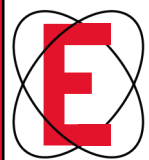
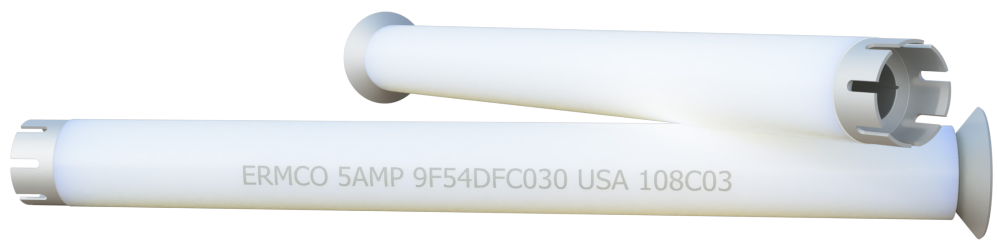


Bayonet Expulsion Fuse Link



ECI, ERMCO Components Inc.
1607 Industrial Road
Greeneville, TN 37745 Phone:
(423) 638-2302 Toll Free: (877)
267-1855 Fax (423) 636-6492



The ERMCO Bayonet Fuses are available in three types of fuse elements;

- Fault Sensing Fuse - (9F54MFC---)
- Dual Sensing Fuse - (9F54LFC---)
- Dual Element Fuse - (9F54DCF---)

To avoid closing on a fault an Isolation Link or a current limiting fuse must be used in series with the Bayonet Fuse. The current limiting fuse is required when the available fault current exceeds the interrupting rating of the Bayonet Fuse. See Page 2 for Isolation Links for each Fuse

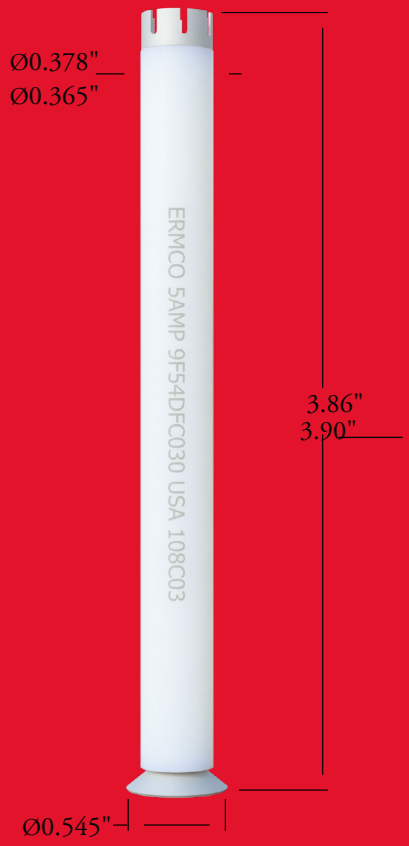
Catalog Number	Fuse Curve	Ampere Rating	Max Interrupting Ampere Asymmetrical			Min Melt TCC	Max Clear TCC
			8.3 kV	15.5 kV	23 kV		
Fault Sensing Fuse Links							
9F54MFC040	C04	6	3500	2500	1000	GES-8224	GES-8225
9F54MFC060	C06	10	3500	2500	1000	GES-8224	GES-8225
9F54MFC080	C08	15	3500	2500	1000	GES-8224	GES-8225
9F54MFC100	C10	25	3500	2500	1000	GES-8224	GES-8225
9F54MFC120	C12	40	3500	2500	1000	GES-8224	GES-8225
9F54MFC140	C14	65	3500	2500	1000	GES-8224	GES-8225
9F54MFC160	C16	100	3500	2500	1000	GES-8224	GES-8225
9F54MFC170	C17	140	3500	2500	1000	GES-8224	GES-8225
Dual Sensing Fuse Links							
9F54LFC030	C03	3	3500	2500	1000	GES-8226	GES-8227
9F54LFC050	C05	8	3500	2500	1000	GES-8226	GES-8227
9F54LFC080	C08	15	3500	2500	1000	GES-8226	GES-8227
9F54LFC100	C10	25	3500	2500	600	GES-8226	GES-8227
9F54LFC120	C12	50	3500	2500	600	GES-8226	GES-8227
Dual Element Fuse Links							
9F54DFC030	C03	5	3500	2500	1000	GES-8228	GES-8229
9F54DFC040	C04	6	3500	2500	1000	GES-8228	GES-8229
9F54DFC050	C05	8	3500	2500	1000	GES-8228	GES-8229
9F54DFC060	C06	12	3500	2500	1000	GES-8228	GES-8229
9F54DFC070	C07	15	3500	2500	1000	GES-8228	GES-8229
9F54DFC090	C09	25	3500	2500	N/A	GES-8228	GES-8229
9F54DFC110	C11	40	3500	2500	N/A	GES-8228	GES-8229
9F54DFC120	C12	50	3500	2500	N/A	GES-8228	GES-8229
9F54DFC140	C14	65	3500	2500	N/A	GES-8228	GES-8229

General Information

The **Fault Sensing fuse** is sensitive to current only and offers protection to the primary circuit from transformer faults.

The **Dual Sensing fuse** is sensitive to both current and oil temperature, thus providing both overload and primary circuit protection.

Dual Element fuse is sensitive to secondary faults, excessive load currents, transformer faults, and also transformer fluid temperature. They will limit long term heating caused by overloads.

