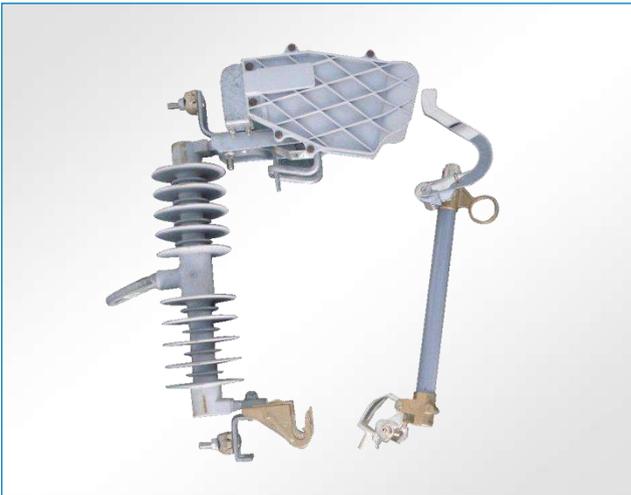


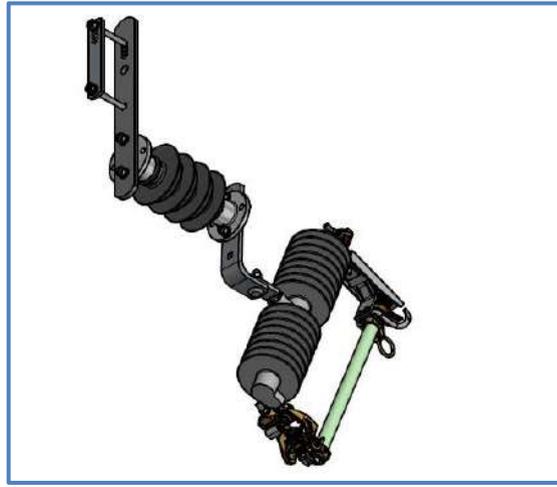
L Type Cutout

Application

Eaton Cooper offers type L cutout, providing the reliable over current protection for primary distribution circuits. Over current protection safeguards an electric system from excessive currents produced by abnormal conditions such as faults, line or equipment failures. Eaton Cooper Cut- out are ruggedly constructed and will provide full range of overcurrent protection from minimum melt of a given fuse link to the maximum nameplate interrupting current rating of the Cutout.

Eaton Cooper provides both the polymer and porcelain Cutout with 100A /200A fuse holders. Available in 12kV,15kV, and 27kV with different BIL.





■ Product Features

■ Arc shortening Rod

Uses an arc shortening rod to guide the arc to the fuse center, thus reducing gas movement and improving arc interruption

■ Single vent

With a limited fuse holder space, the single vent design will have higher pressure than double vent, that gives stronger ability to extinguishing the arc. Especially for those lower capacity areas with small overload, the stronger arc extinguishing ability is necessary.

■ Silver plated contacts

Eaton Cooper L Cutout top and low contacts both made of casting copper parts with silver plated that will extend largely the working life of the Cutout.



Stainless steel springs and pins

All the roll pin and springs are made of stainless steel, providing strong eroding proof ability. In those coast cities, the no stainless steel made pins and springs are very easy to erupted and make the lineman difficult to open and close the fuse holders. Even when the protection actions, the fuse holder can not drop out when it should be due to the poor pin or spring performance.

■ **Interchangeability**

Eaton Cooper fuseholders with interchangeability not only between Polymer Cutout and Porcelain, but also with other Manufactures like AB Chance type C ,S&C Type XS, ABB tyoe ICX.



