

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

Braced Post Insulator Assembly B2901034T12070MX

1) H2 90 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)	33.7 in	856 mm
Suspension Section Length (SSL)	36.2 in	919 mm
Height of Assembly (H)	70.0 in	1,778 mm
Length of Brace (B)	69.4 in	1,763 mm
Upper Pole Connection Offset (A)*	2.0 in	51 mm
Angle Between Insulators (C)		75 Degrees
Dry Arc Distance	25.6 in	650 mm
Leakage Distance	63.8 in	1,621 mm

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

ASSEMBLY ELECTRICAL VALUES*

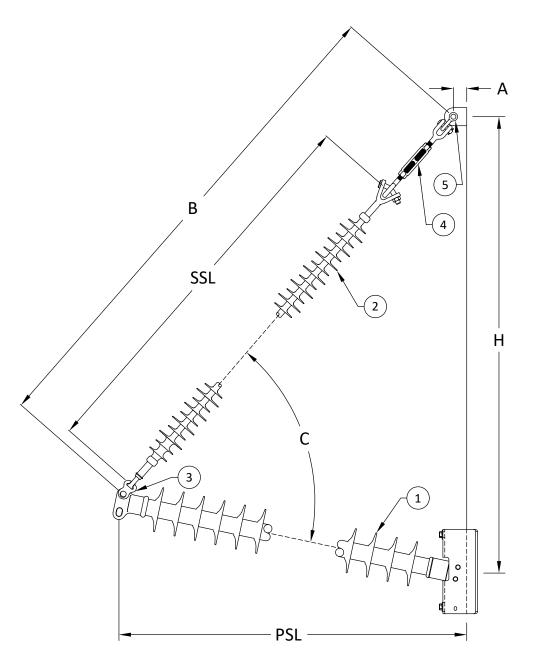
60 Hz Dry F.O. (Min. Withstand)	255 kV	(239) kV
60 Hz Wet F.O. (Min. Withstand)	233 kV	(179) kV
CIFO+ (Min. Withstand)	433 kV	(387) kV
CIFO- (Min. Withstand)	527 kV	(422) kV

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

ASSEMBLY MECHANICAL VALUES

Maximum Working Vertical Load 12,370 lbs 55.0 kN
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MPS Catalog Number

H2 90 10 023 MX SS 012

03/22/2022 Date:

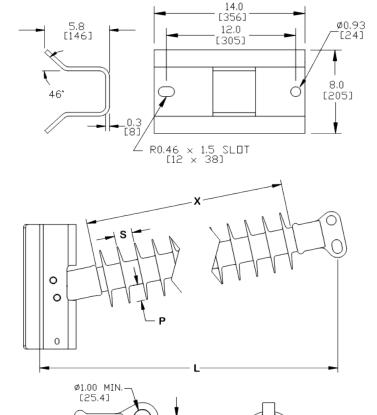
End Fittings Gain / 12 deg / Steel **Tower End Fitting:**

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

_	Ma	teria

			None
ns of 230 kV a	and ab	ove	
		12	deg
		12	
		2.5	in
46.6	lbs	21	kg
33.7	in	856	mm
23	in	584	mm
1.95	in	50	mm
1.86	in	47	mm
25.6	in	649	mm
63.8	in	1,620	mm
254	kV	239	kV
232	kV	179	kV
432	kV	387	kV
527	kV	421	kV
2,981	lbs	13.3	kN
5,962	lbs	26.5	kN
15,000	lbs	66.7	kN
	46.6 33.7 23 1.95 1.86 25.6 63.8 254 232 432 527 2,981 5,962	46.6 lbs 33.7 in 23 in 1.95 in 1.86 in 25.6 in 63.8 in 254 kV 232 kV 432 kV 527 kV 2,981 lbs 5,962 lbs	12 12 12 2.5 46.6 lbs 21 33.7 in 856 23 in 584 1.95 in 50 1.86 in 47 25.6 in 649 63.8 in 1,620 254 kV 239 232 kV 179 432 kV 387 527 kV 421 2,981 lbs 13.3 5,962 lbs 26.5

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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:

Prepared By: Stephen Lucci



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Routine Test Load (RTL):

S1 40 80 025 MX AL 015

Date: 03/22/2022

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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

