Altech Corp

Serving the Automation & Control Industry Since 1984









UL 489 Branch Circuit Breaker with Ground Fault Relay





UL 1053 Ground Fault Sensing and Relaying Device





Rated current mu

UL Ground Fault Equipment Protectors



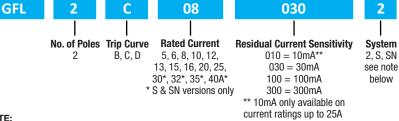
Altech Corp.

GFL Series (5A - 40A)

10kA UL489 Listed Branch Circuit Breaker with Equipment Ground Fault Protection (RCBO)

The GFL Series range is a combined Branch Circuit Breaker and Equipment Ground Fault Protector, featuring dual pole switching (live and neutral disconnect) and designed to provide protection against short circuits, overloads, AC ground faults (residual current faults) as well as pulsating DC ground faults.

GFL Series RCBO Ordering Scheme



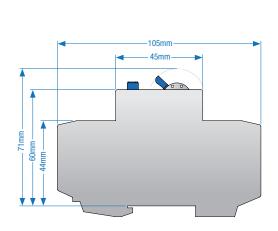
NOTE:

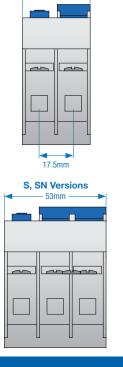
2=240V Single Phase System with neutral connection. S=120/240V Split Phase System with no neutral connection. SN=120/240V Split Phase System with neutral connection.

EXAMPLE: GFL2C080302

Technical Specification

Number of Poles	1+N (2)	2 (S), 2+N (SN)	
Rated Voltage (U _n)	240V AC	120/240V AC	
Rated Current	5, 6, 8, 10, 12, 13, 15, 16, 20, 25A	5, 6, 8, 10, 12, 13, 15, 16, 20, 25, 30, 32, 35, 40A	
Rated Residual Operating Co	ırrent (I _n) 10	**, 30, 100, 300mA	
Rated Short Circuit Capacity	(Inc)	10kA	
Rated Frequency		50/60Hz	
Overload Tripping		B, C and D	
Cable Size & Tightening Toro	que 14 - 3 AWG (2mn	14 - 3 AWG (2mm2 - 25mm2) @ 17.5lb-in (2.0Nm)	
	18 - 16 AWG (1m	m2 - 1.5mm2) @ 25lb-in (2.8Nm)	
Electrical Life 6000 Switchii		Switching Operations	
Mechanical Life 10		Switching Operations	

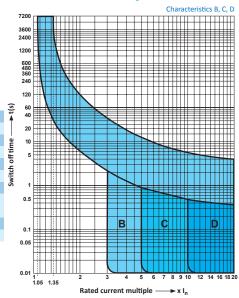




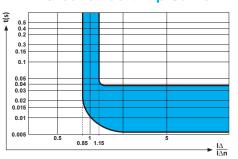
2 Version



GFL Series RCBO Overload Trip Curves



GFL Series RCBO Ground Fault Trip Curve



Altech Corp.®

GF Series (up to 63A)

480Y/277V AC Ground Fault Sensing and Relaying Device (RCCB)

The GF Series of Equipment Ground Fault Protection Relays (Earth Leakage Protection) is the latest addition to Altech's UL Listed product range, providing ground fault (residual current) protection for circuits with loads up to 63A. Short Circuit Withstand rating is 10kA.

LINE LANGUAGE TEST





GF Series RCCB Ordering Scheme

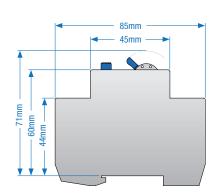
GF	2	25	030
	No. of Poles	 Rated Current	Residual Current Sensitivity
	2, 4	25, 40, 63A	010 = 10mA* 030 = 30mA
GF225030		*(0)	100 = 100mA 300 = 300mA 500 = 500mA NLY 2 pole, 25A - Cat. No. GF225010)