Specification and Order Information

Maximum design Rating (kV)	Insulator	Catalog product number	Impulse withstand voltage (BIL)	Minimum 50/60Hz 1 min Dry withstand value /Wet10 second(kV,rms)	Current Rating (A)	Interrupting rating KA (rms)		Creepage distance (mm)	Weight (Kg)
						symmetrical	asymmetrical		
15kV	porcelain	L4BAP1A*	110	35/30	100	10.6	16	216	6.6
		L4B2P1A	110	35/30	200	8	12	216	6.8
	polymer	S4BAP1A	110	35/30	100	10.6	16	362	3.8
		S4B2P1A	110	35/30	200	8	12	362	3.9
27kV	porcelain	L9CAP1A	150/125	42/36	100	8	12	372	7.5
		L9C2P1A	150/125	42/36	200	8	10	372	7.8
	polymer	S9DAP1A	150/125	77/60	100	8	12	660	4.7
		S9D2P1A	150/125	70/60	200	8	10	660	4.9
38kV	porcelain	L9EAP1A*	200/170	80/70	100	8	12	720	15
	polymer	S9FAP1A	200/170	80/70	100	8	12	880/880+540*	13

Notes:* L4BAP1A has a creepage of 271mm and L9C2P1A 469 mm , L9EAP1A 677mm creepage are also available .
S9FAP1A has creepage of 1320mm with 880mm insulator +540mm standoff insulator.

Specification and order information of Loadbreak Cutout

Maximum design Rating (kV)	Insulator	Catalog number	Impulse withstand voltage (BIL)	Minimum 50/60Hz 1 min Dry withstand value /Wet10 second(kV,rms)	Current Rating (A)	Interrupting rating KA (rms)		Creepage distance Inches (mm)	Weight (Kg)
						symmetrical	asymmetrical		
12kV	porcelain	LB100A	150/125	62/47	100	12.5	-	14.6(372)	8.4
		LB200A	150/125	62/47	200	12.5	-	14.6(372)	8.8
	polymer	SLB100A	150/125	62/47	100	12.5	-	14.6(372)	5.8
		SLB200A	150/125	62/47	200	12.5	-	14.6(372)	6.3

Fuse Holders

100A Fuse Holder

The Eaton Cooper Type L Cutout accommodates standard IEEE-NEMA universal type fuse links. This fuseholder can handle universal links up to 100A.

An arc shortening rod can be used to obtain the higher interrupting current ratings. The arc shortening rod is made of silver plated high conductivity copper and is attached to the fuse cap. Removal buttonhead fuse links must be be used with arc shortening rod.

The 100A fuseholder features a spring assist which helps clear the fuseholder under low current operations. It also comes standard with a 9/16" bolt for easy leader installation.



200A fuse holder

This fuse holder can handle universal links above 100A up to 200A and is fully rated for 15.5kV or 27kV voltage ratings.

The 200A door standard with an arc shortening rod. The arc shortening rod is made of silver plated, high conductivity copper and is attached to the fuse cap. Removal buttonhead fuse links must be used with arc shortening rod.

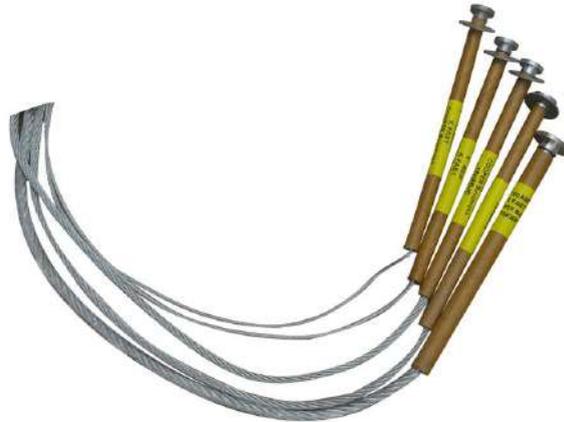
The 200A fuseholder features a spring assist which helps clear the fuseholder under low current operations. It also comes standard with a 9/16" bolt for easy leader installation.



Certificates :

■ Fuse Link

Eaton Cooper also offers the Bussmann ©Fuse links from 1A to 100A K type.

