

# TR & TRS

## TIME DELAY/CLASS RK5



### THE INDUSTRY'S MOST POPULAR FUSE FOR MOTOR CIRCUIT PROTECTION.

With advanced material technology added to the existing product, the TR and TRS current-limiting time-delay fuses are engineered for overcurrent protection of motors and transformers, service entrance equipment, feeder and branch circuits. Tri-Onic fuse's proven time-delay characteristic safely handles harmless starting currents and inrush currents associated with today's motors and transformers. Now available with optional SmartSpot® blown fuse indication technology.

#### Features/Benefits

- **Optional Solid State SmartSpot Indicator**
- **Time delay** for motor start-ups and transformer inrush currents without nuisance opening
- **Current limiting** for low peak let-thru current
- **Rejection-style design** prevents replacement errors (when used with recommended fuse blocks)
- **Easy-to-read label** for quick recognition and replacement
- **Metal-embossed date and catalog number** for traceability and lasting identification
- **Fiberglass body** provides dimensional stability in harsh industrial settings
- **High-grade silica filler** ensures fast arc quenching and high current limitation

#### HIGHLIGHTS:

- Time Delay
- Current Limiting
- AC & DC Rated

#### APPLICATIONS:

- Motor Circuits
- Mains
- Feeders
- Branch Circuits
- Transformers
- Service Entrance Equipment
- General-purpose Protection

#### Ratings

- **TR**  
**AC:** 1/10 to 600A, 250VAC, 200kA I.R.  
**DC:** 1/10 to 2-8/10A, 250VDC, 20kA I.R.  
 3 to 30A, 160VDC, 20kA I.R.  
 35 to 400A, 250VDC, 20kA I.R.  
 450 to 600A, 160VDC, 20kA I.R.
- **TRS**  
**AC:** 1/10 to 600A, 600VAC, 200kA I.R.  
**DC:** 1/10 to 12A, 600VDC, 20kA I.R.  
 15 to 60A, 300VDC, 20kA I.R.  
 70 to 600A, 600VDC, 20kA I.R.

#### Approvals

- UL Listed to Standard 248-12 File E2137
- CSA Certified to Standard C22.2 No. 248.12
- DC Listed to UL Standard 248 TRS only



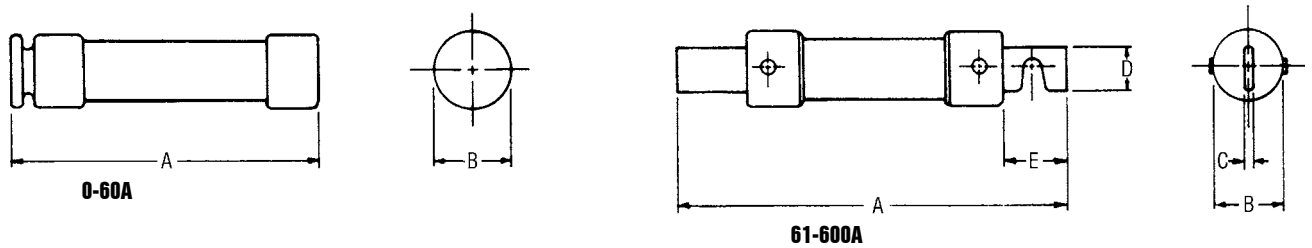
# TIME DELAY/CLASS RK5 FUSES

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## Standard Fuse Ampere Ratings, Catalog Numbers

