

**Neutral Grounding Resistor**

**Euclid™ Type SSR\* (Low Voltage), HSSR\* (High Voltage), GSK\* (High Voltage)**

Price List • July 2010, Replaces September 1994 • Discount Code EN

**TYPE SSR GROUNDING RESISTORS**

\*139 Volts Line-to-Neutral

Time Rating	Initial Current In Amps	Temperature Rise In Degrees C	Open Type	Price Adders for Optional Covers	
				Cane Metal	Ventilated Weatherproof
			List Price	List Price	List Price
Extended Time	5	610° C	\$481	\$250	\$374
	10		\$481	\$250	\$374
	15		\$509	\$250	\$374
	25		\$583	\$250	\$374
	50		\$997	\$250	\$374
	75		\$1647	\$281	\$406
	100		\$2564	\$312	\$437
Continuous	5	375° C	\$481	\$250	\$374
	10		\$509	\$250	\$374
	15		\$578	\$250	\$374
	25		\$851	\$250	\$374
	50		\$1602	\$281	\$406
	75		\$2571	\$312	\$437
	100		\$4271	\$374	\$530

277 Volts Line-to-Neutral

Time Rating	Initial Current In Amps	Temperature Rise In Degrees C	Open Type	Price Adders for Optional Covers	
				Cane Metal	Ventilated Weatherproof
			List Price	List Price	List Price
Extended Time	5	610° C	\$557	\$250	\$374
	10		\$557	\$250	\$374
	15		\$727	\$250	\$374
	25		\$1029	\$281	\$406
	50		\$1890	\$312	\$437
	75		\$3402	\$374	\$530
	100		\$5107	\$437	\$624
Continuous	5	375° C	\$557	\$250	\$374
	10		\$706	\$250	\$374
	15		\$997	\$281	\$406
	25		\$1599	\$312	\$437
	50		\$3182	\$374	\$530
	75		\$5121	\$437	\$624
	100		\$8034	\$562	\$811

\* Conforms To IEEE-32 (1972)

• Replaces Pages 5-10 from Price List 3024 dated June 1977



## TYPE HSSR/GSK GROUNDING RESISTORS

### 1390 Volts Line-to-Neutral

Time Rating	Temperature Rise In Degrees C	Initial Current In Amps	Type	Frame With Louvered Covers		Louvered Enclosures				
						Grounded		Safety		
				List Price		List Price		List Price		
				Standard	Corrosion Resistant*	Standard	Corrosion Resistant*	Standard	Corrosion Resistant*	
10 Seconds	760° C	25	HSSR	Not Available	Not Available	\$6,560	\$8,660	\$6,340	\$8,440	
		50				\$6,780	\$8,880	\$6,540	\$8,640	
		100				\$6,780	\$8,880	\$6,540	\$8,640	
		200				\$6,780	\$8,880	\$6,540	\$8,640	
		300				\$7,240	\$9,340	\$7,020	\$9,120	
	GSK	400	Not Available	Not Available	\$6,080	\$7,840	\$6,300	\$8,060		
		600			\$6,280	\$8,040	\$6,480	\$8,240		
		800			\$6,500	\$8,260	\$6,720	\$8,480		
		1,000			\$6,800	\$8,560	\$6,940	\$8,700		
		1,200			\$7,500	\$9,260	\$7,640	\$9,400		
60 Seconds	760° C	15	HSSR	Not Available	Not Available	\$6,960	\$9,060	\$6,720	\$8,820	
		25				\$8,120	\$10,220	\$7,900	\$10,000	
		50				\$8,120	\$10,220	\$7,900	\$10,000	
		100				\$9,940	\$12,040	\$9,720	\$11,820	
		GSK				200	Not Available	Not Available	\$11,700	\$14,160
	300		\$12,720	\$15,180	\$12,400	\$14,860				
	400		\$12,720	\$15,180	\$12,400	\$14,860				
	600		\$18,840	\$22,400	\$18,520	\$22,080				
	Extended Time		610° C	15	HSSR	Not Available			Not Available	\$6,960
		25		\$8,140			\$10,240	\$7,900		\$10,000
50		\$12,640		\$14,940			\$12,420	\$14,720		
75		\$16,540		\$18,840			\$16,320	\$18,620		
100		\$16,540		\$18,840			\$16,320	\$18,620		

