Figure 1. Single-line representation of fuse links in series.

The selection tables presented in this information bulletin feature maximum fault-current values for series coordination of S&C Positrol Fuse Links. The maximum fault-current values listed in Tables 2 through 9 represent the intersection of the total clearing time-current characteristic curve (B-C) of the load-side fuse link with the minimum melting time-current characteristic curve (A-A), or adjusted minimum melting time-current characteristic curve (A-D), of the source-side fuse link, as illustrated in Figure 2. To locate the appropriate selection table, refer to Table 1.

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 the same speed but of other makes are substituted. Accordingly, the tables listed in this publication apply only to S&C Positrol Fuse Links.

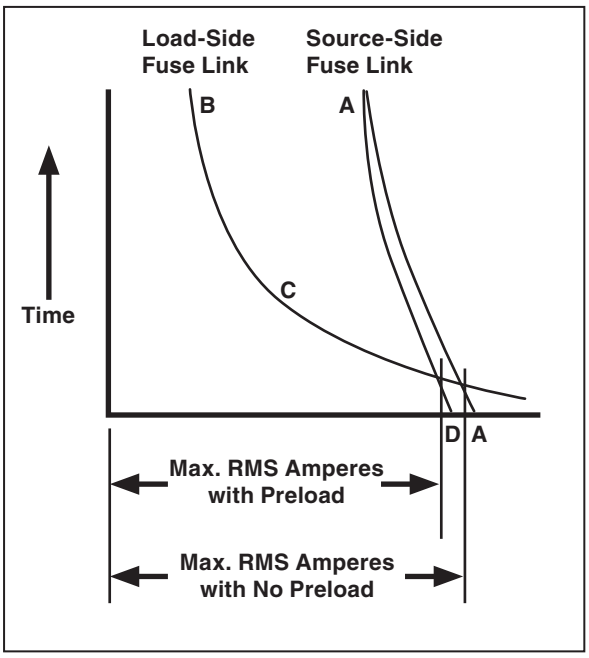

Figure 2. Time-current characteristic curves analysis for series coordination of fuse links.

Table 1. Index to Selection Tables

Load-Side Fuse Link		Source-Side Fuse Link			Table Number	Page Number
Speed	Total Clearing TCC No.	Speed	Minimum Melting TCC No.	Preload		
S&C Standard	123-6-2	S&C Standard	123-6	No	2	2
				Yes	3	3
S&C"K"	165-6-2	S&C"K"	165-6	No	4	4
				Yes	5	5
S&C"T"	170-6-2	S&C"T"	170-6	No	6	6
				Yes	7	7
S&C "OR"	166-6-2	S&C "QR"	166-6	No	8	8
				Yes	9	9

Table 2. S&C Standard Speed Fuse Links (TCC No. 123-6), Based on No Preloading of Source-Side Fuse Link

Load-Side Fuse Link Ampere Rating ↓	Maximum Fault Current in Amperes, RMS①																	
Source-Side Fuse Link Ampere Rating →	**5**	**7**	**10**	**15**	**20**	**25**	**30**	**40**	**50**	**65**	**80**	**100**	**101●**	**102●**	**103●**	**125**	**150**	**200**
1	145	260	420	670	850	1 000	1 200	1 650	2 100	2 550	3 150	4 200	5 700	9 800	16 000	4 700	6 100	7 700
2	120	245	415	660	850	1 000	1 200	1 650	2 100	2 550	3 150	4 200	5 700	9 800	16 000	4 700	6 100	7 700
3	80	215	395	650	840	990	1 200	1 650	2 100	2 550	3 150	4 200	5 700	9 800	16 000	4 700	6 100	7 700
5		120	350	620	810	970	1 200	1 650	2 050	2 550	3 150	4 200	5 700	9 800	16 000	4 700	6 100	7 700
7			270	580	790	950	1 200	1 600	2 050	2 500	3 150	4 200	5 700	9 800	16 000	4 700	6 100	7 700
10				440	690	880	1 100	1 600	2 000	2 500	3 100	4 150	5 700	9 800	16 000	4 700	6 100	7 700
15					410	670	970	1 500	1 900	2 400	3 050	4 100	5 600	9 800	16 000	4 650	6 100	7 700
20						370	780	1 350	1 850	2 350	3 000	4 100	5 600	9 800	16 000	4 600	6 000	7 700
25							450	1 200	1 750	2 300	2 950	4 000	5 600	9 800	16 000	4 550	6 000	7 700
30								940	1 550	2 150	2 850	3 950	5 500	9 700	16 000	4 500	5 900	7 600
40									980	1 750	2 550	3 750	5 300	9 600	15 500	4 300	5 800	7 500
50										1 050	2 100	3 500	5 200	9 500	15 500	4 150	5 600	7 400
65											1 500	3 100	4 900	9 300	15 500	3 750	5 400	7 200
80												2 350	4 400	9 100	15 000	3 150	5 000	6 900
100													3 100	8 600	15 000	1 000	3 850	6 100
101●														6 200	16 000			2 750
102●															9 500			
125														7 200	14 500			4 350
150															13 000			