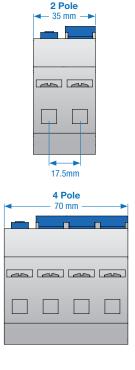
Technical Specification

Number of Poles	2	4
Rated Voltage (U _n)	277V AC	480Y/277V AC
Rated Current		25, 40, 63A
Rated Residual Operating Current (In)		10*, 30, 100, 300, 500mA
Rated Frequency		50/60Hz
Cable Size & Tightening Torque	Solid wire sized 16 -	6 - 3 AWG (1.5mm² - 25mm²) @ 17.5lb-in (2.0Nm) 10 AWG (1.5mm² - 5.5mm²) @ 17.5lb-in (2.0Nm) - 16 AWG (1mm² - 1.5mm²) @ 25lb-in (2.8Nm)
Electrical Life		6000 Switching Operations
Mechanical Life		10000 Switching Operations

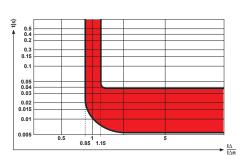
GF Series RCCB Short Circuit Withstand Rating

V	IR	Backup
2 Pole	10kA	Class J Fuse 250A or lower
277V AC		Altech L Series Branch Circuit Breaker
		Altech R Series Supplementary Protector
4 Pole		Class J Fuse 250A or lower
480Y/277V AC	10kA	Altech L Series Branch Circuit Breaker
		Altech R Series Supplementary Protector





GF Series RCCB Ground Fault Trip Curve



Altech Corp.

GFR Series (5A - 40A)

480Y/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. Short Circuit Withstand rating is 10kA.

GFR Series RCBO Ordering Scheme







E483493

GFR 06 **Residual Current Sensitivity** No. of Poles Trip Curve **Rated Current** 2, 4 B, C, D 5, 6, 8, 10, 12, 13, 15. 16. 20. 25. 30. 32, 35, 40A **EXAMPLE:**

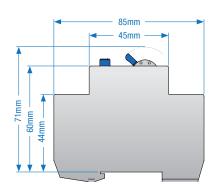
GFR2B06030

Technical Specification

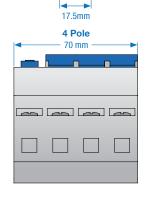
Number of Poles	2	4
Rated Voltage (Un)	277V AC	480Y/277V AC
Rated Current	5, 6, 8, 10, 12, 13, 15,	16, 20, 25, 30, 32, 35, 40A
Rated Residual Operating Current (In)	10*, 30, 10	0, 300, 500mA
Rated Frequency	50	/60Hz
Overload Tripping	В, С	C and D
Cable Size & Tightening Torque	Stranded wire sized 16 - 3 AWG (1.	5mm2 - 25mm2) @ 17.5lb-in (2.0Nm)
	Solid wire sized 16 - 10 AWG (1.5)	mm2 - 5.5mm2) @ 17.5lb-in (2.0Nm)
	Solid wire sized 18 - 16 AWG (1	mm2 - 1.5mm2) @ 25lb-in (2.8Nm)
Electrical Life	6000 Switch	hing Operations
Machanical Life	10000 Cuite	hina Onorationa

GFR Series RCBO Short Circuit Withstand Rating

V	ı	IR	Backup
	≤20A	10kA	None
2 Pole			Class J Fuse 250A or lower
277V AC	>20A	10kA	Altech L Series Branch Circuit Breaker
			Altech R Series Supplementary Protector
	≤20A	10kA	None
4 Pole			Class J Fuse 250A or lower
480Y/277V AC	>20A	10kA	Altech L Series Branch Circuit Breaker
			Altech R Series Supplementary Protector



Cat No GFFF



030

 $010 = 10 \text{mA}^*$

030 = 30 mA

100 = 100 mA

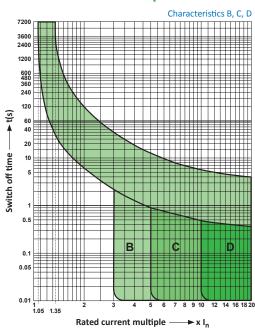
300 = 300 mA

500 = 500 mA* 10mA only available on

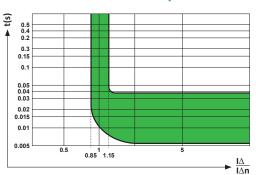
current ratings up to 25A, 2 pole only

2 Pole 35 mm

GFR Series RCBO Overload Trip Curves



GFR Series RCBO Ground Fault Trip Curve



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