

R-Rated Fuses

For Motor Circuit Protection

Medium Voltage

JCK, JCK-A, JCK-B, JCH, JCL, JCL-A, JCL-B, JCG, JCR, & JCR-B



- R-Rated medium voltage fuses are back-up current limiting fuses used in conjunction with medium voltage motors and motor controllers.
- The JCK-A, JCL-A, & JCR are supplied with Westinghouse Ampguard Hookeye.
- This single hookeye is on one end of the fuse and aids in the insertion and removal of the fuse.
- Current limiting fuses may be designated as R-Rated if they meet the following requirements:
 1. The fuse will safely interrupt all currents between its minimum and maximum interrupting ratings.
 2. The fuse will melt in a range of 15 to 35 seconds at a value of 100 times the "R" number (ANSI C37.46).
- Bussmann R-Rated current limiting fuses are designed for use with medium voltage starters to provide short-circuit protection for the motor and motor controller.
- These fuses offer a high level of fault current interruption in a self-contained, non-venting package which can be mounted indoors or in an enclosure.
- Open fuse indication on all fuses.

CATALOG SYMBOL: JCK, JCK-A, JCK-B, JCH, JCL, JCL-A,
JCL-B, JCG, JCR, & JCR-B

R-RATED

MEDIUM VOLTAGE

CURRENT LIMITING

2400V AC — JCK, JCK-A, JCK-B, JCH

4800V AC — JCL, JCL-A, JCL-B, JCG

7200V AC — JCR, JCR-B

MAX. DESIGN VOLTAGE 2540V AC — JCK, JCK-A,
JCK-B, JCH

5080V AC — JCL, JCL-A
JCL-B, JCG

8300V AC — JCR, JCR-B

U.L. RECOGNIZED: 2540V AC — JCK, JCK-A
5080V AC — JCL, JCL-A

U.L. RECOGNIZED (GUIDE #MSSS2, FILE # E96676)

