MacLean™ POWER SYSTEMS

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

Braced Post Insulator Assembly

B2901049T12066MX

1) H2 90 10 039 MX SS 020	[1]
2) S1 40 80 036 VX SS 018	[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)	49.3 in	1,252 mm
Suspension Section Length (SSL)	47.6 in	1,209 mm
Height of Assembly (H)	66.0 in	1,676 mm
Length of Brace (B)	71.9 in	1,826 mm
Upper Pole Connection Offset (A)*	2.0 in	51 mm
Angle Between Insulators (C)		61 Degrees
Dry Arc Distance	39.4 in	1,001 mm
Leakage Distance	104.6 in	2,657 mm

*This connection bracket to be supplied by customer

ASSEMBLY ELECTRICAL VALUES*

60 Hz Dry F.O. (Min. Withstand)	379 kV	(356) kV
60 Hz Wet F.O. (Min. Withstand)	351 kV	(275) kV
CIFO+ (Min. Withstand)	652 kV	(583) kV
CIFO- (Min. Withstand)	735 kV	(620) kV

*Values shown are based on minimum electicals for the assembly

ASSEMBLY MECHANICAL VALUES

Maximum Working Vertical Load	11,241 lbs	50.0 kN

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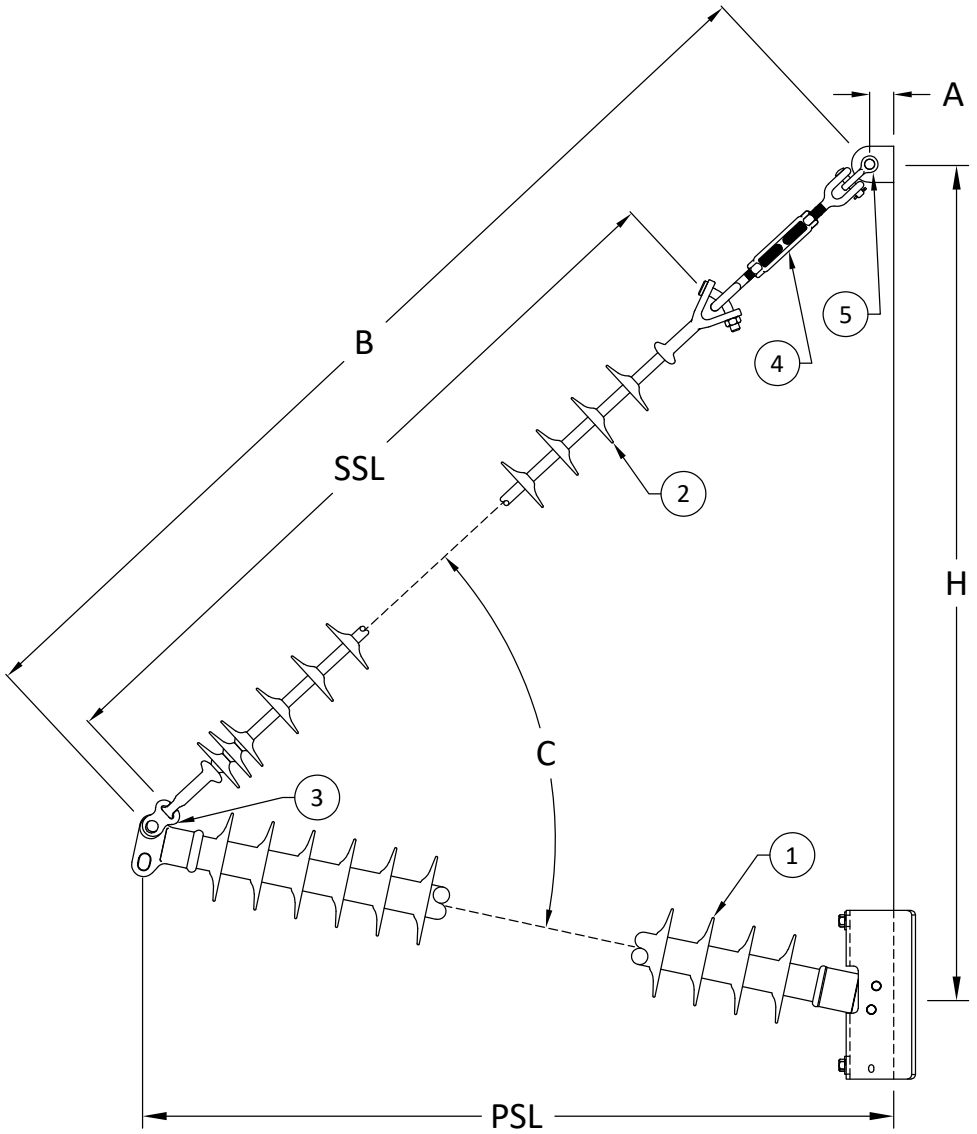

