These fuse units are tested in accordance with the procedures described in IEEE Standard C37.41, and they are rated to comply with IEEE Standard Specifications for distribution cutouts and fuse links, C37.42. As required by these standards, the minimum melting current is not less than 200% of fuse-unit ampere rating, and the minimum melting curves are based on tests starting with the fuse unit at an ambient temperature of 25°C (77°F) and no initial load.

Fusible elements for fuse units rated 3DR amperes are nickel-chrome and under controlled tension; fusible elements for fuse units rated 6DR through 20DR amperes are silver and helically coiled. All are of solderless construction.

Curves are plotted to maximum test points. All variations are minus.

As with all high-voltage fuses, these fuse units are intended to accommodate overloads, not to interrupt them. Accordingly, they feature fusible elements designed with a minimum melting current of 200% of the fuse-unit ampere rating for fuse units rated 20 amperes or less. As a result, these fuse units have considerable peak-load capabilities; however, they should never be exposed to loading in excess of the peak-load capabilities listed in S&C Information Bulletin 242-190.

Because fuse units having nickel-chrome or silver element construction are not subject to damage by aging or transient overcurrents, it is unnecessary to replace unblown fuse units of either of those constructions in single-phase or three-phase installations when one or more fuse units has blown.

This narrow time band normally will provide the desired coordination. If the selected S&C "DR" Speed fuse unit does not meet the coordination requirements, check whether the same ampere rating in the S&C Standard Speed, S&C Slow Speed, S&C Very Slow Speed, or "K" Speed will satisfy.

Sometimes a selected ampere rating will fail to meet the coordination requirements in any available speed. In this case, the selection of another ampere rating for either the protecting or protected fuse usually will satisfy all requirements.

**FUSE UNITS AVAILABLE**

<table>
<thead>
<tr>
<th>Fuse Unit</th>
<th>kV Nom. Ratings</th>
<th>Ampere Ratings</th>
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<tr>
<td>SMU-20®</td>
<td>25 and 34.5</td>
<td>3DR through 20DR</td>
</tr>
</tbody>
</table>

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