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Specifications

Buss Catalog No.	Amperage	Maximum Design Voltage	Dimensions (Inches)			Construction	Max. Int. Cap.		Min. Int. Cap.
			A	B	C		Amps (Asym.)	Amps (Sym.)	Amps (Sym.)
2400V; R-Rated; Indoor/Enclosure (See Figure 1)									
JCK-2R	70 2R	2540V	11.24	3.0	3.0	Single	80,000	50,000	165
JCK-3R	100 3R	2540V	11.24	3.0	3.0	Single	80,000	50,000	220
JCK-4R	130 4R	2540V	11.24	3.0	3.0	Single	80,000	50,000	320
JCK-5R	150 5R	2540V	11.24	3.0	3.0	Single	80,000	50,000	410
JCK-6R	170 6R	2540V	11.24	3.0	3.0	Single	80,000	50,000	480
JCK-9R	200 9R	2540V	11.24	3.0	3.0	Single	80,000	50,000	720
JCK-12R	230 12R	2540V	11.24	3.0	3.0	Single	80,000	50,000	970
JCK-18R	390 18R	2540V	11.24	3.0	3.0	Double	80,000	50,000	1,430
JCK-24R	450 24R	2540V	11.24	3.0	3.0	Double	80,000	50,000	1,880
2400V; R-Rated; Indoor/Enclosure; With Westinghouse Ampguard Hookeye (See Figure 1)									
JCK-A-2R	70 2R	2540V	11.24	3.0	3.0	Single	80,000	50,000	165
JCK-A-3R	100 3R	2540V	11.24	3.0	3.0	Single	80,000	50,000	220
JCK-A-4R	130 4R	2540V	11.24	3.0	3.0	Single	80,000	50,000	320
JCK-A-5R	150 5R	27540V	11.24	3.0	3.0	Single	80,000	50,000	410
JCK-A-6R	170 6R	2540V	11.24	3.0	3.0	Single	80,000	50,000	480
JCK-A-9R	200 9R	2540V	11.24	3.0	3.0	Single	80,000	50,000	720
JCK-A-12R	230 12R	2540V	11.24	3.0	3.0	Single	80,000	50,000	970
JCK-A-18R	390 18R	2540V	11.24	3.0	3.0	Double	80,000	50,000	1,430
JCK-A-24R	450 24R	2540V	11.24	3.0	3.0	Double	80,000	50,000	1,880
2400V; R-Rated; Indoor/Enclosure; Bolt-On (See Figure 2)									
JCK-B-30	25	2540V	14.18	12.81	-	Single	80,000	50,000	90
JCK-B-2R	70 2R	2540V	14.18	12.81	-	Single	80,000	50,000	170
JCK-B-3R	100 3R	2540V	14.18	12.81	-	Single	80,000	50,000	245
JCK-B-4R	130 4R	2540V	14.18	12.81	-	Single	80,000	50,000	340
JCK-B-5R	150 5R	2540V	14.18	12.81	-	Single	80,000	50,000	430
JCK-B-6R	170 6R	2540V	14.18	12.81	-	Single	80,000	50,000	500
JCK-B-9R	200 9R	2540V	14.18	12.81	-	Single	80,000	50,000	1,000
JCK-B-12R	230 12R	2540V	14.18	12.81	-	Single	80,000	50,000	1,250
JCK-B-18R	390 18R	2540V	14.18	12.81	3.56	Double	80,000	50,000	1,700
JCK-B-24R	450 24R	2540V	14.18	12.81	3.56	Double	80,000	50,000	1,210
2400V; R-Rated; Indoor; Hermetically Sealed, Class 1, Group D, Div. 2, Hazardous Locations; For Use with Ampgard Motor Starters (See Figure 1)									
JCH-30	25	2540V	10.81	3.0	3.0	Single	80,000	50,000	90
JCH-2R	70 2R	2540V	10.81	3.0	3.0	Single	80,000	50,000	170
JCH-3R	100 3R	2540V	10.81	3.0	3.0	Single	80,000	50,000	245
JCH-4R	130 4R	2540V	10.81	3.0	3.0	Single	80,000	50,000	340
JCH-5R	150 5R	2540V	10.81	3.0	3.0	Single	80,000	50,000	430
JCH-6R	170 6R	2540V	10.81	3.0	3.0	Single	80,000	50,000	500
JCH-9R	200 9R	2540V	10.81	3.0	3.0	Single	80,000	50,000	1,000
JCH-12R	230 12R	2540V	10.81	3.0	3.0	Single	80,000	50,000	1,250
JCH-18R	390 18R	2540V	10.81	3.0	3.0	Double	80,000	50,000	1,700
JCH-24R	450 24R	2540V	10.81	3.0	3.0	Double	80,000	50,000	2,100
4800V; R-Rated; Indoor/Enclosure (See Figure 1)									
JCL-2R	70 2R	5080V	15.76	3.0	3.0	Single	80,000	50,000	165
JCL-3R	100 3R	5080V	15.76	3.0	3.0	Single	80,000	50,000	220
JCL-4R	130 4R	5080V	15.76	3.0	3.0	Single	80,000	50,000	320
JCL-5R	150 5R	5080V	15.76	3.0	3.0	Single	80,000	50,000	410
JCL-6R	170 6R	5080V	15.76	3.0	3.0	Single	80,000	50,000	480
JCL-9R	200 9R	5080V	15.76	3.0	3.0	Single	80,000	50,000	720
JCL-12R	230 12R	5080V	15.76	3.0	3.0	Single	80,000	50,000	970
JCL-18R	390 18R	5080V	15.76	3.0	3.0	Double	80,000	50,000	1,430
JCL-24R	450 24R	5080V	15.76	3.0	3.0	Double	80,000	50,000	1,880

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JCL, JCL-A, JCL-B,
JCG, JCR, & JCR-B