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MPS Catalog Number **H2 90 10 039 MX SS 020**

Date: 03/23/2022

End Fittings

Tower End Fitting:	Gain / 12 deg / Steel
Line End Fitting:	2 HL Drop Tongue / Galv. Ductile Iron

Material

Corona Ring (Line):		None
Corona Rings are recommended for applications of 230 kV and above		
Mounting Angle:		12 deg
Number of Sheds:		20
Rod Diameter:		2.5 in
Weight Estimate:	55.6 lbs	25 kg

Dimensional Values

Section Length (L):	49.3 in	1,252 mm
Rubber Length (X):	39 in	991 mm
Shed spacing (S):	1.95 in	50 mm
Shed Projection (P):	1.86 in	47 mm
Dry Arc Distance:	41.2 in	1,046 mm
Leakage Distance:	106.1 in	2,696 mm

Electricals Values

60 Hz dry Flashover (Min. Withstand):	395 kV	371 kV
60 Hz Wet Flashover (Min. Withstand):	366 kV	287 kV
CIFO Positive (Min. Withstand):	680 kV	608 kV
CIFO Negative (Min. Withstand):	759 kV	646 kV

Mechanical Values

Max. Design Cant. Load (MDCL):	1,912 lbs	8.5 kN
Specified Cant. Load (SCL):	3,824 lbs	17 kN
Specified Tensile Load (STL):	15,000 lbs	66.7 kN

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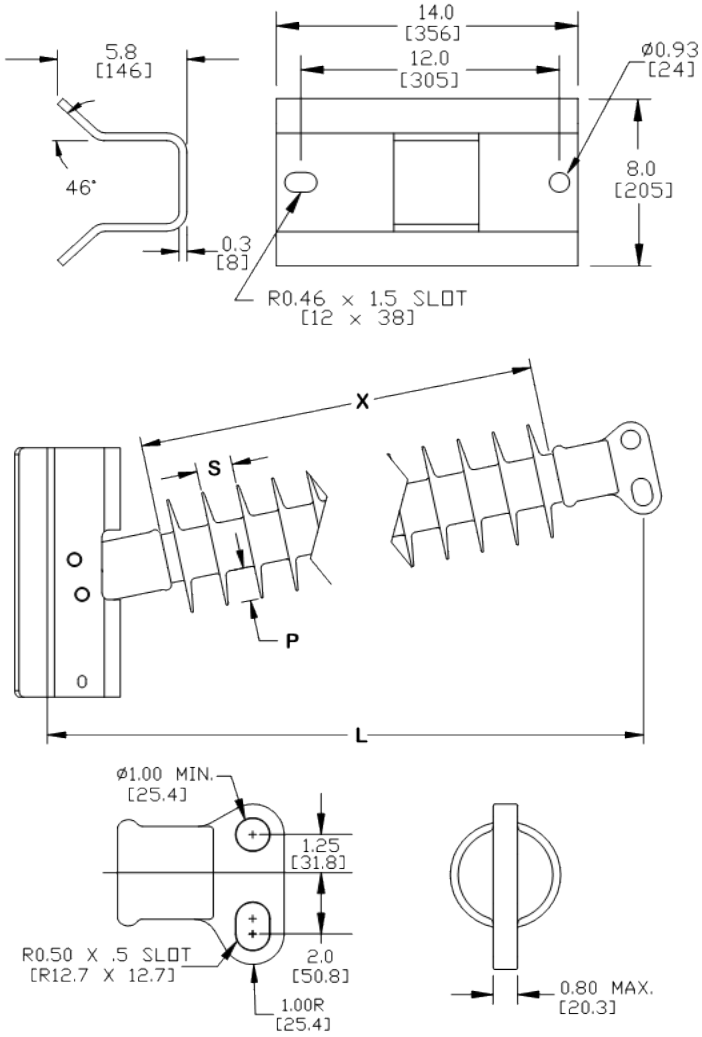

