PC-Series
GFCI/ELCI & PANEL SEAL

The PC-Series, AC Residual Current Circuit Breaker with Overcurrent Protection (RCBO), combines the ground fault protection of a GFCI with the familiar overcurrent tripping characteristics of a normal circuit breaker. It detects lower level ground faults that do not trip ordinary circuit breakers, but could lead to shock hazards and fires in installations near water. Innovative features include status LED indicators distinguishing if a breaker is closed with line voltage present, or has opened due to leakage current, or has opened due to over current, or is closed with no line voltage present.

Product Highlights:
- Meets latest UL 943 standards
- GFCI self-test auto-monitoring & end-of-life indication
- Integrated push-to-reset button
- Overload, short circuit and ground fault protection in a single package
- Status LED indicators
- Single circuit solution for AC branch ground fault protection
- Optional panel seal

Typical Applications:
- Generators
- Water Heaters
- Battery Chargers
- Marine
- AC main ground fault protection for a boat's entire AC electrical system

Resources:
- Configure a Complete Part
- Download CAD & Sales Drawing

Carling Technologies, Inc.
60 Johnson Avenue, Plainville, CT 06062
Email: sales@carlingtech.com
Application Support: team2@carlingtech.com
Phone: 860.793.9281  Fax: 860.793.9231
www.carlingtech.com
PC-Series Switch
DESIGN FEATURES

MOUNTING PLATE
Available in stainless steel or zinc chromate plated carbon steel

OPTIONAL SEAL
IP66/67 panel seals provide ideal protection against salt spray, ozone, dust, water and most acids

LEDs
Two separate lights that indicate power, ground fault leakage and end-of-life

*Manufacturer reserves the right to change product specification without prior notice.
### Electrical Tables

**Table A:** UL Listed & CSA Certified configurations as a Ground Fault Circuit Interruptor

<table>
<thead>
<tr>
<th>Circuit Configuration</th>
<th>Voltage (Hertz)</th>
<th>Frequency (Hertz)</th>
<th>Phase</th>
<th>Current Rating (Amperes)</th>
<th>Short Circuit Capacity (Mils)</th>
<th>Ground Fault Trip Level (Mils)</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Series</td>
<td>120</td>
<td>60</td>
<td>1</td>
<td>1 - 50</td>
<td>5000</td>
<td>6</td>
<td>1 or 2 Poles. One pole of a two pole unit must be Neutral</td>
</tr>
<tr>
<td></td>
<td>120 / 240</td>
<td>60</td>
<td>1</td>
<td>1 - 50</td>
<td>5000</td>
<td>6</td>
<td>2 or 3 Poles. One pole of a three pole unit must be Neutral</td>
</tr>
</tbody>
</table>

**Table B:** UL Recognized as an Earth Leakage Circuit Interruptor - 120 and 120/240V

<table>
<thead>
<tr>
<th>Circuit Configuration</th>
<th>Voltage (Hertz)</th>
<th>Frequency (Hertz)</th>
<th>Phase</th>
<th>Current Rating (Amperes)</th>
<th>Short Circuit Capacity (Mils)</th>
<th>Ground Fault Trip Level (Mils)</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Series Ignition Protection</td>
<td>120</td>
<td>50 / 60</td>
<td>1</td>
<td>1 - 50</td>
<td>3000</td>
<td>30</td>
<td>1 or 2 Poles. One pole of a two pole unit must be Neutral</td>
</tr>
<tr>
<td></td>
<td>120 / 240</td>
<td>50 / 60</td>
<td>1</td>
<td>1 - 50</td>
<td>5000</td>
<td>30</td>
<td>2 or 3 Poles. One pole of a three pole unit must be Neutral</td>
</tr>
</tbody>
</table>