Specifications

Buss Catalog No.	Amperage	Maximum Design Voltage	Dimensions (Inches)			Construction	Max. Int. Cap.		Min. Int. Cap.
			A	B	C		Amps (Asym.)	Amps (Sym.)	Amps (Sym.)
4800V; R-Rated; Indoor/Enclosure; With Westinghouse Ampguard Hookeye (See Figure 1)									
JCL-A-2R	70 2R	5080V	15.76	3.0	3.0	Single	80,000	50,000	165
JCL-A-3R	100 3R	5080V	15.76	3.0	3.0	Single	80,000	50,000	220
JCL-A-4R	130 4R	5080V	15.76	3.0	3.0	Single	80,000	50,000	320
JCL-A-5R	150 5R	5080V	15.76	3.0	3.0	Single	80,000	50,000	410
JCL-A-6R	170 6R	5080V	15.76	3.0	3.0	Single	80,000	50,000	480
JCL-A-9R	200 9R	5080V	15.76	3.0	3.0	Single	80,000	50,000	720
JCL-A-12R	230 12R	5080V	15.76	3.0	3.0	Single	80,000	50,000	970
JCL-A-18R	390 18R	5080V	15.76	3.0	3.0	Double	80,000	50,000	1,430
JCL-A-24R	450 24R	5080V	15.76	3.0	3.0	Double	80,000	50,000	1,880
4800V; R-Rated; Indoor/Enclosure; Bolt-On (See Figure 2)									
JCL-B-30	30	5080V	19.25	17.88	-	Single	80,000	50,000	95
JCL-B-2R	70 2R	5080V	19.25	17.88	-	Single	80,000	50,000	180
JCL-B-3R	100 3R	5080V	19.25	17.88	-	Single	80,000	50,000	270
JCL-B-4R	130 4R	5080V	19.25	17.88	-	Single	80,000	50,000	350
JCL-B-5R	150 5R	5080V	19.25	17.88	-	Single	80,000	50,000	450
JCL-B-6R	170 6R	5080V	19.25	17.88	-	Single	80,000	50,000	540
JCL-B-9R	200 9R	5080V	19.25	17.88	-	Single	80,000	50,000	700
JCL-B-12R	230 12R	5080V	19.25	17.88	-	Single	80,000	50,000	1,000
JCL-B-18R	390 18R	5080V	19.25	17.88	3.31	Double	80,000	50,000	1,450
JCL-B-24R	450 24R	5080V	19.25	17.88	3.31	Double	80,000	50,000	2,000
4800V; R-Rated; Indoor; Hermetically Sealed, Class 1, Group D, Div. 2, Hazardous Locations; For Use with Ampgard Motor Starters (See Figure 1)									
JCG-30	30	5080V	15.91	3.0	3.0	Single	80,000	50,000	95
JCG-2R	70 2R	5080V	15.91	3.0	3.0	Single	80,000	50,000	180
JCG-3R	100 3R	5080V	15.91	3.0	3.0	Single	80,000	50,000	270
JCG-4R	130 4R	5080V	15.91	3.0	3.0	Single	80,000	50,000	350
JCG-5R	150 5R	5080V	15.91	3.0	3.0	Single	80,000	50,000	450
JCG-6R	170 6R	5080V	15.91	3.0	3.0	Single	80,000	50,000	540
JCG-9R	200 9R	5080V	15.91	3.0	3.0	Single	80,000	50,000	700
JCG-12R	230 12R	5080V	15.91	3.0	3.0	Single	80,000	50,000	1,000
JCG-A-18R	390 18R	5080V	15.91	3.0	3.0	Double	80,000	50,000	1,450
JCG-A-24R	450 24R	5080V	15.91	3.0	3.0	Double	80,000	50,000	2,000
7200V; R-Rated; Indoor/Enclosure; With Ampgard Hookeye (See Figure 1)									
JCR-2R	70 2R	8300V	15.85	3.0	3.0	Single	80,000	50,000	160
JCR-3R	100 3R	8300V	15.85	3.0	3.0	Single	80,000	50,000	250
JCR-4R	130 4R	8300V	15.85	3.0	3.0	Single	80,000	50,000	325
JCR-5R	150 5R	8300V	15.85	3.0	3.0	Single	80,000	50,000	390
JCR-6R	170 6R	8300V	15.85	3.0	3.0	Single	80,000	50,000	500
JCR-9R	200 9R	7200V	15.85	3.0	3.0	Single	80,000	50,000	750
JCR-12R	230 12R	7200V	15.85	3.0	3.0	Single	80,000	50,000	1,000
JCR-18R	390 18R	7200V	15.85	3.0	3.0	Double	80,000	50,000	1,450
JCR-24R	450 24R	7200V	15.85	3.0	3.0	Double	80,000	50,000	2,500
7200V; R-Rated; Indoor/Enclosure; Bolt-On (See Figure 2)									
JCR-B-2R	70 2R	8300V	19.25	17.88	-	Single	80,000	50,000	160
JCR-B-3R	100 3R	8300V	19.25	17.88	-	Single	80,000	50,000	250
JCR-B-4R	130 4R	8300V	19.25	17.88	-	Single	80,000	50,000	325
JCR-B-5R	150 5R	8300V	19.25	17.88	-	Single	80,000	50,000	390
JCR-B-6R	170 6R	8300V	19.25	17.88	-	Single	80,000	50,000	500
JCR-B-9R	200 9R	7200V	19.25	17.88	-	Single	80,000	50,000	750
JCR-B-12R	230 12R	7200V	19.25	17.88	-	Single	80,000	50,000	1,000
JCR-B-18R	390 18R	7200V	19.25	17.88	3.31	Double	80,000	50,000	1,450
JCR-B-24R	450 24R	7200V	19.25	17.88	3.31	Double	80,000	50,000	2,500