Dimension: inches [millimeters]

NOTE: Drawing not actual depiction of insulator appearance.

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

Notes:

Prepared By: Stephen Lucci

MacLean™ POWER SYSTEMS

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MPS Catalog Number: **S1 40 80 036 VX SS 018**

Date: 03/23/2022

End Fittings

Tower End Fitting:	Y-Clevis
Line End Fitting:	Ball (ANSI 52-5)

Material

Corona Ring (Tower):	None
Corona Ring (Line):	None

Corona Rings are recommended for applications of 230 kV and above

Number of Sheds:		18 Standard
Rod Diameter:		16 mm
Weight Estimate:	10.2 lbs	5 kg

Dimensional Values

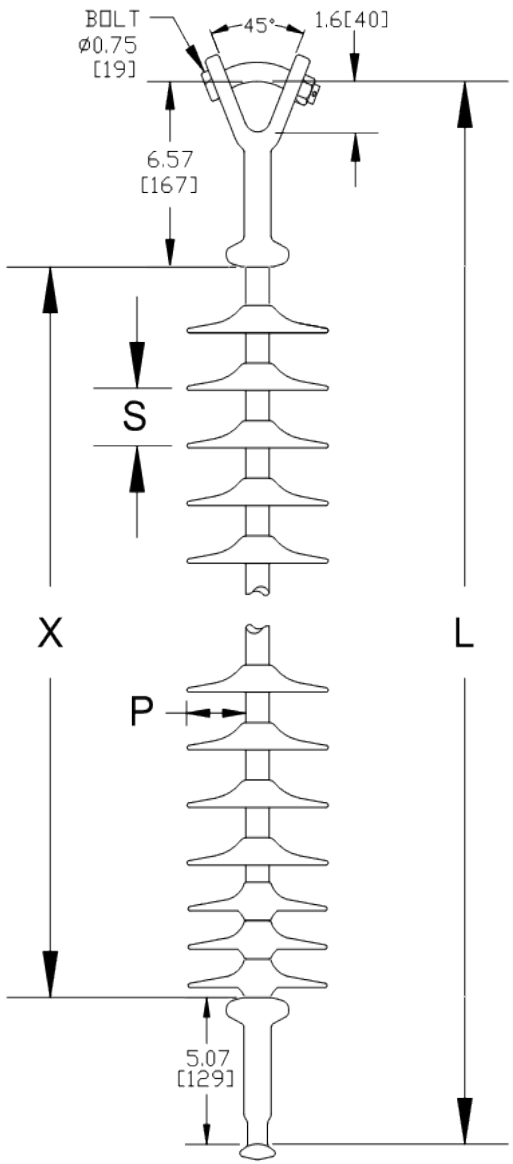
Section Length (L):	47.6 in	1,209 mm
Rubber Length (X):	36 in	914 mm
Standard Shed Height (P):	2.1 in	54 mm
Shed Spacing (S):	2.08 in	53 mm
Dry Arc Distance:	39.4 in	1,001 mm
Leakage Distance:	104.6 in	2,657 mm

