

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

Braced Post Insulator Assembly B2901080T12085AX

1) H2 90 10 070 AX SS 027	[1]
2) S1 40 80 066 MX AL 043	[1]
3) Socket/Y-Clevis (SYC-56)	[1]
4) Turnbuckle (G-227-NBC-3/4x6C)	[1]
5) Shackle (ASH-55-BC)	[1]

ASSEMBLY DIMENSIONAL VALUES

Post Section Length (PSL)	79.7 in	2,024 mm
Suspension Section Length (SSL)	78.0 in	1,981 mm
Height of Assembly (H)	84.0 in	2,134 mm
Length of Brace (B)	102.3 in	2,598 mm
Upper Pole Connection Offset (A)*	2.0 in	51 mm
Angle Between Insulators (C)		53 Degrees
Dry Arc Distance	68.7 in	1,745 mm
Leakage Distance	191.5 in	4,864 mm

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

ASSEMBLY ELECTRICAL VALUES*

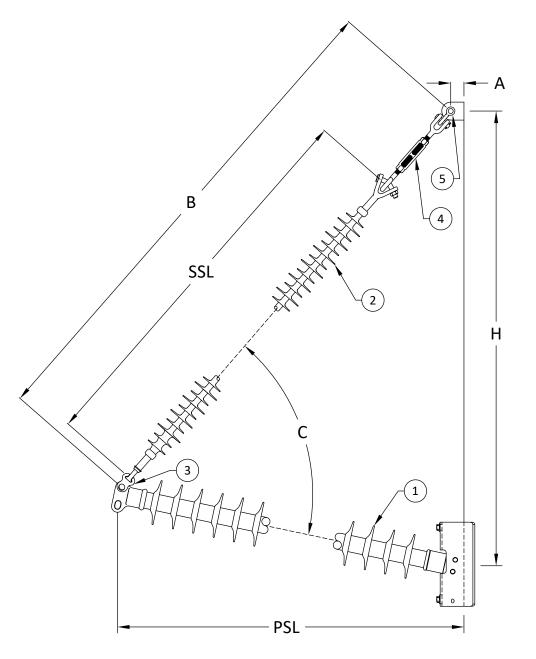
60 Hz Dry F.O. (Min. Withstand)	636 kV	(597) kV
60 Hz Wet F.O. (Min. Withstand)	583 kV	(468) kV
CIFO+ (Min. Withstand)	1,113 kV	(983) kV
CIFO- (Min. Withstand)	1,147 kV	(1,030) kV

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

ASSEMBLY MECHANICAL VALUES

	Maximum Working	Vertical Load	10,227 lbs	45.5 kN
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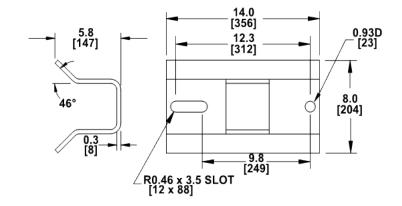


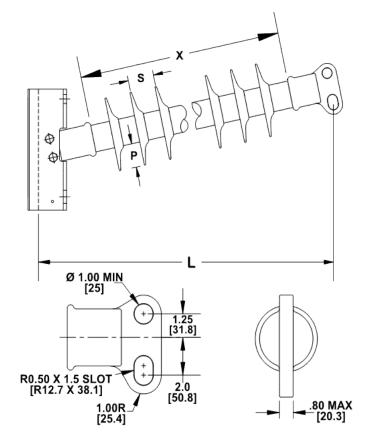


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H2 90 10 070 AX SS 027 MPS Catalog Number: Date: 03/28/2022 **End Fittings** Gain / 12 deg / Steel Tower End Fitting: Anchor / Ductile Iron 2 HL Drop Tongue / Galv. Ductile Iron Line End Fitting: **Material** Corona Ring (Tower): None Corona Ring (Line): None Corona Rings are recommended for applications of 230 kV and above Mounting Angle: 12 deg 27 Number of Sheds: 2.5 in Rod Diameter: Weight Estimate: 87.4 lbs 40 kg **Dimensional Values** Section Length (L): 79.7 in 2,024 mm 70 in Rubber Length (X): 1,778 mm Shed spacing (S): 2.5 in 64 mm 2.4 in Shed Projection (P): 61 mm 72.9 in Dry Arc Distance: 1,852 mm 191.5 in Leakage Distance: 4,864 mm **Electricals Values** 60 Hz dry Flashover (Min. Withstand): 672 kV 630 kV 614 kV 60 Hz Wet Flashover (Min. Withstand): 495 kV CIFO Positive (Min. Withstand): 1178 kV 1039 kV CIFO Negative (Min. Withstand): 1209 kV 1088 kV **Mechanical Values** 4.9 kN Max. Design Cant. Load (MDCL): 1.109 lbs Specified Cant. Load (SCL): 2,218 lbs 9.9 kN Specified Tensile Load (STL): 15.000 lbs 66.7 kN

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Dimension: inches [millimeters]

NOTE: Drawing not actual depiction of insulator appearance.

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



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MPS Catalog Number

S1 40 80 066 MX AL 043

Date: 03/28/2022

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End Fittings				
Tower End Fitting:	١	/-Clevis	/ Forged	Steel
Line End Fitting:		Ball	l / Forged	Steel
			/ (ANSI	52-5)
Material				
Corona Ring (Line):				None
Corona Rings are recommended for applications	of 230 kV ar	nd abov	·	
Number of Sheds:	21 large		22 star	ndard
Rod Diameter:	Ü		16	mm
Weight Estimate:	13.2	lbs	6	kg
Dimensional Values				
Section Length (L):	78	in	1,981	mm
Rubber Length (X):	66	in	1,676	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:	68.7	in	1,745	mm
Leakage Distance:	195	in	4,953	mm
Electricals Values				
60 Hz dry Flashover (Min. Withstand):	669	kV	610	kV
60 Hz Wet Flashover (Min. Withstand):	583	kV	507	kV
CIFO Positive (Min. Withstand):	1,124	kV	993	kV
CIFO Negative (Min. Withstand):	1,180	kV	1,048	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