R-Rated Fuses

For Motor Circuit Protection

Medium Voltage

JCK, JCK-A, JCK-B, JCH,
JCL, JCL-A, JCL-B,
JCG, JCR, & JCR-B

Dimensional Data

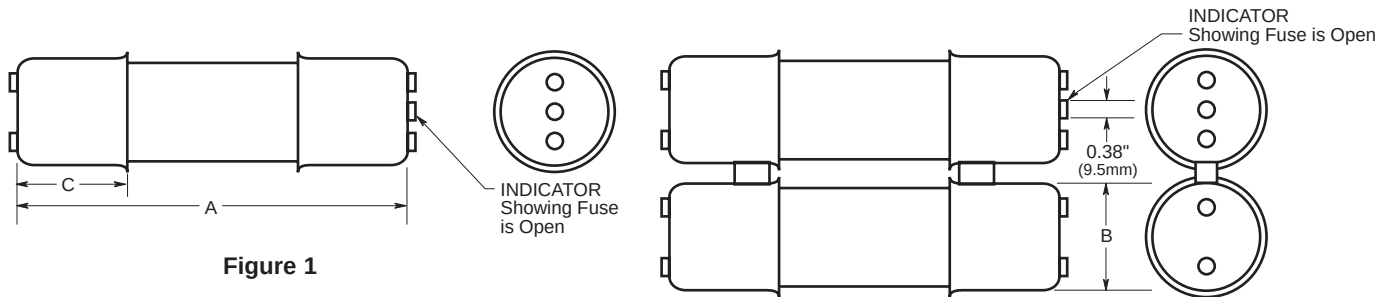
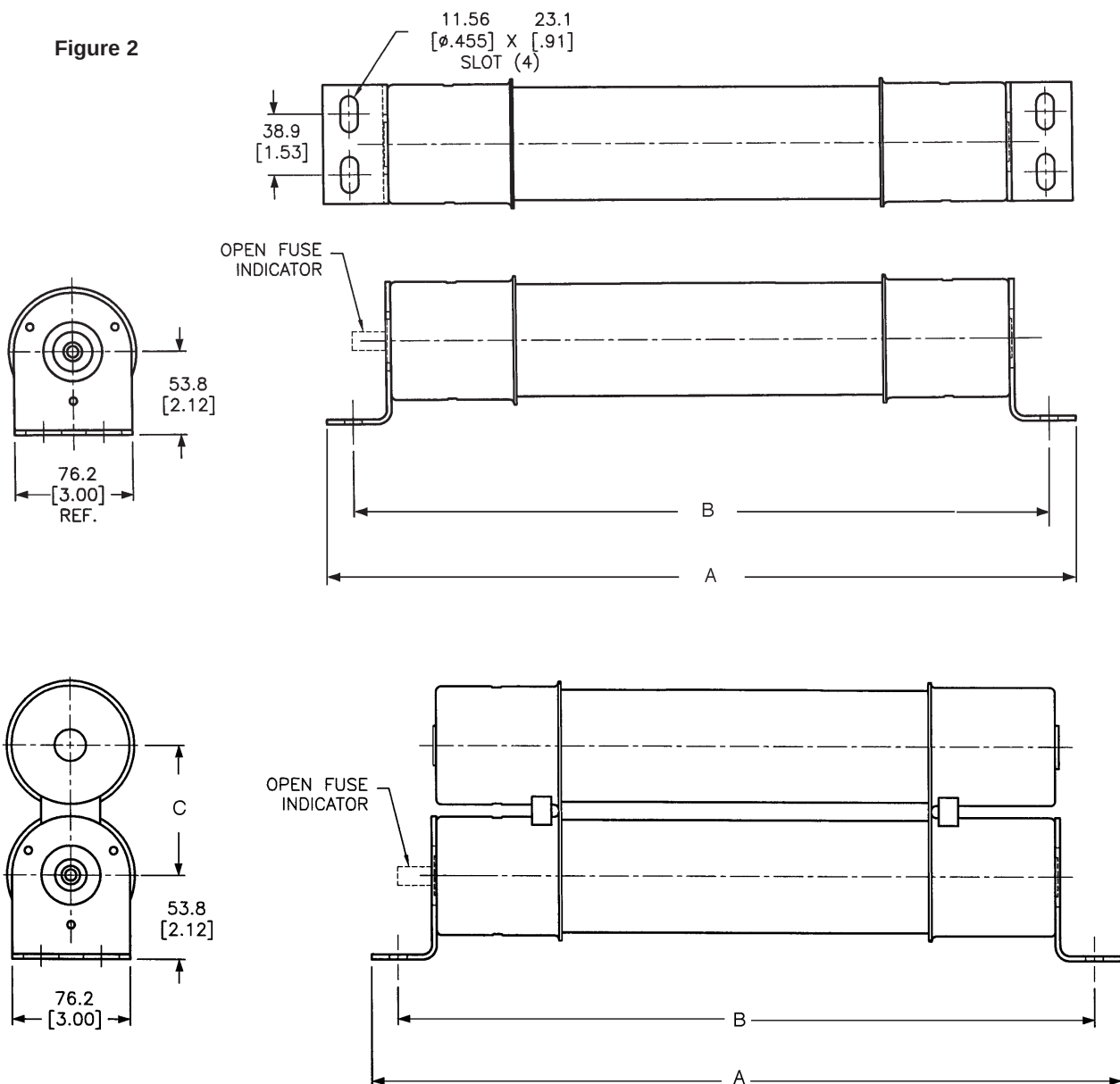


