

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

# Braced Post Insulator Assembly B2901068T12077AX

1) H2 90 10 058 AX SS 022	[1]
2) S1 40 80 054 MX AL 035	[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

Post Section Length (PSL)	68.0 in	1,727 mm
Suspension Section Length (SSL)	66.0 in	1,676 mm
Height of Assembly (H)	77.0 in	1,956 mm
Length of Brace (B)	89.9 in	2,283 mm
Upper Pole Connection Offset (A)*	2.0 in	51 mm
Angle Between Insulators (C)		55 Degrees
Dry Arc Distance	56.7 in	1,440 mm
Leakage Distance	157.0 in	3,988 mm

<sup>\*</sup>This connection bracket to be supplied by customer

## ASSEMBLY ELECTRICAL VALUES\*

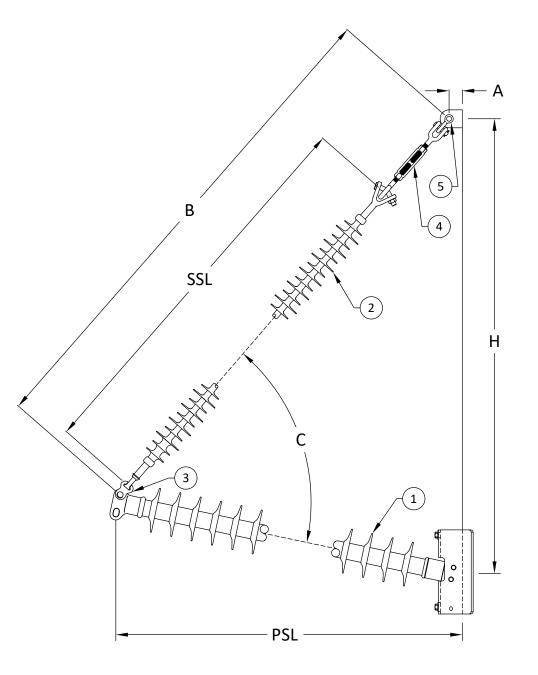
60 Hz Dry F.O. (Min. Withstand)	532 kV	(499) kV
60 Hz Wet F.O. (Min. Withstand)	491 kV	(391) kV
CIFO+ (Min. Withstand)	926 kV	(821) kV
CIFO- (Min. Withstand)	970 kV	(864) kV

<sup>\*</sup>Values shown are based on minimum electicals for the assembly

#### ASSEMBLY MECHANICAL VALUES

Maximum Working Vertical Load	d 10.522 lbs	46.8 kN

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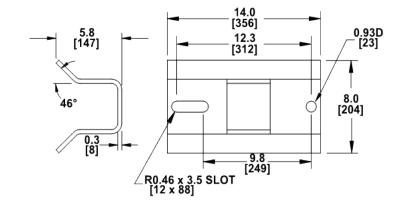


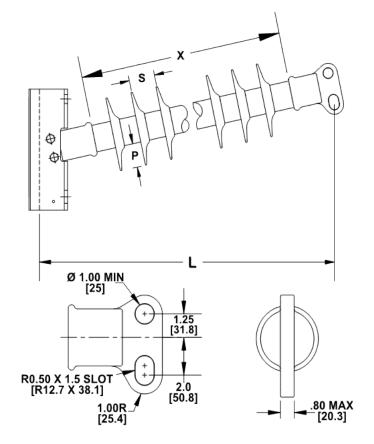


7801 Park Place Rd. York, SC 29745 USA (803) 628-2100

H2 90 10 058 AX SS 022 MPS Catalog Number: Date: 03/28/2022 **End Fittings** Gain / 12 deg / Steel Tower End Fitting: Anchor / Ductile Iron 2 HL Drop Tongue / Galv. Ductile Iron Line End Fitting: **Material** Corona Ring (Tower): None Corona Ring (Line): None Corona Rings are recommended for applications of 230 kV and above Mounting Angle: 12 deg 22 Number of Sheds: 2.5 in Rod Diameter: 78.7 lbs Weight Estimate: 36 kg **Dimensional Values** Section Length (L): 68 in 1,727 mm 58 in Rubber Length (X): 1,473 mm Shed spacing (S): 2.5 in 64 mm 2.4 in Shed Projection (P): 61 mm 60.9 in Dry Arc Distance: 1,547 mm 157 in Leakage Distance: 3,988 mm **Electricals Values** 60 Hz dry Flashover (Min. Withstand): 568 kV 533 kV 523 kV 60 Hz Wet Flashover (Min. Withstand): 418 kV CIFO Positive (Min. Withstand): 992 kV 878 kV CIFO Negative (Min. Withstand): 1032 kV 923 kV **Mechanical Values** Max. Design Cant. Load (MDCL): 1.313 lbs 5.8 kN Specified Cant. Load (SCL): 2,626 lbs 11.7 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.



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**MPS Catalog Number** 

## S1 40 80 054 MX AL 035

Date: 03/28/2022

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End Fittings				
Tower End Fitting:	١	/-Clevis /	Forged	Steel
Line End Fitting:		Ball /	Forged	
			/ (ANSI	52-5)
Material				
Corona Ring (Line):			ı	None
Corona Rings are recommended for applications	of 230 kV ar	nd above		
Number of Sheds:	17 large		18 star	ndard
Rod Diameter:			16	mm
Weight Estimate:	11.6	lbs	5	kg
Dimensional Values				
Section Length (L):	66	in	1,676	mm
Rubber Length (X):	54	in	1,372	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:	56.7	in	1,440	mm
Leakage Distance:	158.4	in	4,023	mm
Electricals Values				
60 Hz dry Flashover (Min. Withstand):	554	kV	510	kV
60 Hz Wet Flashover (Min. Withstand):	491	kV	427	kV
CIFO Positive (Min. Withstand):	942	kV	824	kV
CIFO Negative (Min. Withstand):	994	kV	875	kV
Mechanical Values				
Specified Mech. Load (SML):	25,000	lbs	111.2	kN
Routine Test Load (RTL):	12,500	lbs	55.6	kN

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[19] 6.57 [167]

Dimension: inches [millimeters]

NOTE: Drawing not actual depiction of insulator appearance.

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Notes: Prepared By: Stephen Lucci