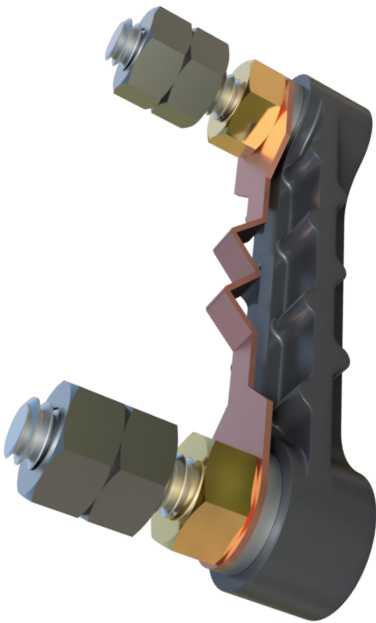


For more information contact
Componentssuport@ermco-eci.com
or call (423)638-2302

All transformers equipped with a BAYONET fuse should also be equipped with an isolation link, as a safety feature. The isolation link is connected in series with the fuse and its purpose is to minimize the possibility of an operator closing in on a fault that is beyond the rated interrupting capability of the fuse element. Proper coordination between the isolation link and the fuse element is required.



Bayonet Fuse Link and Isolation Link Coordination	
Fuse Link Catalog Number	Isolation Link Catalog Number
Fault Sensing Fuse Links	
9F54MFC040	7580ZB0299E
9F54MFC060	7580ZB0399E
9F54MFC080	7580ZB0399E
9F54MFC100	7580ZB0499E
9F54MFC120	7580ZB0499E
9F54MFC140	7580ZB0499E
9F54MFC160	7580ZB0599E
9F54MFC170	7580ZB0599E
Dual Sensing Fuse Links	
9F54LFC030	7580ZB0299E
9F54LFC050	7580ZB0399E
9F54LFC080	7580ZB0499E
9F54LFC100	7580ZB0599E
9F54LFC120	7580ZB0699E
Dual Element Fuse Links	
9F54DFC030	7580ZB0299E
9F54DFC040	7580ZB0299E
9F54DFC050	7580ZB0399E
9F54DFC060	7580ZB0399E
9F54DFC070	7580ZB0399E
9F54DFC090	7580ZB0499E
9F54DFC110	7580ZB0499E
9F54DFC120	7580ZB0499E
9F54DFC140	7580ZB0599E



- Notes:
- 1. ERMCO bayonet fuse link time-current curves are essentially identical to other manufactures
 - 2. Bayonet fuses have the advantage of being field replaceable
 - 3. ERCMO bayonet fuses are compatible in size and electrical characteristics to other Manufactures of Bayonet fuse links

Bayonet Fault Sensing Fuse - Single Phase Conventional Transformers

(Not for Self-Protected Transformers)

kVA	kV Phase to Ground										
	2.4	4.16	4.8	7.2	7.62	8.32	12.0	12.47	13.2	13.8	14.4
10	C06*	C04*	C04*	C04*	C04*	C04*	C04*	C04*	C04*	C04*	C04*
15	C08*	C06*	C06*	C04*	C04*	C04*	C04*	C04*	C04*	C04*	C04*
25	C10*	C08*	C06	C06*	C04*	C04*	C04*	C04*	C04*	C04*	C04*
37.5	C10	C08	C08	C06	C06	C06	C06*	C06*	C04*	C04*	C04*
50	C12	C10	C10*	C08*	C08*	C08*	C06*	C06*	C06*	C06*	C06*
75	C14*	C12*	C10	C10*	C08*	C08	C08*	C08*	C08*	C06	C06
100	C14	C12	C12	C10	C10	C10	C08	C08	C08	C08	C08*
167	C17*	C14*	C14*	C12	C12	C12	C10	C10	C10	C10	C10
250	---	C16	C16*	C14*	C14*	C14*	C12	C12	C12	C12*	C12*
333	---	C17*	C17*	C16*	C14	C14*	C14	C12	C12	C12	C12
500	---	---	---	C17*	C17*	C16	---	---	---	---	---

Notes:

1. Application based on fuse melting at 3 or 4 times transformer rated current in 5 minutes.
2. Application meets inrush requirements of 12 times transformer rated current for 0.1 second.
3. * Application provides more than 4 times transformer rated current for 5 minutes.
4. These charts apply to BAYONET current (fault) sensing links Ermco catalog number 9F54MFC---
5. Single Phase: Not to be used at voltages greater than 17,100 for delta configuration, or 14,400/24,900Y with neutral internally grounded.
6. Isolation link must be used with selected BAYONET fuse link.

Bayonet Fault Sensing Fuse - Three Phase Conventional Transformers

(Not for Self-Protected Transformers)

kVA	kV Phase to Phase										
	2.4	4.16	4.8	8.32	12.0	12.47	13.2	13.8/14.4	20.8**	22.0**	24.0**
45	C10*	C08*	C06	C06*	C04*	C04*	C04*	C04*	C04*	C04*	C04*
75	C12*	C10*	C08	C06	C06*	C06*	C06*	C06*	C04*	C04*	C04
112.5	C12	C10	C10	C08	C06	C06	C06	C06	C06*	C04*	C04
150	C14*	C12	C12*	C10*	C08*	C08*	C08*	C08*	C06*	C06*	C06
225	C16*	C14*	C12	C10	C10*	C10*	C10*	C08	C08*	C08*	C06
300	C17*	C14	C14*	C12	C10	C10	C10	C10	C08	C08	C08
500	---	C17*	C16	C14*	C12	C12	C12	C12	C10	C10	C10
750	---	---	C17	C16*	C14*	C14*	C14*	C14*	C12	C12	C10
1000	---	---	---	C17*	C16*	C16*	C14	C14	C14	C12	C12
1500	---	---	---	---	C17*	C17*	C17*	C16	C14	C14	C14
2000	---	---	---	---	---	---	C17	C17	C16	C16	C16
2500	---	---	---	---	---	---	---	---	C17	C17	C16

