

S&C Fault Fiter®
Electronic Power Fuses
Indoor Distribution (4.16 kV through 25 kV)

Series Coordination of **Time-Delayed**
Compound-Curve-Type Fault Fitters with Load-Side
Oil-Immersible Partial-Range Current-Limiting Fuses



Important: S&C Fault Fiter Electronic Power Fuse Control Modules must be selected by qualified persons who are knowledgeable in the subjects of equipment protection and time-current coordination, and who understand the consequences of improperly coordinated overcurrent

protective devices. Failure to achieve complete coordination between Fault Fiter Electronic Power Fuses and source-side or load-side protective devices may result in improper operation of one or more Fault Fiter Fuses.

TABLE I—Series Coordination of Time-Delayed Compound-Curve-Type Fault Fitters (TCC No. 421-7) with Oil-Immersible Partial-Range Current-Limiting Fuses Rated 8.3 kV

Control Module Catalog Number	Maximum Load-Side Current-Limiting Fuse Ampere Rating for Complete Coordination			
	General Electric Sure Guard (Type 9F59T)	Hi-Tech Trans-Guard (Type OS)	Kearney (Type A)	RTE (Type ELSP)
7010-C40S1T3D8	65C	65C	65	100
7010-C40S1T6D8	65C	65C	65	100
7010-C40S2T3D8	65C	65C	80	100
7010-C40S2T6D8	65C	65C	80	100
7010-C40S3T3D8	65C	80C	80	100
7010-C40S3T6D8	65C	80C	80	100
7010-C40S4T3D8	80C	80C	100	130†
7010-C40S4T6D8	80C	80C	100	130†
7010-C60S1T3D8	80C	80C	80	100
7010-C60S1T6D8	80C	80C	80	100
7010-C60S2T3D8	80C	80C	100	130†
7010-C60S2T6D8	80C	80C	100	130†
7010-C60S3T3D8	100C	100C	100	130†
7010-C60S3T6D8	100C	100C	100	130†
7010-C60S4T3D8	100C	125C	125†	160†
7010-C60S4T6D8	100C	125C	125†	160†
7010-C80S1T3D8	80C	100C	100	130†
7010-C80S1T6D8	80C	100C	100	130†
7010-C80S2T3D8	100C	125C	100	160†
7010-C80S2T6D8	100C	125C	100	160†
7010-C80S3T3D8	125C	150C	125†	160†
7010-C80S3T6D8	125C	150C	125†	200†
7010-C80S4T3D8	150C	150C	150†	160†
7010-C80S4T6D8	150C	150C	150†	200†
7010-C110S1T3D8	100C	125C	125†	160†
7010-C110S1T6D8	100C	125C	125†	200†
7010-C110S2T3D8	125C	150C	150†	160†
7010-C110S2T6D8	125C	150C	150†	200†
7010-C110S3T3D8	150C	150C	150†	160†
7010-C110S3T6D8	150C	150C	150†	200†
7010-C110S4T3D8	150C	150C	150†	160†
7010-C110S4T6D8	200C	150C	150†	200†

† Two fuses in parallel.

TABLE II—Series Coordination of Time-Delayed Compound-Curve-Type Fault Fitters (TCC No. 421-7)
with Oil-Immersible Partial-Range Current-Limiting Fuses Rated 15.5 kV