Ampere Rating	Catalog Number		Ampere Rating	Catalog Number		Ampere Rating	Catalog Number	
	250V	600V		250V	600V		250V	600V
1/10	TR1/10R*	TRS1/10R*	3-1/2	TR3-1/2R*	TRS3-1/2R*	50	TR50R	TRS50R
15/100	TR15/100R*	TRS15/100R*	4	TR4R*	TRS4R*	60	TR60R	TRS60R
2/10	TR2/10R*	TRS2/10R*	4-1/2	TR4-1/2R*	TRS4-1/2R*	70	TR70R	TRS70R
3/10	TR3/10R*	TRS3/10R*	5	TR5R*	TRS5R*	75	TR75R*	TRS75R*
4/10	TR4/10R*	TRS4/10R*	5-6/10	TR5-6/10R*	TRS5-6/10R*	80	TR80R	TRS80R
1/2	TR1/2R*	TRS1/2R*	6	TR6R*	TRS6R*	90	TR90R	TRS90R
6/10	TR6/10R*	TRS6/10R*	6-1/4	TR6-1/4R*	TRS6-1/4R*	100	TR100R	TRS100R
8/10	TR8/10R*	TRS8/10R*	7	TR7R*	TRS7R*	110	TR110R	TRS110R
1	TR1R*	TRS1R*	8	TR8R	TRS8R	125	TR125R	TRS125R
1-1/8	TR1-1/8R*	TRS1-1/8R*	9	TR9R*	TRS9R	150	TR150R	TRS150R
1-1/4	TR1-1/4R*	TRS1-1/4R*	10	TR10R	TRS10R	175	TR175R	TRS175R
1-4/10	TR1-4/10R*	TRS1-4/10R*	12	TR12R	TRS12R	200	TR200R	TRS200R
1-6/10	TR1-6/10R*	TRS1-6/10R*	15	TR15R	TRS15R	225	TR225R	TRS225R
1-8/10	TR1-8/10R*	TRS1-8/10R*	17-1/2	TR17-1/2R*	TRS17-1/2R	250	TR250R	TRS250R
2	TR2R*	TRS2R*	20	TR20R	TRS20R	300	TR300R	TRS300R
2-1/4	TR2-1/4R*	TRS2-1/4R*	25	TR25R	TRS25R	350	TR350R	TRS350R
2-1/2	TR2-1/2R*	TRS2-1/2R*	30	TR30R	TRS30R	400	TR400R	TRS400R
2-8/10	TR2-8/10R*	TRS2-8/10R*	35	TR35R	TRS35R	450	TR450R	TRS450R
3	TR3R*	TRS3R*	40	TR40R	TRS40R	500	TR500R	TRS500R
3-2/10	TR3-2/10R*	TRS3-2/10R*	45	TR45R	TRS45R	600	TR600R	TRS600R

Note: Optional blown fuse visual indication available. To order, place "ID" at the end of the catalog number. Example: #TRS30RID  
 \* Not available with optional blow fuse indicator.



## Dimensions

AMPERE RATING	A		B		C		D		E	
	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm
<b>250V-TR FUSES</b>										
0-30	2	51	9/16	14	-	-	-	-	-	-
31-60	3	76	13/16	21	-	-	-	-	-	-
61-100	5-7/8	149	1-1/16	27	1/8	3	3/4	19	1	25
101-200	7-1/8	181	1-9/16	40	3/16	5	1-1/8	28	1-3/8	35
201-400	8-5/8	219	2-1/16	53	1/4	6	1-5/8	41	1-7/8	48
401-600	10-3/8	264	2-9/16	66	1/4	6	2	51	2-1/4	57
<b>600V-TRS FUSES</b>										
0-30	5	127	13/16	21	-	-	-	-	-	-
31-60	5-1/2	139	1-1/16	27	-	-	-	-	-	-
61-100	7-7/8	200	1-5/16	34	1/8	3	3/4	19	1	25
101-200	9-5/8	244	1-13/16	46	3/16	5	1-1/8	28	1-3/8	35
201-400	11-5/8	295	2-9/16	66	1/4	6	1-5/8	41	1-7/8	48
401-600	13-3/8	340	3-1/8	80	1/4	6	2	51	2-1/4	57

