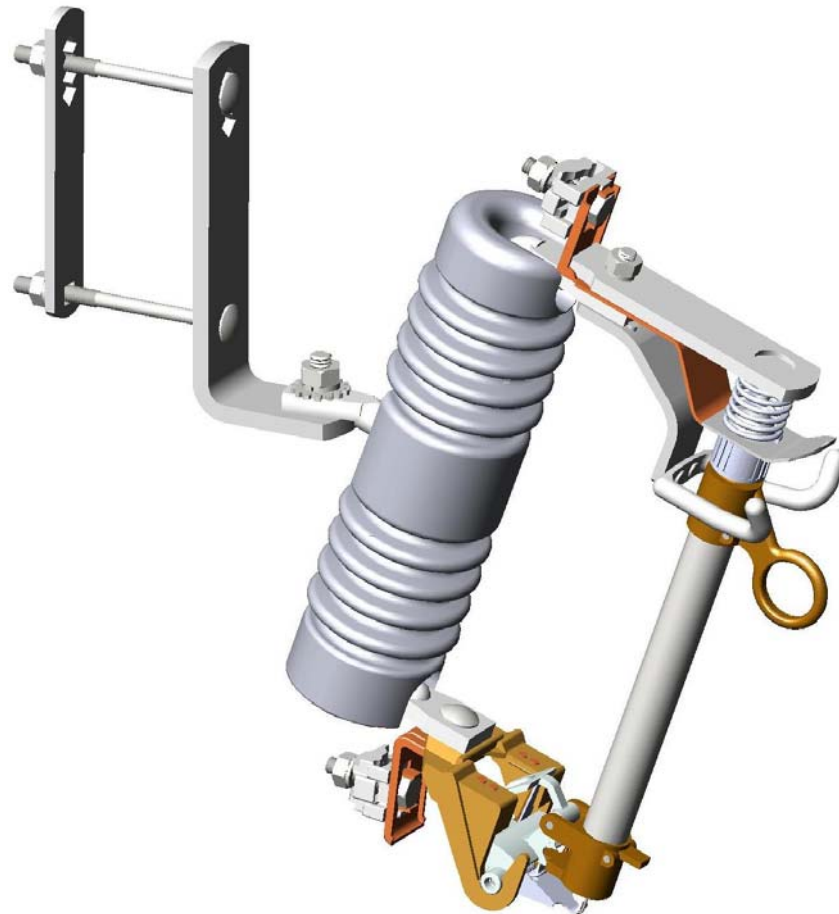


TYPE "MZ" STANDARD CUTOUT DISTRIBUTION



The Fuse Cutout type MZ was developed to operate in overhead distribution systems rated at 15 kV and 27 kV or 38 kV grounded systems with 100 or 200 A nominal currents.

Especially designed to protect transformers, capacitors, cables or lines.

It is robust construction, made of rigorously tested material, will interrupt all faults under the most severe conditions, maintaining mechanical and electric characteristics.

The inserts, hardware and structural bolts and nuts are made from heavy galvanized steel.

The Fuse Cutout type MZ can be applied on all three-phase system rated at or below the maximum operational rating of the cutout.

In highly polluted environments or environments with high levels of salinity, a cutout may be used with a higher nominal rating than that of the system where it is being installed, where the insulator will have a greater leakage distance to ground, allowing for increased safety against discharge. For an even better protection against abrasions, the hardware may be supplied in stainless steel. The fuse cutout type MZ has attachment hooks in aluminum.

