

# Fusing Equipment

Electrical Apparatus

## K-SEC 1.1

### HX-CB Loadbreak Fuse Cutout

#### DESCRIPTION

Cooper Power Systems Kearney™ HX-CB loadbreak fuse cutout provides superior performance with the combination of the field-proven HX cutout and a compact, low profile loadbreak interrupter.

The loadbreak interrupter is in the current path momentarily when interrupting the load current during the opening operation. There is no parallel path through the loadbreak interrupter when the cutout is being closed or when the cutout is in the closed position. As a result, if inadvertently closed in on a fault or the cutout operates due to a fault, the fault current does not flow through the interrupter.

Should the main contacts not engage during the cutout closing operation, the fuseholder will fall to the fully open position. The fuseholder will not “hang up” in the loadbreak interrupter and give a false visual indication that the main cutout contacts are engaged.

The arc is interrupted within the enclosed arcing chamber of the interrupter. The copper tungsten arcing contacts and UniKearn® interrupting materials are completely enclosed and protected from contamination, wind blown debris, ice, nesting insects or animals.



Figure 1. HX-CB loadbreak fuse cutout.



Figure 2. UniKearn interrupting medium.

#### SUPERIOR INTERRUPTING MEDIUM

UniKearn®, a highly efficient interrupting medium, evolves a deionizing gas when subjected to the arc that appears across the rapidly separating contacts within the interrupter. Additionally, the arcing residue is nontracking. Kearney has successfully employed UniKearn in various loadbreak switching devices for many years.

TABLE 1  
Ratings

Voltage	Load Current
7.8, 7.8/13.8, 15, 15/27, 27 kV	100, 200, 300 A

**TABLE 2**  
**Single Insulator**

Catalog Number <sup>1</sup>	Maximum Design Voltage Rating kV-RMS	Continuous Current <sup>2</sup> A-RMS	Interrupting Capacity kA-RMS		BIL kV-Crest
			Sym	Asym	
144164-003	7.8	100	7.1	10.0	125
148164-003	7.8	200	13.3	20.0	125
144564-003*	7.8/13.8	100	7.1	10.0	125
146564-003*	7.8/13.8	100	10.7	16.0	125
148564-003*	7.8/13.8	200	13.3	20.0	125
144264-003	15	100	7.1	10.0	150
146264-003	15	100	9.3	14.0	150
148264-003	15	200	10.7	16.0	150
146664-003*	15/27	100	9.3	14.0	165
148664-003*	15/27	200	10.7	16.0	165
144364-003	27	100	4.0	6.0	165
146364-003	27	100	7.1	10.0	165
148364-003	27	200	7.1	10.0	165
144164-004	7.8	300 A Solid Blade	12,000 A Momentary Current Rating		125
144564-004*	7.8/13.8				125
144264-004	15				150
146664-004*	15/27				165
146364-004	27				165

<sup>1</sup> Includes crossarm mounting hanger and T-bolt terminal connectors for #6 SOL-250 MCM copper or aluminum conductor.

<sup>2</sup> Consult your Cooper Power Systems representative for the loadbreak interrupter capabilities.

**TABLE 3**  
**Replacement Fuseholders, Caps and Solid Blades**

Catalog Number	Maximum Design Voltage Rating kV-RMS	Continuous Current A-RMS	Replacement Fuseholder	Expendable Caps
144164-003	7.8	100	184104-003	36361-3
148164-003	7.8	200	188104-003	129023
144564-003*	7.8/13.8	100	184504-003	129052
146564-003*	7.8/13.8	100	186504-003	129052
148564-003*	7.8/13.8	200	188504-003	129023
144264-003	15	100	184204-003	36361-3
146264-003	15	100	186204-003	129052
148264-003	15	200	188204-00	129023
146664-003*	15/27	100	186604-003	129052
148664-003*	15/27	200	188604-003	129023
148364-003	27	200	188304-003	36361-3
146364-003	27	100	186304-003	129052
148364-003	27	200	188304-003	129023
144164-004	7.8	300A Solid Blade	120083-3	
144564-004*	7.8/13.8		120083-3	
144264-004	15		120082-3	
146664-004*	7.8/13.8		120087-3	
146364-004	27		120087-3	

12,000 A  
Momentary  
Current Rating

\* Slant rated Loadbreak Cutout Application Information Slant rated loadbreak cutouts are suitable for application on single-phase circuits having maximum line-to-ground voltage not exceeding the lower kV (voltage to the left of the diagonal) or on solidly grounded 3-phase circuits where the line-to-line voltage does not exceed the higher kV (voltage to the right of the diagonal).