**Table C:** UL Recognized as an Earth Leakage Circuit Interruptor - 240V

<table>
<thead>
<tr>
<th>Circuit Configuration</th>
<th>Voltage (Hertz)</th>
<th>Frequency (Hertz)</th>
<th>Phase</th>
<th>Current Rating (Amperes)</th>
<th>Short Circuit Capacity (Mils)</th>
<th>Ground Fault Trip Level (Mils)</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Series Ignition Protection</td>
<td>240</td>
<td>50 / 60</td>
<td>1</td>
<td>1 - 30</td>
<td>3000</td>
<td>30</td>
<td>2 or 3 Poles. One pole of a three pole unit must be Neutral. Suffix 11</td>
</tr>
<tr>
<td></td>
<td>240</td>
<td>50 / 60</td>
<td>1</td>
<td>1 - 50</td>
<td>3000</td>
<td>30</td>
<td>2 or 3 Poles. One pole of a three pole unit must be Neutral. Suffix 12</td>
</tr>
</tbody>
</table>

Impedance (Across Circuit breaker only)

### Agency Certifications

UL Standard 489

UL Standard 1077

UL Standard 943 & CSA 22.2 No. 144.1

UL Standard 1053

UL Standard 1500

Circuit Breakers, Molded Case,

Supplementary Protectors

Class A Ground Fault Circuit Interrupters

Ground Fault Sensing and Relaying Equipment

Ignition Protection
### Electrical

**Current Ratings**
50 Amps maximum

**Voltage Rating**
120 VAC, 120/240 VAC

**Dielectric Strength**
1480 VAC, 60Hz for 1 minute between all electrically isolated terminals

**Insulation Resistance**
Minimum of 100 Megohms at 500VDC

**Leakage Current Trip Level**
\( \pm 1 \text{ mA} \)

**Leakage Current Trip Time**
\( \leq 25 \text{ ms} \) complies with UL 943

**EMI**
UL 943 / IEC 61000-4-6, 0.5V 150KHz ~ 230 MHz

**Operating Frequency**
50/60 Hz

**Reverse Polarity**
A reversed Line / Load connection to the circuit breaker shall not cause damage to the device

**Grounded Neutral**
When neutral is grounded on load side of circuit

**Overload**
50 operations @ 600% of rated current on Breakers

**Switched Neutral**
2nd Pole on 120V and 3rd Pole on 120/240V, Optional

**Manual Test**
To be performed at least every month by pressing the test button on the GFCI to verify the device’s ability to respond and trip when subjected to simulated leakage. Current imbalance is sufficient to cause tripping at 85% of rated voltage. Line Power at L1 is required.

**GFCI Auto-Monitoring**
Performed automatically without opening circuit breaker contacts or compromising ability to respond to ground or neutral faults. Automatic Self-Test performed automatically every time power is supplied within 5 seconds. Automatic Self-Test Frequency: 3 seconds. Line Power at L1 is required. Feedback when auto-monitoring Self-Test fails: Circuit breaker trips and cannot be reset and a visual indication is displayed (See Next Page).

**GFCI Heartbeat Indicator**
Successful Self Tests are followed by a flash of light per Next Page

**GFCI End of Life**
Circuit breaker trips and cannot be reset. A visual indication is displayed via the LED’s located on the front of the device (See Next Page). Line Power at L1 is required.

### Physical

**Number of Poles**
1-pole (1 Circuit Breaker + 1 GFCI Sensor Module), 120V. 2-pole (2 Circuit Breakers + 1 GFCI Sensor Module), 120/240V or 120V with Switched Neutral. 3-pole (3 Circuit Breakers + 1 GFCI Sensor Module), 120/240V with Switched Neutral.

