

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

Braced Post Insulator Assembly B2911054T12059MX

1) H2 91 10 043 MX SS 022	[1]
2) S1 40 80 042 MX AL 027	[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)	54.0 in	1,372 mm
Suspension Section Length (SSL)	54.0 in	1,372 mm
Height of Assembly (H)	59.0 in	1,499 mm
Length of Brace (B)	77.7 in	1,974 mm
Upper Pole Connection Offset (A)*	2.0 in	51 mm
Angle Between Insulators (C)		48 Degrees
Dry Arc Distance	43.0 in	1,092 mm
Leakage Distance	116.7 in	2,964 mm

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

ASSEMBLY ELECTRICAL VALUES*

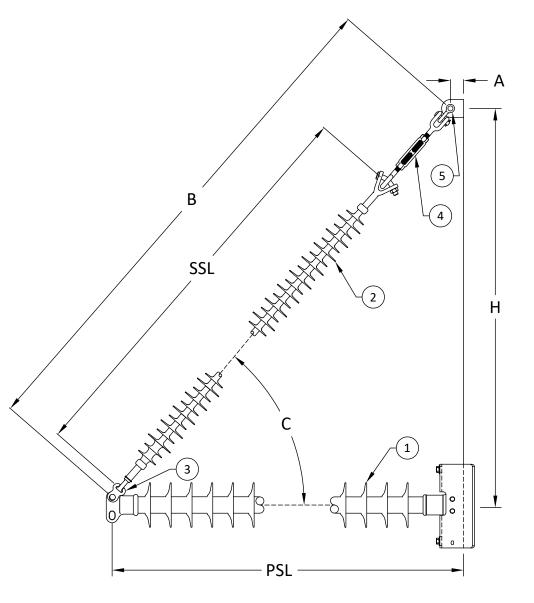
60 Hz Dry F.O. (Min. Withstand)	411 kV	(386) kV
60 Hz Wet F.O. (Min. Withstand)	381 kV	(299) kV
CIFO+ (Min. Withstand)	709 kV	(633) kV
CIFO- (Min. Withstand)	783 kV	(672) kV

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

ASSEMBLY MECHANICAL VALUES

Maximum Working Vertical Load 9,289 lbs 41.3 kN

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MPS Catalog Number

H2 91 10 043 MX SS 022

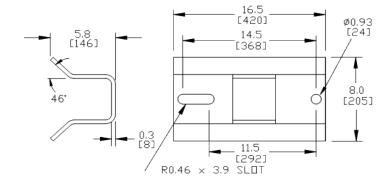
Date: 04/13/2022

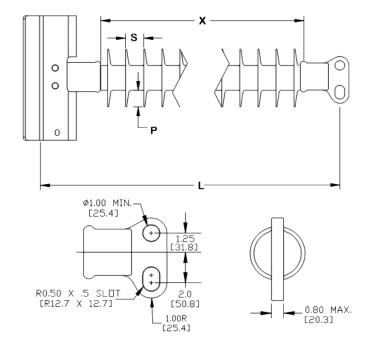
End Fittings Gain / O deg / Steel **Tower End Fitting:** 2 HL Drop Tongue / Galv. Ductile Iron Line End Fitting: Material Corona Ring (Line): None Corona Rings are recommended for applications of 230 kV and above Mounting Angle: 0 deg Number of Sheds: 22 Rod Diameter: 2.5 in Weight Estimate: 58 lbs 26 kg **Dimensional Values** Section Length (L): 1,372 mm 54 in Rubber Length (X): 43 in 1,092 mm Shed spacing (S): 1.95 in 50 mm Shed Projection (P): 1.86 in 47 mm Dry Arc Distance: 45.1 in 1,145 mm Leakage Distance: 116.7 in 2,965 mm **Electricals Values** 403 kV 60 Hz dry Flashover (Min. Withstand): 429 kV 60 Hz Wet Flashover (Min. Withstand): 398 kV 313 kV CIFO Positive (Min. Withstand): 742 kV 662 kV CIFO Negative (Min. Withstand): 809 kV 701 kV **Mechanical Values** Max. Design Cant. Load (MDCL): 1.706 lbs 7.6 kN Specified Cant. Load (SCL): 3,412 lbs 15.2 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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S1 40 80 042 MX AL 027

Date:	03/24/2022
Date.	U312412U22

	Date.	03/24/2022
End Fittings		
Tower End Fitting:	Y-Clevis	/ Forged Steel
Line End Fitting:	Ball	/ Forged Steel
		/ (ANSI 52-5)
Material		
Corona Ring (Line):		None
Corona Rings are recommended for applica	tions of 230 kV and above	2
Number of Sheds:	13 large	14 standard
Rod Diameter:		16 mm
Weight Estimate:	9.9 lbs	5 kg
Dimensional Valu	es	
Section Length (L):	54 in	1,372 mm
Rubber Length (X):	42 in	1,067 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:	44.8 in	1,138 mm
Leakage Distance:	121.8 in	3,094 mm
Electricals Value	es	
60 Hz dry Flashover (Min. Withstand):	441 kV	408 kV
60 Hz Wet Flashover (Min. Withstand):	395 kV	344 kV
CIFO Positive (Min. Withstand):	757 kV	656 kV
CIFO Negative (Min. Withstand):	803 kV	704 kV
Mechanical Value	es	
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