① The maximum fault-current values are based on published time-current characteristic curves. See Table 3 on page 3 for maximum fault-current values based on the assumption the source-side fuse link is preloaded to its rating.

● S&C Coordinating Speed Fuse Links, TCC No. 172-6.

Table 3. S&C Standard Speed Fuse Links (TCC No 123-6), Based on Preloading of Source-Side Fuse Link

Load-Side Fuse Link Ampere Rating ↓	Maximum Fault Current in Amperes, RMS①																	
Source-Side Fuse Link Ampere Rating →	**5**	**7**	**10**	**15**	**20**	**25**	**30**	**40**	**50**	**65**	**80**	**100**	**101●**	**102●**	**103●**	**125**	**150**	**200**
1	120	220	370	590	750	890	1 100	1 500	1 850	2 250	2 800	3 700	5 200	8 900	15 000	4 300	5 500	7 100
2	95	205	360	580	750	890	1 100	1 500	1 850	2 250	2 800	3 700	5 200	8 900	15 000	4 300	5 500	7 100
3		175	335	570	740	880	1 100	1 500	1 850	2 250	2 800	3 700	5 200	8 900	15 000	4 300	5 500	7 100
5		60	280	530	700	850	1 050	1 450	1 800	2 250	2 800	3 700	5 200	8 900	15 000	4 300	5 500	7 100
7			170	490	680	830	1 050	1 450	1 800	2 250	2 750	3 700	5 200	8 900	15 000	4 300	5 500	7 100
10				330	560	740	970	1 400	1 750	2 200	2 750	3 700	5 200	8 900	15 000	4 250	5 500	7 100
15					120	480	780	1 250	1 650	2 100	2 700	3 650	5 100	8 900	15 000	4 250	5 500	7 100
20							520	1 100	1 600	2 050	2 600	3 600	5 100	8 900	15 000	4 200	5 500	7 000
25								920	1 450	1 950	2 550	3 500	5 100	8 900	15 000	4 150	5 400	7 000
30								560	1 200	1 750	2 450	3 450	5 000	8 800	15 000	4 050	5 400	7 000
40									285	1 300	2 100	3 200	4 800	8 800	14 500	3 850	5 200	6 800
50										290	1 550	2 850	4 650	8 600	14 500	3 650	5 100	6 700
65											365	2 400	4 300	8 500	14 500	3 250	4 800	6 500
80												1 350	3 750	8 200	14 000	2 550	4 350	6 200
100													2 300	7 600	14 000		3 100	5 200
101●															13 000			1 650
102●															6 200			
125															13 000			3 150
150															11 500			

● S&C Coordinating Speed Fuse Links, TCC No. 172-6.

① The maximum fault-current values are based on published total clearing time-current characteristic curves and on minimum melting time-current characteristic curves adjusted for preloading of the source-side fuse link to its ampere rating.

Table 4. S&C "K" Speed Fuse Links (TCC No. 165-6), Based on No Preloading of Source-Side Fuse Link

