Low-Voltage Power Circuit Breakers

POWER BREAK® and Molded Case Circuit Breakers with MicroVersaTrip®

Solid-State Overcurrent Trip Device

Type AKR

Long-time-delay, Short-time delay and Special Instantaneous Units

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:
1. Short-time-delay element is optional.
   The instantaneous element may be omitted.
2. For 50 Hertz operation of the following breakers equipped with Ground Trip element, the Short-Time pickup settings should not exceed the maximums to avoid ground error signals possible due to sensor saturation:

<table>
<thead>
<tr>
<th>Breaker Type</th>
<th>Sensor Tap Setting (Amperees)</th>
<th>Max. Pickup Setting (Amperees)</th>
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<td>AK, AKR-50</td>
<td>1600</td>
<td>18,000</td>
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<td>AK, AKR-100</td>
<td>2000</td>
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Hi-Range Instantaneous "H" Suffix

Low-Voltage Power Circuit Breaker Total Clearing Time

Minimum

Intermediate

Maximum

Application Determines End of Curve

Short-time Pickup Points

Short-time Delay Bands

Long-time Delay Bands

Total Clearing Time

MULTIPLES OF CURRENT SENSOR TAP SETTING, "X"

PERCENT OF SHORT-TIME RATING

Time in Seconds

Time in Seconds

Current Sensor Taps (Amperes)

AKB-30: 100, 150, 225, 300 or 350, 400, 600, 800
AKR-30: 1600, 1800, 2000, 2250, 3000
AKR-50: 1200, 1600, 2000, 2400
AKR-75: 1200, 1600, 2000, 2400
AKR-100: 1600, 2000, 3000, 4000

Power Break and Molded Case Circuit Breakers

Type AK, AKR-50

1600, 1800, 2000, 2250, 3000, 3500, 4000, 4500, 5000, 6000, 8000, 10000, 12000, 14000, 16000, 18000, 20000

Voltage Ratings: 600 Vac

Minimum Total Clearing Time

Maximum Total Clearing Time

Notes:
1. Short-time-delay element is optional.
   The instantaneous element may be omitted.
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GE Consumer & Industrial - Electrical Distribution

X = Current Sensor Taps (Amperes)

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Voltage Ratings: 600 Vac

Programmer Set Points:

Long Time Current Settings:
50, 60, 70, 80, 90, 95 and 100% multiples of sensor current tap setting or rating (X).

Pickup: 0.8, 0.9, 1.0, 1.1 multiples of the current setting (C).

Delay Bands:
1, 2, 3 and 4.

Short Time Pickup:
1.5, 2.0, 2.5, 3.0, 4.0, 5.0, 7.0 and 9.0 multiples of current setting (C). For 50 Hz operation, see Note 2.

Time Delay Bands:
MIN, INT, MAX.

Fixed Instantaneous Override "D" Option.

Pickup set at 15X for 200A through 2000A ratings, 13X for 2500A and 3000A Ratings.