

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

# Braced Post Insulator Assembly B2911046T12063MX

1) H2 91 10 035 MX SS 018	[1]
2) S1 40 80 031 MX AL 019	[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)	46.0 in	1,168 mm
Suspension Section Length (SSL)	42.2 in	1,072 mm
Height of Assembly (H)	63.0 in	1,600 mm
Length of Brace (B)	75.8 in	1,925 mm
Upper Pole Connection Offset (A)*	2.0 in	51 mm
Angle Between Insulators (C)		54 Degrees
Dry Arc Distance	32.8 in	833 mm
Leakage Distance	85.2 in	2,164 mm

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

## ASSEMBLY ELECTRICAL VALUES\*

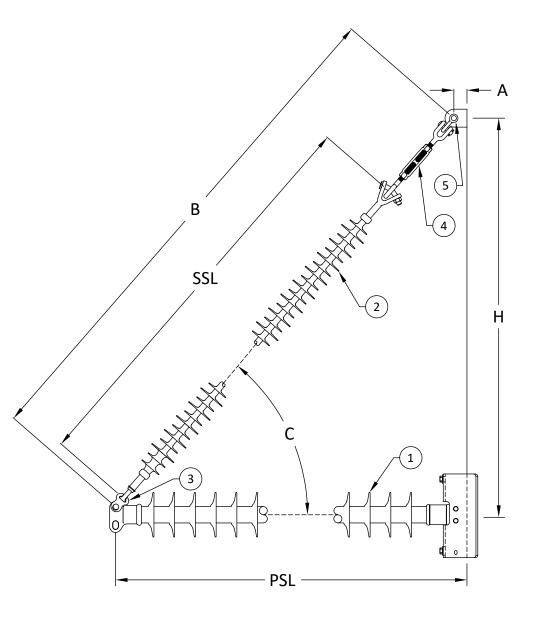
60 Hz Dry F.O. (Min. Withstand)	320 kV	(300) kV
60 Hz Wet F.O. (Min. Withstand)	295 kV	(229) kV
CIFO+ (Min. Withstand)	547 kV	(490) kV
CIFO- (Min. Withstand)	640 kV	(526) kV

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

### ASSEMBLY MECHANICAL VALUES

Maximum Working Vertical Load 10,180 lbs 45.3 kN
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MPS Catalog Number

## H2 91 10 035 MX SS 018

Date: 04/13/2022

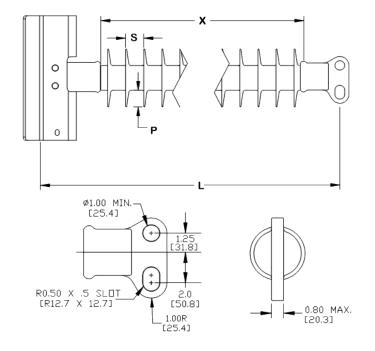
**End Fittings** Gain / O deg / Steel **Tower End Fitting:** 2 HL Drop Tongue / Galv. Ductile Iron Line End Fitting: Material Corona Ring (Line): None Corona Rings are recommended for applications of 230 kV and above Mounting Angle: 0 deg Number of Sheds: 18 Rod Diameter: 2.5 in Weight Estimate: 53.5 lbs 24 kg **Dimensional Values** Section Length (L): 1,168 mm 46 in Rubber Length (X): 35 in 889 mm Shed spacing (S): 1.95 in 50 mm Shed Projection (P): 1.86 in 47 mm 37.3 in 947 mm Dry Arc Distance: Leakage Distance: 95.6 in 2,427 mm **Electricals Values** 60 Hz dry Flashover (Min. Withstand): 360 kV 338 kV 60 Hz Wet Flashover (Min. Withstand): 333 kV 260 kV CIFO Positive (Min. Withstand): 618 kV 553 kV CIFO Negative (Min. Withstand): 705 kV 590 kV **Mechanical Values** Max. Design Cant. Load (MDCL): 2.036 lbs 9.1 kN Specified Cant. Load (SCL): 4,072 lbs 18.1 kN

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15,000 lbs

66.7 kN

16.5 [420] Ø0.93 [24] 46 [146] 8.0 [205] R0.46 × 3.9 SLOT



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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## S1 40 80 031 MX AL 019

Date: 03/23/2022

		Date.	03/23/	2022
End Fittings				
Tower End Fitting:	١	/-Clevis ,	/ Forged	Steel
Line End Fitting:		Ball ,	/ Forged	
			/ (ANSI	52-5)
Material				
Corona Ring (Line):			I	None
Corona Rings are recommended for applications	of 230 kV ar	nd above		
Number of Sheds:	9 large		10 star	ndard
Rod Diameter:			16	mm
Weight Estimate:	8.2	lbs	4	kg
Dimensional Values				
Section Length (L):	42.2	in	1,072	mm
Rubber Length (X):	31	in	787	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:	32.8	in	833	mm
Leakage Distance:	85.2	in	2,164	mm
Electricals Values				
60 Hz dry Flashover (Min. Withstand):	327	kV	304	kV
60 Hz Wet Flashover (Min. Withstand):	295	kV	257	kV
CIFO Positive (Min. Withstand):	566	kV	487	kV
CIFO Negative (Min. Withstand):	605	kV	531	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.

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

Notes: Prepared By: Stephen Lucci

