

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

Braced Post Insulator Assembly B2901091T12092AA

1) H2 90 10 082 AX SS 032	[1]
2) S1 40 80 078 MA AL 051	[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)	91.4 in	2,322 mm
Suspension Section Length (SSL)	89.9 in	2,283 mm
Height of Assembly (H)	92.0 in	2,337 mm
Length of Brace (B)	114.2 in	2,901 mm
Upper Pole Connection Offset (A)*	2.0 in	51 mm
Angle Between Insulators (C)		51 Degrees
Dry Arc Distance	78.1 in	1,984 mm
Leakage Distance	226.0 in	5,740 mm

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

ASSEMBLY ELECTRICAL VALUES*

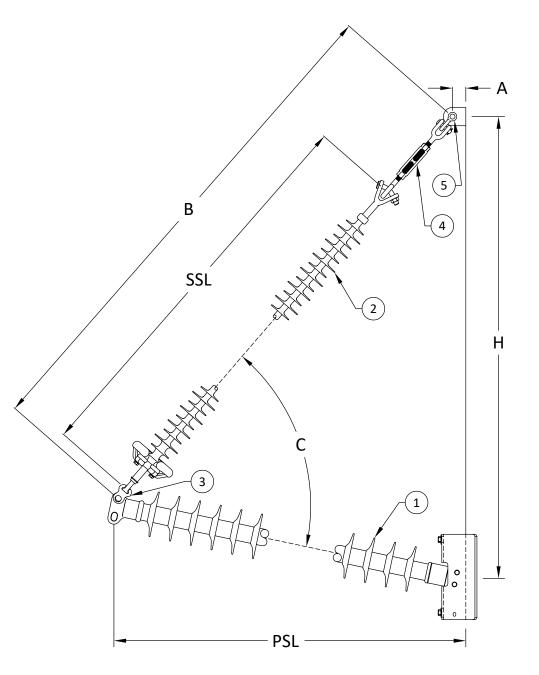
60 Hz Dry F.O. (Min. Withstand)	716 kV	(672) kV
60 Hz Wet F.O. (Min. Withstand)	651 kV	(527) kV
CIFO+ (Min. Withstand)	1,257 kV	(1,107) kV
CIFO- (Min. Withstand)	1,284 kV	(1,158) kV

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

ASSEMBLY MECHANICAL VALUES

Maximum Working Vertical Load	9.931 lbs	44.2 kN
Maximum Working Vortion Load	0,001100	TT.4

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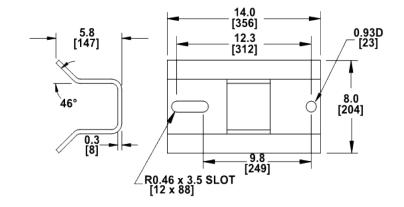


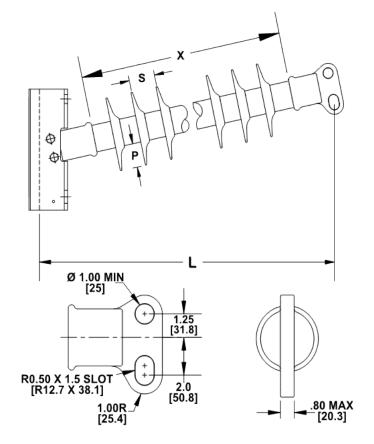


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H2 90 10 082 AX SS 032 MPS Catalog Number: Date: 04/11/2022 **End Fittings** Gain / 12 deg / Steel Tower End Fitting: Anchor / Ductile Iron 2 HL Drop Tongue / Galv. Ductile Iron Line End Fitting: **Material** Corona Ring (Tower): None Corona Ring (Line): None Corona Rings are recommended for applications of 230 kV and above Mounting Angle: 12 deg 32 Number of Sheds: 2.5 in Rod Diameter: Weight Estimate: 96.1 lbs 44 kg **Dimensional Values** Section Length (L): 91.4 in 2,322 mm 82 in Rubber Length (X): 2,083 mm Shed spacing (S): 2.5 in 64 mm 2.4 in Shed Projection (P): 61 mm 84.9 in Dry Arc Distance: 2,156 mm 226 in Leakage Distance: 5,740 mm **Electricals Values** 60 Hz dry Flashover (Min. Withstand): 773 kV 726 kV 700 kV 60 Hz Wet Flashover (Min. Withstand): 569 kV CIFO Positive (Min. Withstand): 1360 kV 1196 kV CIFO Negative (Min. Withstand): 1382 kV 1250 kV **Mechanical Values** 4.3 kN Max. Design Cant. Load (MDCL): 967 lbs Specified Cant. Load (SCL): 1,934 lbs 8.6 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

Routine Test Load (RTL):

S1 40 80 078 MA AL 051

Date: 04/11/2022

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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):		8'	" Corona	Ring
Corona Rings are recommended for applications	of 230 kV ar		33.3	8
Number of Sheds:	25 large		26 star	ıdard
Rod Diameter:	J		16	mm
Weight Estimate:	17.1	lbs	8	kg
Dimensional Values				
Section Length (L):	89.9	in	2,283	mm
Rubber Length (X):	78	in	1,981	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:	78.1	in	1,984	mm
Leakage Distance:	231.6	in	5,883	mm
Electricals Values				
60 Hz dry Flashover (Min. Withstand):	758	kV	686	kV
60 Hz Wet Flashover (Min. Withstand):	651	kV	567	kV
CIFO Positive (Min. Withstand):	1,264	kV	1,125	kV
CIFO Negative (Min. Withstand):	1,323	kV	1,183	kV
Mechanical Values				
Specified Mech. Load (SML):	25,000	lbs	111.2	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

12,500 lbs

55.6 kN