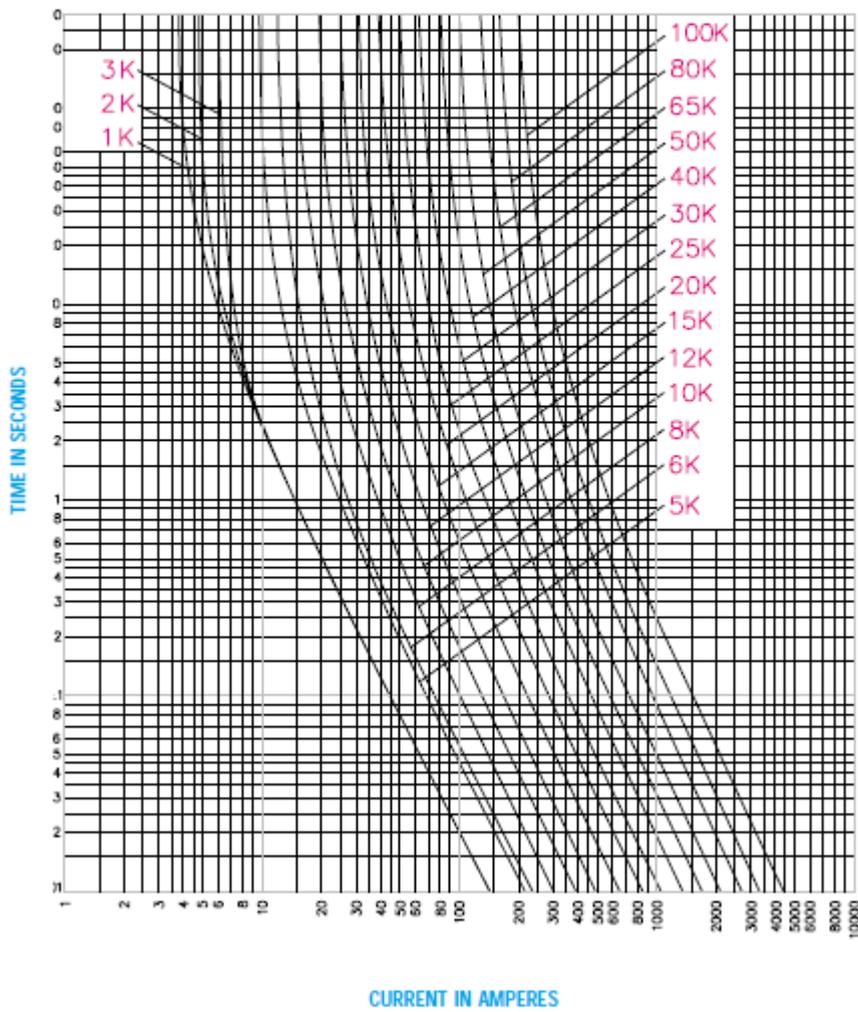


Eaton Cooper Fuse links with a removable button which can connect with the arc short-ening rod inside the fuse holders. The critical element is made of silver alloy providing timely melting point, a strengthen steel line help to sustain the forces of installation is also helpful for lineman.

Accurate time current curve is featured by Bussmann fuse link for the engineers to chose a correct suitable rate to protect the devices on the line.

TIME CURRENT CHARACTERISTICS FOR TYPE 'K' EXPULSION LINKS

CURVES RELATE TO MINIMUM MELTING TIMES WITH VARIATIONS BEING PLUS ON CURRENT



Certificates:

TYPE TEST CERTIFICATE

Of Full Test Program

Issued to:

Client:

Cooper Electronic Technologies (Shanghai) Co., Ltd
No.955 Shengli Road, East Area of ZJ High-Tech
Park, Pudong, Shanghai, China

Manufacturer:

Cooper Electronic Technologies (Shanghai) Co., Ltd
No.955 Shengli Road, East Area of ZJ High-Tech
Park, Pudong, Shanghai, China

Object	27kV 100A Drop-out fuse
Trade name	EATON
Type(s)	S9DAP1A
Ratings	Rated Voltage : 27 kV
	Rated Current : 100 A
	Rated Breaking Capacity : 8 kA
	Frequency : 50 / 60 Hz
	Classification : Class A

DEKRA hereby declares that the above-mentioned object has been tested on the basis of:

- constructed in accordance with the description, drawings, photographs and tests as laid down in Type Test Report no. 2600410.01-MHV
- The type tests were conducted under consideration of:
 - IEC 60282-2 (2008), clause 8.4, 8.5, 8.6, 8.7.2.2, 8.8, and 8.9;
 - STL guide to the Interpretation of IEC 60282 Issue 2.0, 18th February 2021
 - Eaton Specification S105000016, 1st Sep 2021

Project documentation has been reviewed and approved by VEIKI-VNL, a DEKRA company, which is a Member of the Short-Circuit Testing Liaison (STL).