Figure 1

Figure 2



R-Rated Fuses

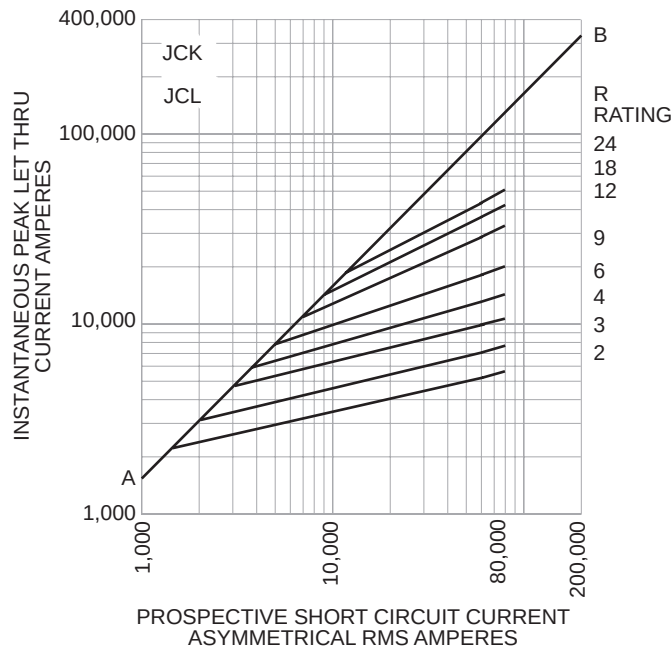
For Motor Circuit Protection

Medium Voltage

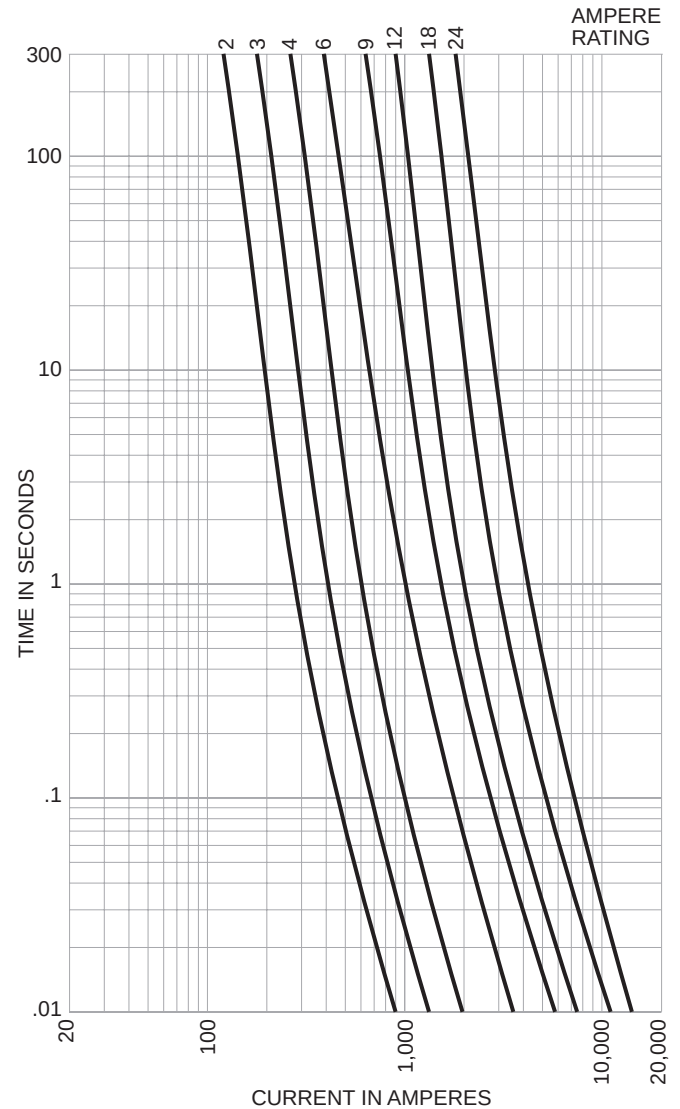
JCK, JCK-A, JCK-B, JCH,
JCL, JCL-A, JCL-B,
JCG, JCR, & JCR-B