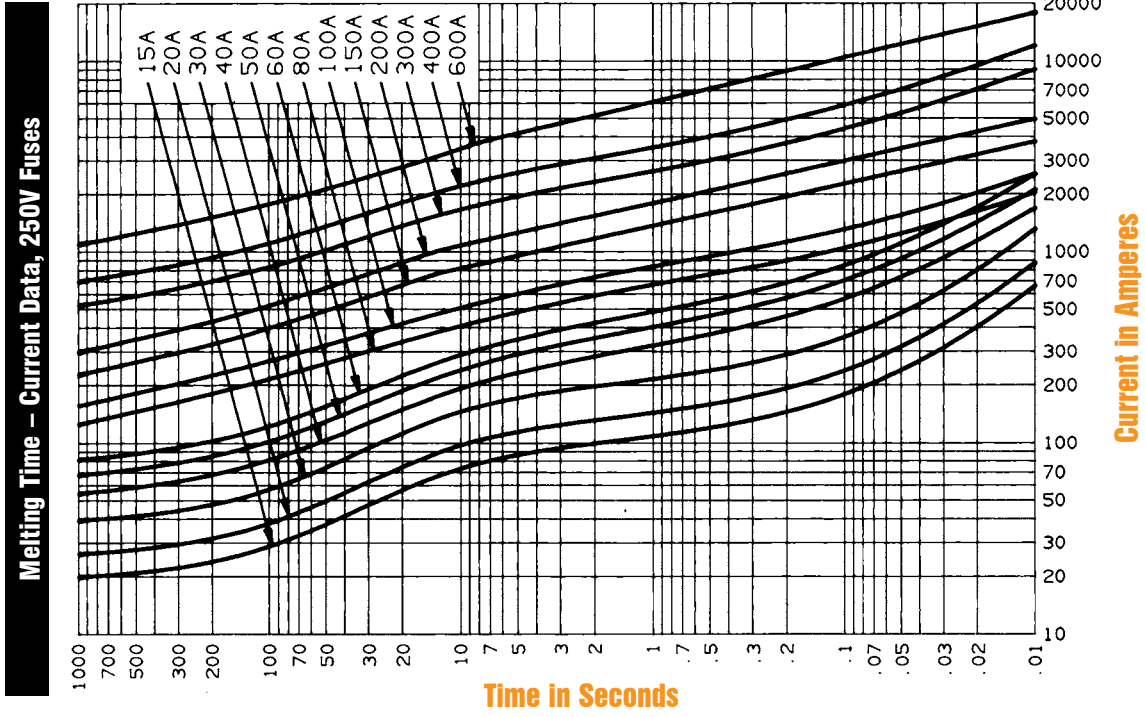
## Recommended Fuse Blocks With Box Connectors For Tri-onic® Class RK5 Fuses

Fuse Ampere Rating	Catalog Number			
	250V		600V	
	1 Pole	3 pole	1 pole	3 pole
0-30	20306R	20308R	60306R	60308R
31-60	20606R	20608R	60606R	60608R
61-100	21036R	21038R	61036R	61038R
101-200	22001R	22003R	62001R	62003R
201-400	24001R	24003R	64001R	64003R
401-600	2631R	2633R	6631R	6633R

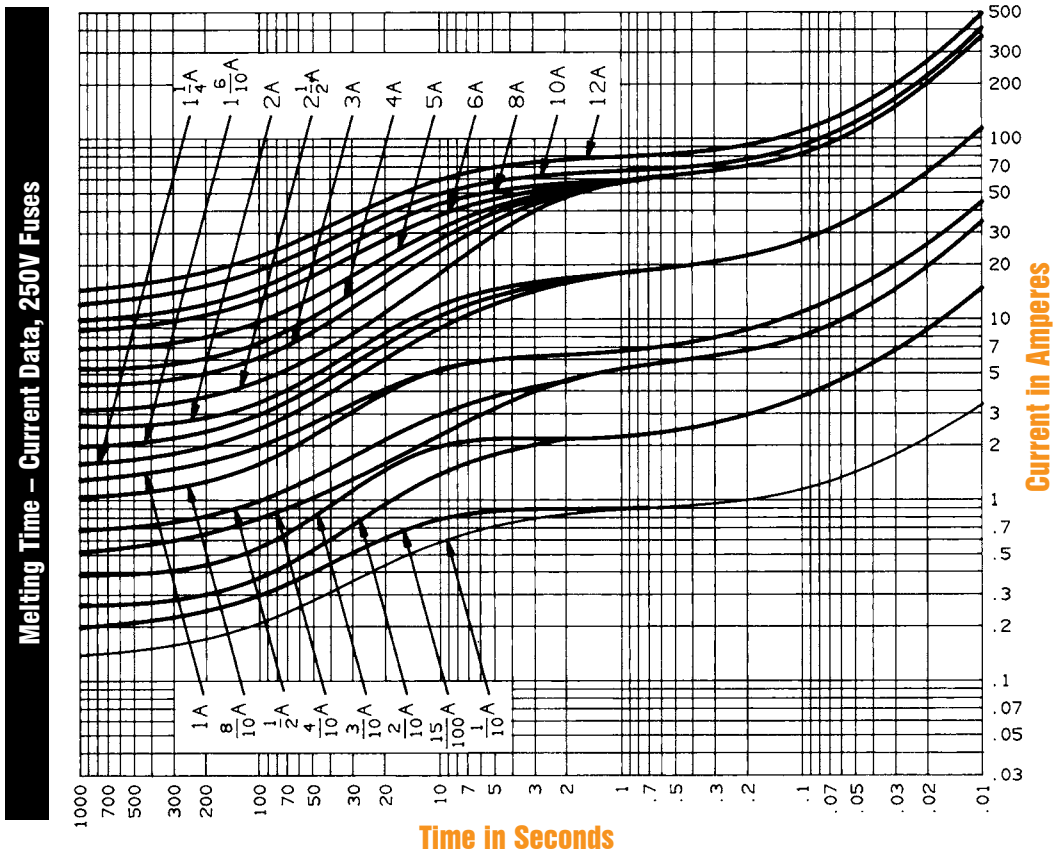
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## TR15 TO 600