Electricals Values

60 Hz dry Flashover (Min. Withstand):	389 kV	362 kV
60 Hz Wet Flashover (Min. Withstand):	351 kV	305 kV
CIFO Positive (Min. Withstand):	672 kV	580 kV
CIFO Negative (Min. Withstand):	715 kV	626 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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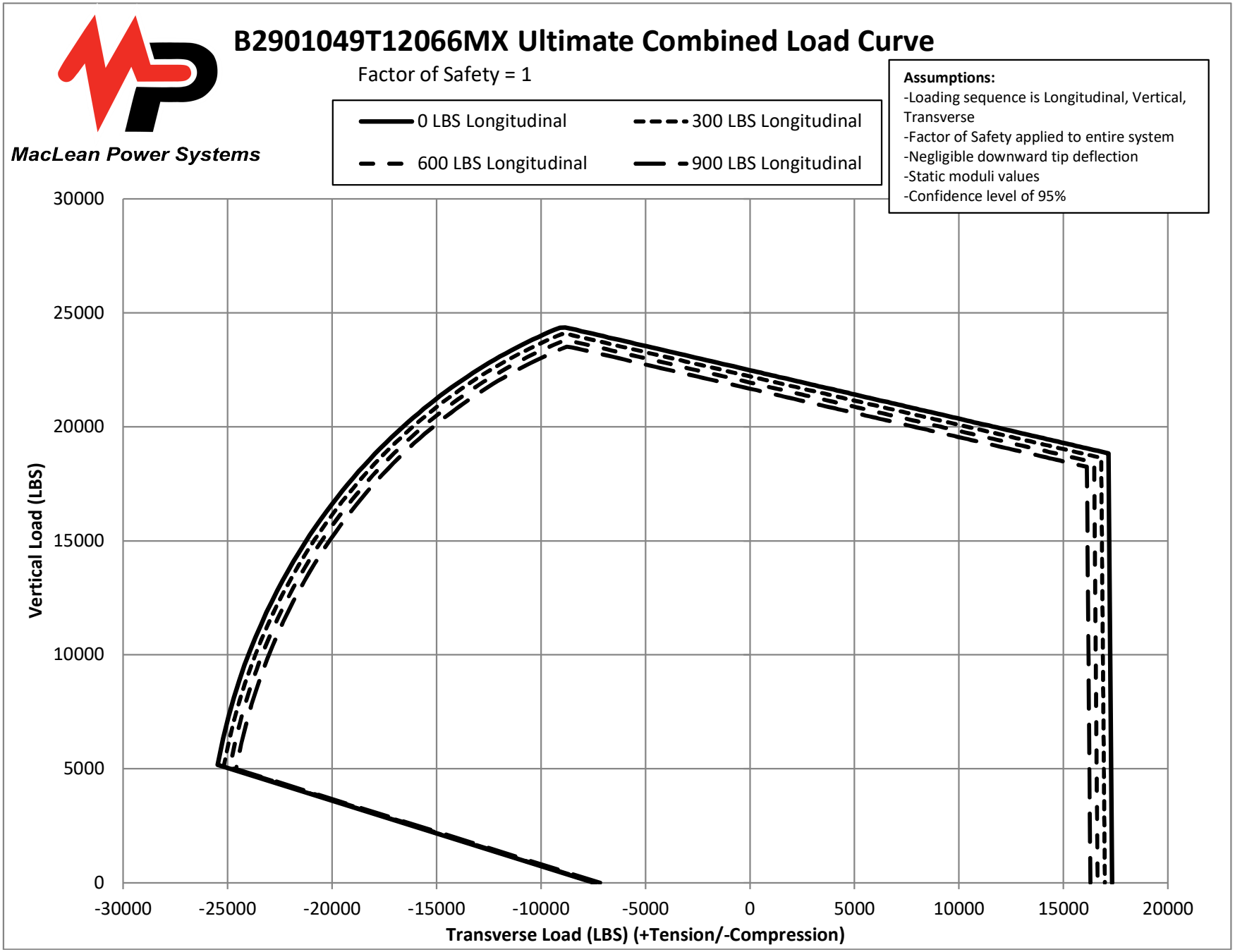
B2901049T12066MX Ultimate Combined Load Curve

Factor of Safety = 1



3/23/2022