

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

Braced Post Insulator Assembly B2901049T12078MX

1) H2 90 10 039 MX SS 020	[1]
2) S1 40 80 037 MX AL 023	[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)	49.3 in	1,252 mm
Suspension Section Length (SSL)	48.2 in	1,224 mm
Height of Assembly (H)	78.0 in	1,981 mm
Length of Brace (B)	81.5 in	2,070 mm
Upper Pole Connection Offset (A)*	2.0 in	51 mm
Angle Between Insulators (C)		67 Degrees
Dry Arc Distance	38.8 in	986 mm
Leakage Distance	103.5 in	2,629 mm

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

ASSEMBLY ELECTRICAL VALUES*

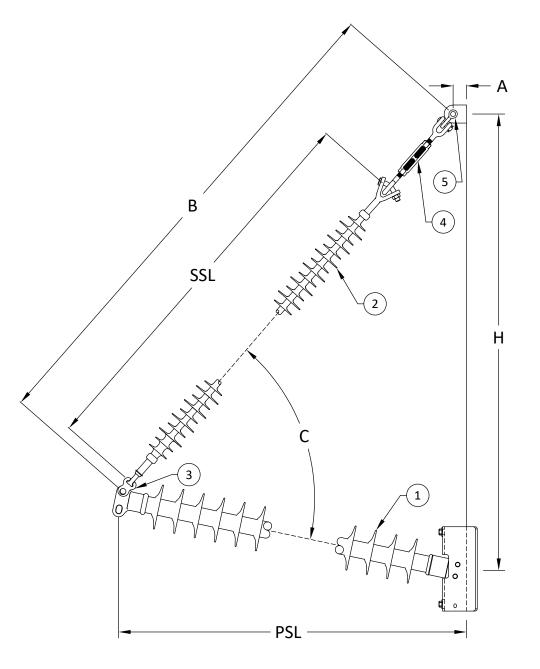
60 Hz Dry F.O. (Min. Withstand)	374 kV	(351) kV
60 Hz Wet F.O. (Min. Withstand)	346 kV	(271) kV
CIFO+ (Min. Withstand)	643 kV	(574) kV
CIFO- (Min. Withstand)	727 kV	(612) kV

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

ASSEMBLY MECHANICAL VALUES

Maximum Working Vertical Load 11,770 lbs 52.4 kN
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MPS Catalog Number

H2 90 10 039 MX SS 020

03/23/2022 Date:

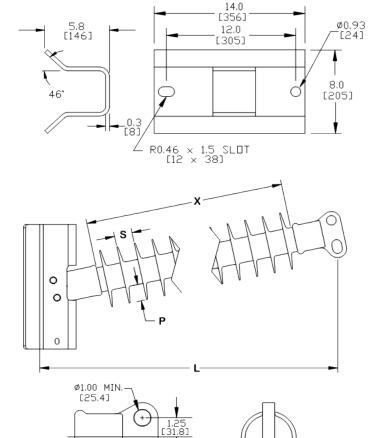
End Fittings Gain / 12 deg / Steel **Tower End Fitting:**

2 HL Drop Tongue / Galv. Ductile Iron Line End Fitting:

Matarial

Material			
Corona Ring (Line):			None
Corona Rings are recommended for applications of 230 kV	and above		
Mounting Angle:		12	deg
Number of Sheds:		20	
Rod Diameter:		2.5	in
Weight Estimate: 55.6	lbs	25	kg
Dimensional Values			
Section Length (L): 49.3	in	1,252	mm
Rubber Length (X): 39	in	991	mm
Shed spacing (S): 1.95	in	50	mm
Shed Projection (P): 1.86	in	47	mm
Dry Arc Distance: 41.2	in	1,046	mm
Leakage Distance: 106.1	in	2,696	mm
Electricals Values			
60 Hz dry Flashover (Min. Withstand): 395	kV	371	kV
60 Hz Wet Flashover (Min. Withstand): 366	kV	287	kV
CIFO Positive (Min. Withstand): 680	kV	608	kV
CIFO Negative (Min. Withstand): 759	kV	646	kV
Mechanical Values			
Max. Design Cant. Load (MDCL): 1,912	lbs	8.5	kN
Specified Cant. Load (SCL): 3,824	lbs	17	kN
Specified Tensile Load (STL): 15,000	lbs	66.7	kN

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[50.8]

_1.00R [25.4]

Dimension: inches [millimeters]

R0.50 X .5 SLOT [R12.7 X 12.7]

NOTE: Drawing not actual depiction of insulator appearance.

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

0.80 MAX. [20.3]

Notes:



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S1 40 80 037 MX AL 023

Date: 03/23/2022

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End Fittings				
Tower End Fitting:	Υ	/-Clevis	/ Forged	Steel
Line End Fitting:		Ball	/ Forged	Steel
			/ (ANSI	52-5)
Material				
Corona Ring (Line):			1	None
Corona Rings are recommended for applications of	of 230 kV ar	nd above	!	
Number of Sheds:	11 large		12 star	dard
Rod Diameter:			16	mm
Weight Estimate:	9	lbs	4	kg
Dimensional Values				
Section Length (L):	48.2	in	1,224	mm
Rubber Length (X):	37	in	940	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:	38.8	in	986	mm
Leakage Distance:	103.5	in	2,629	mm
Electricals Values				
60 Hz dry Flashover (Min. Withstand):	384	kV	356	kV
60 Hz Wet Flashover (Min. Withstand):	346	kV	301	kV
CIFO Positive (Min. Withstand):	662	kV	572	kV
CIFO Negative (Min. Withstand):	705	kV	617	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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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

