

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

Braced Post Insulator Assembly B2901045T12061MX

1) H2 90 10 035 MX SS 018	[1]
2) S1 40 80 031 MX AL 019	[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)	45.4 in	1,153 mm
Suspension Section Length (SSL)	42.2 in	1,072 mm
Height of Assembly (H)	61.0 in	1,549 mm
Length of Brace (B)	66.2 in	1,681 mm
Upper Pole Connection Offset (A)*	2.0 in	51 mm
Angle Between Insulators (C)		61 Degrees
Dry Arc Distance	32.8 in	833 mm
Leakage Distance	85.2 in	2,164 mm

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

ASSEMBLY ELECTRICAL VALUES*

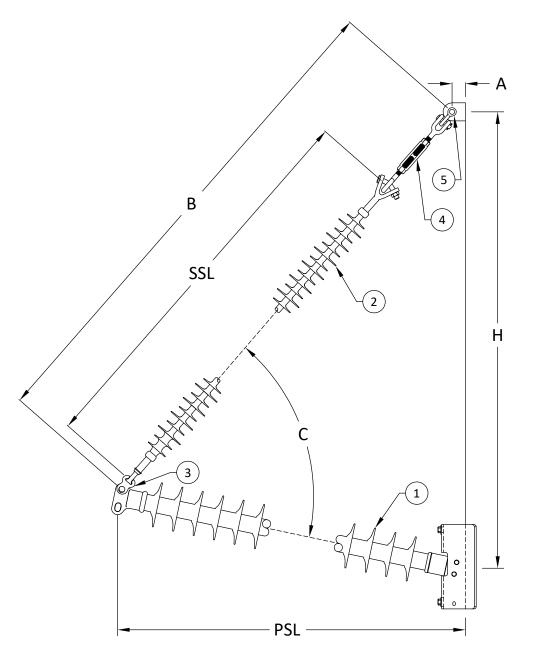
60 Hz Dry F.O. (Min. Withstand)	320 kV	(300) kV
60 Hz Wet F.O. (Min. Withstand)	295 kV	(229) kV
CIFO+ (Min. Withstand)	547 kV	(490) kV
CIFO- (Min. Withstand)	640 kV	(526) kV

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

ASSEMBLY MECHANICAL VALUES

Maximum Working Vertical Load 11,266 lbs 50.1 kN

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MPS Catalog Number

H2 90 10 035 MX SS 018

Date: 03/23/2022

Tower End Fittings

Gain / 12 deg / Steel

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

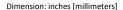
Material			
Corona Ring (Line):			None
Corona Rings are recommended for applicati	ons of 230 kV	and abov	e
Mounting Angle:			12 deg
Number of Sheds:			18
Rod Diameter:			2.5 in
Weight Estimate:	53.4	lbs	24 kg
Dimensional Values	s		
Section Length (L):	45.4	in	1,153 mm
Rubber Length (X):	35	in	889 mm
Shed spacing (S):	1.95	in	50 mm
Shed Projection (P):	1.86	in	47 mm
Dry Arc Distance:	37.3	in	947 mm
Leakage Distance:	95.6	in	2,427 mm
Electricals Values	;		
60 Hz dry Flashover (Min. Withstand):	360	kV	338 kV
60 Hz Wet Flashover (Min. Withstand):	333	kV	260 kV
CIFO Positive (Min. Withstand):	618	kV	553 kV
CIFO Negative (Min. Withstand):	705	kV	590 kV
Mechanical Values	6		
Max. Design Cant. Load (MDCL):	2,103	lbs	9.4 kN
Specified Cant. Load (SCL):	4,206	lbs	18.7 kN
Specified Tensile Load (STL):	15,000	lbs	66.7 kN

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5.8 [146] [2.0] [2

[50.8]

1.00R [25.4] 14.0



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:



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

MPS Catalog Number

S1 40 80 031 MX AL 019

Date: 03/23/2022

		Date.	03/23/	2022
End Fittings				
Tower End Fitting:	١	/-Clevis ,	/ Forged	Steel
Line End Fitting:		Ball ,	/ Forged	
			/ (ANSI	52-5)
Material				
Corona Ring (Line):			I	None
Corona Rings are recommended for applications	of 230 kV ar	nd above		
Number of Sheds:	9 large		10 star	ndard
Rod Diameter:			16	mm
Weight Estimate:	8.2	lbs	4	kg
Dimensional Values				
Section Length (L):	42.2	in	1,072	mm
Rubber Length (X):	31	in	787	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:	32.8	in	833	mm
Leakage Distance:	85.2	in	2,164	mm
Electricals Values				
60 Hz dry Flashover (Min. Withstand):	327	kV	304	kV
60 Hz Wet Flashover (Min. Withstand):	295	kV	257	kV
CIFO Positive (Min. Withstand):	566	kV	487	kV
CIFO Negative (Min. Withstand):	605	kV	531	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]

Dimension: inches [millimeters]

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Notes: Prepared By: Stephen Lucci

