

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

Braced Post Insulator Assembly B2911061T12074MX

1) H2 91 10 050 MX SS 026	[1]
2) S1 40 80 048 MX AL 031	[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)	61.0 in	1,549 mm
Suspension Section Length (SSL)	60.0 in	1,524 mm
Height of Assembly (H)	74.0 in	1,880 mm
Length of Brace (B)	93.7 in	2,380 mm
Upper Pole Connection Offset (A)*	2.0 in	51 mm
Angle Between Insulators (C)		51 Degrees
Dry Arc Distance	50.3 in	1,278 mm
Leakage Distance	137.9 in	3,503 mm

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

ASSEMBLY ELECTRICAL VALUES*

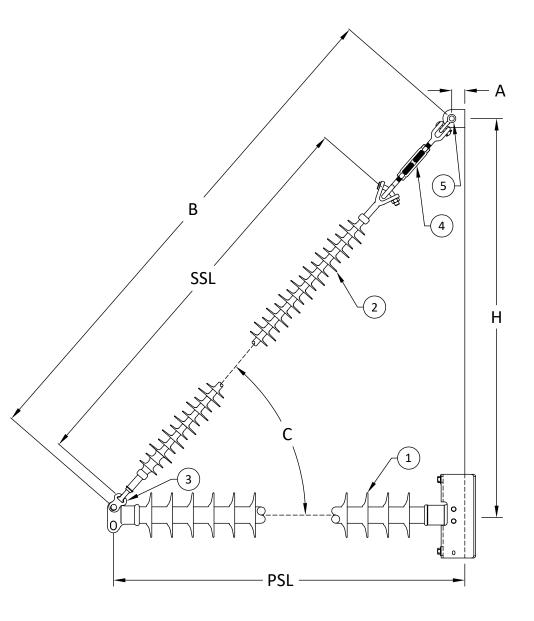
60 Hz Dry F.O. (Min. Withstand)	476 kV	(446) kV
60 Hz Wet F.O. (Min. Withstand)	440 kV	(348) kV
CIFO+ (Min. Withstand)	825 kV	(734) kV
CIFO- (Min. Withstand)	874 kV	(775) kV

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

ASSEMBLY MECHANICAL VALUES

Maximum Working	Vertical Load	9,714 lk	os 43.2 kN

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MPS Catalog Number

H2 91 10 050 MX SS 026

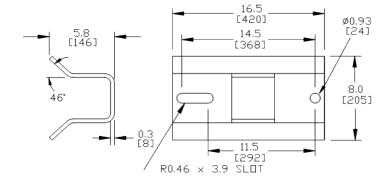
Date: 04/13/2022

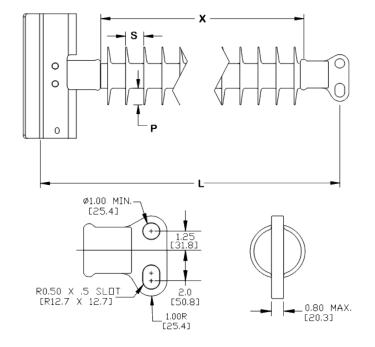
End Fittings Gain / O deg / Steel **Tower End Fitting:** 2 HL Drop Tongue / Galv. Ductile Iron Line End Fitting: Material Corona Ring (Line): None Corona Rings are recommended for applications of 230 kV and above Mounting Angle: 0 deg Number of Sheds: 26 Rod Diameter: 2.5 in Weight Estimate: 62.5 lbs 28 kg **Dimensional Values** Section Length (L): 1,549 mm 61 in Rubber Length (X): 50 in 1,270 mm Shed spacing (S): 1.95 in 50 mm Shed Projection (P): 1.86 in 47 mm 52.9 in Dry Arc Distance: 1,343 mm Leakage Distance: 137.9 in 3,503 mm **Electricals Values** 60 Hz dry Flashover (Min. Withstand): 498 kV 468 kV 60 Hz Wet Flashover (Min. Withstand): 461 kV 365 kV CIFO Positive (Min. Withstand): 866 kV 769 kV CIFO Negative (Min. Withstand): 912 kV 811 kV **Mechanical Values** Max. Design Cant. Load (MDCL): 1.494 lbs 6.6 kN Specified Cant. Load (SCL): 2,988 lbs 13.3 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 80 048 MX AL 031

Date: 03/25/2022

	Date.	03/23/2022
End Fittings	<u> </u>	
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 appli	ications of 230 kV and above	9
Number of Sheds:	15 large	16 standard
Rod Diameter:		16 mm
Weight Estimate:	10.7 lbs	5 kg
Dimensional Va	lues	
Section Length (L):	60 in	1,524 mm
Rubber Length (X):	48 in	1,219 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:	50.7 in	1,288 mm
Leakage Distance:	140.1 in	3,559 mm
Electricals Value	ues	
60 Hz dry Flashover (Min. Withstand):	497 kV	459 kV
60 Hz Wet Flashover (Min. Withstand):	443 kV	386 kV
CIFO Positive (Min. Withstand):	849 kV	739 kV
CIFO Negative (Min. Withstand):	898 kV	789 kV
Mechanical Val	ues	
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

