

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

Braced Post Insulator Assembly B2911038T12049MX

1) H2 91 10 027 MX SS 014	[1]
2) S1 40 80 025 MX AL 015	[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)	38.0 in	965 mm	
Suspension Section Length (SSL)	36.2 in	919 mm	
Height of Assembly (H)	49.0 in	1,245 mm	
Length of Brace (B)	59.8 in	1,519 mm	
Upper Pole Connection Offset (A)*	2.0 in	51 mm	
Angle Between Insulators (C)		53 Degrees	
Dry Arc Distance	26.8 in	681 mm	
Leakage Distance	66.9 in	1,699 mm	

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

ASSEMBLY ELECTRICAL VALUES*

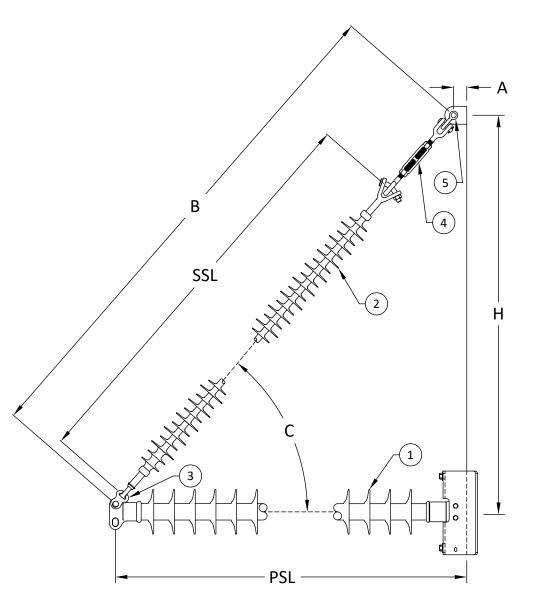
60 Hz Dry F.O. (Min. Withstand)	266 kV	(249) kV
60 Hz Wet F.O. (Min. Withstand)	243 kV	(187) kV
CIFO+ (Min. Withstand)	452 kV	(404) kV
CIFO- (Min. Withstand)	547 kV	(439) kV

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

ASSEMBLY MECHANICAL VALUES

Maximum Working Vertical Load 9,982 lbs 44.4 kN

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MPS Catalog Number

H2 91 10 027 MX SS 014

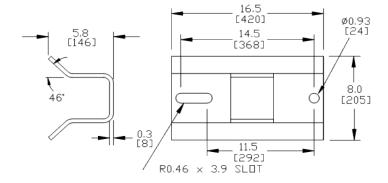
Date: 04/13/2022

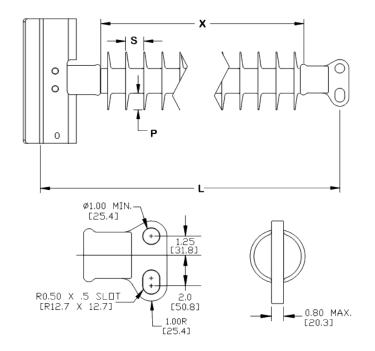
End Fittings Gain / O deg / Steel **Tower End Fitting:** 2 HL Drop Tongue / Galv. Ductile Iron Line End Fitting: Material Corona Ring (Line): None Corona Rings are recommended for applications of 230 kV and above Mounting Angle: 0 deg Number of Sheds: 14 Rod Diameter: 2.5 in Weight Estimate: 48.9 lbs 22 kg **Dimensional Values** Section Length (L): 965 mm 38 in Rubber Length (X): 27 in 686 mm Shed spacing (S): 1.95 in 50 mm Shed Projection (P): 1.86 in 47 mm 29.5 in 749 mm Dry Arc Distance: Leakage Distance: 74.4 in 1,889 mm **Electricals Values** 60 Hz dry Flashover (Min. Withstand): 290 kV 272 kV 60 Hz Wet Flashover (Min. Withstand): 266 kV 206 kV CIFO Positive (Min. Withstand): 495 kV 443 kV CIFO Negative (Min. Withstand): 589 kV 478 kV **Mechanical Values** Max. Design Cant. Load (MDCL): 2.573 lbs 11.4 kN Specified Cant. Load (SCL): 5,146 lbs 22.9 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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Routine Test Load (RTL):

S1 40 80 025 MX AL 015

Date: 03/22/2022

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End Fittings				
Tower End Fitting:	١	'-Clevis /	Forged	Steel
Line End Fitting:		Ball /	Forged	Steel
			/ (ANSI !	52-5)
Material				
Corona Ring (Line):			ı	None
Corona Rings are recommended for applications of	of 230 kV ar	nd above		
Number of Sheds:	7 large		8 stan	ndard
Rod Diameter:			16	mm
Weight Estimate:	7.3	lbs	3	kg
Dimensional Values				
Section Length (L):	36.2	in	919	mm
Rubber Length (X):	25	in	635	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:	26.8	in	681	mm
Leakage Distance:	66.9	in	1,699	mm
Electricals Values				
60 Hz dry Flashover (Min. Withstand):	269	kV	251	kV
60 Hz Wet Flashover (Min. Withstand):	243	kV	212	kV
CIFO Positive (Min. Withstand):	468	kV	403	kV
CIFO Negative (Min. Withstand):	503	kV	444	kV
Mechanical Values				
Specified Mech. Load (SML):	25,000	lbs	111.2	kN

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[19] 6.57 [167]

Dimension: inches [millimeters]

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Notes: Prepared By: Stephen Lucci

12,500 lbs

55.6 kN

