

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

Braced Post Insulator Assembly B2911050T12067MX

1) H2 91 10 039 MX SS 020	[1]
2) S1 40 80 037 MX AL 023	[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)	50.0 in	1,270 mm
Suspension Section Length (SSL)	48.2 in	1,224 mm
Height of Assembly (H)	67.0 in	1,702 mm
Length of Brace (B)	81.4 in	2,068 mm
Upper Pole Connection Offset (A)*	2.0 in	51 mm
Angle Between Insulators (C)		53 Degrees
Dry Arc Distance	38.8 in	986 mm
Leakage Distance	103.5 in	2,629 mm

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

ASSEMBLY ELECTRICAL VALUES*

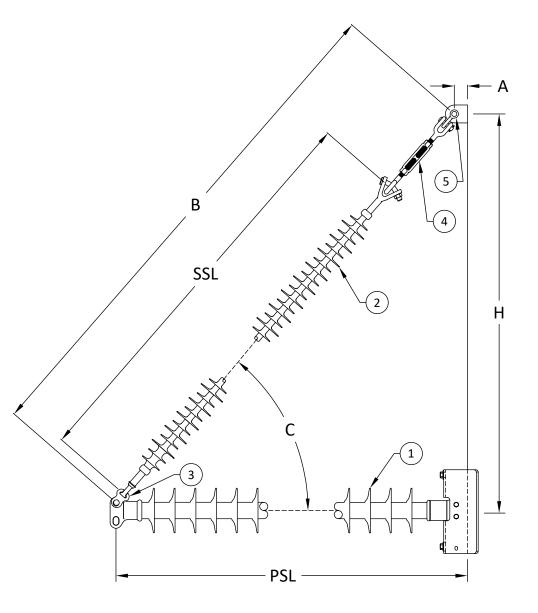
60 Hz Dry F.O. (Min. Withstand)	374 kV	(351) kV
60 Hz Wet F.O. (Min. Withstand)	346 kV	(271) kV
CIFO+ (Min. Withstand)	643 kV	(574) kV
CIFO- (Min. Withstand)	727 kV	(612) kV

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

ASSEMBLY MECHANICAL VALUES

	Maximum Working	Vertical Load	10.096 lbs	44.9 kN
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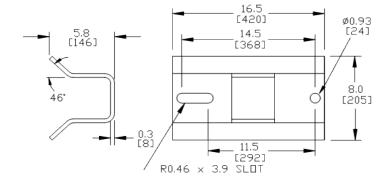
Date: 04/13/2022

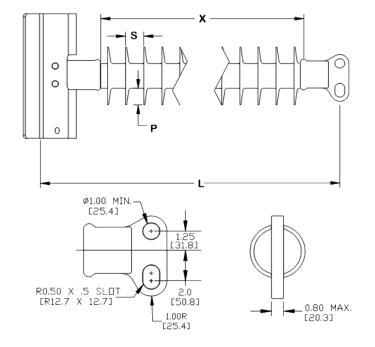
End Fittings Gain / O deg / Steel **Tower End Fitting:** 2 HL Drop Tongue / Galv. Ductile Iron Line End Fitting: Material Corona Ring (Line): None Corona Rings are recommended for applications of 230 kV and above Mounting Angle: 0 deg Number of Sheds: 20 Rod Diameter: 2.5 in Weight Estimate: 55.7 lbs 25 kg **Dimensional Values** Section Length (L): 1,270 mm 50 in Rubber Length (X): 39 in 991 mm Shed spacing (S): 1.95 in 50 mm Shed Projection (P): 1.86 in 47 mm 41.2 in Dry Arc Distance: 1,046 mm Leakage Distance: 106.1 in 2,696 mm **Electricals Values** 60 Hz dry Flashover (Min. Withstand): 395 kV 371 kV 287 kV 60 Hz Wet Flashover (Min. Withstand): 366 kV CIFO Positive (Min. Withstand): 680 kV 608 kV CIFO Negative (Min. Withstand): 759 kV 646 kV **Mechanical Values** Max. Design Cant. Load (MDCL): 1.871 lbs 8.3 kN Specified Cant. Load (SCL): 3,742 lbs 16.6 kN

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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.

Notes:

Specified Tensile Load (STL):

Prepared By: Stephen Lucci



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Date: 03/23/2022

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End Fittings				
Tower End Fitting:	١	Y-Clevis / Forged Steel		
Line End Fitting:	Ball / Forged Steel			Steel
			/ (ANSI	52-5)
Material				
Corona Ring (Line):			!	None
Corona Rings are recommended for applications	of 230 kV ar	nd above		
Number of Sheds:	11 large		12 star	ndard
Rod Diameter:			16	mm
Weight Estimate:	9	lbs	4	kg
Dimensional Values				
Section Length (L):	48.2	in	1,224	mm
Rubber Length (X):	37	in	940	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:	38.8	in	986	mm
Leakage Distance:	103.5	in	2,629	mm
Electricals Values				
60 Hz dry Flashover (Min. Withstand):	384	kV	356	kV
60 Hz Wet Flashover (Min. Withstand):	346	kV	301	kV
CIFO Positive (Min. Withstand):	662	kV	572	kV
CIFO Negative (Min. Withstand):	705	kV	617	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

