

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

# Braced Post Insulator Assembly B2911034T12063MX

1) H2 91 10 023 MX SS 012	[1]
2) S1 40 80 025 MX AL 015	[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)	34.0 in	864 mm
Suspension Section Length (SSL)	36.2 in	919 mm
Height of Assembly (H)	63.0 in	1,600 mm
Length of Brace (B)	69.6 in	1,768 mm
Upper Pole Connection Offset (A)*	2.0 in	51 mm
Angle Between Insulators (C)		62 Degrees
Dry Arc Distance	24.9 in	632 mm
Leakage Distance	63.8 in	1,621 mm

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

## **ASSEMBLY ELECTRICAL VALUES\***

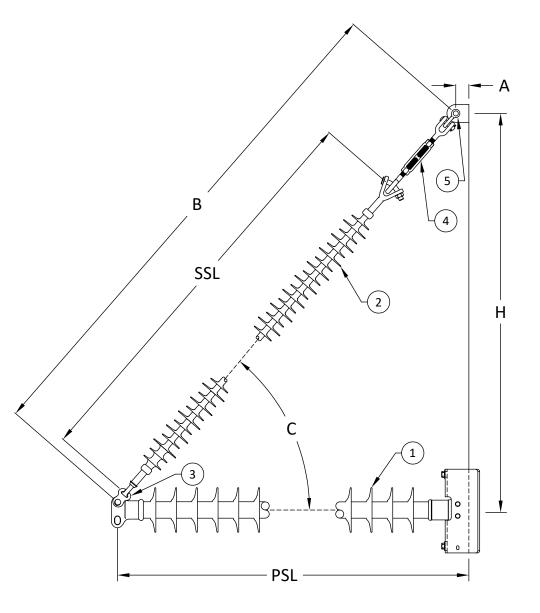
60 Hz Dry F.O. (Min. Withstand)	248 kV	(233) kV
60 Hz Wet F.O. (Min. Withstand)	227 kV	(174) kV
CIFO+ (Min. Withstand)	422 kV	(377) kV
CIFO- (Min. Withstand)	516 kV	(412) kV

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

#### ASSEMBLY MECHANICAL VALUES

Maximum Working Vertical Load 11,099 lbs	49.4 kN
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7801 Park Place Rd. York, SC 29745 USA (803) 628-2100

MPS Catalog Number

## H2 91 10 023 MX SS 012

Date: 04/13/2022

Tower End Fittings

Gain / 0 deg / Steel

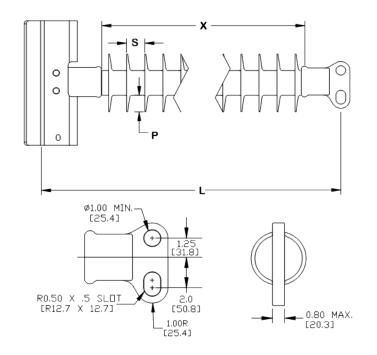
Line End Fitting:

2 HL Drop Tongue / Galv. Ductile Iron

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Material				
Corona Ring (Line):				None
Corona Rings are recommended for application	ns of 230 kV a	and above		
Mounting Angle:			0	deg
Number of Sheds:			12	
Rod Diameter:			2.5	in
Weight Estimate:	46.7	lbs	21	kg
Dimensional Values				
Section Length (L):	34	in	864	mm
Rubber Length (X):	23	in	584	mm
Shed spacing (S):	1.95	in	50	mm
Shed Projection (P):	1.86	in	47	mm
Dry Arc Distance:	25.6	in	649	mm
Leakage Distance:	63.8	in	1,620	mm
Electricals Values				
60 Hz dry Flashover (Min. Withstand):	254	kV	239	kV
60 Hz Wet Flashover (Min. Withstand):	232	kV	179	kV
CIFO Positive (Min. Withstand):	432	kV	387	kV
CIFO Negative (Min. Withstand):	527	kV	421	kV
Mechanical Values				
Max. Design Cant. Load (MDCL):	2,981	lbs	13.3	kN
Specified Cant. Load (SCL):	5,962	lbs	26.5	kN
Specified Tensile Load (STL):	15,000	lbs	66.7	kN

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16.5 [420] Ø0.93 [24] 46' [368] 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:

Prepared By: Stephen Lucci



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**MPS Catalog Number** 

Routine Test Load (RTL):

## S1 40 80 025 MX AL 015

Date: 03/22/2022

			,,	
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]

NOTE: Drawing not actual depiction of insulator appearance.

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Notes: Prepared By: Stephen Lucci

12,500 lbs

55.6 kN

