Altech Corp.®

Certified System

Serving the Automation & Control Industry Since 1984

ISO 9001 QMI-SAI Global







1st Ever



UL 489
Branch Circuit Breaker
with Ground Fault Relay

UL 1053
Ground Fault Sensing
and Relaying Device



Ground Fault Relay with Overload Protection

Rated current mu

UL Ground Fault Equipment Protectors



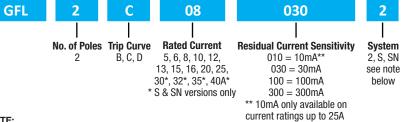
Altech Corp.

GFL Series (5A - 40A)

10kA UL489 Listed Branch Circuit Breaker with Equipment Ground Fault Protection (RCB0)

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



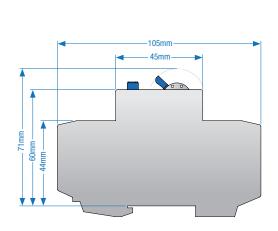
NOTE:

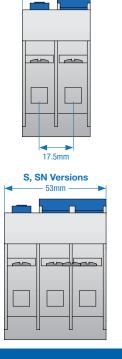
2=240V Single Phase System with neutral connection. S=120/240V Split Phase System with no neutral connection. SN=120/240V Split Phase System with neutral connection.

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	Switching Operations		
Mechanical Life		Switching Operations		

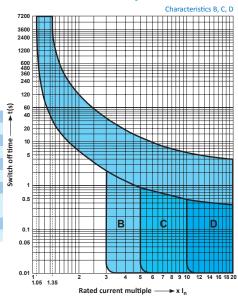




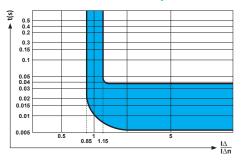
2 Version



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 LANGE TEST





GF Series RCCB Ordering Scheme

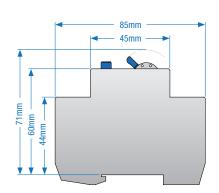
GF	2	25	030
	No. of Poles	Rated Current	Residual Current Sensitivity
	2, 4	25, 40, 63A	$010 = 10 \text{mA}^*$
			030 = 30 mA
EXAMPL	F:		100 = 100 mA
			300 = 300 mA
GF225030	J		500 = 500 mA
		*(01)	NLY 2 pole, 25A - Cat. No. GF225010)

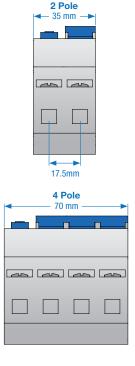
Technical Specification

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

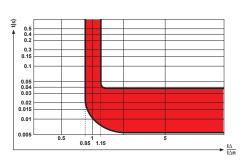
GF Series RCCB Short Circuit Withstand Rating

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	2	В	06	030
		\Box		
	No. of Poles	Trip Curve	Rated Current	Residual Current Sensitivity
	2, 4	B, C, D	5, 6, 8, 10, 12, 13,	010 = 10 mA*
			15, 16, 20, 25, 30,	030 = 30 mA
EXAMPLE:		32, 35, 40A	100 = 100 mA	
				300 = 300 mA
GFR2B06030				500 = 500 mA

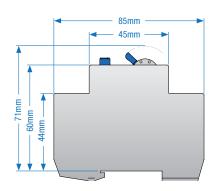
GFR2B06030

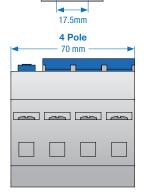
Technical Specification

Number of Poles	2 4
Rated Voltage (U _n)	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, 100, 300, 500mA
Rated Frequency	50/60Hz
Overload Tripping	B, 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 (1.5mm2 - 5.5mm2) @ 17.5lb-in (2.0Nm)
	Solid wire sized 18 - 16 AWG (1mm2 - 1.5mm2) @ 25lb-in (2.8Nm)
Electrical Life	6000 Switching Operations
Mechanical Life	10000 Switching Operations

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



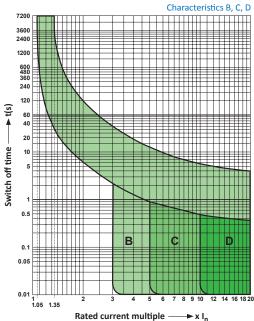


* 10mA only available on

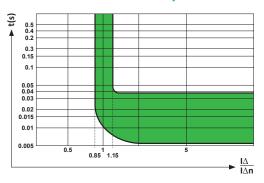
current ratings up to 25A, 2 pole only

2 Pole 35 mm

GFR Series RCBO Overload Trip Curves



GFR Series RCBO Ground Fault Trip Curve



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Altech:

GFL2C080302