

7801 Park Place Rd. York, SC 29745 USA (803) 628-2100

Braced Post Insulator Assembly

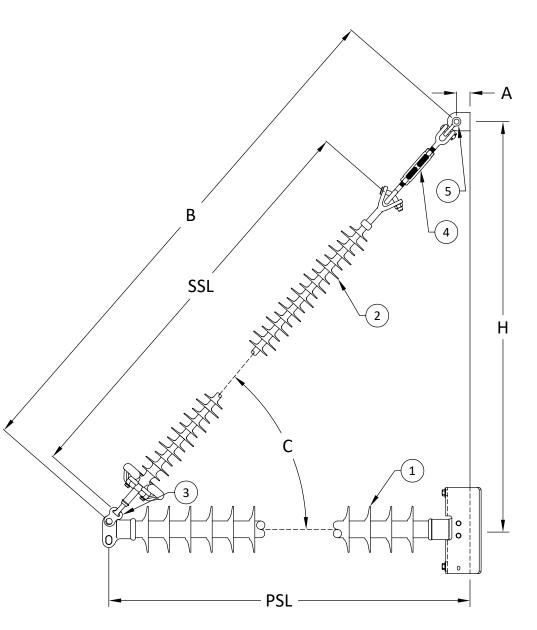
B2911054T12059MA

1) H2 91 10 043 MX SS 022	[1]
2) S1 40 80 042 MA AL 027	[1]
3) Socket/Y-Clevis (SYC-56)	[1]
4) Turnbuckle (G-227-NBC-3/4x6C)	[1]
5) Shackle (ASH-55-BC)	[1]

ASSEMBLY DIMENSIONAL VALUES

54.0 in	1,372 mm				
54.0 in	1,372 mm				
59.0 in	1,499 mm				
77.7 in	1,974 mm				
2.0 in	51 mm				
	48 Degrees				
39.9 in	1,013 mm				
116.7 in	2,964 mm				
ASSEMBLY ELECTRICAL VALUES*					
383 kV	(360) kV				
355 kV	(278) kV				
660 kV	(590) kV				
742 kV	(628) kV				
bly					
ASSEMBLY MECHANICAL VALUES					
9,289 lbs	41.3 kN				
	54.0 in 59.0 in 77.7 in 2.0 in 39.9 in 116.7 in JES* 383 kV 355 kV 660 kV 742 kV				

This drawing contains confidential information that is the property of MacLean Power, L.L.C. ("MacLean"). Use of MacLean's confidential information without MacLean's express written consent is strictly prohibited and may expose you to legal liability. If you believe that you received this material in error, please destroy it or return it to "MacLean Power, L.L.C., 7801 Park Place Rd., York, South Carolina 29745, USA."





7801 Park Place Rd. York, SC 29745 USA (803) 628-2100

MPS Catalog Number

H2 91 10 043 MX SS 022 Date: 04/13/2022

End Fittings

Tower End Fitting:

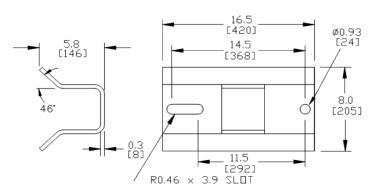
•

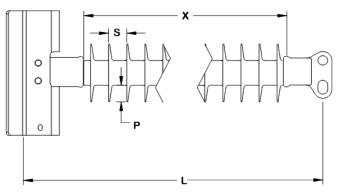
Gain / 0 deg / Steel

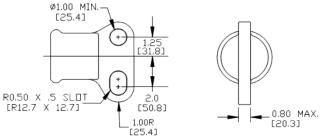
Line End Fitting:

