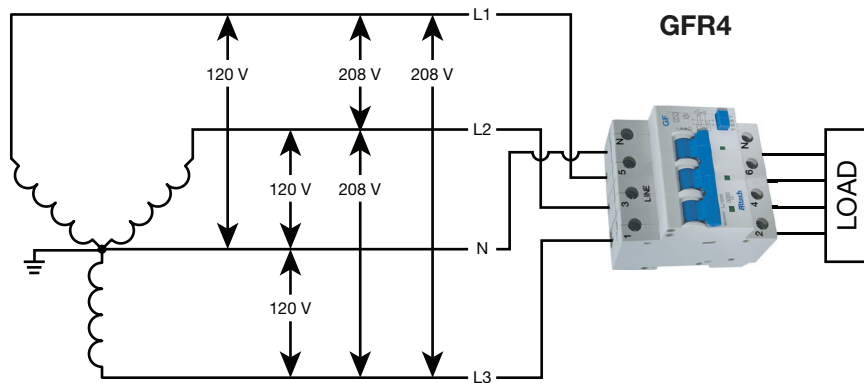
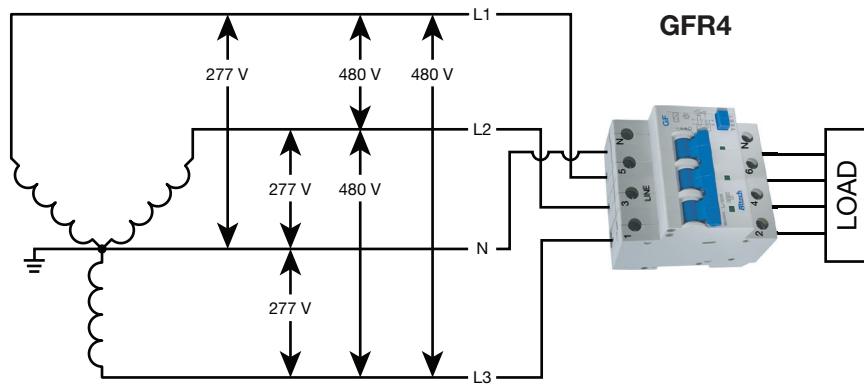


GFR Series RCBO Ground Fault Trip Curve

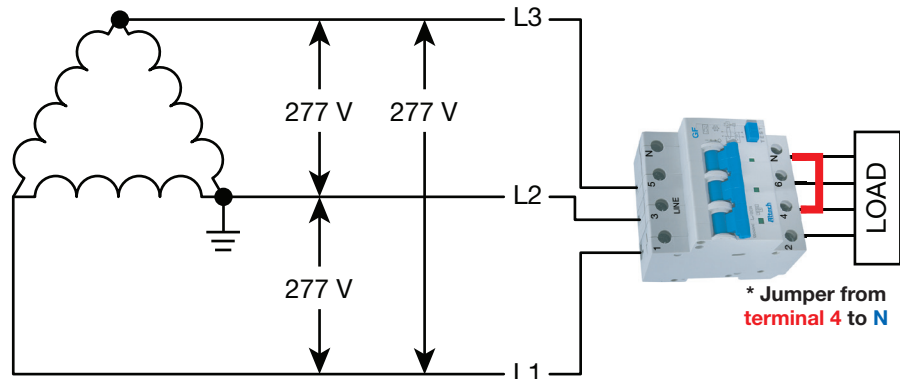
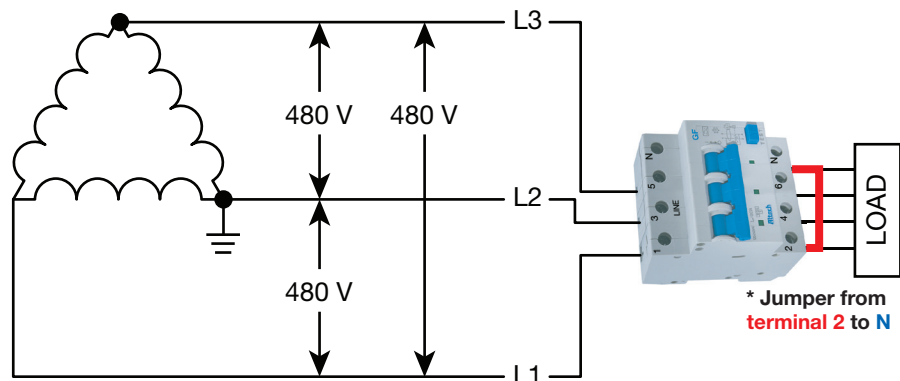
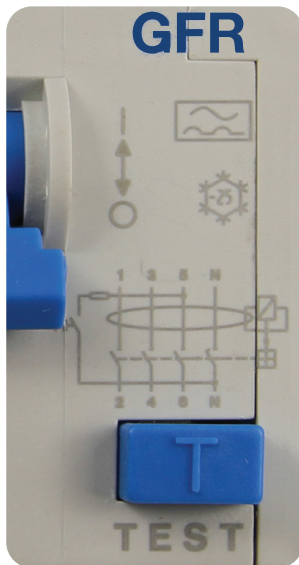


UL 1077
Ground Fault Relay
with Overload Protection

GFR Series - 3 Pole+N, D Trip, 300 mA
 Applicable voltage systems and wiring examples.



UL 1077
 Ground Fault Relay
 with Overload Protection



* Either jumper connection can be used for both voltage configurations.

Mouser Electronics

Authorized Distributor

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