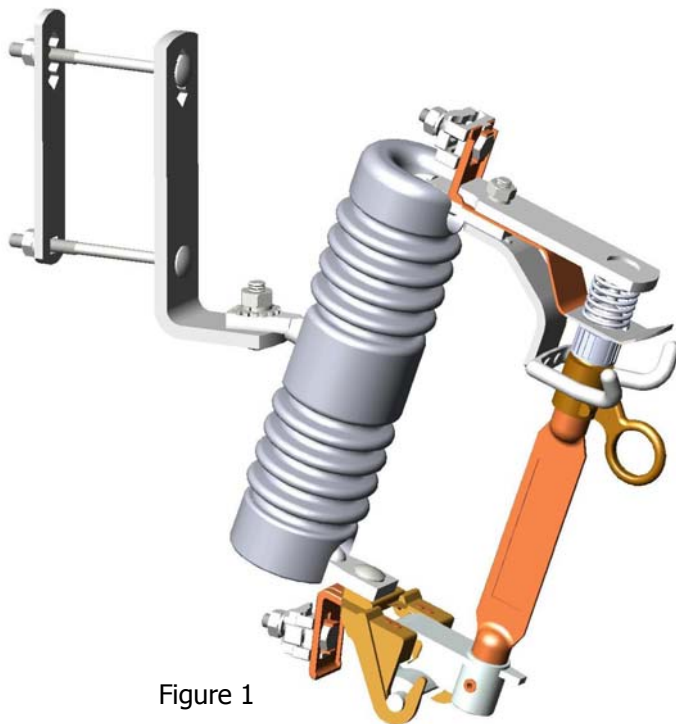


Figure 1

The Fuseholder has a stainless steel flipper, which associated with a spring doesn't allow the fuse link to be subject to traction forces of over 3 Kgf, especially during closing. This mechanism also allows for high speed fuse link separation. The fuse cutout type MZ allows for the insertion of the fuse tube in a precise manner and always in perfect alignment, due to the large distance between the trunnion pocket. Lower contact, silver-to-silver, provide dual current path, independent of hinge pivot. Stainless-steel back-up springs prevent arcing when tube rises in hinge during recoil. The fuse cutout type MZ may be transformed into a DI-CONNECT up to 300 A, by simply changing the fuse tube for an electrolytic copper blade. **(See Figure 1)**

The Maurizio Fuse Cutouts conform to ANSI and IEC standards, with independent tests performed At:
CEPEL - Centro de Pesquisas de Energia Elétrica (Rio de Janeiro - Brazil)
IEE - Instituto de Eletrotécnica e Energia (São Paulo - Brazil)

Always use quality fuse links. Only they can assure excellent performance.