Load-Side Fuse Link Ampere Rating ↓	Maximum Fault Current in Amperes, RMS①																	
Source-Side Fuse Link Ampere Rating →	**6K**	**8K**	**10K**	**12K**	**15K**	**20K**	**25K**	**30K**	**40K**	**50K**	**65K**	**80K**	**100K**	**101●**	**102●**	**103●**	**140K**	**200K**
1■	150	240	335	450	600	790	1 000	1 250	1 650	2 100	2 600	3 400	4 250	5 700	9 800	16 000	6 100	9 500
2■	125	220	325	445	590	780	1 000	1 250	1 650	2 100	2 600	3 400	4 250	5 700	9 800	16 000	6 100	9 500
3■	80	195	300	425	580	770	1 000	1 250	1 650	2 100	2 600	3 400	4 250	5 700	9 800	16 000	6 100	9 500
5■		90	240	380	540	740	970	1 200	1 600	2 050	2 600	3 400	4 250	5 700	9 800	16 000	6 100	9 500
6K		90	240	380	540	740	970	1 200	1 600	2 050	2 550	3 350	4 250	5 700	9 800	16 000	6 100	9 500
8K			150	320	520	720	950	1 200	1 600	2 050	2 550	3 350	4 250	5 700	9 800	16 000	6 100	9 500
10K				185	440	680	920	1 200	1 600	2 050	2 550	3 350	4 250	5 700	9 800	16 000	6 100	9 500
12K					290	570	850	1 150	1 550	2 000	2 500	3 300	4 200	5 700	9 800	16 000	6 100	9 500
15K						380	720	1 050	1 500	1 950	2 500	3 300	4 200	5 700	9 800	16 000	6 100	9 500
20K							480	870	1 400	1 850	2 400	3 250	4 150	5 600	9 800	16 000	6 100	9 500
25K								530	1 150	1 700	2 300	3 200	4 050	5 600	9 700	16 000	6 000	9 400
30K									800	1 500	2 100	3 050	3 950	5 500	9 600	16 000	6 000	9 300
40K										980	1 750	2 850	3 850	5 400	9 500	16 000	5 900	9 200
50K											1 100	2 350	3 550	5 200	9 400	15 500	5 700	9 200
65K												1 800	3 100	4 900	9 300	15 500	5 500	9 000
80K													1 900	4 000	9 000	15 500	4 700	8 700
100K														3 100	8 600	15 000	3 900	8 300
101●															6 200	16 000		6 000
102●																9 500		1 500
140K																13 500		5 000

① The maximum fault-current values are based on published time-current characteristic curves. See Table 5 on page 5 for maximum fault-current values based on the assumption the source-side fuse link is preloaded to its rating.

● S&C Coordinating Speed Fuse Links, TCC No. 172-6.

■ S&C Standard Speed Positrol Fuse Links, TCC No. 123-6.

Preferred ampere ratings

Intermediate ampere ratings

Table 5. S&C "K" Speed Fuse Links (TCC No. 165-6), Based on Preloading of Source-Side Fuse Link

Load-Side Fuse Link Ampere Rating ↓	Maximum Fault Current in Amperes, RMS①																	
Source-Side Fuse Link Ampere Rating →	**6K**	**8K**	**10K**	**12K**	**15K**	**20K**	**25K**	**30K**	**40K**	**50K**	**65K**	**80K**	**100K**	**101●**	**102●**	**103●**	**140K**	**200K**
1■	125	200	290	395	530	690	890	1 100	1 450	1 850	2 300	3 000	3 750	5 200	8 900	15 000	5 600	8 700
2■	95	185	280	385	520	690	890	1 100	1 450	1 850	2 300	3 000	3 750	5 200	8 900	15 000	5 600	8 700
3■	45	155	250	365	500	680	870	1 100	1 450	1 850	2 300	3 000	3 750	5 200	8 900	15 000	5 600	8 700
5■			180	310	465	650	850	1 100	1 450	1 800	2 300	3 000	3 750	5 200	8 900	15 000	5 600	8 700
6K			180	310	465	650	850	1 100	1 450	1 800	2 300	3 000	3 750	5 200	8 900	15 000	5 600	8 700
8K				245	430	630	830	1 050	1 400	1 800	2 300	3 000	3 750	5 200	8 900	15 000	5 600	8 700
10K				50	330	570	790	1 050	1 400	1 800	2 250	3 000	3 750	5 200	8 900	15 000	5 600	8 700
12K					110	440	710	970	1 350	1 750	2 200	2 950	3 750	5 200	8 900	15 000	5 600	8 700
15K						135	560	860	1 300	1 700	2 150	2 900	3 700	5 200	8 900	15 000	5 600	8 700
20K							155	650	1 150	1 600	2 100	2 850	3 650	5 200	8 900	15 000	5 600	8 700
25K								145	890	1 400	1 950	2 750	3 550	5 100	8 900	15 000	5 500	8 700
30K									365	1 150	1 750	2 600	3 450	5 000	8 900	15 000	5 400	8 600
40K										420	1 300	2 350	3 300	4 850	8 700	14 500	5 300	8 500
50K											285	1 850	2 900	4 700	8 700	14 500	5 200	8 400
65K												1 100	2 400	4 350	8 500	14 500	4 850	8 200
80K													460	3 400	8 200	14 000	4 050	7 900
100K														2 400	7 600	14 000	3 100	7 400
101●																13 000		4 650
102●																6 200		
140K																12 000		3 250

① The maximum fault-current values are based on published total clearing time-current characteristic curves and on minimum melting time-current characteristic curves adjusted for preloading of the source-side fuse link to its ampere rating.