Notes:

1. Application based on fuse melting at 3 to 4 times transformer rated current in 5 minutes.
2. Application meets inrush requirements of 12 times transformer rated current for 0.1 second.
3. * Application provides more than 4 times transformer rated current for five minutes.
4. These charts apply to BAYONET current (fault) sensing links Ermco catalog number 9F54MFC---
5. SINGLE PHASE: Not to be used at voltages greater than 17,100 for delta configuration, or 14,400/24,900Y with neutral ground.
6. THREE PHASE: **Must be GNDY/GNDY system with less than 50% delta loading.
7. Isolation link fuse must be used with selected BAYONET fuse link.

Bayonet Dual Sensing Fuse - Single Phase Conventional Transformers (Not for Self-Protected Transformers)											
kVA	kV Phase to Ground										
	2.4	4.16	4.8	7.2	7.62	8.32	12.0	12.47	13.21	13.8	14.4
5	C03	C03	C03	C03	C03	C03	C03	C03	C03	C03	C03
10	C05	C05	C03	C03	C03	C03	C03	C03	C03	C03	C03
15	C08	C05	C05	C03	C03	C03	C03	C03	C03	C03	C03
25	C10	C08	C08	C05	C05	C05	C03	C03	C03	C03	C03
37.5	C12	C10	C08	C08	C08	C08	C05	C05	C05	C05	C05
50	C14	C10	C10	C08	C08	C08	C05	C05	C05	C05	C05
75	---	C12	C12	C10	C10	C10	C08	C08	C08	C08	C08
100	---	C12	C12	C10	C10	C10	C08	C08	C08	C08	C08
167	---	---	---	C12	C12	C12	C10	C10	C10	C10	C10
250	---	---	---	---	---	---	C12	C12	C12	C12	C12
333	---	---	---	---	---	---	C12	C12	C12	C12	C12

- Notes:
- 1. Application based on 200% of transformer loading for 2 hours and 160% loading for 7 hours.
 - 2. Application meets inrush requirements of 12 times transformer rated current for 0.1 second.
 - 3. These charts apply to BAYONET dual sensing links Ermco catalog number 9F54LFC---
 - 4. Not to be used at voltages greater than 17,100 for delta configuration, or 14,400/24,900Y with neutral internally grounded.
 - 5. Isolation link must be used with selected BAYONET fuse link.

Bayonet Dual Sensing Fuse - Three Phase Conventional Transformers (Not for Self-Protected Transformers)											
	kV Phase to Phase										
	2.4	4.16	4.8	8.32	12.0	12.47	13.2	13.8/14.4	20.8	22.9**	24.9**
45	C10	C08	C08	C05	C03	C03	C03	C03	C03	C03	C03
75	C12	C10	C10	C08	C05	C05	C05	C05	C03	C03	C03
112.5	---	C12	C10	C08	C08	C08	C08	C08	C05	C05	C05
150	---	C12	C12	C10	C08	C08	C08	C08	C05	C05	C05
225	---	---	---	C12	C10	C10	C10	C10	C08	C08	C08
300	---	---	---	C12	C10	C10	C10	C10	C08	C08	C08
500	---	---	---	---	C12	C12	C12	C12	C10	C10	C10
750	---	---	---	---	---	---	---	---	C12*	C12	C12
1000	---	---	---	---	---	---	---	---	C12*	C12	C12

- Notes:
- 1. Applications based on 200% of transformer loading for 2 hours and 160% loading for 7 hours.
 - 2. Application meets inrush requirements of 12 times transformer rated current for 0.1 second.
 - 3. These charts apply to BAYONET dual sensing links Ermco catalog number 9F54LFC---
 - 4. Not to be used at voltages greater than 17,100 for delta configuration, or 14,400/24,900Y with neutral internally grounded.
 - 5. * Use will result in some loss of overload capacity.
 - 6. Isolation link must be used with selected BAYONET fuse link.
- ** Must be GNDY/GNDY system with less than 50% delta loading

Bayonet Dual Element Fuse - Single Phase Conventional Transformers

(Not for Self-Protected Transformers)

kVA	kV Phase to Ground										
	2.4	4.16	4.8	7.2	7.62	8.32	12.0	12.47	13.2	13.8	14.4
5	C03	C03	C03	C03	C03	C03	C03	C03	C03	C03	C03
10	C05	C04	C04	C03	C03	C03	C03	C03	C03	C03	C03
15	C07	C05	C05	C03	C03	C03	C03	C03	C03	C03	C03
25	C09	C06	C06	C04	C04	C04	C03	C03	C03	C03	C03
37.5	C11	C09	C08	C06	C06	C06	C05	C05	C04	C04	C04
50	C12	C09	C09	C07	C07	C07	C06	C06	C05	C05	C05
75	C14	C12	C11	C09	C09	C09	C07	C06	C06	C06	C06
100	---	C12	C12	C09	C09	C09	C09	C09	C07	C07	C07
167	---	---	---	C12	C12	C12	C11	C11	C09	C09	C09
250	---	---	---	C14	C14	C14	C12	C12	C11	C11	C11
333	---	---	---	---	---	---	C12	C12	C12	C12	C12

Notes:

1. Application based on 200% of transformer loading for 2 hours and 160% loading for 7 hours.
2. Application meets inrush requirements of 12 times transformer rated current for 0.1 second.
3. These charts apply to BAYONET dual element links Ermco catalog number 9F54DFC---
4. Not to be used at voltages greater than 17,100 for delta configuration, or 14,400/24,900Y with neutral internally grounded.
5. Isolation link must be used with selected BAYONET fuse link.