**Termination**

**Mounting**
Front Panel, #6-32 or M3 threaded inserts.

**Actuator**
Handle, Flat Rocker, Curved Rocker (with or without rocker guard), Push-to-Reset Rocker

**Internal Configuration**
Circuit Breaker, Series Trip Switch only (without over-current protection)

**Weight**
1-pole: approximately 300 grams (10.6 ounces)
2-pole: approximately 375 grams (13.2 ounces)
3-pole: approximately 500 grams (17.6 ounces)

**Standard Colors**
Housing – Black, Test Button – White, Text – White

### Environmental

Designed and tested in accordance with requirements of specification MIL-PRF- 55629 and MIL-STD-202G as follows:

**Shock**
Withstands 100 G, 6ms, sawtooth at rated current per Method 213, Test Condition “1”.

**Thermal Shock**
Method 107D, Condition A (5-cycle at -55°C to +25°C to +85°C to +25°C)

**Vibration**
Withstands 0.06” excursion from 10-55 Hz, and 10 G 55-500 Hz, at rated current per Method 204C, Test Condition A. Instantaneous & ultrashort curves tested at 90% of rated current.

**Moisture Resistance**
93% RH at 30°C for 168 Hours.

**Operating Temperature**
-35°C to +66°C

**Corrosion**
UL-943-6.21, 3 weeks

**Humidity**
30±2°C, 70±2% relative humidity

**Mixed Flowing Gases:**
100 ppb H₂S, 20 ppb Cl₂, 200±50 ppb NO₂
### GFCI LED Indication

<table>
<thead>
<tr>
<th>Condition</th>
<th>Breaker</th>
<th>LED Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power with Open Circuit</td>
<td>Open</td>
<td>None</td>
</tr>
<tr>
<td>Circuit Manually Opened</td>
<td>Open</td>
<td>None</td>
</tr>
<tr>
<td>Power with Closed Circuit</td>
<td>Closed</td>
<td>Green (solid)</td>
</tr>
<tr>
<td>Ground Fault Leakage</td>
<td>Trips Open</td>
<td>Red (solid)</td>
</tr>
<tr>
<td>Grounded Neutral</td>
<td>Trips Open</td>
<td>Red (solid)</td>
</tr>
<tr>
<td>Passed Automatic, Self-Test</td>
<td>Closed</td>
<td>Red (flash lasting 2 ms, every 3 seconds)</td>
</tr>
<tr>
<td>Failed Automatic, Self-Test</td>
<td>Trips Open</td>
<td>Red (continuous flashing, every 0.10 seconds)</td>
</tr>
<tr>
<td>Manual GFCI Monthly Test</td>
<td>Trips Open</td>
<td>Red (solid)</td>
</tr>
<tr>
<td>Over Current</td>
<td>Trips Open</td>
<td>None</td>
</tr>
<tr>
<td>End of Life</td>
<td>Trips Open</td>
<td>Red (continuous flashing, every 0.10 seconds)</td>
</tr>
</tbody>
</table>

Loss of line power results in no LED output and no continuous trip.

### GFCI Test Instructions

1. Turn “OFF” the GFCI Breaker actuator. Turn on the power to the panel. The green and red LED’s should be off.
2. Turn “ON” the GFCI Breaker actuator. The green “POWER” LED should show steady illumination and the red “LEAKAGE FAULT” LED should flash every 3 seconds to indicate a successful self-test.
3. Depress the “TEST” button. This will cause the actuator to move to the “OFF” position and the red LED to turn on and show steady illumination, indicating that the GFCI is functioning properly. The green LED will also go from steady to off. If the actuator fails to move to the “OFF” position or the red LED fails to illuminate, the unit MUST be replaced.
4. Turn the GFCI Breaker actuator to the “ON” position. The red LED should flash every 3 seconds and the green LED should show steady illumination.
5. This test is to be performed on a monthly basis and recorded on the “Monthly Test Reminder” label.

