Precautions for the Fusing Components

Refer to the precautions in the beginning part of this catalog for the matters common to all products.

Safety Standards
- KOA’s fuse components comply with the following safety standards:
  - U.S.A.: UL (Underwriters Laboratories Inc.)
  - CANADA: CSA (Canadian Standards Association) C22.2 No.248
  - UL (Underwriters Laboratories Inc.)
  - INTERNATIONAL: IEC (International Electrotechnical Commission) 60127-1, -4
  - JAPAN: Electrical Appliances and Materials Safety Act (PSE) Class-B

Rated Current
- Specified amperage that conforms to safety standards, such as fusing time. This is not to be confused with the steady-state (stationary) current, which is calculated using the following equation:
  - Stationary Current = Rated Current x Stationary Derating Coefficient x Ambient Temperature Derating

The table below indicates deratings for each type of products.

<table>
<thead>
<tr>
<th>Type</th>
<th>Stationary Derating Coefficient</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCF1N, CCF1F</td>
<td>0.7</td>
</tr>
<tr>
<td>TF16AT</td>
<td>0.75</td>
</tr>
<tr>
<td>TF10BN, TF16SN, TF16VN</td>
<td>1.0</td>
</tr>
<tr>
<td>CCP2B, CCP2E</td>
<td>1.0</td>
</tr>
</tbody>
</table>

Deratings for Ambient Temperatures
The following Deratings for Ambient Temperatures are required:
- Ambient Temperature Derating values are found on product datasheets.
- If the current waveform is a repeated pulse or AC waveform, the peak current shall be both the rated current and stationary current. Do not use the effective value of the current waveform.

Rated Voltage
- A rated voltage indicates the voltage that does not run through electrodes after the fuse blows. In case of exceeding the rated voltage, the circuit voltage should be applied at voltage not higher than the rated voltage because the current may run again or may break the elements.

Interrupting Capacity
- Maximum current and voltage that can be interrupted when an abnormal situation arises. Make sure beforehand that voltage and current at the time of abnormality occurring in the circuit are within the interrupting capacity.

Specifications given herein may be changed at any time without prior notice. Please confirm technical specifications before you order and/or use.

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