80-Amp High-Current GFCI Adds Ground-Fault Protection to Heavy Equipment

Dedicated Only for 3- and 4-Wire Systems That Include Grounded Neutral

Definition:
Leviton’s High-Current GFCI provides critical ground fault protection for OEM’s to add to spas and industrial equipment as required by the National Electrical Code. It features the same internal circuitry as other back and side wired GFCI receptacles, but works by tripping a relay unit supplied by the manufacturer. Developed for equipment with current requirements of up to 80 amperes, Cat. No. 6895 is UL-recognized and requires a 120VAC line-side feed for sensor electronics to operate. Conductors for the equipment pass through the Sense Transformer (donut) in the back of the GFCI. The sensor monitors current flow between all conductors. When a current imbalance caused by a ground fault of more than 5mA (± 1mA) occurs, the GFCI trips the relay, disconnecting power to the equipment.

NOTE: Each Cat. No. 6895 and contactor or relay combination MUST be approved by UL. See Table 1 for 50-amp relays and Table 2 for 80-amp relays that have been approved for use with Cat. No. 6895.

Applications:
- Spas and Whirlpools
- High-Pressure Washers
- Heater Packs
- Industrial Mixers

Because Leviton engages in a continuous program of product improvement, all data in this publication is subject to change without notice.

Agency Standards
UL Recognized Component (File #E-48380)

Ordering Information
Cat. No. 6895
- Rated: 80A-120/125VAC, 60 Hz maximum load using an Auxiliary Relay (not supplied).
- Voltage: 120VAC, 60 Hz single-phase
- 250AC, 60 Hz two-phase

For Technical Assistance Call: 1-800-824-3005
Features and Benefits:
- Monitors up to an 80-amp circuit
- Adds ground fault protection to heavy equipment powered through 3- or 4-wire circuits
- Test and reset buttons confirm proper operation
- Terminal and back-wire screws accept up to #12 copper-clad wire
- GFCI power input for all wiring configurations (single-phase and two-phase) is a 120V feed from power cable between donut and relay

50-Amp and 80-Amp Auxiliary Relay (Contactor) Information
- The relays below have been evaluated to the requirements for GFCI's including trip time. NO other relays can be substituted.
- No loads other than the 120V relay coils may be connected to the Cat. No. 6895 load terminals.
- Indicator Lights used on the load terminals of Cat. No. 6895 must be rated no higher than 7.5W. Higher ratings will slow the response time of relay.

Table 1 – 50 AMPS
- The GFCI can protect up to a maximum of 50 amps using any combination of the Contactors listed in Table 1.

Table 2 – 80 AMPS
- The GFCI can protect up to a maximum of 80 amps using any combination of ONLY the Contactors listed in Table 2.
- Maximum short-circuit rating of 5000 amps.
Features and Benefits:
- Monitors up to an 80-amp circuit
- Adds ground fault protection to heavy equipment powered through 3- or 4-wire circuits
- Test and reset buttons confirm proper operation
- Terminal and back-wire screws accept up to #12 copper-clad wire
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Table 1 – 50 AMPS
- The GFCI can protect up to a maximum of 50 amps using any combination of the Contactors listed in Table 1.

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Cat. No.</th>
<th>Full Load Amp Rating</th>
<th>Volts</th>
<th>Poles</th>
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<tr>
<td>Joslyn Clark</td>
<td>A77-306657A-1</td>
<td>20</td>
<td>120</td>
<td>3</td>
</tr>
<tr>
<td>Joslyn Clark</td>
<td>A77-308689A</td>
<td>50</td>
<td>120</td>
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<tr>
<td>Joslyn Clark</td>
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<td>30</td>
<td>120</td>
<td>3</td>
</tr>
<tr>
<td>Joslyn Clark</td>
<td>A77-309046A-221</td>
<td>50</td>
<td>120</td>
<td>3</td>
</tr>
<tr>
<td>Potter &amp; Brumfield</td>
<td>P31E42ACG0105</td>
<td>50</td>
<td>120</td>
<td>3</td>
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<tr>
<td>Square D</td>
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<td>240</td>
<td>2</td>
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<td>30</td>
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Table 2 – 80 AMPs
- The GFCI can protect up to a maximum of 80 amps using any combination of ONLY the Contactors listed in Table 2.
- Maximum short-circuit rating of 5000 amps.

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<th>Manufacturer</th>
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<th>Full Load Amp Rating</th>
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<th>Max. Fuse Size</th>
<th>Wire Size</th>
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