### ELCI LED Indication

Indicator - Two integrated LEDs, Red & Green
- Green LED On, Red LED Off - Line Voltage is present, the breaker is closed, and the device is protecting the circuits against over current and leakage current.
- Green LED Off, Red LED On - The device has detected leakage current and has opened the circuit breaker.
- Green LED Flashing, Red LED Off - The circuit breaker has opened due to over current or has been turned off manually
- Green LED Off, Red LED Off - Line Voltage is not present
- Green LED Flashing, Red LED Off, Amber LED ON - Indicates Hot & Neutral are reversed and the circuit breaker is open

Neutral Protection - When neutral is grounded on load side of circuit

Test Button - Located on Ground Fault Module
PC Series GFCI/ELCI Circuit Breaker - Ordering Scheme

1 Series
2 System Voltage/Poles
3 Circuit
4 Actuator
5 Frequency & Delay
6 Current Rating
7 Terminal
8 Actuator Color
9 Mounting/Barricers
10 Trip Level
11 Agency Approval

1 Series
PC

2 System Voltage / Poles
A 120 VAC single phase, 1 pole
B 120/240 VAC single phase, 2 pole
C 120/240 VAC single phase with switched neutral, 3 pole
D 120 VAC single phase with switched neutral, 2 pole
G 240 VAC single phase, 2 pole

3 Circuit
B Series Trip (Current)

4 Actuator
Handle
A 1 per breaker pole
B 1 per unit

Two Color Curved Visi-Rocker
C Indicate ON, vertical legend
D Indicate ON, horizontal legend
F Indicate OFF, vertical legend
G Indicate OFF, horizontal legend

Single Color Curved Rocker
J Vertical legend
K Horizontal legend

Two Color Curved Visi-Rocker
Push-to-Reset
N Indicate OFF, vertical legend
O Indicate OFF, horizontal legend

5 Frequency & Delay
20 50 / 60Hz Instantaneous
21 50 / 60Hz Ultra Short
22 50 / 60Hz Short
24 50 / 60Hz Medium
26 50 / 60Hz Long

6 Current Rating
410 1.000
415 1.500
417 1.750
420 2.000
425 2.500
427 2.750
430 3.000
435 3.500
440 4.000
445 4.500
450 5.000
455 5.500
460 6.000
465 6.500
470 7.000
475 7.500
480 8.000
485 8.500
490 9.000
495 9.500
510 10.000
512 1.250
515 1.500
517 1.750
520 2.000
522 2.250
525 2.500
527 2.750
530 3.000
535 3.500
540 4.000
545 4.500
550 5.000
555 5.500
560 6.000
565 6.500
570 7.000
575 7.500
580 8.000
585 8.500
590 9.000
595 9.500
610 10.000
612 1.250
615 1.500
617 1.750
620 2.000
622 2.250
624 2.400
625 2.500
630 3.000
635 3.500
640 4.000
650 5.000
710 10.500
711 11.500
712 12.500
713 13.500
714 14.500
715 15.500
618 18.000
622 22.000
624 24.000
625 25.000
630 30.000
635 35.000
640 40.000
650 50.000

7 Terminal
1 Stud, 10-32 threaded

8 Actuator Color & Legend
Handle
A I-O
B ON
C OFF

Rocker Actuator Color
Single
Black
White
Red
Green
Blue
Yellow
Gray
Orange

Push-to-Reset
2 Vertical legend
3 Horizontal legend
5 Vertical legend
6 Horizontal legend

9 Mounting / Barricers

10 Leakage Current Trip Level - Max. Trip Current
A 6 MA (CLASS A GFCI)
B 30 MA (ELCI)

11 Agency Approval
AA without Approvals
10 UL 943 and CSA certified
11 UL 1053
12 UL 1053 & UL 1500
Dimensional Specifications: in. [mm]

INDICATE OFF / SINGLE COLOR ROCKER ACTUATOR

HANDLE / INDICATE ON ROCKER ACTUATOR

TERMINAL LOCATIONS

PCB 120/240 VAC VERSION

3.015 [76.58] MAX.

