

# 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.



C.B. W/EQ.GFP  
E483494

### GFL Series RCBO Ordering Scheme

|            |                   |                       |   |  |                                      |
|------------|-------------------|-----------------------|---|--|--------------------------------------|
| <b>GFL</b> | <b>2</b>          | <b>C</b>              | <b>08</b>   | <b>030</b>   | <b>2</b>                             |
|            | No. of Poles<br>2 | Trip Curve<br>B, C, D | Rated Current<br>5, 6, 8, 10, 12,<br>13, 15, 16, 20, 25,<br>30*, 32*, 35*, 40A*<br>* S & SN versions only | Residual Current Sensitivity<br>010 = 10mA**<br>030 = 30mA<br>100 = 100mA<br>300 = 300mA | System<br>2, S, SN<br>see note below |

#### 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.

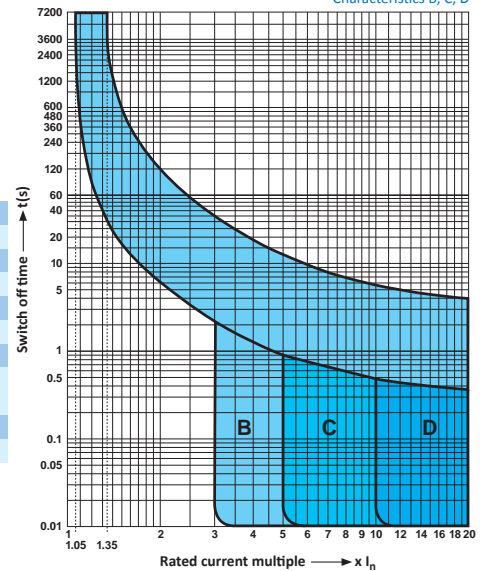
\*\* 10mA only available on current ratings up to 25A

### Technical Specification

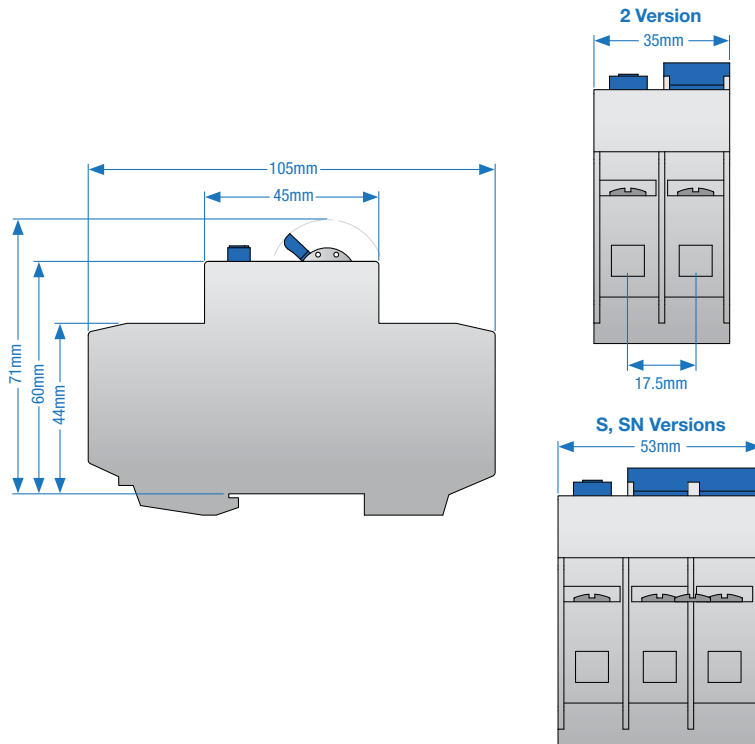
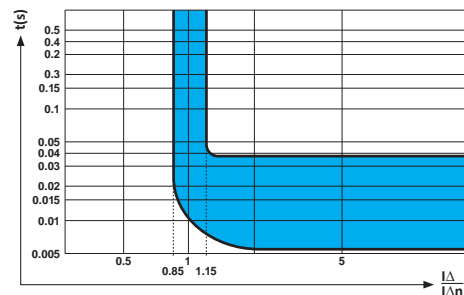
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|--|--|--|
| Number of Poles                                    | 1+N (2)  | 2 (S), 2+N (SN)                                      |
| Rated Voltage (U <sub>n</sub> )                    | 240V AC  | 120/240V AC  |
| Rated Current                                      | 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 Current (I <sub>n</sub> ) | 10**, 30, 100, 300mA   |  |
| Rated Short Circuit Capacity (I <sub>nc</sub> )    | 10kA   |  |
| Rated Frequency                                    | 50/60Hz  |  |
| Overload Tripping                                  | B, C and D   |  |
| Cable Size & Tightening Torque                     | 14 - 3 AWG (2mm <sup>2</sup> - 25mm <sup>2</sup> ) @ 17.5lb-in (2.0Nm)<br>18 - 16 AWG (1mm <sup>2</sup> - 1.5mm <sup>2</sup> ) @ 25lb-in (2.8Nm) |  |
| Electrical Life                                    | 6000 Switching Operations  |  |
| Mechanical Life                                    | 10000 Switching Operations   |  |

### GFL Series RCBO Overload Trip Curves

Characteristics B, C, D



### GFL Series RCBO Ground Fault Trip Curve



UL 489  
Branch Circuit Breaker  
with Ground Fault Relay