● S&C Coordinating Speed Fuse Links, TCC No. 172-6.

■ S&C Standard Speed Positrol Fuse Links, TCC No. 123-6.

Preferred ampere ratings

Intermediate ampere ratings

Table 6. S&C 'T' Speed Fuse Links (TCC No 170-6), Based on No Preloading of Source-Side Fuse Link

Load-Side Fuse Link Ampere Rating ↓	Maximum Fault Current in Amperes, RMS①																	
Source-Side Fuse Link Ampere Rating →	**6T**	**8T**	**10T**	**12T**	**15T**	**20T**	**25T**	**30T**	**40T**	**50T**	**65T**	**80T**	**100T**	**101●**	**102●**	**103●**	**140T**	**200T**
1■	280	405	580	760	1 000	1 300	1 700	2 200	2 800	3 500	4 400	5 500	7 100	5 700	9 800	16 000	9 800	16 000
2■	265	400	570	760	1 000	1 300	1 700	2 200	2 800	3 500	4 400	5 500	7 100	5 700	9 800	16 000	9 800	16 000
3■	255	390	560	750	1 000	1 300	1 700	2 200	2 800	3 500	4 400	5 500	7 100	5 700	9 800	16 000	9 800	16 000
5■	210	380	560	750	1 000	1 300	1 700	2 200	2 800	3 500	4 400	5 500	7 100	5 700	9 800	16 000	9 800	16 000
6T		235	490	690	950	1 250	1 650	2 150	2 750	3 500	4 400	5 500	7 100	5 700	9 800	16 000	9 800	16 000
8T			320	610	900	1 200	1 600	2 150	2 750	3 500	4 400	5 500	7 100	5 700	9 800	16 000	9 800	16 000
10T				410	760	1 150	1 550	2 100	2 750	3 500	4 400	5 500	7 100	5 700	9 800	16 000	9 800	16 000
12T					540	990	1 450	2 000	2 650	3 450	4 350	5 400	7 000	5 600	9 800	16 000	9 800	16 000
15T						630	1 250	1 850	2 550	3 300	4 300	5 400	7 000	5 500	9 700	16 000	9 800	16 000
20T							840	1 600	2 350	3 200	4 200	5 400	7 000	5 500	9 600	16 000	9 700	16 000
25T								1 100	2 100	3 000	4 000	5 200	6 800	5 300	9 500	16 000	9 600	16 000
30T									1 400	2 500	3 650	4 900	6 600	5 000	9 400	15 500	9 500	16 000
40T										1 550	3 100	4 500	6 400	4 600	9 200	15 500	9 300	16 000
50T											2 200	4 100	6 000	4 000	8 900	15 500	9 000	15 500
65T												2 700	5 200	2 650	8 200	15 000	8 400	15 000
80T													3 600		7 300	14 500	7 500	14 500
100T															5 400	14 000	5 800	14 500
101●															6 200	16 000	4 850	13 000
102●																9 500		6 100
140T																7 600		8 300

① The maximum fault-current values are based on published time-current characteristic curves. See Table 7 on page 7 for maximum fault-current values based on the assumption the source-side fuse link is preloaded to its rating.

● S&C Coordinating Speed Fuse Links, TCC No. 172-6.

■ S&C Standard Speed Positrol Fuse Links, TCC No. 123-6.

Preferred ampere ratings

Intermediate ampere ratings

Table 7. S&C 'T' Speed Fuse Links (TCC No 170-6), Based on Preloading of Source-Side Fuse Link