PCA 120 VAC VERSION

PCD 120 VAC VERSION W/NEUTRAL BREAK

PCC 120/240 VAC VERSION W/ NEUTRAL BREAK

NOTE: NEUTRAL - SUPPLIED 12" LONG MIN. (CIRCUIT CODES A,B,E & F)

HANDLE ACTUATOR PCC & PCF

ROCKER ACTUATOR TOLERANCES ±.005 [.12]

PANEL CUTOUT DETAIL

PCD & PCE

PCA, PCB

2.280 [57.91]

3.040 [77.22]

.432 [10.97]

.750 [19.05]

TYP.

2 PLC’S. TYP. PER POLE

.156 DIA. [Ø3.96]

1.260 [32.00]

1.453 [36.91]

2.062 [52.37]

3.790 [96.27]

PCA

PCB, PCD & PCE

1.660 [42.16]

.200 [5.08]

3.040 [77.22]

2.280 [57.91]

.200 [5.08]

1.660 [42.16]

2 PLC’S. TYP. PER POLE

.156 DIA. [Ø3.96]

1.260 [32.00]

1.453 [36.91]

2.062 [52.37]

3.790 [96.27]
**Dimensional Specifications: in. [mm]**

**NOTE: NEUTRAL - SUPPLIED 12" LONG MIN. (CIRCUIT CODES A,B,E & F)**

**HANDLE ACTUATOR**

**ROCKER ACTUATOR**

**Panel Cutout Detail**

**Tolerances ±.005 [.12]**

**Notes:**
For additional circuit breaker dimensions, reference the C-Series Breakers in the Carling Circuit Protection catalog.
PC-Series - GFCI/ELCI Circuit Breaker - Panel Seal Ordering Scheme, Dimensional Specifications

**9**

<table>
<thead>
<tr>
<th>Type Number</th>
<th>Series</th>
<th>Actuator</th>
<th>Poles</th>
<th>Mounting</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
</tbody>
</table>

1. **TYPE NUMBER**

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>Circuit Breaker Assembly</td>
</tr>
</tbody>
</table>

2. **SERIES**

<table>
<thead>
<tr>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC</td>
</tr>
</tbody>
</table>

3. **ACTUATOR TYPE**

<table>
<thead>
<tr>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Handle, one per pole</td>
</tr>
<tr>
<td>2 Handle, one per multipole unit</td>
</tr>
<tr>
<td>A Rocker</td>
</tr>
</tbody>
</table>

4. **POLES PER UNIT - INCLUDING ELECTRONIC MODULE**

<table>
<thead>
<tr>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 Three</td>
</tr>
<tr>
<td>4 Four</td>
</tr>
<tr>
<td>5 Five</td>
</tr>
</tbody>
</table>

5. **MOUNTING SCREWS / PLATE MATERIAL**

<table>
<thead>
<tr>
<th>Material Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 6-32 Thread Phillips Head</td>
</tr>
<tr>
<td>2 M-3 Thread Phillips Head</td>
</tr>
<tr>
<td>3 6-32 Thread Slotted Head</td>
</tr>
<tr>
<td>4 M-3 Thread Slotted Head</td>
</tr>
<tr>
<td>5 6-32 Thread Phillips Head with Stainless Steel Plate</td>
</tr>
<tr>
<td>6 M-3 Thread Phillips Head with Stainless Steel Plate</td>
</tr>
<tr>
<td>7 6-32 Thread Slotted Head with Stainless Steel Plate</td>
</tr>
<tr>
<td>8 M-3 Thread Slotted Head with Stainless Steel Plate</td>
</tr>
</tbody>
</table>

**Notes:**

1. Screws supplied to accommodate mounting panel thickness of 1/8" ± 1/32".
2. Consult Factory for additional options.
3. Available for Flat and Curved Rocker options - No Rockerguard Bracket.

