The A070gRB is a fast acting, full range fuse utilized in the protection of inverters, UPS and other discrete semi-conductor devices.

**HIGHLIGHTS:**
- Extremely Fast Acting
- Current Limiting
- Low I^2t
- Excellent Cycling Capability
- gR

**APPLICATIONS:**
- Protection of small inverters, UPS systems, motor drives and similar 700V or less equipment

**Features/Benefits**
- **International** 10 X 38 mm (1 1/2 X 13/32) size for worldwide acceptance
- **Ferrule mount** 1 to 30A for design versatility
- **Low I^2t** for improved semiconductor protection
- **gR Class** according to VDE 636-23 and IEC 269.4

**Ratings**
- **AC:** 1-30A, 160kA, 700V
- **DC:** 550VDC, L/R = 10mS

**Approvals**
- **UL Recognized Component**
  - UL File E76491
- **IEC 269-4 Compliance**
- **AC:** UL Guide No. JFHR2

**FUSE HOLDERS FOR A070gRB FUSES**
- USM Series . . . . ULTRASAFE™ Fuse Holders
- 303 Series . . . . Midget Fuse Blocks

Note: Fuses labels have both European and American references.
# PROTISTOR

## A070gRB

### SEMICONDUCTOR PROTECTION FUSES

<table>
<thead>
<tr>
<th>BODY SIZE (mm)</th>
<th>AMPERE RATING</th>
<th>RATED VOLTAGE (VAC)</th>
<th>Melting Pt @ Rated Voltage (A/s)</th>
<th>Clearing I2t @ Rated Voltage (A2s)</th>
<th>WATTS LOSS @ 80% RATED CURRENT</th>
<th>WATTS LOSS @ 100% RATED CURRENT</th>
<th>CATALOG NUMBER</th>
<th>REFERENCE NUMBER</th>
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AMP-TRAP®–Form 101

A70gRB

SEMICONDUCTOR PROTECTION FUSES

**DC Voltage Capability vs. Time Constant**

- **L/R (ms)** vs. **DC Voltage Capability**
- **Time Constant (L/R)** vs. **U(V)**

**DC Peak Arc Voltage**

- **U_m (V)** vs. **Max Peak Arc Voltage**
- **Circuit Voltage (AC RMS)** vs. **U (V)**

**Maximum Arc Volts vs. System Voltage**

- **1 to 6A**
- **Circuit Voltage (AC RMS)** vs. **Max Peak Arc Voltage**
- **U (V)** vs. **U (V)**

- **8 to 30A**
- **Circuit Voltage (AC RMS)** vs. **Max Peak Arc Voltage**
- **U (V)** vs. **U (V)**

**Clearing I^2t vs. AC operating voltage**

- **1 to 30A**
- **Correction factor for I^2t vs. Operating Voltage (AC RMS Volts)**
- **K** vs. **Operating Voltage (AC RMS Volts)**
- **U (V)** vs. **K**

Determines the peak arc voltage across fuse terminals as a function of applied voltage.

Correction factor to determine clearing I^2t of a fuse below its related voltage.