Bayonet Dual Element Fuse - Three Phase Conventional Transformers

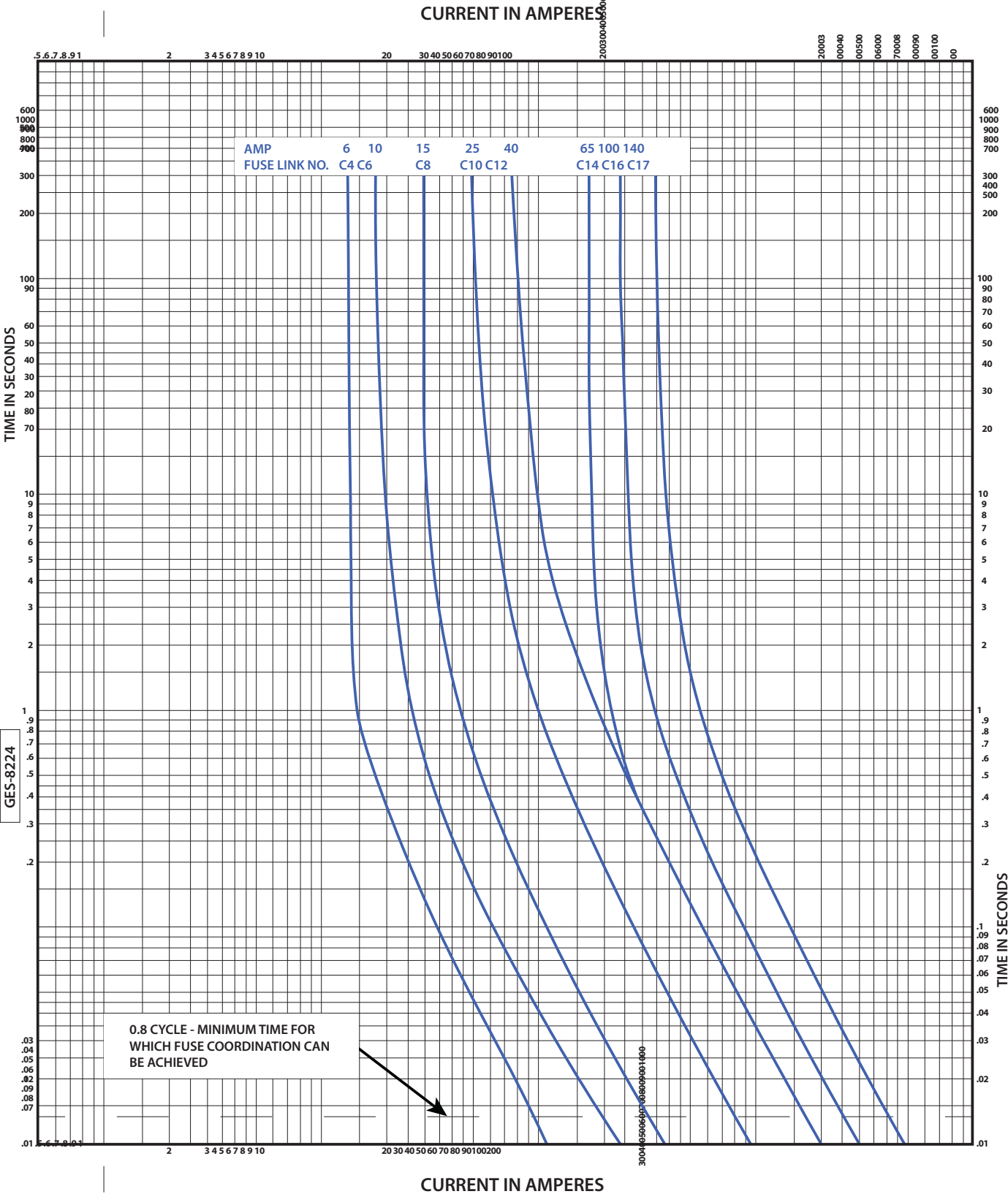
(Not for Self-Protected Transformers)

kVA	kV Phase to Phase									
	2.4	4.16	4.8	8.32	12.0 12.47	13.2	13.8/14.4	20.8*	22.9*	24.9*
45	C09	C07	C07	C04	C03	C03	C03	C03	C03	C03
75	C12	C09	C09	C06	C04	C04	C04	C03	C03	C03
112.5	C14	C11	C09	C07	C06	C06	C06	C05	C04	C04
150	---	C12	C12	C09	C07	C07	C07	C06	C05	C05
225	---	C14	C14	C11	C09	C09	C09	C07	C06	C06
300	---	---	---	C12	C09	C09	C09	C09	C07	C07
500	---	---	---	C14	C12	C12	C12	C11	C09	C09
750	---	---	---	---	C14	C14	C14	C12	C11	C11
1000	---	---	---	---	---	---	---	C14	C12	C12

Notes:

1. Applications based on 200% of transformer loading for 2 hours and 160% loading for 7 hours.
2. Application meets inrush requirements of 12 times transformer rated current for 0.1 second.
3. These charts apply to BAYONET dual element links Ermco catalog number 9F54DFC---
4. Not to be used at voltages greater than 17,100 for delta configuration, or 14,400/24,900Y with neutral internally grounded.
5. Isolation link must be used with selected BAYONET fuse link.