### 2400 Volts Line-to-Neutral

Time Rating	Temperature Rise In Degrees C	Initial Current In Amps	Type	Frame With Louvered Covers		Louvered Enclosures				
						Grounded		Safety		
				List Price		List Price		List Price		
				Standard	Corrosion Resistant*	Standard	Corrosion Resistant*	Standard	Corrosion Resistant*	
10 Seconds	760° C	25	HSSR	Not Available	Not Available	\$7,400	\$9,500	\$7,180	\$9,280	
		50				\$7,720	\$9,820	\$7,500	\$9,600	
		100				\$7,720	\$9,820	\$7,500	\$9,600	
		200				\$7,720	\$9,820	\$7,500	\$9,600	
		300				\$8,880	\$10,980	\$8,640	\$10,740	
	GSK	400	Not Available	Not Available	\$8,180	\$9,960	\$10,300	\$12,620	\$10,520	\$12,840
		600			\$9,620	\$11,400	\$10,680	\$13,000	\$10,900	\$13,220
		800			\$10,080	\$11,860	\$11,140	\$13,460	\$11,360	\$13,680
		1,000			\$10,500	\$12,280	\$11,580	\$13,900	\$11,780	\$14,100
		1,200			\$12,200	\$14,080	\$13,340	\$15,800	\$13,480	\$15,940
60 Seconds	760° C	15	HSSR	Not Available	Not Available	\$8,460	\$10,560	\$8,240	\$10,340	
		25				\$10,440	\$12,540	\$10,220	\$12,320	
		50				\$11,220	\$13,320	\$11,000	\$13,100	
		100				\$14,320	\$16,620	\$14,100	\$16,400	
		200				\$20,040	\$22,840	\$19,800	\$22,600	
	GSK	300	Not Available	Not Available	\$18,600	\$21,340	\$20,640	\$24,400	\$20,860	\$24,620
		400			\$18,600	\$21,340	\$20,640	\$24,400	\$20,860	\$24,620
		800			\$26,360	\$29,540	\$28,700	\$33,060	\$28,920	\$33,280
		800			\$31,040	\$34,220	\$33,380	\$37,740	\$33,600	\$37,960
		1,000			\$31,040	\$34,220	\$33,380	\$37,740	\$33,600	\$37,960
Extended Time	610° C	15	HSSR	Not Available	Not Available	\$8,460	\$10,560	\$8,240	\$10,340	
		25				\$10,440	\$12,540	\$10,220	\$12,320	
		50				\$19,200	\$22,000	\$18,980	\$21,780	
		75				\$25,400	\$28,200	\$25,160	\$27,960	
		100				\$25,400	\$28,200	\$25,160	\$27,960	

\* Hot Dipped Galvanized

Prices Subject To Change Without Notice.



