Low-Voltage Power Circuit Breakers

**Insulated Case and Molded Case Circuit Breakers with MicroVersaTrip® Solid-State Overcurrent Trip Device**

**Type AKR**

Long-time-delay and Instantaneous Time-Current Curves

Curves apply at 50/60 Hertz and from -20°C to 70°C Programmer Ambient.

For 50 Hz operation see note above.

**Notes:**

For 50 Hertz operation of the following breakers equipped with Ground Trip element, the instantaneous pickup settings should not exceed the following maximums to avoid ground error signals possible due to sensor saturation.

<table>
<thead>
<tr>
<th>Breaker Type, Sensor Top Setting (Amperes)</th>
<th>Max. Pickup Setting (Amperes)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AK, AKR-50 1200</td>
<td>14,000</td>
</tr>
<tr>
<td>AK, AKRT-50 1600</td>
<td>18,000</td>
</tr>
<tr>
<td>AKR-30 100, 150, 225, 300 or 480, 600, 800</td>
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<tr>
<td>AKR-60 300, 400, 600, 800 or 600, 800, 1200, 1600</td>
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<tr>
<td>AKRT-50 800, 1200, 1600, 2000</td>
<td></td>
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<tr>
<td>AKR-75 1200, 1600, 2000, 2500</td>
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<tr>
<td>AKR-100 1600, 2000, 3000, 4000</td>
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</tr>
</tbody>
</table>

**Application Determines End of Curve**

**Minimum Total Clearing Time**

**Maximum Total Clearing Time**

**Long-Time Delay Bands**

**Long-Time Pickup 0.8C to 1.1C**

**MULTIPLES OF INSTANTANEOUS UNIT PICK UP SETTING**

**Low Voltage Power**

**Circuit Breaker**

**Total Clearing Time**

**Molded Case and Insulated Case**

**Circuit Breaker**

**Total Clearing Time**

**MULTIPLES OF CURRENT SETTING, C**

GE Consumer & Industrial - Electrical Distribution

**X = Current Sensor Taps (Amperes)**

| AKR-30 | 100, 150, 225, 300 or 480, 600, 800 |
| AKR-60 | 300, 400, 600, 800 or 600, 800, 1200, 1600 |
| AKRT-50 | 800, 1200, 1600, 2000 |
| AKR-75 | 1200, 1600, 2000, 2500 |
| AKR-100 | 1600, 2000, 3000, 4000 |

Power Break and Molded Case Circuit Breakers

125, 200, 300, 400, 500, 600, 800, 1000, 1200, 1600, 2000, 2500, 3000 and 4000 Amps

Voltage Ratings: 600 Vac

GES-6194

Programmer Set Points:

Long-Time Current Setting:

50, 60, 70, 80, 90, 95 and 100% multiples of current sensor tap setting or rating 90.

Long-Time Pickup: 0.8, 0.9, 1.0, 1.1 multiples of the current setting C.

Instantaneous: 1.5, 2.0, 2.5, 3.0, 4.0, 6.0, 8.0 & 10.0X for 110k through 3000kA ratings and 1.5, 2.0, 2.5, 3.0, 4.0, 5.0, 7.0, & 9.0X for 4000A rating multiples of current setting 90.

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