This Certificate applies only to the object(s) tested. The responsibility for conformity of any object having the same designations with the object(s) tested rests with the manufacturer.

This certificate is issued on: 12 December 2021 consists of 1 page(s) in total.

Certificate number: 2600410.100-MHV

DEKRA Certification B.V.



B.T.M. Holtus
Managing Director



H.L. Schendstok
Certification Manager

© Integral publication of this certificate is allowed



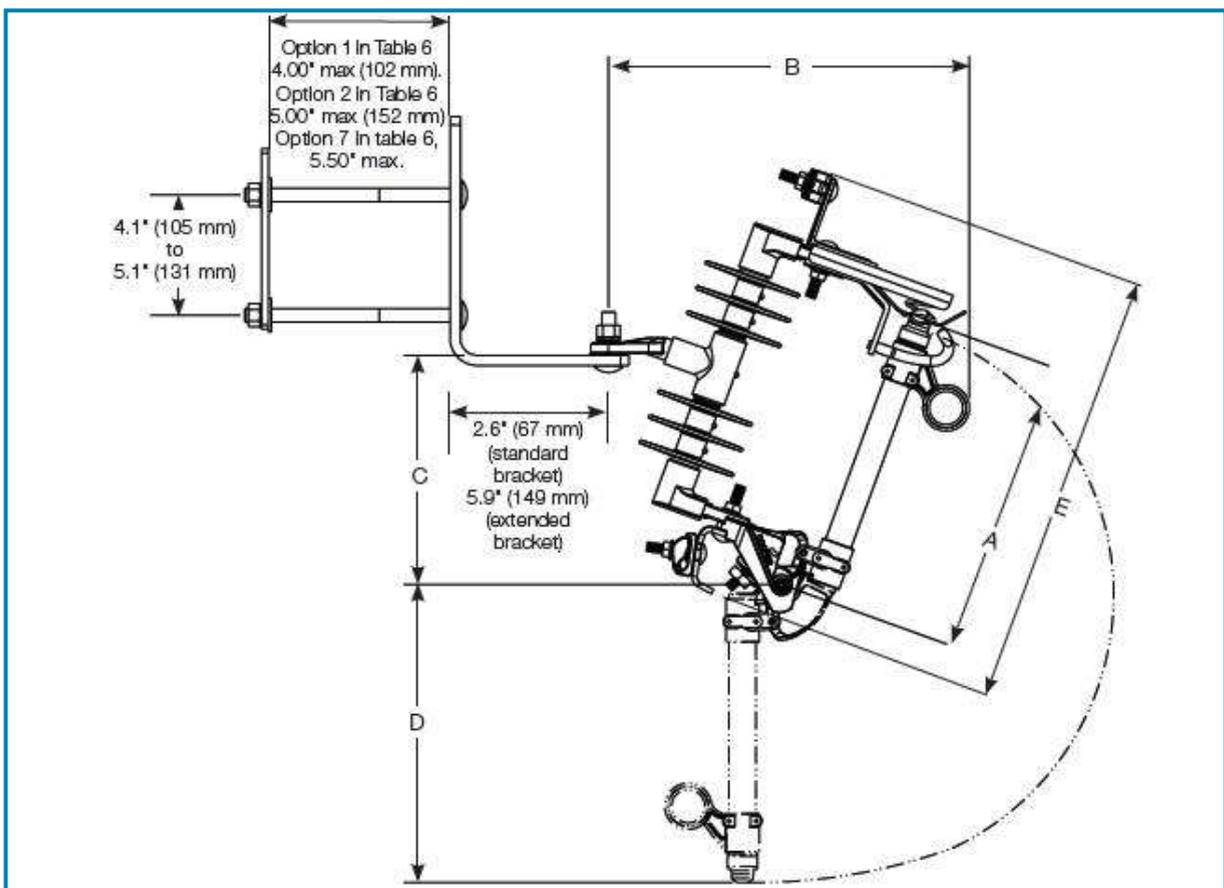
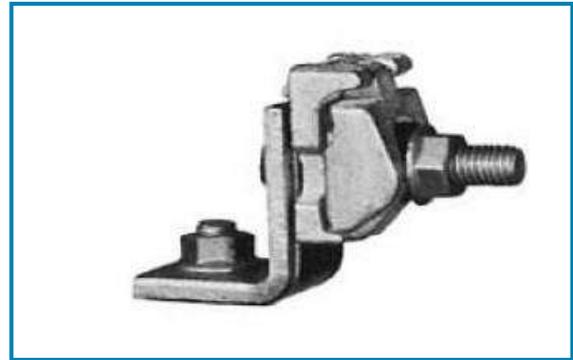
DEKRA Certification B.V. Meander 1051, 6625 MJ Arnhem P.O. Box 5185, 6802 ED Arnhem The Netherlands
T +31 88 98 83000 F +31 88 98 83100 www.dekra-certification.com Registered Arnhem 09085398