## TYPE HSSR/GSK GROUNDING RESISTORS

### 4160 Volts Line-to-Neutral

Time Rating	Temperature Rise In Degrees C	Initial Current In Amps	Type	Frame With Louvered Covers		Louvered Enclosures			
						Grounded		Safety	
				List Price		List Price		List Price	
				Standard	Corrosion Resistant*	Standard	Corrosion Resistant*	Standard	Corrosion Resistant*
10 Seconds	760° C	25	HSSR	Not Available	Not Available	\$9,980	\$12,280	\$9,860	\$11,980
		50				\$10,160	\$12,460	\$9,860	\$12,160
		100				\$10,160	\$12,460	\$9,860	\$12,160
		200				\$10,160	\$12,460	\$9,860	\$12,160
		300				\$13,520	\$15,820	\$13,220	\$15,520
	400	GSK	\$11,360	\$13,240	\$12,520	\$14,980	12,760	\$15,220	
	600		\$11,920	\$13,800	\$13,060	\$15,520	\$13,300	\$15,760	
	800		\$12,620	\$14,500	\$13,760	\$16,220	\$14,000	\$16,460	
	1,000		\$13,280	\$15,160	\$14,420	\$16,880	\$14,660	\$17,120	
	1,200		\$18,060	\$20,640	\$20,000	\$23,560	\$20,240	\$23,800	
1,600	\$19,460	\$22,040	\$21,400	\$24,960	\$21,640	\$25,200			
2,000	\$22,680	\$25,420	\$24,720	\$28,480	\$24,960	\$28,720			
60 Seconds	760° C	15	HSSR	Not Available	Not Available	\$12,980	\$15,780	\$12,680	\$15,480
		25				\$16,080	\$18,880	\$15,780	\$18,580
		50				\$16,840	\$19,640	\$16,540	\$19,340
		100				\$22,140	\$25,540	\$22,240	\$25,640
		200				\$37,700	\$42,300	\$37,380	\$41,980
	300	GSK	\$30,020	\$33,200	\$32,360	\$36,720	\$32,600	\$36,960	
	400		\$30,020	\$33,200	\$32,360	\$36,720	\$32,600	\$36,960	
	600		\$41,440	\$45,520	\$44,480	\$50,080	\$44,720	\$50,320	
	800		\$47,140	\$51,220	\$50,180	\$55,780	\$50,420	\$56,020	
	1000		\$47,140	\$51,220	\$50,180	\$55,780	\$50,420	\$56,020	
Extended Time	610° C	15	HSSR	Not Available	Not Available	\$12,980	\$15,780	\$12,680	\$15,480
		25				\$16,080	\$18,880	\$15,780	\$18,580
		50				\$32,760	\$37,360	\$32,460	\$37,060
		75				\$46,760	\$52,360	\$46,460	\$52,060
		100				\$46,760	\$52,360	\$46,460	\$52,060

### 8000 Volts Line-to-Neutral

Time Rating	Temperature Rise In Degrees C	Initial Current In Amps	Type	Frame With Louvered Covers		Louvered Enclosures				
						Grounded		Safety		
				List Price		List Price		List Price		
				Standard	Corrosion Resistant*	Standard	Corrosion Resistant*	Standard	Corrosion Resistant*	
10 Seconds	760° C	25	HSSR	Not Available	Not Available	\$16360	\$19,760	\$16,060	\$19,460	
		50				\$17760	\$21,160	\$17,440	\$20,840	
		100				\$17760	\$21,160	\$17,440	\$20,840	
		200				\$17760	\$21,160	\$17,440	\$20,840	
		300				\$20620	\$24,020	\$20,320	\$23,720	
	400	GSK	\$23,200	\$26,960	\$22880	\$26,800	\$23,240	\$27,160		
	600		\$24,320	\$28,080	\$23980	\$27,900	\$24,340	\$28,260		
	800		\$25,700	\$29,460	\$25380	\$29,300	\$25,740	\$29,660		
	1,000		\$27,000	\$30,760	\$36660	\$30,580	\$27,020	\$30,940		
	1,200		\$35,140	\$40,320	\$34240	\$39,300	\$34,600	\$39,660		
1,600	\$37,800	\$42,980	\$36900	\$40,960	\$37,260	\$42,320				
2,000	\$44,540	\$50,020	\$43420	\$48,740	\$43,780	\$49,100				
60 Seconds	760° C	15	HSSR	Not Available	Not Available	\$33500	\$39,100	\$33,200	\$38,800	
		25				\$38080	\$43,680	\$37,760	\$43,360	
		50				\$40340	\$45,940	\$40,040	\$45,640	
		100				\$48260	\$53,860	\$47,960	\$53,560	
		200				\$69460	\$76,660	\$69,160	\$76,360	
	300	GSK	\$52,820	\$59,180	\$52440	\$58,600	\$52,780	\$58,940		
	400		\$53,600	\$59,960	\$53200	\$59,360	\$53,560	\$59,720		
	Extended Time	610° C	15	HSSR	Not Available	Not Available	\$33500	\$39,100	\$33,200	\$38,800
			25				\$38080	\$43,680	\$37,600	\$43,360
			50				\$58640	\$65,840	\$58,340	\$65,540

