

SPECIFICATION

REVISION NO.: 10

PAGE 1 OF 1

NAME OF OR DEVICE: 115kV Horizontal Post - 69kV Horizontal Post Insulators

DATE: April 17, 1995

APPROVED BY STANDARDS COMMITTEE

REVISION DATE: September 20, 2024

APPROVED: Mitchell Betonie
Engineer

Insulators supplied under this specification shall be in compliance with the latest revisions of the applicable ANSI, USASI, and NEMA standards.

SPECIFIC REQUIREMENTS:

	115kV Horizontal Post	69kV Horizontal Post
1. Minimum Dimensions:		
a. Leakage Distance, minimum inches	112	70
b. Arcing Distance, minimum inches	42	25
2. Minimum Mechanical Values:		
a. Maximum Design Cantilever Pounds	1,510	2,090
b. Tension & Compression Working Load Pounds	7,500	7,500
3. Electrical Values:		
a. Operating Voltage, kV	121	72.5
b. 60 hz Frequency Dry Flashover, kV	414	220
c. 60 hz Frequency Wet Flashover, kV	372	195
d. Critical Impulse Flashover - Positive, kV	685	345
e. Critical Impulse Flashover - Negative, kV	737	432
4. Catalog Numbers:		
FEUS Inventory Stock#	E1519	E1510
NGK Locke	L2-SN291-13	L2-SN-181-13
Hubbell Power System	P250043S0020	
MacLean Power Systems	H2 90 10 043 MX SS 022	
5. The color of the insulators shall be gray.		
6. Only Silicon insulators are acceptable.		
7. Fittings/mounting hardware		
a. Horizontal Post - Two-Piece Gain base for 7" or larger pole; line end 2-I" holes-tongue.		

NOTE TO WAREHOUSE: Do not accept if catalog numbers do not match.



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

MPS Catalog Number

H2 90 10 043 MX SS 022

Date: 09/27/2022

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:

22

Rod Diameter:

2.5 in

Weight Estimate:

57.9 lbs

26 kg

Dimensional Values

Section Length (L):	53.3 in	1,354 mm
Rubber Length (X):	43 in	1,092 mm
Shed spacing (S):	1.95 in	50 mm
Shed Projection (P):	1.86 in	47 mm
Dry Arc Distance:	45.1 in	1,145 mm
Leakage Distance:	116.7 in	2,965 mm

Electricals Values

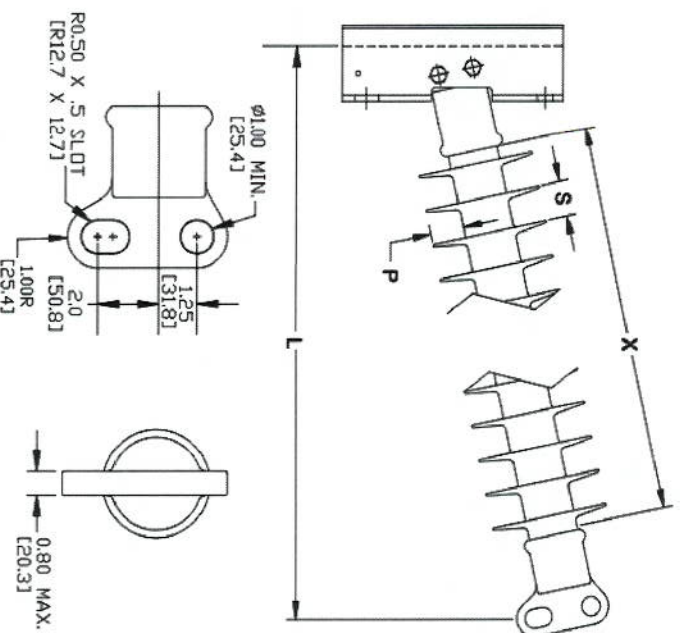
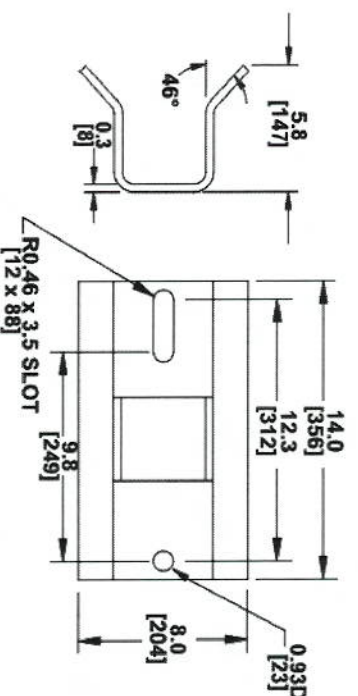
60 Hz dry Flashover (Min. Withstand):	429 kV	403 kV
60 Hz Wet Flashover (Min. Withstand):	398 kV	313 kV
CIFO Positive (Min. Withstand):	742 kV	662 kV
CIFO Negative (Min. Withstand):	809 kV	701 kV