2 HL Drop Tongue / Galv. Ductile Iron

Materia	I			
Corona Ring (Line):				None
Corona Rings are recommended for	applications of 230 kV a	and abo	ve	
Mounting Angle:			0	deg
Number of Sheds:			22	
Rod Diameter:			2.5	in
Weight Estimate:	58	lbs	26	kg
Dimensional V	Values			
Section Length (L):	54	in	1,372	mm
Rubber Length (X):	43	in	1,092	mm
Shed spacing (S):	1.95	in	50	mm
Shed Projection (P):	1.86	in	47	mm
Dry Arc Distance:	45.1	in	1,145	mm
Leakage Distance:	116.7	in	2,965	mm
Electricals V	alues			
60 Hz dry Flashover (Min. Withstand):	429	kV	403	kV
60 Hz Wet Flashover (Min. Withstand):	398	kV	313	kV
CIFO Positive (Min. Withstand):	742	kV	662	kV
CIFO Negative (Min. Withstand):	809	kV	701	kV
Mechanical \	/alues			
Max. Design Cant. Load (MDCL):	1,706	lbs	7.6	kN
Specified Cant. Load (SCL):	3,412	lbs	15.2	kN
Specified Tensile Load (STL):	15,000	lbs	66.7	kN







Dimension: inches [millimeters]

NOTE: Drawing not actual depiction of insulator appearance.

Silicone rubber sheath and sheds complies with applicable ANSI and IEC standards.

This drawing contains confidential information that is the property of MacLean Power, L.L.C. ("MacLean"). Use of MacLean's confidential information without MacLean's express written consent is strictly prohibited and may expose you to legal liability. If you believe that you received this material in error, please destroy it or return it to "MacLean Power, L.L.C., 7801 Park Place Rd., York, South Carolina 29745, USA."

Notes:

Prepared By: Stephen Lucci



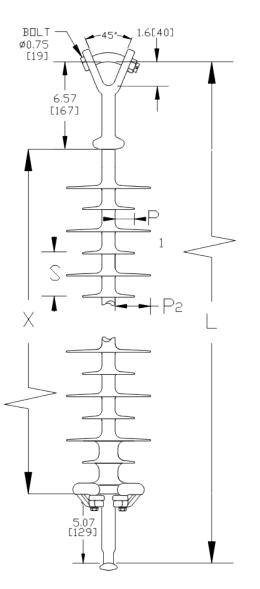
MPS Catalog Number

7801 Park Place Rd. York, SC 29745 USA (803) 628-2100

S1 40 80 042 MA AL 027 Date: 04/01/2022

End Fittings Y-Clevis / Forged Steel **Tower End Fitting:** Ball / Forged Steel Line End Fitting: / (ANSI 52-5) Material Corona Ring (Line): 8" Corona Ring Corona Rings are recommended for applications of 230 kV and above Number of Sheds: 13 large 14 standard Rod Diameter: 16 mm Weight Estimate: 12.1 lbs 6 kg **Dimensional Values** 1,372 mm Section Length (L): 54 in Rubber Length (X): 42 in 1,067 mm Standard Shed Height (P1): 1.5 in 38 mm Large Shed Height (P2): 2 in 51 mm Projection Ration (S/P): -1.5 Shed Spacing (S): 76 mm 3 in Dry Arc Distance: 42.2 in 1,072 mm Leakage Distance: 121.8 in 3,094 mm

Electricals Values				
60 Hz dry Flashover (Min. Withstand):	416	kV	386	kV
60 Hz Wet Flashover (Min. Withstand):	374	kV	325	kV
CIFO Positive (Min. Withstand):	716	kV	620	kV
CIFO Negative (Min. Withstand):	761	kV	666	kV
Mechanical Values				
Specified Mech. Load (SML):	25,000	lbs	111.2	kΝ
Routine Test Load (RTL):	12,500	lbs	55.6	kΝ



Dimension: inches [millimeters]

NOTE: Drawing not actual depiction of insulator appearance.

Silicone rubber sheath and sheds complies with applicable ANSI and IEC standards.

This drawing contains confidential information that is the property of MacLean Power, L.L.C. ("MacLean"). Use of MacLean's confidential information without MacLean's express written consent is strictly prohibited and may expose you to legal liability. If you believe that you received this material in error, please destroy it or return it to "MacLean Power, L.L.C., 7801 Park Place Rd., York, South Carolina 29745, USA."