* Must be GNDY/GNDY system with less than 50% delta loading



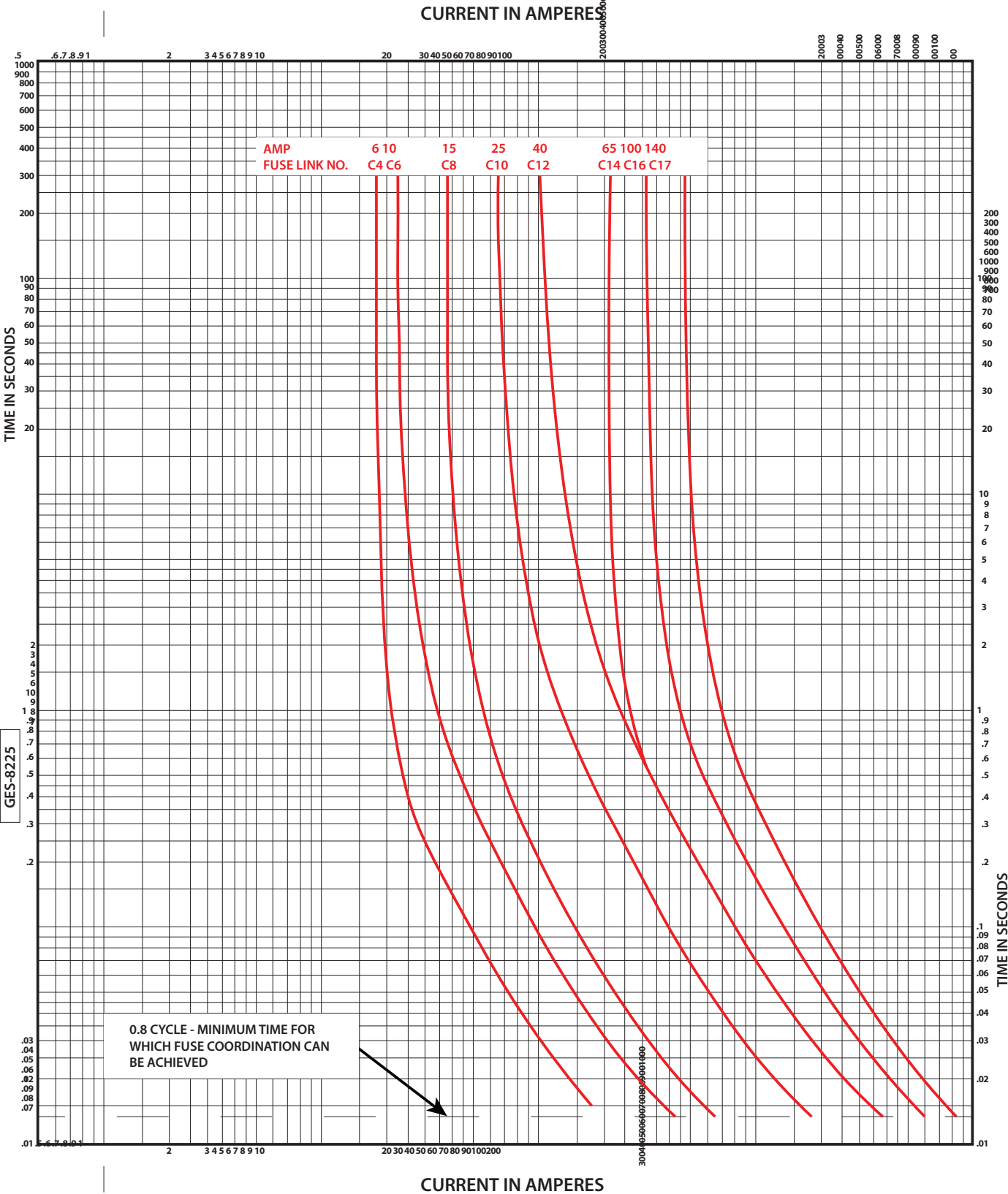
Current Ratings
10, 15, 25, 40, 65, 100, 140 amperes

FAULT-SENSING BAYONET FUSE
MODEL 9F54MFC SERIES
8.3, 15.5, 23.0 KV MAX.
Minimum-melting Time-current Curves

(AT 60 HZ AND 25 C AMBIENT IN TRANSFORMER OIL WITH NO INITIAL LOAD)

GES-8224

Bayonet Fault Sensing Fuse (Maximum Total Clearing Time Current Curves)