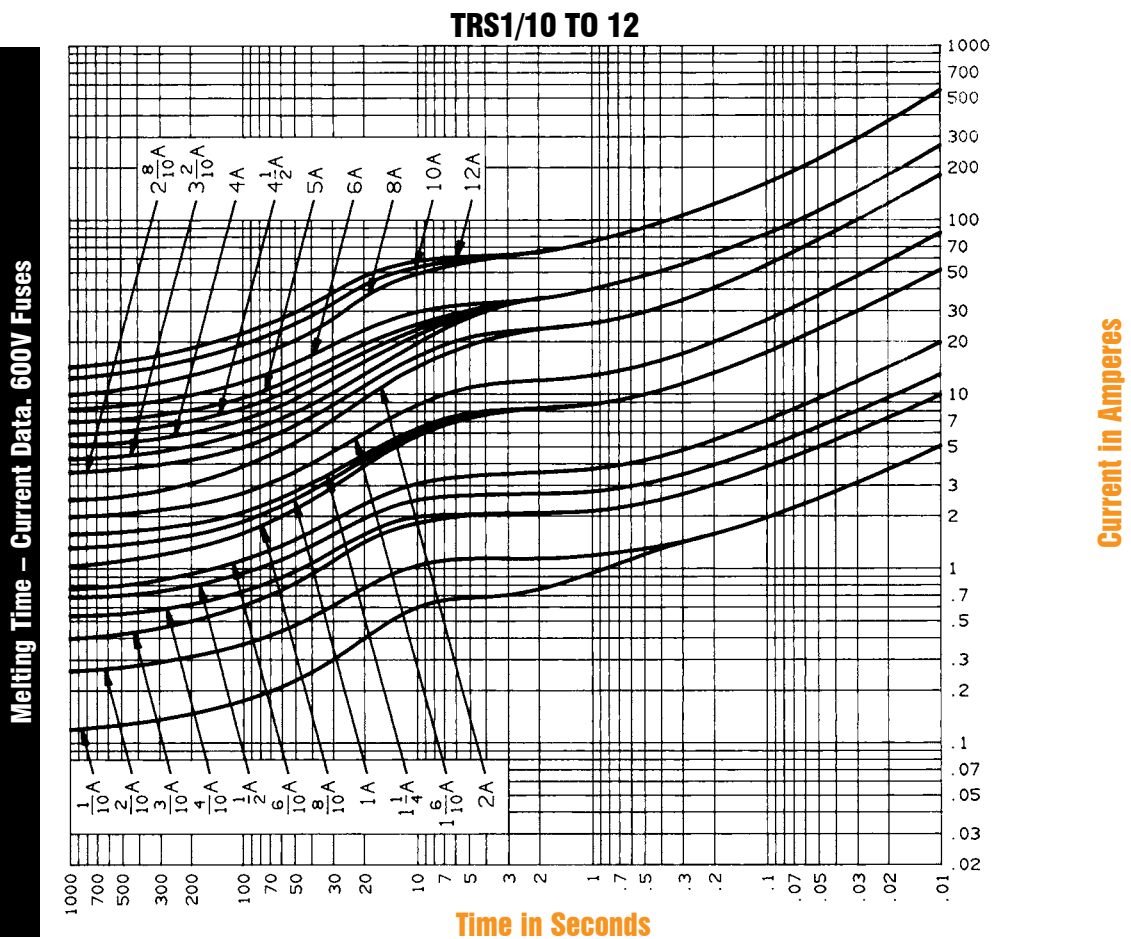
