

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

## Braced Post Insulator Assembly

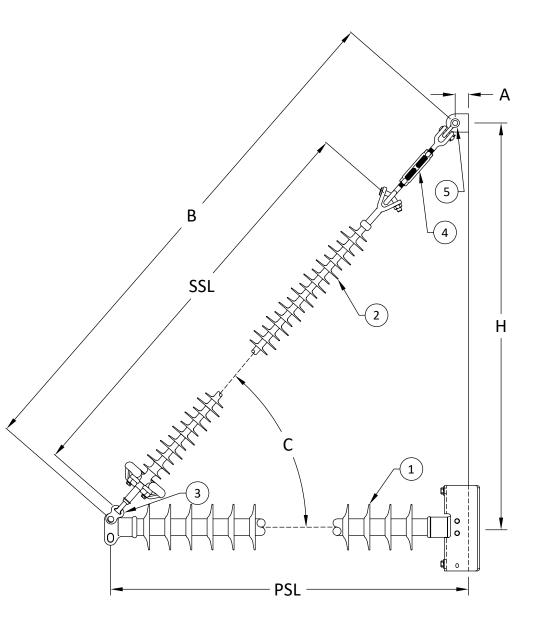
## B2911093T12084AA

1) H2 91 10 082 AX SS 032	[1]
2) S1 40 80 078 MA AL 051	[1]
3) Socket/Y-Clevis (SYC-56)	[1]
4) Turnbuckle (G-227-NBC-3/4x12C)	[1]
5) Shackle (ASH-55-BC)	[1]

## ASSEMBLY DIMENSIONAL VALUES

Post Section Length (PSL)	93.1 in	2,365 mm			
Suspension Section Length (SSL)	89.9 in	2,283 mm			
Height of Assembly (H)	84.0 in	2,134 mm			
Length of Brace (B)	123.0 in	3,124 mm			
Upper Pole Connection Offset (A)*	2.0 in	51 mm			
Angle Between Insulators (C)		42 Degrees			
Dry Arc Distance	78.1 in	1,984 mm			
Leakage Distance	226.0 in	5,740 mm			
*This connection bracket to be supplied by customer					
ASSEMBLY ELECTRICAL VALUES*					
60 Hz Dry F.O. (Min. Withstand)	716 kV	(672) kV			
60 Hz Wet F.O. (Min. Withstand)	651 kV	(527) kV			
CIFO+ (Min. Withstand)	1,257 kV	(1,107) kV			
CIFO- (Min. Withstand)	1,284 kV	(1,158) kV			
*Values shown are based on minimum electicals for the assembly					
ASSEMBLY MECHANICAL VALUES					
Maximum Working Vertical Load	8,405 lbs	37.4 kN			

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MPS Catalog Number:

Date:

End Fittings

Tower End Fitting:

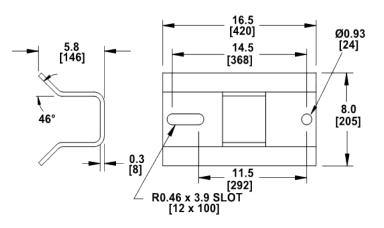
Line End Fitting:

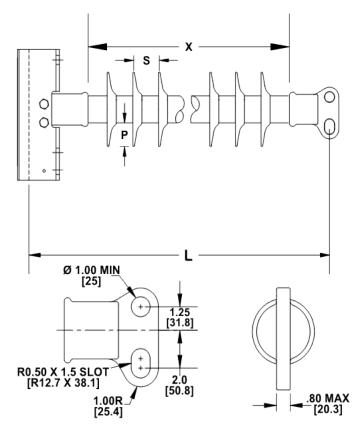
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Gain / 0 deg / Steel Anchor / Ductile Iron 2 HL Drop Tongue / Galv. Ductile Iron

Corona Ring (Tower):				
				None
Corona Ring (Line):				None
Corona Rings are recommended for applications of	230 kV a	and above		
Mounting Angle:			0	deg
Number of Sheds:			32	
Rod Diameter:			2.5	in
Weight Estimate:	96.1	lbs	44	kg
Dimensional Values				
Section Length (L):	93.1	in	2,365	mm
Rubber Length (X):	82	in	2,083	mm
Shed spacing (S):	2.5	in	64	mm
Shed Projection (P):	2.4	in	61	mm
Dry Arc Distance:	84.9	in	2,156	mm
Leakage Distance:	226	in	5,740	mm
Electricals Values				
60 Hz dry Flashover (Min. Withstand):	773	kV	726	kV
60 Hz Wet Flashover (Min. Withstand):	700	kV	569	kV
CIFO Positive (Min. Withstand):	1360	kV	1196	kV
CIFO Negative (Min. Withstand):	1382	kV	1250	kV
Mechanical Values				
Max. Design Cant. Load (MDCL):	946	lbs	4.2	kN
Specified Cant. Load (SCL):	1,892	lbs	8.4	kN
Specified Tensile Load (STL):	15,000	lbs	66.7	kN





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Dimension: inches [millimeters]

NOTE: Drawing not actual depiction of insulator appearance.

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

Prepared By: Stephen Lucci

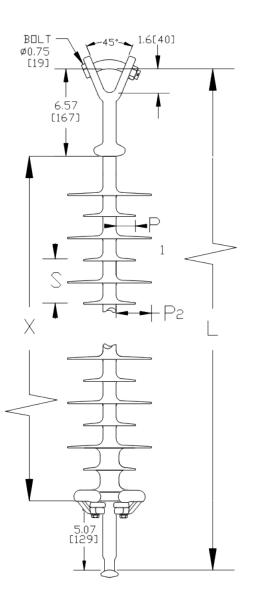


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**S1 40 80 078 MA AL 051** Date: 04/11/2022

**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: 25 large 26 standard Rod Diameter: 16 mm Weight Estimate: 17.1 lbs 8 kg Dimensional Values Section Length (L): 89.9 in 2,283 mm 78 in Rubber Length (X): 1,981 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): 3 in 76 mm Dry Arc Distance: 78.1 in 1,984 mm 231.6 in Leakage Distance: 5,883 mm **Electricals Values** 60 Hz dry Flashover (Min. Withstand): 758 kV 686 kV 60 Hz Wet Flashover (Min. Withstand): 651 kV 567 kV CIFO Positive (Min. Withstand): 1,264 kV 1,125 kV CIFO Negative (Min. Withstand): 1,323 kV 1,183 kV **Mechanical Values** Specified Mech. Load (SML): 25,000 lbs 111.2 kN Routine Test Load (RTL): 12.500 lbs 55.6 kN



Dimension: inches [millimeters]

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