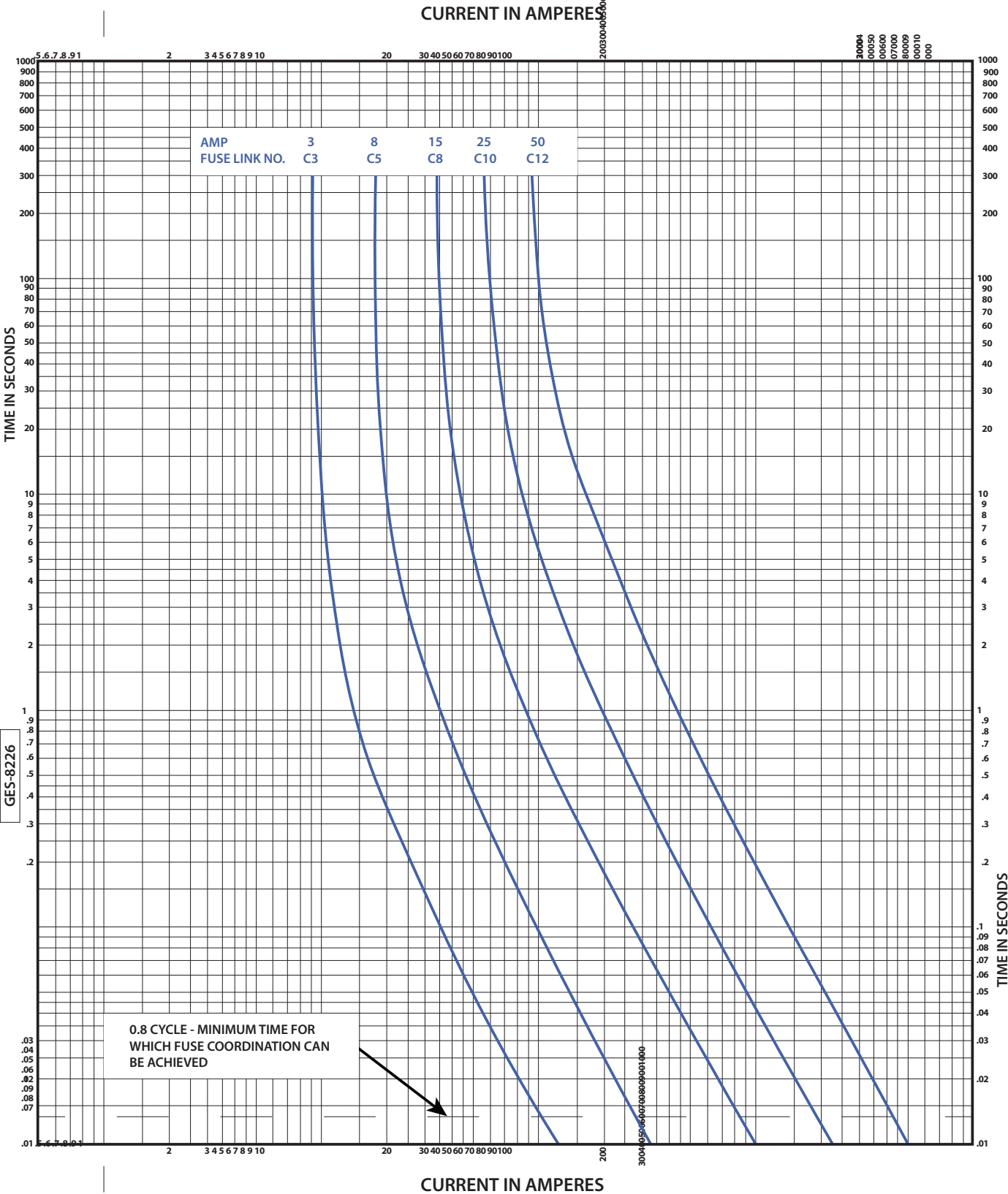
Current Ratings
10, 15, 25, 40, 65, 100, 140 amperes

FAULT-SENSING BAYONET FUSE
MODEL 9F54MFC SERIES
8.3, 15.5, 23.0 KV MAX.

GES-8225

Maximum Total-clearing Time-current Curves

(AT 60 HZ AND 25 C AMBIENT IN TRANSFORMER OIL WITH NO INITIAL LOAD)



DUAL SENSING BAYONET FUSES

MODEL 9F54LFC

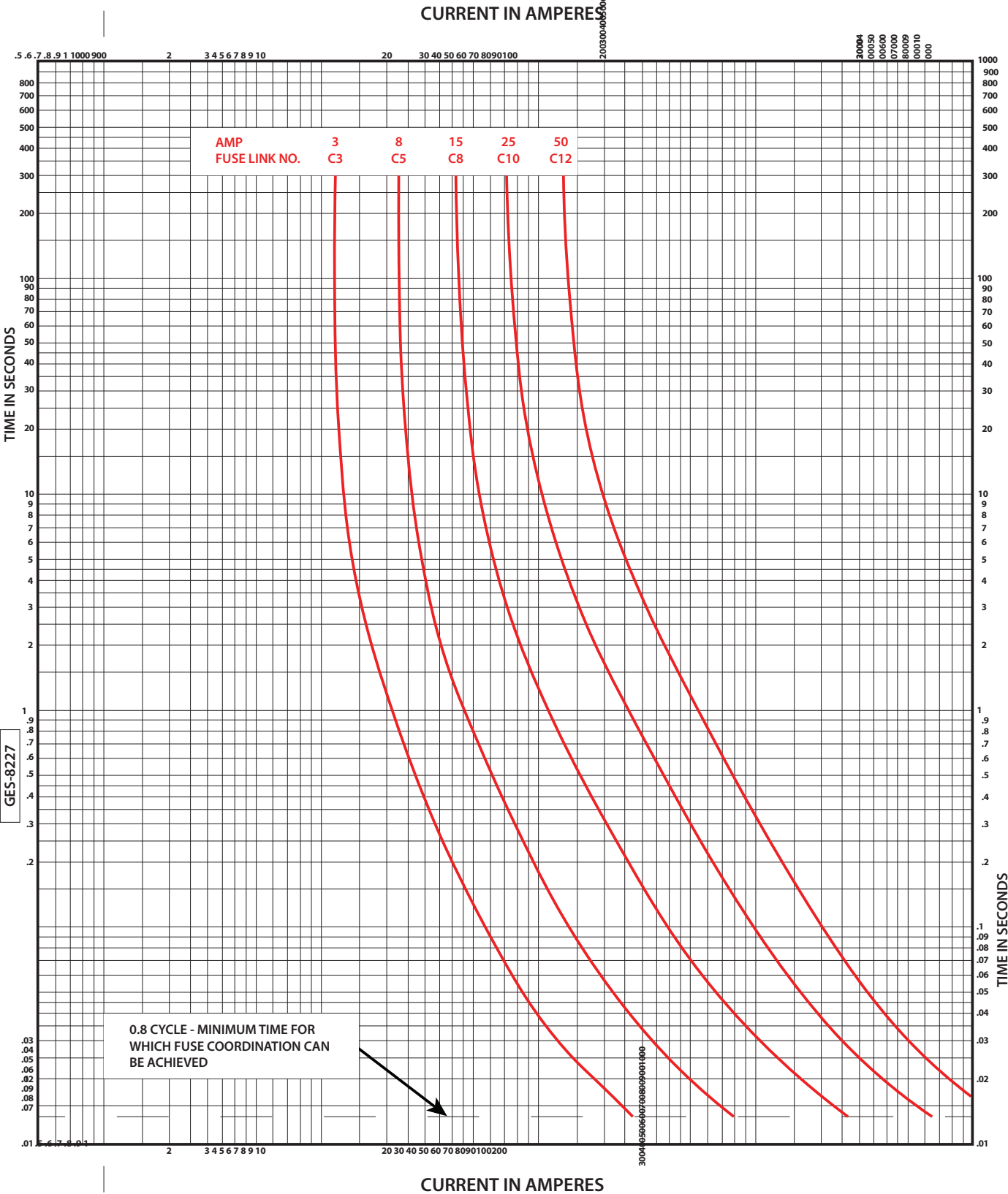
8.3, 15.5, & 23.0 KV MAX.