JCK, JCK-A, JCL, JCL-A

Current Limitation Curves



Time-Current Characteristic Curves—Average Melt



R-Rated Fuses

For Motor Circuit Protection

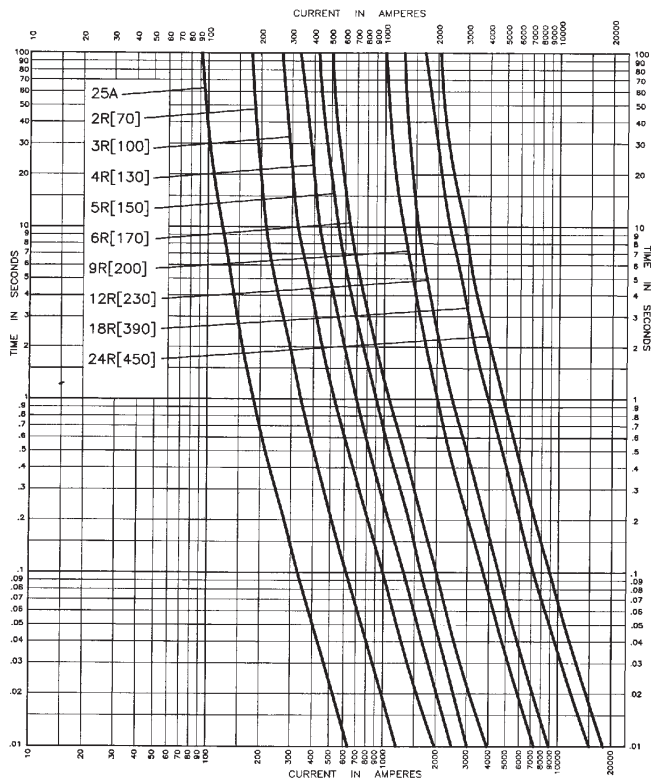
Medium Voltage

JCK, JCK-A, JCK-B, JCH,
JCL, JCL-A, JCL-B,
JCG, JCR, & JCR-B

JCK-B, JCH

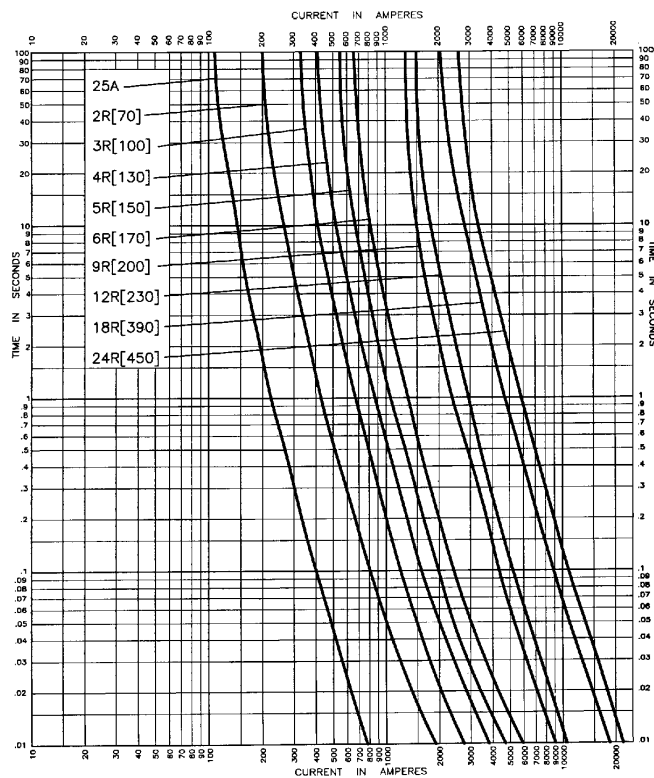
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50999-1



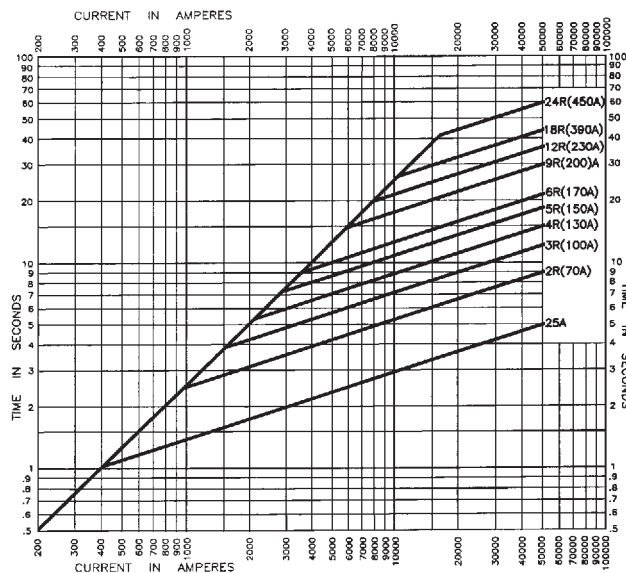
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50999-2