SPECIFICATIONS

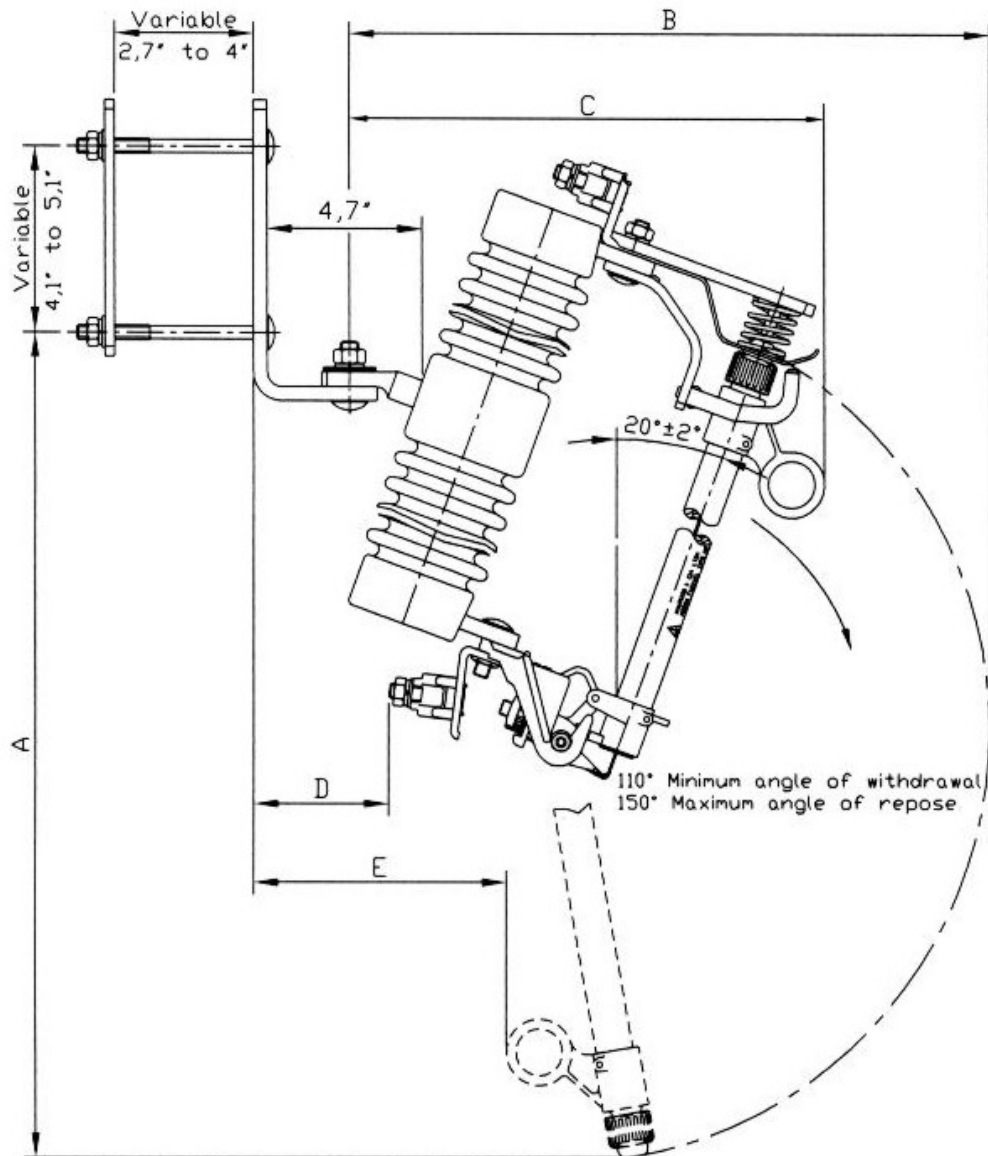
System Voltage, kV	Rating						Leakage Distance to Ground Minimum, Inches (mm)
	kV			Amperes, RMS			
	Nom.	Max	BIL	Cont.	Interrupting (60Hz)		
Sym.					Asym.		
13.8 thru 15	13.8	15	110	100	7,100	10,000	8¾ (225)
				100	10,600*	16,000*	8¾ (225)
				200	8,000*	12,000*	8¾ (225)
15 thru 25	24,2	27	125	100	5,600	8,000	12½ (320)
				100	8,000*	12,000*	12½ (320)
				200	7,100*	10,000*	12½ (320)
			150	100	5,600	8,000	17 (432)
				100	8,000*	12,000*	17 (432)
				200	7,100*	10,000*	17 (432)
			170	100	8,000*	12,000*	26 (660)
				200	7,100*	10,000*	26 (660)
				100	8,000*	12,000*	17 (432)
25** thru 34.5**	24.2	27	150	100	8,000*	12,000*	17 (432)
				200	7,100*	10,000*	17 (432)
			170	100	8,000*	12,000*	26 (660)
				200	7,100*	10,000*	26 (660)
Disconnect				Amperes, RMS			
				Cont.	Mom. Asym.		
13.8 thru 15	13.8	15	110	300	16,000		8¾ (225)
15 thru 25	24,2	27	125	300	12,000		12½ (320)
			150	300	12,000		17 (432)
25** thru 34.5**	24,2	27	150	300	12,000		17 (432)
			170	300	12,000		26 (660)

* Uses removable buttonhead fuse links only.

