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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## **ECSR**

# Class RK5 600Vac, 70 to 600A Dual-Element, Time-Delay Fuses



#### **Dimensions (inches)**



 Ampere Ratings
 A
 B

 65-100
 7.88 (± 0.062)
 1.11 (± 0.020)

 110-200
 9.63 (± 0.062)
 1.61 (± 0.020)

 225-400
 11.63 (± 0.094)
 2.34 (± 0.020)

 450-600
 13.38 (± 0.094)
 2.88 (± 0.020)

Catalog Symbol: ECSR

Dual-Element, Time-Delay – 10 seconds (minimum) at 500% rated current

Current-Limiting

Volts: 600Vac (or less)
Amps: 65 to 600A
IR: 200kA RMS Sym.

**Agency Information:** CE, UL. Listed, Std. 248-12, Class RK5, Guide JDDZ, File E162363 CSA Certified, HRCI-R C22.2 No. 248.12, Class 1422-01, File 53787

#### **Features**

- Provides motor overload, ground fault and short-circuit protection. When used in circuits subject to surge currents such as those caused by motors, transformers and other inductive components, these fuses can be sized close to full-load Amps to give maximum overcurrent protection.
- The time-delay feature makes it possible to use fuse Amp ratings, which are much smaller than those of non-time-delay fuses. Considerable cost saving occurs by permitting the use of smaller size switches, panels and fuses themselves.
- Provides a good degree of short-circuit protection (greater current-limitation) to help protect downstream components from high fault currents.
- Gives motor running back-up protection to motors without extra costs.
- Helps protect motors against burnout from overloads and single phasing when sized properly.

- Simplifies and improves blackout prevention (selective coordination ratios).
- Dual-element fuses can be applied in circuits subject to temporary motor overloads and surge currents to provide both high-performance, short-circuit and overload protection.

#### Catalog Numbers (amps)

ECSR70	ECSR110	ECSR225	ECSR450	
ECSR75	ECSR125	ECSR250	ECSR500	_
ECSR80	ECSR150	ECSR300	ECSR600	_
ECSR90	ECSR175	ECSR350		_
ECSR100	ECSR200	ECSR400		_

#### **Carton Quantity and Weight**

	Carton	<u>Weight p</u>	<u>er Carton</u>	
<u>Amps</u>	<b>Quantity</b>	<u>lbs</u>	<u>kg</u>	
65–100	1	0.54	0.24	
101–200	1	1.22	0.54	
201–400	1	3.00	1.36	
401–600	1	5.00	2.27	

#### Class R Fuse Blocks (600V) Catalog Data

(Clip Retaining Spring Standard, Suffix "R")

Terminal Type (Suffix No.)

<u>Basic Box Lug w/</u>

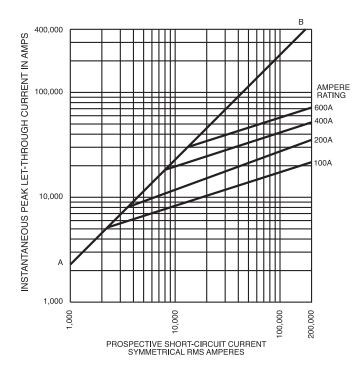
		Catalog	_	Reinforced Clip
<u>Amps</u>	<u>Poles</u>	<u>Number</u>		CU only
70	1	R60100-1	CR	COR
to	2	R60100-2	CR	COR
100	3	R60100-3	CR	COR
to 200	1	R60200-1	CR	_
to 400	1	R60400-1	CR	_
to 600	1	R60600-1	CR	_



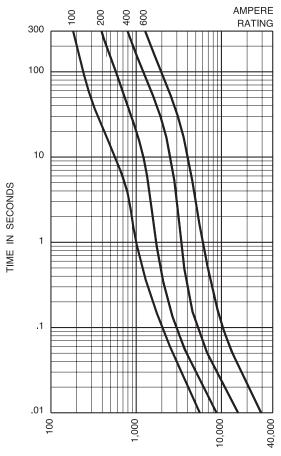


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#### **Current Limitation Curves**



## Time-Current Characteristic Curves- Average Melt



RMS SYMMETRICAL CURRENT IN AMPERES

#### **Current-Limiting Effects**

ECSR Apparent RMS Symmetrical Let-Through Current **Prosp.** 

<u>30A</u>	<u>60A</u>	<u>100A</u>	<u>200A</u>	<u>400A</u>	<u>600A</u>
1400	2000	2900	3950	5000	5000
1850	2650	3600	5100	8550	10,000
2200	3200	4100	5950	9750	13,700
2450	3550	4500	6600	10,700	15,000
2700	3900	4850	7150	11,500	16,100
2900	4280	5150	7650	12,200	17,050
3100	4400	5400	8100	12,800	17,900
3300	4760	5600	8500	13,400	18,700
3550	5150	6050	9250	14,400	20,050
3800	5500	6400	9850	15,250	21,250
4300	6100	7000	10,950	16,750	23,300
4500	6600	7550	11,900	18,000	25,000
5200	8000	8600	13,800	20,550	28,450
5800	8500	9400	15,350	22,550	31,200
	1400 1850 2200 2450 2700 2900 3100 3300 3550 3800 4300 4500 5200	1400         2000           1850         2650           2200         3200           2450         3550           2700         3900           2900         4280           3100         4400           3550         5150           3800         5500           4300         6100           4500         6600           5200         8000	1400         2000         2900           1850         2650         3600           2200         3200         4100           2450         3550         4500           2700         3900         4850           2900         4280         5150           3100         4400         5400           3550         5150         6050           3800         5500         6400           4300         6100         7000           4500         6600         7550           5200         8000         8600	1400         2000         2900         3950           1850         2650         3600         5100           2200         3200         4100         5950           2450         3550         4500         6600           2700         3900         4850         7150           2900         4280         5150         7650           3100         4400         5400         8100           3300         4760         5600         8500           3550         5150         6050         9250           3800         5500         6400         9850           4300         6100         7000         10,950           4500         6600         7550         11,900           5200         8000         8600         13,800	1400         2000         2900         3950         5000           1850         2650         3600         5100         8550           2200         3200         4100         5950         9750           2450         3550         4500         6600         10,700           2700         3900         4850         7150         11,500           2900         4280         5150         7650         12,200           3100         4400         5400         8100         12,800           3300         4760         5600         8500         13,400           3550         5150         6050         9250         14,400           3800         5500         6400         9850         15,250           4300         6100         7000         10,950         16,750           4500         6600         7550         11,900         18,000           5200         8000         8600         13,800         20,550

#### **Fuse Reducers For Class R Fuses**

Equipment	Desired Fuse	Catalog Number	
Fuse Clips	(Case) Size	(Pairs) 600V	
200A	100A	No. 2621-R	
400A	100A	No. 2641-R	
	200A	No. 642-R	
	100A	No. 2661-R	
600A	200A	No. 2662-R	
	400A	No. 2664-R*	

\*Single reducer only (pair not required).

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