Control Module Catalog Number	Maximum Load-Side Current-Limiting Fuse Ampere Rating for Complete Coordination			
	General Electric Sure Guard (Type 9F59T)	Hi-Tech Trans-Guard (Type OS)	Kearney (Type A)	RTE (Type ELSP)
7010-C40S1T3D8	65C	65C	65	100
7010-C40S1T6D8	65C	65C	65	100
7010-C40S2T3D8	65C	65C	80	100
7010-C40S2T6D8	65C	65C	80	100
7010-C40S3T3D8	65C	80C	80	100
7010-C40S3T6D8	65C	80C	80	100
7010-C40S4T3D8	80C	80C	100	130†
7010-C40S4T6D8	80C	80C	100	130†
7010-C60S1T3D8	80C	80C	80	130†
7010-C60S1T6D8	80C	80C	80	130†
7010-C60S2T3D8	80C	80C	100	130†
7010-C60S2T6D8	80C	80C	100	130†
7010-C60S3T3D8	100C	100C	100	130†
7010-C60S3T6D8	100C	100C	100	130†
7010-C60S4T3D8	100C	125C	125†	160†
7010-C60S4T6D8	100C	125C	125†	160†
7010-C80S1T3D8	80C	100C	100	130†
7010-C80S1T6D8	80C	100C	100	130†
7010-C80S2T3D8	100C	125C	100	160†
7010-C80S2T6D8	100C	125C	100	160†
7010-C80S3T3D8	125C	150C	125†	160†
7010-C80S3T6D8	125C	150C	125†	160†
7010-C80S4T3D8	150C	150C	150†	160†
7010-C80S4T6D8	150C	165C	150†	160†
7010-C110S1T3D8	100C	125C	125†	160†
7010-C110S1T6D8	100C	125C	125†	160†
7010-C110S2T3D8	125C	150C	150†	160†
7010-C110S2T6D8	125C	150C	150†	200†
7010-C110S3T3D8	150C	150C	150†	160†
7010-C110S3T6D8	150C	165C	150†	200†
7010-C110S4T3D8	150C	150C	150†	160†
7010-C110S4T6D8	150C	150C	150†	200†

† Two fuses in parallel.

TABLE III—Series Coordination of Time-Delayed Compound-Curve-Type Fault Filters (TCC No. 421-7) with Oil-Immersible Partial-Range Current-Limiting Fuses Rated 23 kV^①

Control Module Catalog Number	Maximum Load-Side Current-Limiting Fuse Ampere Rating for Complete Coordination			
	General Electric Sure Guard (Type 9F59T)	Hi-Tech Trans-Guard (Type OS)	Kearney (Type A)	RTE (Type ELSP)
7010-C40S1T3D8	65C	65C	65	100†
7010-C40S1T6D8	65C	65C	65	100†
7010-C40S2T3D8	65C	65C	80	100†
7010-C40S2T6D8	65C	65C	80	100†
7010-C40S3T3D8	65C	65C	80	100†
7010-C40S3T6D8	65C	65C	80	100†
7010-C40S4T3D8	65C	65C	80	100†
7010-C40S4T6D8	65C	65C	80	100†
7010-C60S1T3D8	65C	65C	80	100†
7010-C60S1T6D8	65C	65C	80	100†
7010-C60S2T3D8	65C	65C	80	100†
7010-C60S2T6D8	65C	65C	80	100†
7010-C60S3T3D8	65C	100C	100	100†
7010-C60S3T6D8	65C	100C	100	100†
7010-C60S4T3D8	65C	100C	125†	100†
7010-C60S4T6D8	65C	100C	125†	100†
7010-C80S1T3D8	65C	100C	100	100†
7010-C80S1T6D8	65C	100C	100	100†
7010-C80S2T3D8	65C	100C	100	100†
7010-C80S2T6D8	65C	100C	100	100†
7010-C80S3T3D8	65C	100C	125†	100†
7010-C80S3T6D8	65C	125C	125†	100†
7010-C80S4T3D8	65C	100C	150†	100†
7010-C80S4T6D8	65C	125C	150†	100†
7010-C110S1T3D8	65C	100C	125†	100†
7010-C110S1T6D8	65C	125C	125†	100†
7010-C110S2T3D8	65C	100C	125†	100†
7010-C110S2T6D8	65C	125C	125†	100†
7010-C110S3T3D8	65C	100C	150†	100†
7010-C110S3T6D8	65C	150C	150†	100†
7010-C110S4T3D8	65C	100C	150†	100†
7010-C110S4T6D8	65C	150C	150†	100†

① Kearney Type A current-limiting fuses are rated 21 kV.

† Two fuses in parallel.