Load-Side Fuse Link Ampere Rating ↓	Maximum Fault Current in Amperes, RMS①																	
Source-Side Fuse Link Ampere Rating →	**6T**	**8T**	**10T**	**12T**	**15T**	**20T**	**25T**	**30T**	**40T**	**50T**	**65T**	**80T**	**100T**	**101●**	**102●**	**103●**	**140T**	**200T**
1■	250	365	530	700	930	1 200	1 550	2 000	2 550	3 250	4 050	5 100	6 500	5 200	8 900	15 000	8 900	15 000
2■	240	355	520	690	920	1 200	1 550	2 000	2 550	3 250	4 050	5 100	6 500	5 200	8 900	15 000	8 900	15 000
3■	225	350	520	690	910	1 200	1 550	2 000	2 550	3 250	4 050	5 100	6 500	5 200	8 900	15 000	8 900	15 000
5■	150	330	510	680	900	1 200	1 550	2 000	2 550	3 250	4 050	5 100	6 500	5 200	8 900	15 000	8 900	15 000
6T		145	410	620	860	1 150	1 500	1 950	2 500	3 200	4 000	5 100	6 500	5 100	8 900	14 500	8 900	14 500
8T			175	520	790	1 100	1 450	1 900	2 500	3 200	4 000	5 100	6 500	5 100	8 900	14 500	8 900	14 500
10T				210	640	1 000	1 400	1 900	2 500	3 200	4 000	5 100	6 500	5 100	8 900	14 500	8 900	14 500
12T					295	800	1 250	1 750	2 400	3 100	3 900	5 000	6 400	5 000	8 800	14 500	8 900	14 500
15T						315	1 000	1 600	2 250	2 950	3 800	4 900	6 300	5 000	8 800	14 500	8 800	14 500
20T							360	1 300	2 050	2 800	3 700	4 800	6 300	4 850	8 600	14 500	8 700	14 500
25T								570	1 700	2 600	3 600	4 700	6 100	4 700	8 500	14 500	8 600	14 500
30T									820	2 100	3 200	4 400	6 000	4 450	8 400	14 500	8 500	14 500
40T										640	2 500	4 000	5 600	3 950	8 200	14 000	8 300	14 500
50T												3 300	5 200	3 250	7 900	14 000	8 000	14 000
65T												1 400	4 200	1 550	7 100	13 500	7 300	14 000
80T													1 900		6 100	13 000	6 300	13 000
100T															3 250	12 500	3 800	13 000
101●																13 000	6 600	15 000
102●																6 200		10 000
140T																4 400		4 650

① The maximum fault-current values are based on published total clearing time-current characteristic curves and on minimum melting time-current characteristic curves adjusted for pre-loading of the source-side fuse link to its ampere rating.

● S&C Coordinating Speed Fuse Links, TCC No. 172-6.

■ S&C Standard Speed Positrol Fuse Links, TCC No. 123-6.

Preferred ampere rating

Intermediate ampere ratings

Table 8. S&C "QR"① Speed Fuse Links (TCC No. 166-6), Based on No Preloading of Source-Side Fuse Link

Load-Side Fuse Link Ampere Rating ↓	Maximum Fault Current in Amperes, RMS②																			
Source-Side Fuse Link Ampere Rating →	**3 QR**	**5 QR**	**7 QR**	**10 QR**	**15 QR**	**20 QR**	**25 QR**	**30 QR**	**40 QR**	**50 QR**	**60 QR**	**75 QR**	**100 QR**	**101●**	**102●**	**103●**	**125 QR**	**L50 QR**	**175 QR**	**200 QR**
1QR	65	80	145	300	400	590	740	910	1 150	1 450	1 800	2 600	3 300	5 700	9 900	16 000	4 500	5 700	7 000	8 200
2QR			120	290	390	590	740	910	1 150	1 450	1 800	2 600	3 300	5 700	9 900	16 000	4 500	5 700	7 000	8 200
3QR			80	260	370	580	730	910	1 150	1 450	1 800	2 600	3 300	5 700	9 900	16 000	4 500	5 700	7 000	8 200
5QR			50	240	355	560	720	890	1 150	1 450	1 800	2 600	3 300	5 700	9 900	16 000	4 500	5 700	7 000	8 200
7QR				195	325	545	690	880	1 100	1 450	1 800	2 600	3 300	5 700	9 900	16 000	4 500	5 700	7 000	8 200
10QR					180	480	650	850	1 100	1 400	1 800	2 600	3 300	5 700	9 900	16 000	4 500	5 700	7 000	8 200
15QR						370	580	800	1 100	1 400	1 800	2 550	3 250	5 700	9 900	16 000	4 500	5 700	7 000	8 200
20QR							290	620	970	1 300	1 700	2 500	3 200	5 700	9 900	16 000	4 400	5 700	7 000	8 200
25QR								390	800	1 200	1 650	2 450	3 200	5 700	9 900	16 000	4 400	5 700	7 000	8 200
30QR									540	1 000	1 500	2 350	3 150	5 700	9 900	16 000	4 400	5 600	7 000	8 200
40QR										640	1 300	2 250	3 100	5 600	9 800	16 000	4 400	5 600	7 000	8 200
50QR											900	2 000	2 900	5 500	9 800	16 000	4 200	5 400	6 800	8 000
65QR												1 600	2 650	5 400	9 700	16 000	4 100	5 300	6 700	8 000
80QR													1 700	4 900	9 600	16 000	3 600	4 900	6 300	7 600
100QR														4 350	9 400	16 000	2 800	4 300	6 000	7 400
101●															6 200	16 000				
102●																9 500				
125QR														2 550	6 400	15 000		2 600	4 900	6 500
150QR															7 400	14 500			3 300	5 300
175QR															5 600	14 000				2 800
200QR																13 000				

