



The selection tables presented in this information bulletin feature minimum pickup currents and time-dial settings for source-side solid-state overcurrent relays selected to provide complete coordination with load-side inverse-curve-type Fault Fiter Electronic Power Fuses. These curves also can be found in Coordinaide™—The S&C Protection & Coordination Assistant.

The minimum pickup currents and time-dial settings listed in the tables are based on coordinating-time intervals (CTIs), reflecting a relay tolerance of 0.15 seconds for uncalibrated relays and 0.05 seconds for relays calibrated at the operating current.

To check for coordination with Fault Fiter fuses, these CTI values were subtracted from relay operating curves, and the resultant curves were compared to Fault Fiter fuse total clearing curves. See Figure 1.

### ⚠️ WARNING

Fault Fiter Electronic Power Fuse control modules must be selected by qualified persons knowledgeable in equipment protection and time-current characteristic (TCC) curve coordination. These individuals must also 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, property damage, or personal injury.**

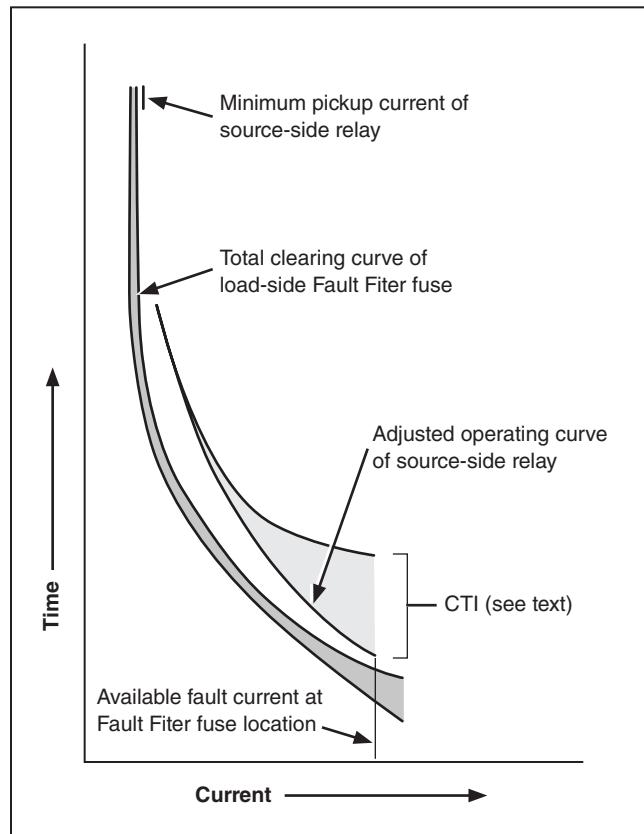


Figure 1. TCC curve showing coordination of source-side solid-state overcurrent relay with load-side inverse-curve type Fault Fiter power fuse.



Supersedes Data Bulletin 440-171 dated 2-24-03

August 5, 2024

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Information Bulletin 440-171

## Fault Fiter® Electronic Power Fuses

**Table 1. Series Coordination of Inverse-Curve Type Fault Fiter Fuses (TCC No. 410-7) With General Electric Type SFC Solid-State Overcurrent Relays**

Control Module Catalog Number	Minimum Pickup Current, Amperes, RMS	Relay Settings																								
		Minimum Time-Dial Setting①																								
Relay Characteristic and Type		Inverse (SFC 151)						Very Inverse (SFC 153)						Extremely Inverse (SFC 177)												
Coordinating-Time Interval (CTI), Seconds		0.15			0.05			0.15			0.05			0.15			0.05									
Available Fault Current, kA, RMS Symmetrical		10	20	30	40	10	20	30	40	10	20	30	40	10	20	30	40	10	20	30	40					
814040	480	2	2	2	2	1	1	1	1	3	3	3	3	2	2	2	2	-	-	-	6	6	6	6		
814050	600	2	2	2	2	2	2	1	1	3	3	3	3	2	2	2	2	-	-	-	7	6	6	6		
814060	720	2	2	2	2	2	2	1	1	3	3	3	3	2	2	2	2	10	-	-	-	7	6	6	6	
814070	840	2	2	2	2	2	2	2	1	1	3	3	3	3	2	2	2	2	9	-	-	-	6	7	6	6
814080	960	2	2	2	2	2	2	2	2	3	3	3	3	2	2	2	2	9	-	-	-	6	7	7	6	
814100	1200	2	2	2	2	2	2	2	2	3	3	3	3	2	2	2	2	8	-	-	-	6	7	7	6	
814125	1500	2	2	2	2	2	2	2	2	3	3	3	3	2	2	2	2	6	10	-	-	5	7	7	7	
814150	1800	2	2	2	2	2	2	2	2	3	3	3	3	2	2	2	2	5	10	-	-	4	7	7	7	