Minimum-melting Time-current Curves

(AT 60 HZ AND 25 C AMBIENT IN TRANSFORMER OIL WITH NO INITIAL LOAD)

GES-8226

Bayonet Dual Sensing Fuse (Maximum Total Clearing Time Current Curves)





ERMCO COMPONENTS, INC.

DUAL SENSING BAYONET FUSES

MODEL 9F54LFC

8.3, 15.5, & 23.0 KV MAX.

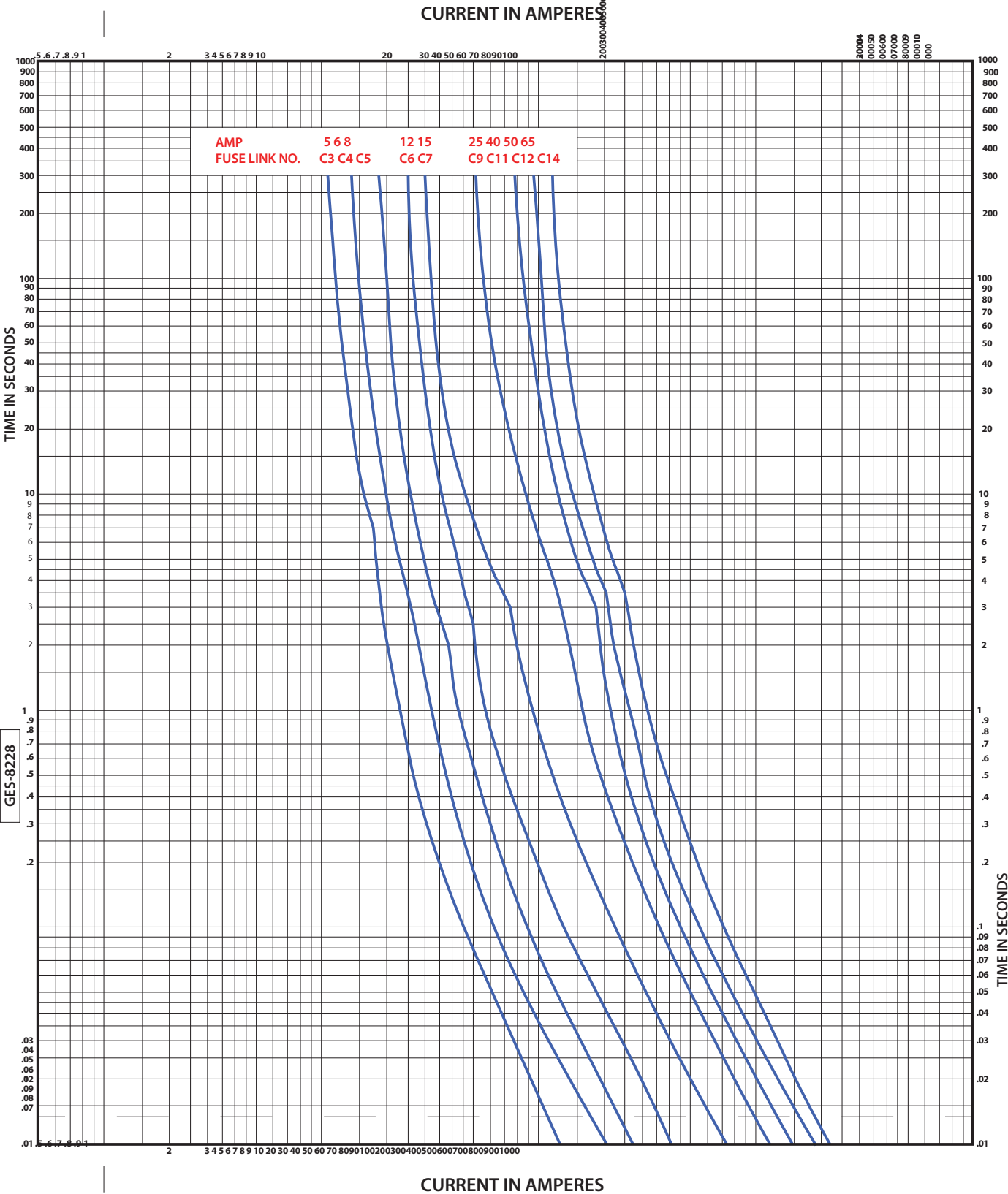
Maximum-Total clearing Time-current Curves