① S&C "QR" Speed Positrol Fuse Links are interchangeable mechanically, with respect to time-current characteristics, with Kearney Type "QA" fuse links.

② The maximum fault-current values are based on published time-current characteristic curves. See Table 9 on page 9 for maximum fault-current values based on the assumption the source-side fuse link is preloaded to its rating.

● S&C Coordinating Speed Fuse Links, TCC No. 172-6.

Table 9. S&C "QR"① Speed Fuse Links (TCC No. 166-6), Based on Preloading of Source-Side Fuse Link

Load-Side Fuse Link Ampere Rating ↓	Maximum Fault Current in Amperes, RMS②																			
Source-Side Fuse Link Ampere Rating →	**3 QR**	**5 QR**	**7 QR**	**10 QR**	**15 QR**	**20 QR**	**25 QR**	**30 QR**	**40 QR**	**50 QR**	**60 QR**	**75 QR**	**100 QR**	**101●**	**102●**	**103●**	**125 QR**	**L50 QR**	**175 QR**	**200 QR**
1QR	50	50	120	240	325	485	610	750	950	1 200	1 500	2 100	2 800	5 200	9 000	15 000	3 850	4 800	5 900	6 900
2QR			90	220	315	480	600	750	950	1 200	1 500	2 100	2 800	5 200	9 000	15 000	3 850	4 800	5 900	6 900
3QR				195	285	465	590	740	940	1 200	1 500	2 100	2 800	5 200	9 000	15 000	3 850	4 800	5 900	6 900
5QR				170	265	450	580	730	930	1 150	1 500	2 100	2 800	5 200	9 000	15 000	3 850	4 800	5 900	6 900
7QR				95	225	425	560	710	910	1 150	1 450	2 100	2 800	5 200	9 000	15 000	3 850	4 800	5 900	6 900
10QR						330	490	660	880	1 100	1 400	2 050	2 750	5 200	9 000	15 000	3 800	4 800	5 900	6 900
15QR						130	390	580	820	1 100	1 400	2 050	2 750	5 200	9 000	15 000	3 800	4 800	5 900	6 900
20QR								300	660	980	1 300	2 000	2 700	5 200	9 000	15 000	3 800	4 800	5 900	6 900
25QR									450	820	1 200	1 900	2 650	5 200	9 000	15 000	3 700	4 800	5 900	6 900
30QR										560	1 050	1 800	2 600	5 100	8 900	15 000	3 850	4 700	5 800	6 900
40QR											700	1 700	2 500	5 000	8 900	15 000	3 800	4 650	5 800	6 900
50QR												1 400	2 300	4 900	8 800	15 000	3 500	4 550	5 700	6 700
65QR												700	2 000	4 800	8 800	15 000	3 300	4 400	5 600	6 700
80QR													520	4 350	8 500	14 500	2 800	3 900	5 200	6 300
100QR														3 650	6 300	14 000	1 100	3 200	4 800	6 000
101●																13 000				
102●																6 200				
125QR														1 450	7 300	14 000		3 200	4 900	
150QR															6 200	13 000			3 400	
175QR															4 000	12 000				
200QR																11 000				

① S&C "QR" Speed Positrol Fuse Links are interchangeable mechanically and, with respect to time-current characteristics, with Kearney Type "QA" fuse links.

② The maximum fault-current values are based on published total clearing time-current characteristic curves and on minimum melting time-current characteristic curves adjusted for preloading of the source-side fuse link to its ampere rating.

● S&C Coordinating Speed Fuse Links, TCC No. 172-6.