







TWO PRIMARY REQUIREMENTS

Original Bushing Nameplate

- Manufacturer
- Catalog Number
- Serial Number
- Bushing Type
- Voltage Class
- BIL
- Current Rating

Replacement Bushing Application

- TBI Interchangeability
- Bushing Mounting Angle
- Seismic / Cantilever Capabilities
- Special Dimensional Requirements
- Overload Capabilities
- Contaminated Environments (Creepage)



APPLICATION EXAMPLES

Breaker application with test terminals and rigid pipe connections



APPLICATION EXAMPLES

25kV-10,000A GSU Bushings in an Enclosed Bus Duct Horizontal Mount
Solid Porcelain Bushing Application





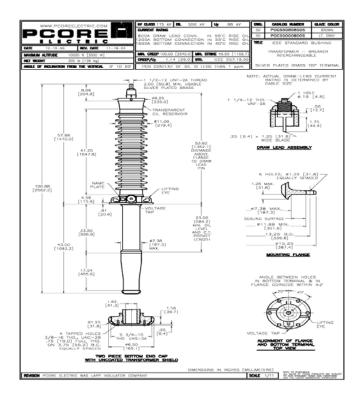


BUSHING OUTLINE DRAWINGS

General Electric 115kV Bushing

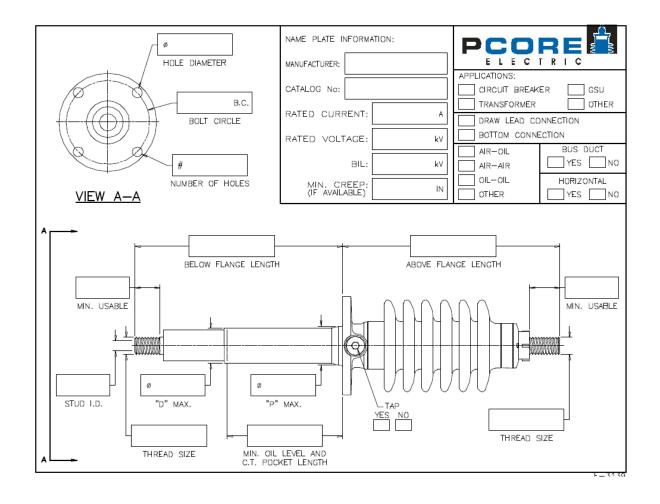
BUSHING COMMITTER VITAMS OF CO. 43.4381.125 52.3751,375-36.250:.260 CEFFECTIVE GRD
SLEEVE LENGTH
MTG REQUIRED OIL
SURFACE IMMERSION LEVIL FIG 1 MAY BE COMERTED TO FIG'S BOT WASH
BY CHANGING TOP ACCESSORES DETAIL. -501.375-THERUISE SAME AS FIG. 1 FOR BOT IN THE PROPERTY OF FIG. 1 FOR BOT IN THE PROPERTY OF FIG. 1 MASHER IN THE PROPERTY OF ACCESSORIES DETAIL OF THE PROPERTY OF T -312 DIA DETAIL DE LV OUTLET DETAIL OF BOT WASH FIG 4
DETAIL OF BOT WASH OCB TRANS 11B40IBB 2 118401 OCB BOT COM BOT COMM 550 88 KV GAL. 800 TRANS DET CA HB400 HB400BB I PITTS FIRE D 3942C8

PCORE Electric 115kV Bushing





BUSHING OUTLINE DRAWING



BUSHING COMPARATIVE ANALYSIS

BUSHING COMPARATIVE ANALYSIS

	General Electric 7B590BB	PCORE Electric Co. 89593-70
RATING:	69 kV 350 BIL 400/1200 AMP	69 kV 350 BIL 400/1200 AMP
CREEPAGE:	N/A	69.50
MIN. OIL LEVEL:	21.00	21.00
BELOW FLANGE:	37.50	37.50
ABOVE FLANGE:	35.19	36.88
MAX DIA. BELOW FLANGE:		
UP TO 1" - P:	5.75	4.50
BELOW 1" - D:	5.16	4.00
TOP TERMINAL:	1 1/2-12 Thread 2.25 Min. Usable Silver Plated	1 1/2-12 Thread 2.50 Min. Usable Silver Plated
FLANGE DETAIL BOLT CIRCLE: # HOLES / DIA.:	9.25 B.C. (6) .88 Dia. Slots	9.25 B.C. (6) .88 Dia. Holes
DRAW LEAD HOLE:	.88 I.D.	.88 I.D.
BOTTOM TERMINAL:	1 1/2-12 Thread 2.38 Min. Usable	1 1/2-12 Thread 2.12 Min. Usable

- Catalog Number
- kV Class
- Current Rating
- Creepage
- Minimum Oil Level
- C.T. Pocket Length
- Above Flange Length
- Below Flange Length
- Bushing Diameters
- Flange Detail
- Top Terminal
- Bottom Terminal



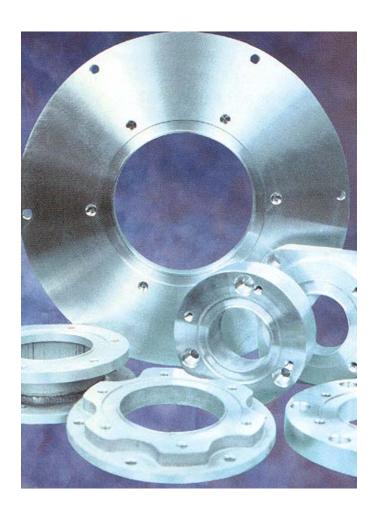
PCORE BUSHING REPLACEMENTS

PCORE Bushing Modification Capabilities

- Above Flange Length
- Below Flange Length
- Top and Bottom Terminals
- Minimum Oil Level Dimension
- Porcelain Creepage Requirements
- Mounting Flange Modifications



PCORE FLANGE ADAPTORS



- Difference in bolt circle and/or number of mounting holes
- Vertical adjustment of replacement bushings
- Raised ring on transformer / OCB tank opening

PCORE POC DRAW-LEAD ADAPTORS

May be supplied for use with 115kV bushings and above

- G.E. Type-U (1 1/4" 12 Thread)
- WH Type-O+C (1"- 14 Thread)



CONCLUSION

Original Bushing Nameplate

Contains important information about original manufacturer's bushing

Bushing Applications

TBI, mounting angles, overload and ambient temperature extremes, etc.

Outline Drawings

Original drawing compared to PCORE's to ensure PCORE bushing is an equivalent

Comparative Analysis

Electrical and dimensional comparison between bushings

Modifications and Adaptors

Flange adaptors and draw-lead terminal adaptors

Bushing Repair

Types of bushing repair





Thank You!

Questions, comments, concerns?





