

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

Braced Post Insulator Assembly B2911085T12084AA

1) H2 91 10 070 AX SS 027	[1]
2) S1 40 80 066 MA AL 043	[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)	85.1 in	2,162 mm
Suspension Section Length (SSL)	84.0 in	2,134 mm
Height of Assembly (H)	84.0 in	2,134 mm
Length of Brace (B)	117.3 in	2,979 mm
Upper Pole Connection Offset (A)*	2.0 in	51 mm
Angle Between Insulators (C)		44 Degrees
Dry Arc Distance	70.8 in	1,798 mm
Leakage Distance	204.5 in	5,194 mm

^{*}This connection bracket to be supplied by customer

ASSEMBLY ELECTRICAL VALUES*

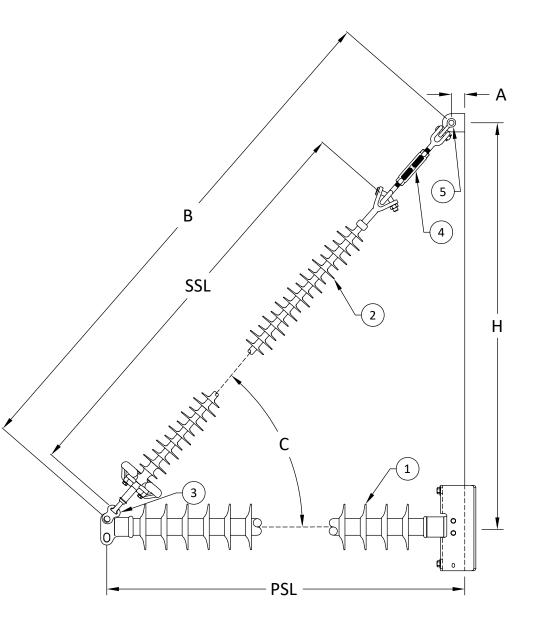
60 Hz Dry F.O. (Min. Withstand)	654 kV	(614) kV
60 Hz Wet F.O. (Min. Withstand)	598 kV	(482) kV
CIFO+ (Min. Withstand)	1,145 kV	(1,011) kV
CIFO- (Min. Withstand)	1,178 kV	(1,059) kV

^{*}Values shown are based on minimum electicals for the assembly

ASSEMBLY MECHANICAL VALUES

Maximum Working Vertical Load	8.820 lbs	39.2 kN

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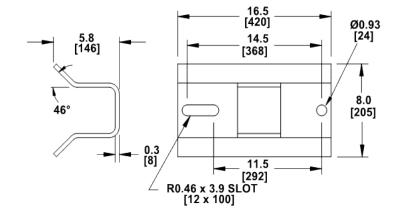


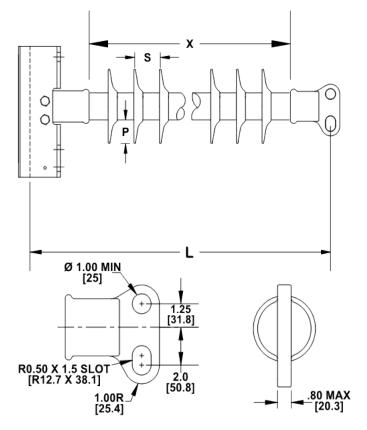


7801 Park Place Rd. York, SC 29745 USA (803) 628-2100

H2 91 10 074 AX SS 029 MPS Catalog Number: Date: 05/03/2022 **End Fittings** Gain / O 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: 0 deg 29 Number of Sheds: Rod Diameter: 2.5 in Weight Estimate: 90.5 lbs 41 kg **Dimensional Values** Section Length (L): 85.1 in 2,162 mm 74 in Rubber Length (X): 1,880 mm Shed spacing (S): 2.5 in 64 mm 2.4 in Shed Projection (P): 61 mm 76.9 in Dry Arc Distance: 1,953 mm 204.5 in Leakage Distance: 5,194 mm **Electricals Values** 60 Hz dry Flashover (Min. Withstand): 706 kV 662 kV 643 kV 60 Hz Wet Flashover (Min. Withstand): 520 kV CIFO Positive (Min. Withstand): 1239 kV 1092 kV CIFO Negative (Min. Withstand): 1267 kV 1142 kV **Mechanical Values** 4.6 kN Max. Design Cant. Load (MDCL): 1.028 lbs Specified Cant. Load (SCL): 2,056 lbs 9.1 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.

Notes:



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MPS Catalog Number

S1 40 80 072 MA AL 047

Date: 04/11/2022

		Date.	0-7/11/	2022
End Fittings				
Tower End Fitting:	Υ	/-Clevis	/ Forged	Steel
Line End Fitting:		Ball	/ Forged	
			/ (ANSI	52-5)
Material				
Corona Ring (Line):			8" Corona	Ring
Corona Rings are recommended for application	ns of 230 kV ar	nd abov	е	
Number of Sheds:	23 large		24 star	ıdard
Rod Diameter:			16	mm
Weight Estimate:	16.3	lbs	7	kg
Dimensional Values	.			
Section Length (L):	84	in	2,134	mm
Rubber Length (X):	72	in	1,829	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:	72.1	in	1,831	mm
Leakage Distance:	213.3	in	5,418	mm
Electricals Values				
60 Hz dry Flashover (Min. Withstand):	701	kV	637	kV
60 Hz Wet Flashover (Min. Withstand):	608	kV	529	kV
CIFO Positive (Min. Withstand):	1,175	kV	1,040	kV
CIFO Negative (Min. Withstand):	1,232	kV	1,097	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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Ø0.75 [19] 6.57 [167] 5.07 [129]

Dimension: inches [millimeters]

NOTE: Drawing not actual depiction of insulator appearance.

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

Notes: Prepared By: Stephen Lucci