---

**Handle Style Panel Seal**

**Rocker Style Panel Seal**
### Handle Actuator

**8PC-13**
- Handle, 1 per pole
- Dimensions:
  - 3.12 [79.2]
  - 2.71 TYP [68.8]

**8PC-14**
- 4 pole cutout
- Dimensions:
  - 3.87 [98.2]

**8PC-15**
- 5 pole cutout
- Dimensions:
  - 4.62 [117.3]

**8PC-24**
- Handle, 1 per multipole unit

**8PC-25**
- Handle, 1 per multipole unit

### Rocker Actuator

**8PC-A3**
- 3 pole cutout
- Dimensions:
  - 2.95 [75]
  - 2.22 TYP [56.4]

**8PC-A4**
- 4 pole cutout
- Dimensions:
  - 3.70 [94]
Time Delay Curves

### Instantaneous

- **Ultra Short**
- **Long**
- **Short**

### Time Delay Values

<table>
<thead>
<tr>
<th>Delay</th>
<th>100%</th>
<th>125%</th>
<th>150%</th>
<th>200%</th>
<th>400%</th>
<th>600%</th>
<th>800%</th>
<th>1000%</th>
<th>1200%</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>No Trip</td>
<td>.040 MAX</td>
<td>.035 MAX</td>
<td>.030 MAX</td>
<td>.025 MAX</td>
<td>.020 MAX</td>
<td>.017 MAX</td>
<td>.015 MAX</td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>No Trip</td>
<td>.014 - .150</td>
<td>.011 - .095</td>
<td>.008 - .055</td>
<td>.006 - .035</td>
<td>.005 - .027</td>
<td>.005 - .021</td>
<td>.004 - .018</td>
<td>.004 - .017</td>
</tr>
<tr>
<td>22</td>
<td>No Trip</td>
<td>.700 - 12.0</td>
<td>.350 - 4.0</td>
<td>.130 - 1.3</td>
<td>.027 - 2.2</td>
<td>.008 - 1.3</td>
<td>.004 - 1.3</td>
<td>.004 - .13</td>
<td>.004 - .045</td>
</tr>
<tr>
<td>24</td>
<td>No Trip</td>
<td>10.0 - 160</td>
<td>6.00 - 60.0</td>
<td>2.20 - 20.0</td>
<td>.500 - 3.0</td>
<td>.050 - 1.3</td>
<td>.007 - .500</td>
<td>.005 - .060</td>
<td>.005 - .046</td>
</tr>
<tr>
<td>26</td>
<td>No Trip</td>
<td>50.0 - 700</td>
<td>32.0 - 350</td>
<td>10.0 - 90.0</td>
<td>5.00 - 15.0</td>
<td>.500 - 7.0</td>
<td>.020 - 3.0</td>
<td>.006 - 2.0</td>
<td>.005 - 1.00</td>
</tr>
</tbody>
</table>

**Notes:**
- Other time delay values available, consult factory.
- Delay Curves 21, 22, 24, 26: Breakers to hold 100% and must trip at 125% of rated current and greater within the time limit shown in this curve.
- Delay Curve 20: Breakers to hold 100% and must trip at 150% of rated current and greater within the time limit shown in this curve.
- All Curves: Curve data shown represents breaker response at ambient temperature of 77°F (25°C) with no preloading. Breakers are mounted in standard wall-mount position.
- The minimum inrush pulse tolerance handling capability is 12 times the rated current. These values are based on a 60 Hz 1/2 cycle, 8.33 ms pulse.
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About Carling

Founded in 1920, Carling Technologies is a leading manufacturer of electrical and electronic switches and assemblies, circuit breakers, electronic controls, power distribution units, and multiplexed power distribution systems. With four ISO9001 and IATF16949 registered manufacturing facilities and technical sales offices worldwide, Carling Technologies Sales, Service and Engineering teams do much more than manufacture electrical components, they engineer powerful solutions! To learn more about Carling please visit www.carlingtech.com/company-profile.

To view all of Carling’s environmental, quality, health & safety certifications please visit www.carlingtech.com/environmental-certifications
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