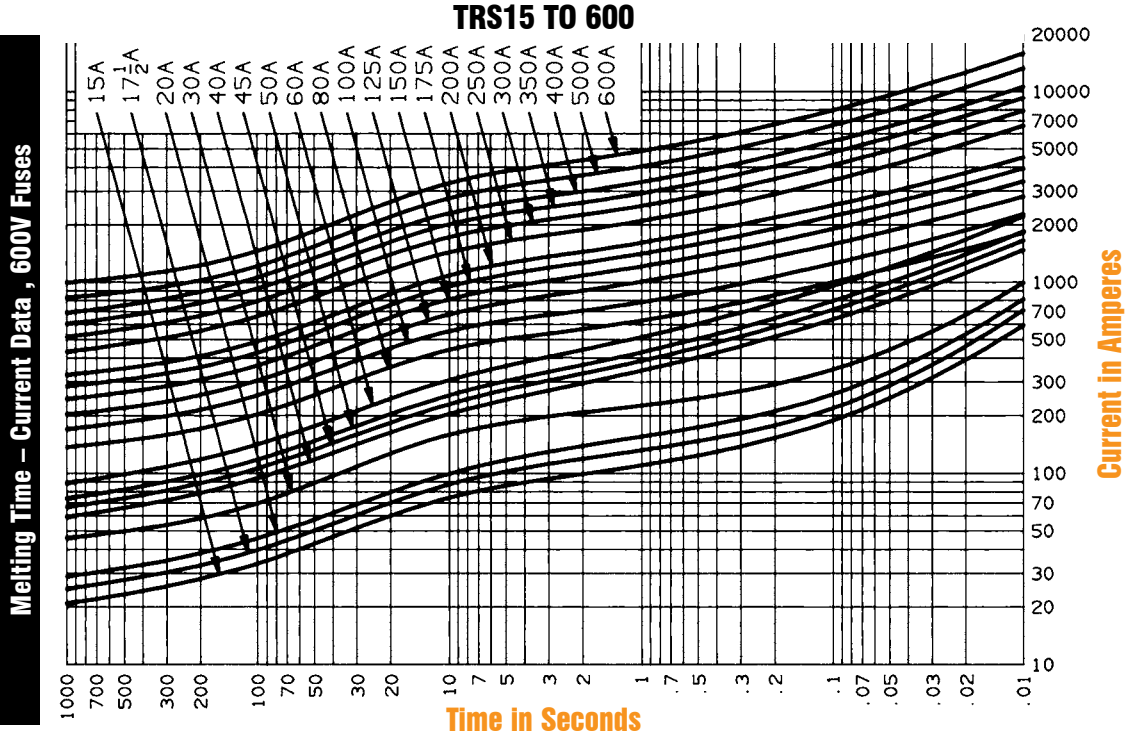