Peak Let-Through Curves

50999-3



R-Rated Fuses

For Motor Circuit Protection

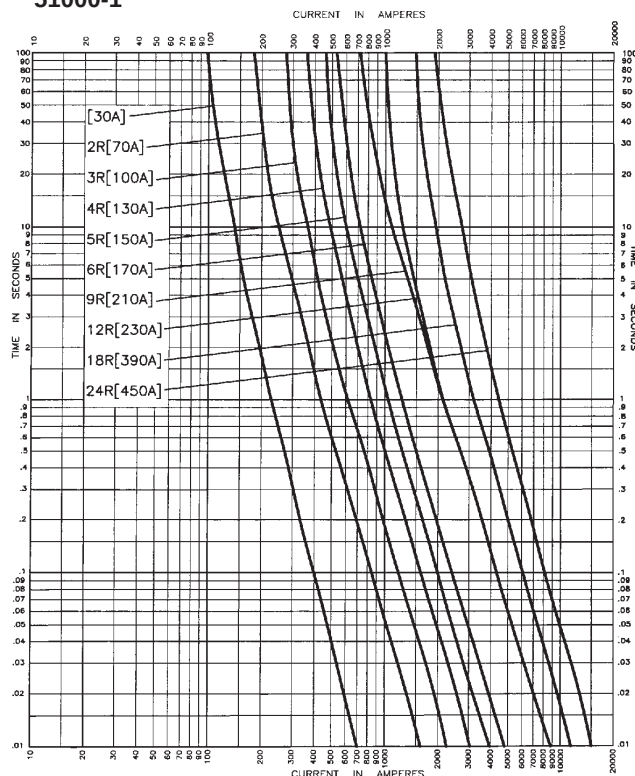
Medium Voltage

JCK, JCK-A, JCK-B, JCH,
JCL, JCL-A, JCL-B,
JCG, JCR, & JCR-B

JCL-B, JCG

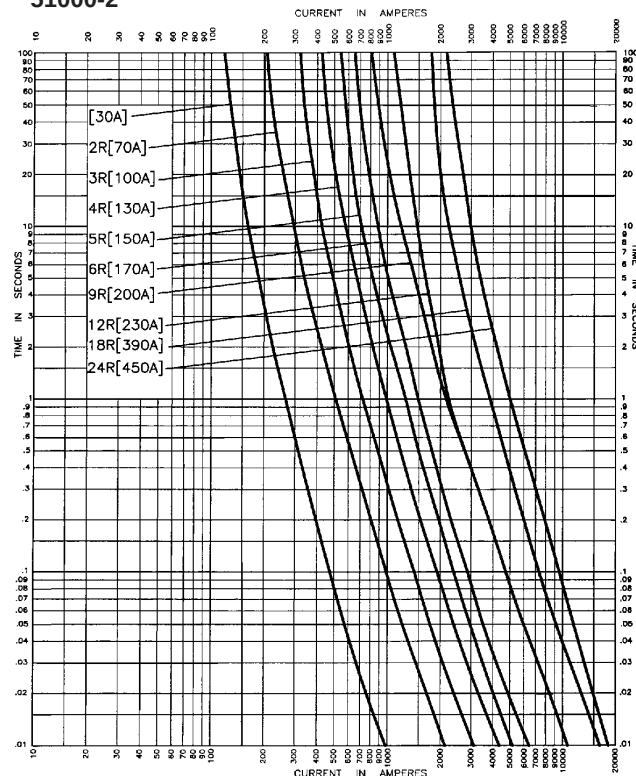
Time-Current Curve: Minimum Melt

51000-1



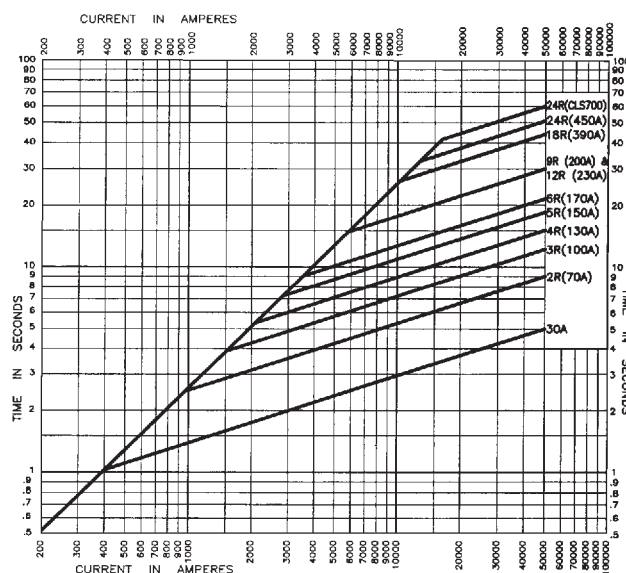
Time-Current Curve: Total Clearing

51000-2



Peak Let-Through Curves

51000-3



R-Rated Fuses

For Motor Circuit Protection

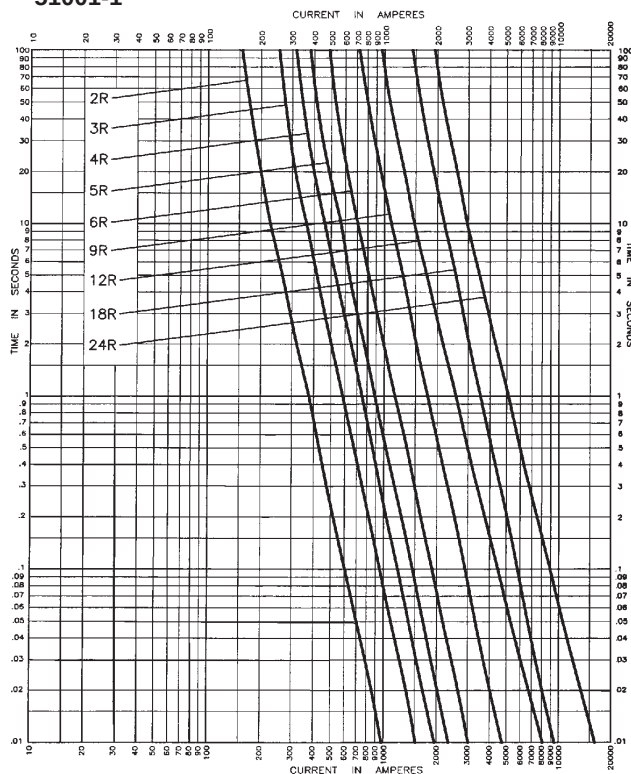