① The time-dial setting shown is the lowest setting with which a Fault Fiter fuse will coordinate based on use of the coordinating-time intervals listed in the table.

**Table 2. Series Coordination of Inverse-Curve Type Fault Fiter Fuses (TCC No. 410-7) With Westinghouse Type SCO Solid-State Overcurrent Relays**

Control Module Catalog Number	Minimum Pickup Current, Amperes, RMS	Relay Settings																						
		Minimum Time-Dial Setting①																						
Relay Characteristic and Type		Inverse (SCO-8)						Very Inverse (SCO-9)						Extremely Inverse (SCO-11)										
Coordinating-Time Interval (CTI), Seconds		0.15			0.05			0.15			0.05			0.15			0.05							
Available Fault Current, kA, RMS Symmetrical		10	20	30	40	10	20	30	40	10	20	30	40	10	20	30	40	10	20	30	40			
814040	480	2	2	2	2	1	1	1	1	2	2	2	2	2	2	1	1	4	5	5	3	3	3	3
814050	600	2	2	2	2	1	1	1	1	2	2	2	2	2	2	2	1	4	5	5	3	3	3	3
814060	720	2	2	2	2	1	1	1	1	2	2	2	2	2	2	2	1	3	5	5	2	3	3	3
814070	840	2	2	2	2	1	1	1	1	2	2	2	2	2	2	2	2	3	5	5	2	3	3	3
814080	960	2	2	2	2	1	1	1	1	2	2	2	2	2	2	2	2	3	5	5	2	3	3	3
814100	1200	2	2	2	2	1	1	1	1	2	2	2	2	2	2	2	2	3	4	5	5	2	3	3
814125	1500	2	2	2	2	1	1	1	1	2	2	2	2	2	2	2	2	3	5	5	2	3	3	3
814150	1800	2	2	2	2	1	1	1	1	2	2	2	2	2	2	2	2	2	3	4	5	2	2	3

① The time-dial setting shown is the lowest setting with which a Fault Fiter fuse will coordinate based on use of the coordinating-time intervals listed in the table.

**Table 3. Series Coordination of Inverse-Curve Type Fault Filter Fuses (TCC No. 410-7) With Basler Electric Type BE1-51 Solid-State Overcurrent Relays**

Control Module Catalog Number	Minimum Pickup Current, Amperes, RMS	Relay Settings																								
		Minimum Time-Dial Setting①																								
Relay Characteristic and Type		Inverse (BE1-51-B5)								Very Inverse (BE1-51-B6)								Extremely Inverse (BE1-51-B7)								
Coordinating-Time Interval (CTI), Seconds		0.15				0.05				0.15				0.05				0.15				0.05				
Available Fault Current, kA, RMS Symmetrical		10	20	30	40	10	20	30	40	10	20	30	40	10	20	30	40	10	20	30	40	10	20	30	40	
814040	480	07	05	05	05	03	02	02	02	20	20	10	10	07	05	05	05	20	20	20	20	07	07	07	07	
814050	600	07	05	05	05	03	02	02	02	20	20	20	20	07	07	05	05	20	20	20	20	07	07	07	07	
814060	720	07	07	05	05	05	03	02	02	20	20	20	20	07	07	05	05	10	20	20	20	07	07	07	07	
814070	840	07	07	07	05	05	03	02	02	20	20	20	20	07	07	07	05	10	20	20	20	07	07	07	07	
814080	960	07	07	07	07	05	03	03	02	20	20	20	20	10	07	07	05	10	20	20	20	07	07	07	07	
814100	1200	07	07	07	07	05	05	03	03	20	20	20	20	10	10	07	07	10	20	20	20	05	07	07	07	
814125	1500	07	07	07	07	05	05	03	03	20	20	20	20	10	10	07	07	10	20	20	20	05	07	07	07	
814150	1800	07	07	07	07	05	05	05	03	10	20	20	20	07	10	10	07	05	10	20	20	05	07	07	07	

① The time-dial setting shown is the lowest setting with which a Fault Filter fuse will coordinate based on use of the coordinating-time intervals listed in the table.

