BASIS—These fuse links are tested in accordance with the procedures described in the latest issue of IEEE Standard C37.41 to comply with the latest issue of IEEE Standard C37.42. As required by this standard, the minimum melting curves are based on tests starting with the fuse link at an ambient temperature of 25°C (77°F) and no initial load.

CONSTRUCTION—Fusible elements for fuse links rated 3KSR amperes are nickel-chrome; fusible elements for fuse links rated 5KSR through 15KSR amperes are nickel; fusible elements for fuse links rated 20KSR through 65KSR amperes are silver-copper eutectic; and fusible elements for fuse links rated 80KSR through 200KSR amperes are silver. All are of solderless construction to their terminals.

TOLERANCES—Curves are plotted to minimum test points. Maximum variations within the coordinating range (melting times less than 10 seconds) expressed in current values are plus 10% for fuse links rated 3KSR through 200KSR amperes.

APPLICATION—These fuse links should never be exposed to loading in excess of the peak-load capabilities listed in S&C Information Bulletin 352-190.

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

COORDINATION—Any preloading reduces melting time. The effect of preloading (as described in S&C Information Bulletin 352-295) must be determined for the fuse links represented by these curves and adjustments to these curves must be made:

- When close coordination is required
- When automatic circuit reclosers or three-shot cutouts are involved
- When, regardless of the preciseness of coordination, the fuse link is subjected to temporary overloads

If close coordination is to be achieved, overloading must be avoided because it causes a significant shift in time-current characteristics.

The exclusive use of S&C Positrol Fuse Links—because of their inherently narrower tolerance band—will expand the scope of coordination as follows:

- Coordination of adjacent ratings, giving twice as many sectionalizing points (This is true for the sequence operation of fuse links alone, or for the sequence operation of fuse links coordinated with automatic circuit reclosers.)
- Coordination of a larger number of fuse-link ratings with a given automatic circuit recloser between the fast and slow curves
- Coordination through a greater range, and to higher levels of fault current, with respect to automatic circuit reclosers
- Coordination to higher levels of fault current with respect to sequence operation of fuse links

The breadth of coordination described above can be obtained only by the use of S&C Positrol Fuse Links.

NOTE: A coordination scheme designed to take full advantage of the nondamageability and the superior coordination capabilities of S&C Positrol Fuse Links may not function satisfactorily if fuse links of a similar speed but of other makes are substituted. However, S&C "KSR" Speed Positrol Fuse Links can replace, on a one-for-one basis, Kearney Type "KS" fuse links in existing coordination schemes. Such replacements are not subject to nuisance fuse operations ("sneak-outs") due to damage from surge currents, load cycling, vibration, and aging.

Fuse Links Available

<table>
<thead>
<tr>
<th>Style</th>
<th>Ampere Ratings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Universal</td>
<td>3KSR through 200KSR</td>
</tr>
<tr>
<td>Extra Performance</td>
<td>3KSR through 200KSR</td>
</tr>
<tr>
<td></td>
<td>No longer available, listed for reference only.</td>
</tr>
</tbody>
</table>