Medium Voltage

JCK, JCK-A, JCK-B, JCH,
JCL, JCL-A, JCL-B,
JCG, JCR, & JCR-B

JCR, JCR-B

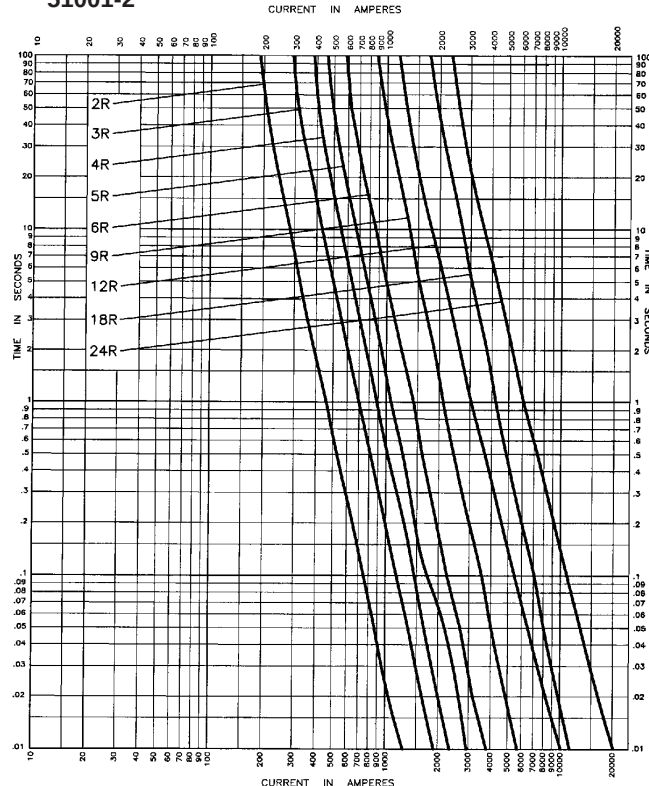
Time-Current Curve: Minimum Melt

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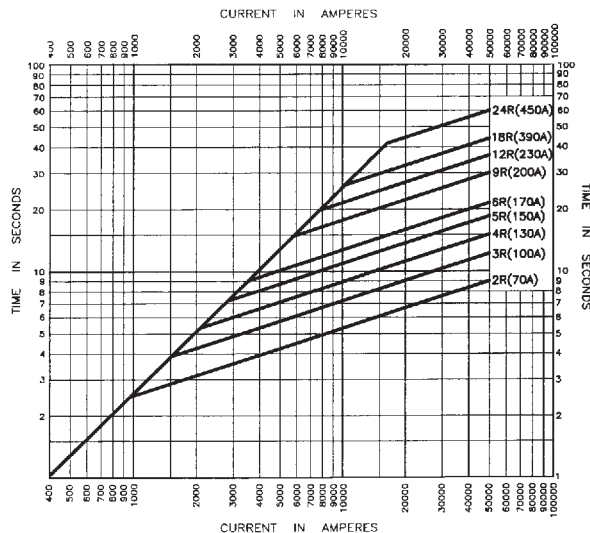
Time-Current Curve: Total Clearing

51001-2



Peak Let-Through Curves

51001-3



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Form No. JCK, JCK-A, JCK-B, JCH, JCL,
JCL-A, JCL-B, JCG, JCR, & JCR-B

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