

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

Braced Post Insulator Assembly B2901053T12083MA

1) H2 90 10 043 MX SS 022	[1]
2) S1 40 80 042 MA AL 027	[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)	53.3 in	1,354 mm
Suspension Section Length (SSL)	54.0 in	1,372 mm
Height of Assembly (H)	83.0 in	2,108 mm
Length of Brace (B)	87.2 in	2,215 mm
Upper Pole Connection Offset (A)*	2.0 in	51 mm
Angle Between Insulators (C)		66 Degrees
Dry Arc Distance	41.5 in	1,054 mm
Leakage Distance	116.7 in	2,964 mm

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

ASSEMBLY ELECTRICAL VALUES*

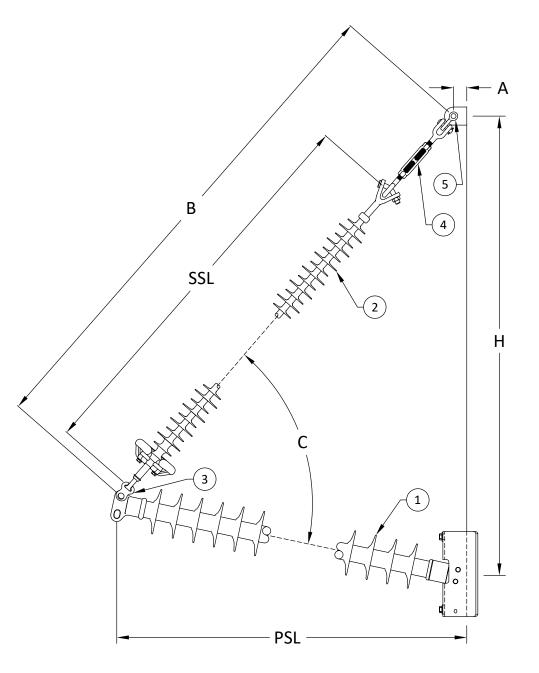
60 Hz Dry F.O. (Min. Withstand)	398 kV	(373) kV
60 Hz Wet F.O. (Min. Withstand)	368 kV	(289) kV
CIFO+ (Min. Withstand)	685 kV	(612) kV
CIFO- (Min. Withstand)	763 kV	(650) kV

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

ASSEMBLY MECHANICAL VALUES

Maximum Working Vertical Load	11.718 lbs	52.1 kN
Maximum Working Vertical Load	11,110103	JZ. I KIN

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MPS Catalog Number

H2 90 10 043 MX SS 022

03/24/2022 Date:

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

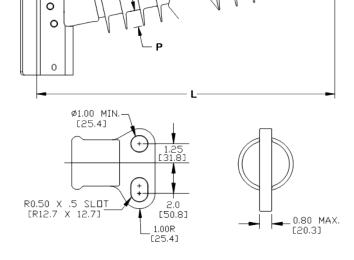
2 HL Drop Tongue / Galv. Ductile Iron Line End Fitting:

		IV	la	t	e	ri	a	
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			None
ns of 230 kV a	and abov	⁄e	
		12	deg
		22	
		2.5	in
57.9	lbs	26	kg
53.3	in	1,354	mm
43	in	1,092	mm
1.95	in	50	mm
1.86	in	47	mm
45.1	in	1,145	mm
116.7	in	2,965	mm
429	kV	403	kV
398	kV	313	kV
742	kV	662	kV
809	kV	701	kV
1,748	lbs	7.8	kN
3,496	lbs	15.6	kN
15,000	lbs	66.7	kN
	57.9 53.3 43 1.95 1.86 45.1 116.7 429 398 742 809 1,748 3,496	57.9 lbs 53.3 in 43 in 1.95 in 1.86 in 45.1 in 116.7 in 429 kV 398 kV 742 kV 809 kV 1,748 lbs 3,496 lbs	12 22 2.5 57.9 lbs 26 53.3 in 1,354 43 in 1,092 1.95 in 50 1.86 in 47 45.1 in 1,145 116.7 in 2,965 429 kV 403 398 kV 313 742 kV 662 809 kV 701 1,748 lbs 7.8 3,496 lbs 15.6

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14.0 [356] 5.8 [146] Ø0,93 12.0 [24] [305] 46° [205] R0.46 × 1.5 SLOT [12 × 38]



Dimension: inches [millimeters]

NOTE: Drawing not actual depiction of insulator appearance.

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

Notes:



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

MPS Catalog Number

S1 40 80 042 MA AL 027

Date: 04/01/2022

	L	ate.	04/01/202
End Fittings			
Tower End Fitting:	Y-	Clevis	/ Forged Stee
Line End Fitting:		Ball	/ Forged Stee
			/ (ANSI 52-5
Material			
Corona Ring (Line):		8	" Corona Rin
Corona Rings are recommended for applic	ations of 230 kV and	d above	
Number of Sheds:	13 large		14 standar
Rod Diameter:			16 mm
Weight Estimate:	12.1	lbs	6 kg
Dimensional Val	ues		
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:	42.2	in	1,072 mm
Leakage Distance:	121.8	in	3,094 mm
Electricals Valu	es		
60 Hz dry Flashover (Min. Withstand):	416	kV	386 kV
60 Hz Wet Flashover (Min. Withstand):	374	kV	325 kV
CIFO Positive (Min. Withstand):	716	kV	620 kV
CIFO Negative (Min. Withstand):	761	kV	666 kV
Mechanical Valu	ies		
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]

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