\* Hot Dipped Galvanized

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# GROUNDING RESISTOR MODIFICATIONS

## TOWERS

Resistor Type	List Price Adders					
	48" High		72" High		96" High	
	Standard	Corrosion Resistant •	Standard	Corrosion Resistant •	Standard	Corrosion Resistant •
	List Price	List Price	List Price	List Price	List Price	List Price
SSR	*	*	*	*	*	*
HSSR	\$5,600	\$7,840	\$6,000	\$8,400	\$6,400	\$8,960
GSK	\$5,600	\$7,840	\$6,000	\$8,400	\$6,400	\$8,960

\* Consult Factory  
• Hot Dipped Galvanized

### SPECIAL MODIFICATIONS

Mod Number	Modification Description	Modification Made To:	List Price Adder
1	Ground Clamp	Tower or Enclosure	\$400
2	4/0-500 MCM Terminal Lug	Terminal Insulator † or Entrance Bushing	\$100
3	4 hole NEMA Spade Pad	Entrance Bushing	\$100
4	Screen Covers	Frame or Enclosure	*
5	Aluminum Construction	Frame, Enclosure or Tower	*
6	Potential Transformer	Enclosure	*
7	Hook Operated Disconnect Switch	Enclosure or Frame	*

\* Consult Factory  
† Located in Safety Enclosure

### CURRENT TRANSFORMERS (Use Only With Grounded Or Safety Enclosure)

System Line-to-Neutral Voltage	Current Transformer Electrical Ratings (1)		List Price Adder To Grounded Or Safety Enclosures	
	NSV	BIL	Provisions For Mounting In Enclosure	Mounted In Enclosure
			List Price	List Price
139V	-	-	*	*
277V	-	-	*	*
1390V	4.8 kV	60	\$400	\$3,300
2400V	4.8 kV	60	\$400	\$4,200
4160V	8.3 kV	75	\$400	\$4,200
8000V	13.8 kV	110	\$400	\$5,120

\* Consult Factory  
(1) Ratings apply to the following ratios:  
5:5, 10:5, 15:5, 20:5, 25:5, 30:5, 40:5,  
50:5, 75:5, 100:5, 200:5, 300:5, 400:5,  
600:5, and 800:5

### STANDARD ENTRANCE BUSHING FOR CUSTOMER CONNECTIONS

Grounding Resistor Rating			Frame with Louvered Covers	Ground Enclosure
L/N Volts	Time Rating	Maximum Amps	Customer Connection	Customer Connection
1390V	10 Seconds	1000 Amps 2000 Amps	3/8" Post 2 hole Spade Pad	3/8" Post 2 hole Spade Pad
	2400V	60 Seconds	400 Amps 1000 Amps	3/8" Post 2 hole Spade Pad
4160V	Extended Time	100 Amps	3/8" Post	3/8" Post
8000V	10 Seconds	1000 Amps 2000 Amps	3/8" Post 2 hole Spade Pad	2 hole Spade Pad 2 hole Spade Pad
	60 Seconds	400 Amps 1000 Amps	3/8" Post 2 hole Spade Pad	2 hole Spade Pad 2 hole Spade Pad
	Extended Time	100 Amps	3/8" Post	2 hole Spade Pad

### ORDERING INSTRUCTIONS

When ordering specify:

1. Rated Line-to-Neutral Voltage
2. Initial Current
3. Time Rating
4. Frame or Enclosure Type
5. Modifications
6. Special Requirements

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