

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

Braced Post Insulator Assembly B2901038T12069MX

1) H2 90 10 027 MX SS 014	[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)	37.6 in	955 mm
Suspension Section Length (SSL)	36.2 in	919 mm
Height of Assembly (H)	69.0 in	1,753 mm
Length of Brace (B)	69.7 in	1,770 mm
Upper Pole Connection Offset (A)*	2.0 in	51 mm
Angle Between Insulators (C)		72 Degrees
Dry Arc Distance	26.8 in	681 mm
Leakage Distance	66.9 in	1,699 mm

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

ASSEMBLY ELECTRICAL VALUES*

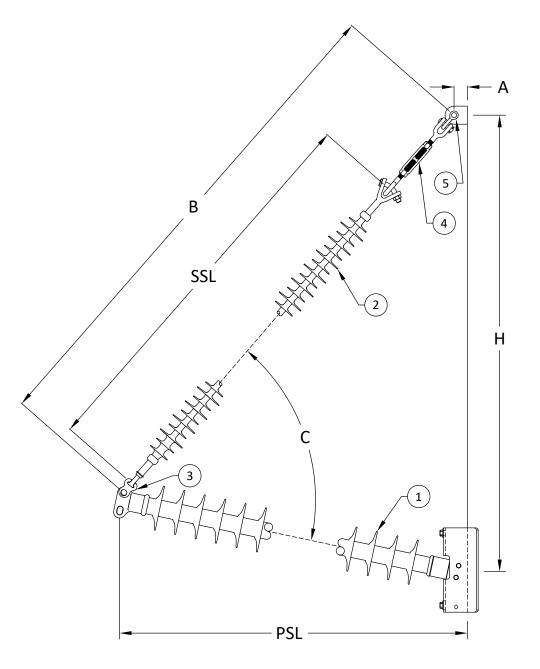
60 Hz Dry F.O. (Min. Withstand)	266 kV	(249) kV
60 Hz Wet F.O. (Min. Withstand)	243 kV	(187) kV
CIFO+ (Min. Withstand)	452 kV	(404) kV
CIFO- (Min. Withstand)	547 kV	(439) kV

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

ASSEMBLY MECHANICAL VALUES

Maximum Working Vertical Load 12.148 lbs 54.0 kN
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7801 Park Place Rd. York, SC 29745 USA (803) 628-2100

MPS Catalog Number

H2 90 10 027 MX SS 014

03/23/2022 Date:

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

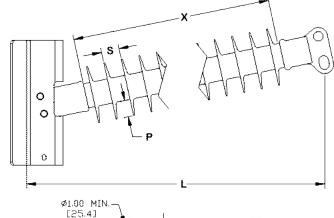
2 HL Drop Tongue / Galv. Ductile Iron Line End Fitting:

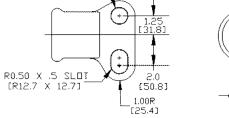
RЛ	210	erial
141	ац	па

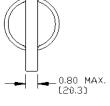
Material				
Corona Ring (Line):				None
Corona Rings are recommended for application	ns of 230 kV a	and above		
Mounting Angle:			12	deg
Number of Sheds:			14	
Rod Diameter:			2.5	in
Weight Estimate:	48.9	lbs	22	kg
Dimensional Values				
Section Length (L):	37.6	in	955	mm
Rubber Length (X):	27	in	686	mm
Shed spacing (S):	1.95	in	50	mm
Shed Projection (P):	1.86	in	47	mm
Dry Arc Distance:	29.5	in	749	mm
Leakage Distance:	74.4	in	1,889	mm
Electricals Values				
60 Hz dry Flashover (Min. Withstand):	290	kV	272	kV
60 Hz Wet Flashover (Min. Withstand):	266	kV	206	kV
CIFO Positive (Min. Withstand):	495	kV	443	kV
CIFO Negative (Min. Withstand):	589	kV	478	kV
Mechanical Values				
Max. Design Cant. Load (MDCL):	2,573	lbs	11.4	kN
Specified Cant. Load (SCL):	5,146	lbs	22.9	kN
Specified Tensile Load (STL):	15,000	lbs	66.7	kN

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14.0 [356] 5.8 [146] Ø0.93 12.0 [24] [305] 46° (205) $\begin{array}{c} \text{R0.46} \times \text{I.5 SLOT} \\ \text{[12} \times \text{38]} \end{array}$







Dimension: inches [millimeters]

NOTE: Drawing not actual depiction of insulator appearance.

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

Notes:



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MPS Catalog Number

S1 40 80 025 MX AL 015

Date: 03/22/2022

End Fittings				
Tower End Fitting:	Y-Clevis / Forged Steel			
Line End Fitting:	Ball / Forged Steel / (ANSI 52-5)			
Material				
Corona Ring (Line):			ĺ	None
Corona Rings are recommended for applications	of 230 kV ar	nd above		
Number of Sheds:	7 large		8 star	dard
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
Routine Test Load (RTL):	12,500	lbs	55.6	kN

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[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