(AT 60 HZ AND 25 C AMBIENT IN TRANSFORMER OIL WITH NO INITIAL LOAD)

GES-8227

Current Ratings 3, 8,
15, 25, 50 amperes

Bayonet Dual Element Fuse (Minimum Melting Time Current Curve)



DUAL ELEMENT BAYONET FUSE
MODEL 9F54DFC SERIES

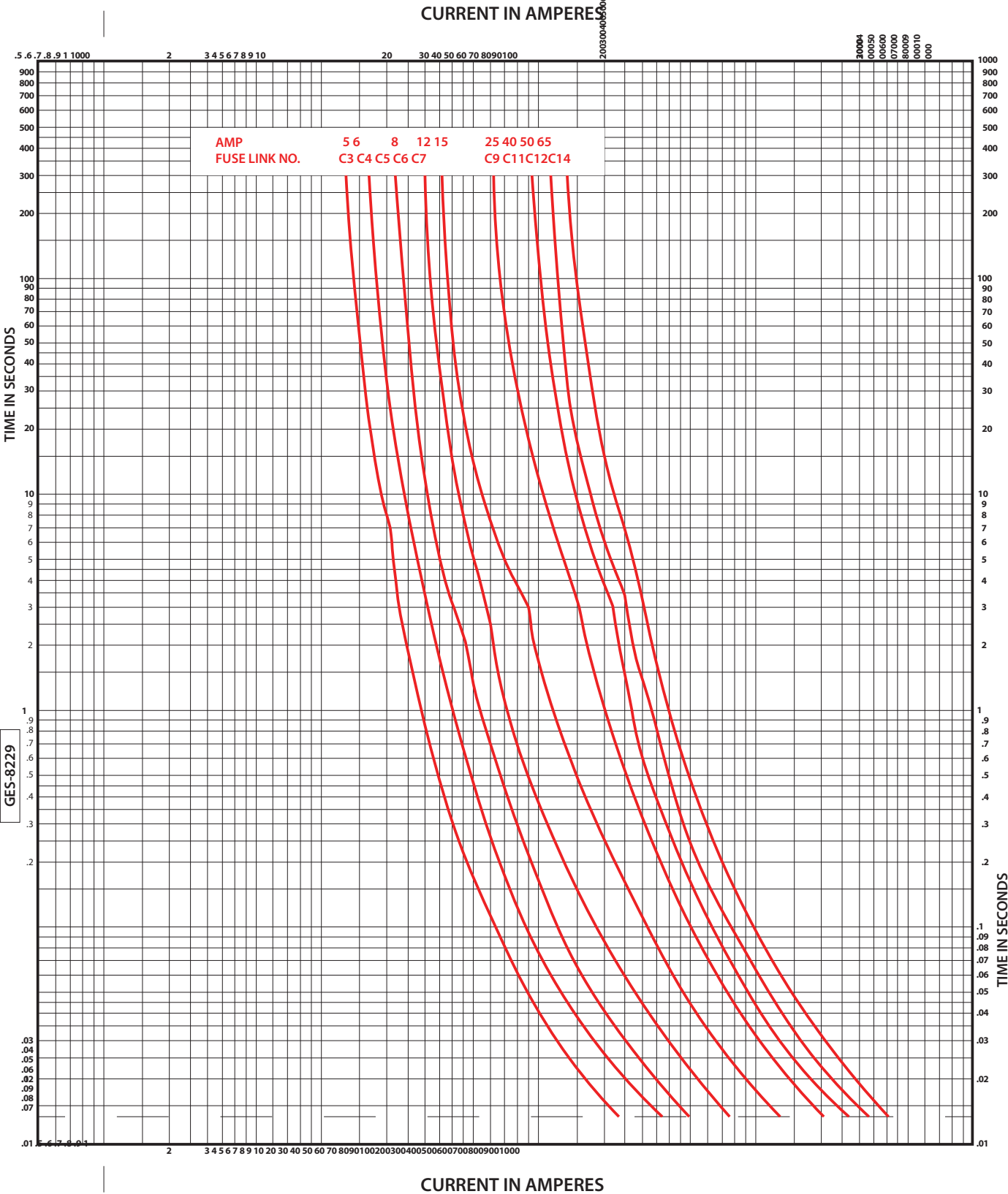
8.3, 15.5, 23.0 KV MAX.

Minimum-melting Time-current Curves

(AT 60 HZ AND 25 C AMBIENT WITH NO INITIAL LOAD)

GES-8228

Bayonet Dual Element Fuse (Maximum Total Clearing Time Current Curves)



DUAL ELEMENT BAYONET FUSE
MODEL 9F54DFC SERIES
8.3, 15.5, 23.0 KV MAX.
Maximum Total-clearing Time-current Curves
(AT 60 HZ AND 25 C AMBIENT WITH NO INITIAL LOAD)

GES-8229



Made in USA

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Componentssupport@ermco-eci.com
or call (423)638-2302
www.ermco-eci.com

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