Mechanical Values

Max. Design Cant. Load (MDCL):	1,748 lbs	7.8 kN
Specified Cant. Load (SCL):	3,496 lbs	15.6 kN
Specified Tensile Load (STL):	15,000 lbs	66.7 kN

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Notes:



Dimension: inches [millimeters]

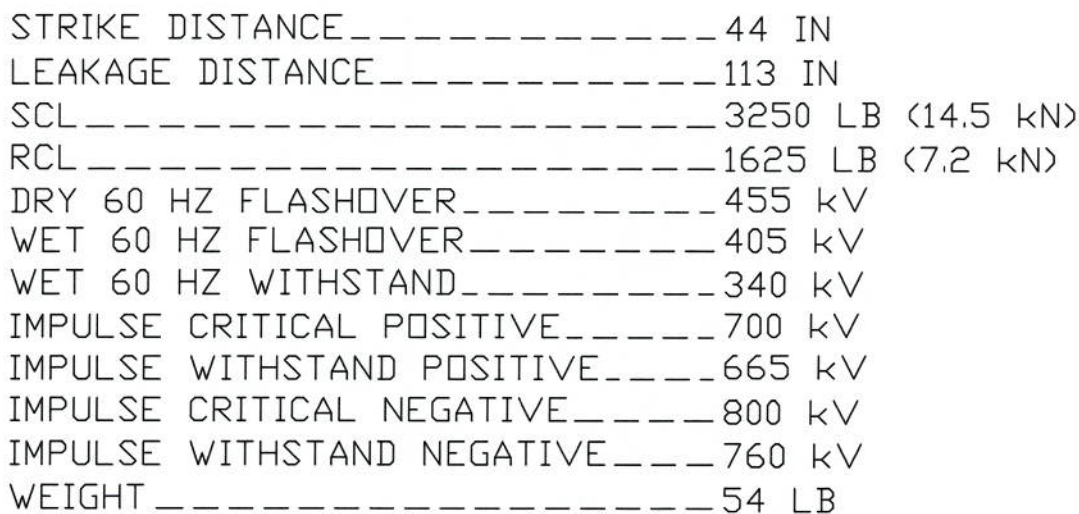
NOTE: Drawing not actual depiction of insulator appearance.

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

Prepared By: Dylan Huegel

285 043 1519

FLOOD WASHABLE
SILICONE RUBBER HOUSING

ELECTRICAL CHARACTERISTICS IN
ACCORDANCE WITH ANSI C29.1-1988

REV DATE 01/31/18



TITLE

QUADRI*SIL LINE
POST SERIES 250

SIZE

DWG NO.

CAT	PART	ASSY NO.
1	2	3
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REV

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ER 250-QP P250043S0020

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DO NOT SCALE
THIS DRAWING

DRN BY NON

DATE 08/27/07

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