Installation

Connector/Brackets

Eaton Cooper Type L Cutout includes a brass parallel groove connector .

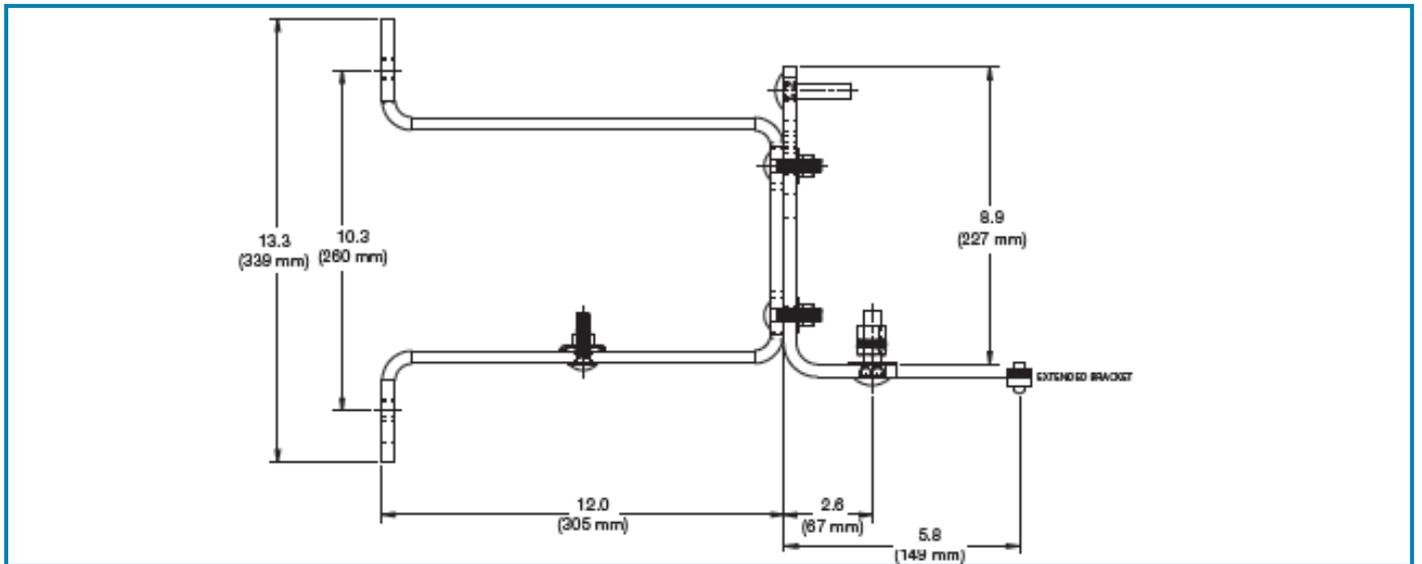
Eaton Cooper Type L Cutout crossarm mounting includes a heavy-duty NEMA Type B crossarm mounting bracket to withstand the mechanical forces generated during fault current interruptions when using an expulsion fuse link. An extended crossarm mounting bracket option is also available.