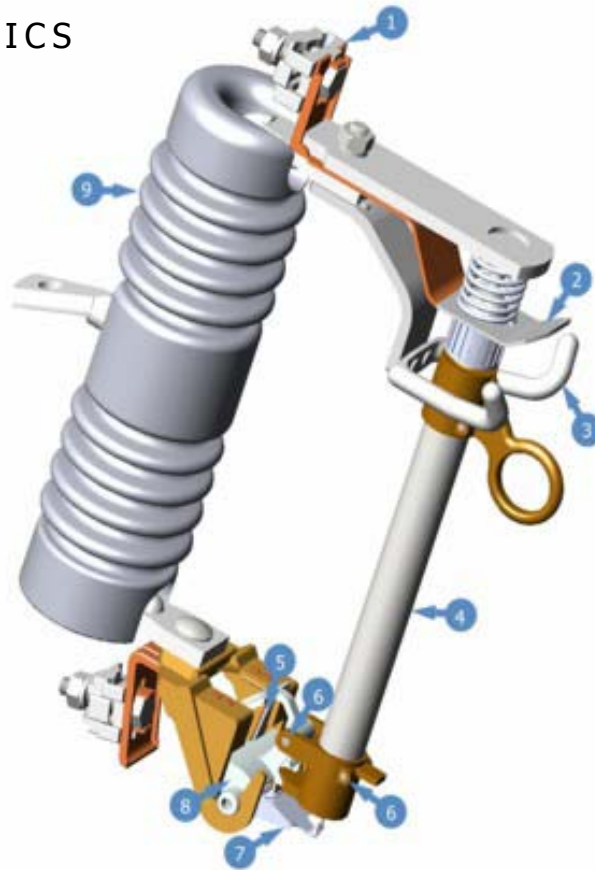
** Applicable for protection of single-phase-to-neutral circuits (lines or transformers) only, and grounded-wye connected capacitor banks in solidly grounded-neutral (multigrounded-neutral) systems.

Standard Cutout Type MZ

KV BIL	Dimensions in Inches (mm)					Net Weight, Lbs (kg)
	A	B	C	D	E	
110	22 (560)	17 (428)	12¼ (310)	3½ (89)	4½ (114)	13¼ (6)
125	27 (685)	19¾ (500)	13¼ (336)	3 (76)	4¾ (120)	15¾ (7.2)
150	27 (685)	19¾ (500)	13¼ (336)	3 (76)	4¾ (120)	21 (9.5)
170	33¾ (855)	20¾ (525)	13¾ (350)	1¾ (45)	3¾ (95)	28 (12.7)



CHARACTERISTICS



1- Parallel Connector – Made of tinned bronze for cables from 8 AWG to 4/0 ACSR. To ease the connection, it can accommodate two conductors with different size in a single connector. Also available in other models.

2- Upper Contact – Silver to silver; stainless steel springs offers high contact pressure.

3- Attachment Hooks – Used as tool support for energized opening as well as to guide the fuse tube during closing.

4- Fuse Tube – Vulcanized fiber covered with fiberglass and painted with a special UV resistant epoxy.

5- Lower Contacts – Silver to silver; non ferrous springs offer high contact pressure




6- Toggle-joint – Stainless steel construction.




7- Flipper – Stainless steel construction; in conjunction with the toggle joint allows, especially during closing, the fuse link to be subject to traction forces of over 3 Kgf; it also allows for high speed fuse link separation.




8- Trunnion – Silver plated high strength cast bronze construction; it assists the fuse tube alignment during closing.

9- Insulator – High strength porcelain in accordance with ANSI, IEC.




MODELS




Nominal Current		15 kV
BIL		110 kV
Leakage Distance to Ground Minimum, Inches (mm)		8 ³ / ₄ (225)
		
Fuseholder		Disconnect
100 A	200 A	300 A

Nominal Current		Thru 27 kV
BIL		125 kV
Leakage Distance to Ground Minimum, Inches (mm)		12 ¹ / ₂ (320)
		
Fuseholder		Disconnect
100 A	200 A	300 A

Nominal Current		Thru 38 kV
BIL		150 kV
Leakage Distance to Ground Minimum, Inches (mm)		17" (432)
		
Fuseholder		Disconnect
100 A	200 A	300 A

MODELS

Nominal Current		Thru 38 kV
BIL		150 kV
Leakage Distance to Ground Minimum, Inches (mm)		21"½ (550)
		
100 A	200 A	300 A

Nominal Current		Thru 38 kV
BIL		170 kV
Leakage Distance to Ground Minimum, Inches (mm)		26" (660)
		
100 A	200 A	300 A