**Table 4. Series Coordination of Inverse-Curve Type Fault Filter Fuses (TCC No. 410-7) With Brown Boveri Corporation Type ITE Solid-State Overcurrent Relays**

Control Module Catalog Number	Minimum Pickup Current, Amperes, RMS	Minimum Time-Dial Setting①																								
		Inverse (ITE 51 I)																								
Relay Characteristic and Type		Inverse (ITE 51 I)								Very Inverse (ITE 51 Y)								Extremely Inverse (ITE 51 E)								
Coordinating-Time Interval (CTI), Seconds		0.15				0.05				0.15				0.05				0.15				0.05				
Available Fault Current, kA, RMS Symmetrical		10	20	30	40	10	20	30	40	10	20	30	40	10	20	30	40	10	20	30	40	10	20	30	40	
814040	480	2	2	2	2	2	2	2	2	3	4	4	4	2	2	2	2	8	10	10	10	5	5	5	5	
814050	600	2	2	2	2	2	2	2	2	3	4	4	4	2	3	3	3	8	10	10	10	5	5	5	5	
814060	720	2	2	2	2	2	2	2	2	3	4	4	4	2	2	3	3	8	10	10	10	5	5	5	5	
814070	840	2	2	2	2	2	2	2	2	3	3	4	4	2	2	2	3	3	6	8	10	10	5	5	5	5
814080	960	2	2	2	2	2	2	2	2	3	3	4	4	2	2	2	3	3	6	8	10	10	5	6	6	5
814100	1200	2	2	2	2	2	2	2	2	3	3	4	4	2	2	2	2	5	8	10	10	4	6	6	5	
814125	1500	2	2	2	2	2	2	2	2	3	3	3	3	2	2	2	2	4	8	10	10	3	5	6	6	
814150	1800	2	2	2	2	2	2	2	2	3	3	3	3	2	2	2	2	4	8	8	10	3	5	6	6	

① The time-dial setting shown is the lowest setting with which a Fault Filter fuse will coordinate based on use of the coordinating-time intervals listed in the table.

## Fault Fiter® Electronic Power Fuses

**Table 5. Series Coordination of Inverse-Curve Type Fault Fiter Fuses (TCC No. 410-7) With ASEA Type RXIDF 2H Solid-State Overcurrent Relays**

Control Module Catalog Number	Minimum Pickup Current, Amperes, RMS	Relay Settings																							
		Minimum Time-Dial Setting①																							
Relay Characteristic and Type		Inverse				Very Inverse				Extremely Inverse															
Coordinating-Time Interval (CTI), Seconds		0.15				0.05				0.15				0.05				0.15							
Available Fault Current, kA, RMS Symmetrical		10	20	30	40	10	20	30	40	10	20	30	40	10	20	30	40	10	20	30	40				
814040	480	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.6	1	1	0.4	0.4	0.6	0.6	—	—	—	1	—	—	—	
814050	600	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.6	0.8	1	0.2	0.4	0.6	0.6	1	—	—	0.8	—	—	—	
814060	720	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.6	0.8	0.8	0.2	0.4	0.4	0.6	0.8	—	—	—	0.6	—	—	—
814070	840	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.6	0.6	0.8	0.2	0.4	0.4	0.4	0.6	—	—	—	0.4	—	—	—
814080	960	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.6	0.6	0.2	0.4	0.4	0.4	0.6	—	—	—	0.4	1	—	—
814100	1200	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.6	0.6	0.2	0.4	0.4	0.4	0.4	1	—	—	0.4	0.8	—	—	
814125	1500	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.6	0.2	0.2	0.4	0.4	0.4	0.8	—	—	0.2	0.6	1	—	
814150	1800	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.2	0.2	0.4	0.4	0.2	0.6	1	—	0.2	0.4	0.8	—	

① The time-dial setting shown is the lowest setting with which a Fault Fiter fuse will coordinate based on use of the coordinating-time intervals listed in the table.