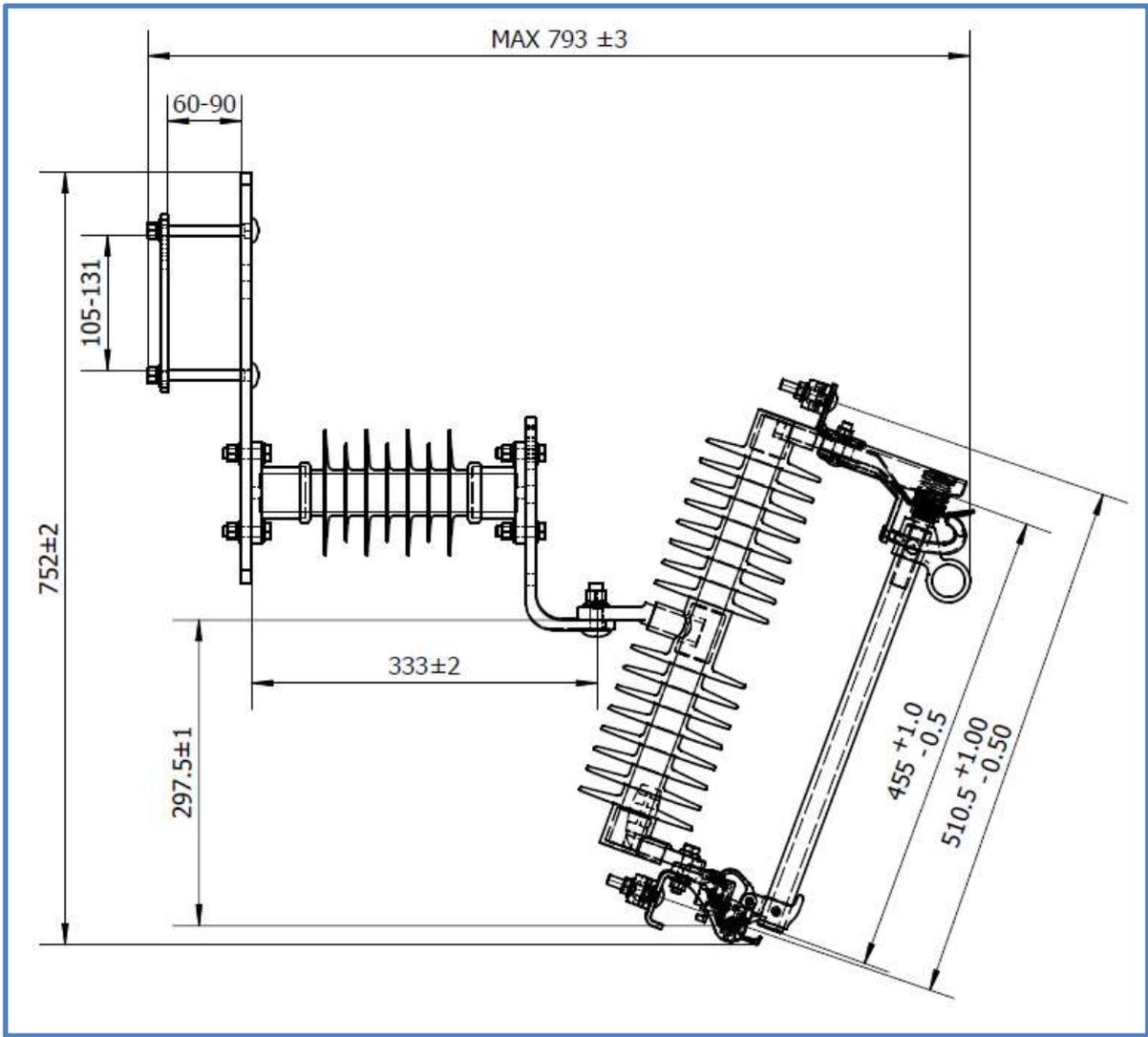


Cooper Type L Cutout Dimension Data

Cooper Type L Cutout Dimension Data

Voltage rating	BIL kV	Dimensions (mm)					Creepage Distance (mm)	
		A	B	C	D	E	Polymer	porcelain
15.5	110	288	343	207	292	414	362	216
27	125	374	358	257	379	498	566-	372
	150		363				660	432
38	200	467	343	305	472	564	-	720
38	200	464	361	297	463	555	880	-





Eaton is a power management company with 2015 sales of \$20.9 billion. Eaton provides energy-efficient solutions that help our customers effectively manage electrical, hydraulic and mechanical power more efficiently, safely and sustainably. Eaton has approximately 97,000 employees and sells products to customers in more than 175 countries. For more information, visit www.eaton.com.cn



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