## TR1/10 TO 12



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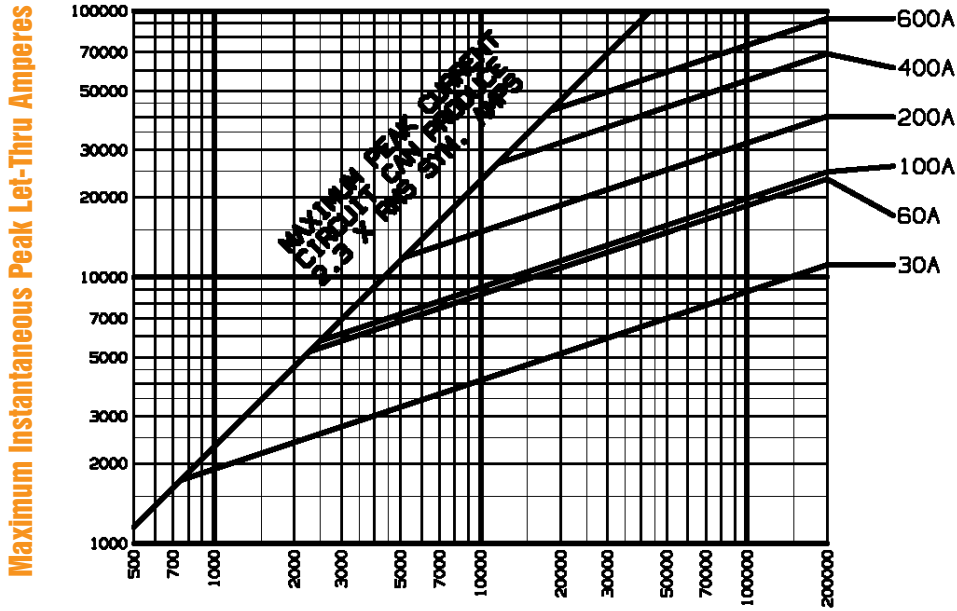


**B**

# TIME DELAY/CLASS RK5 FUSES

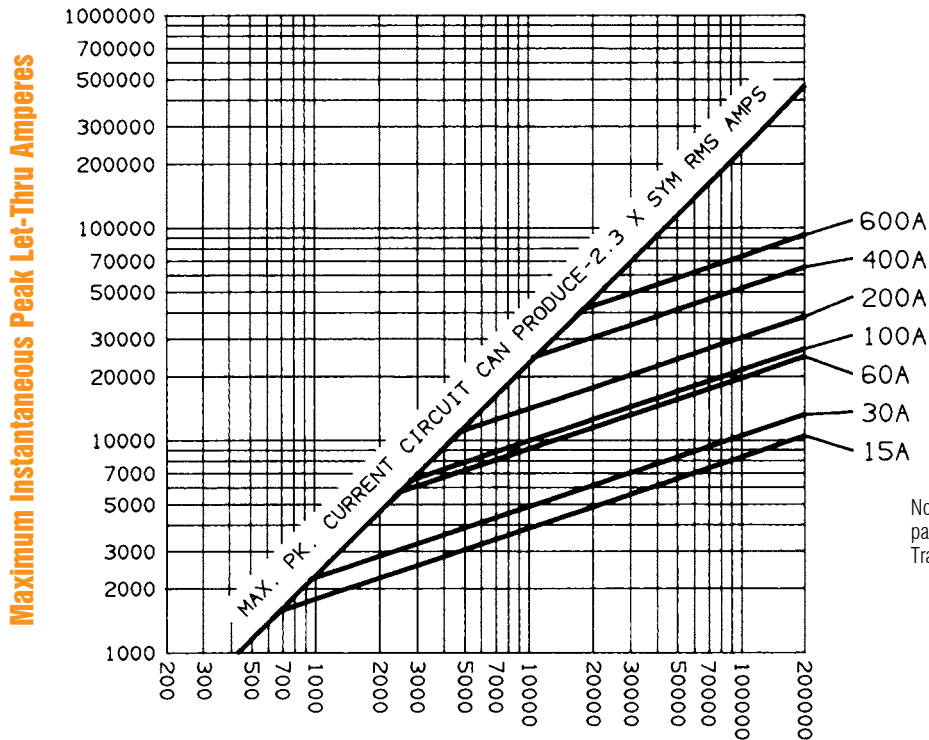
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**Peak Let-Thru Current Data – TR30 to 600, 250 Volts AC**



**Available Current in RMS Symmetrical Amperes**

**Peak Let-Thru Current Data – TRS15 to 600, 600 Volts AC**



Note: See Application Information page L9 for All Motor and Transformer Tables.

**Available Current in RMS Symmetrical Amperes**