

ATTACHMENT: TECHNICAL SPECIFICATIONS OF POTENTIAL TRANSFORMER (Doc No. 03B)

Nominal System Voltage	13.8kV	24kV	34.5kV	69kV	115kV	138kV	230kV
Description	13.8KV Potential Transformer	24KV Potential Transformer	34.5KV Potential Transformer	69KV Potential Transformer	115KV Potential Transformer	138KV Potential Transformer	230KV Potential Transformer
Insulation Type	Cast-Resin, Dry Type	Cast-Resin, Dry Type	Cast-Resin, Dry Type	Oil & Paper, Minimum Oil-filled or Dry Type	Oil & Paper, Minimum Oil-filled	Oil & Paper, Minimum Oil-filled	Oil & Paper, Minimum Oil-filled
Type	Single phase, Inductive						
Maximum Continuous Voltage	15.5kV	25.5kV	36.5kV	72.5kV	123kV	145kV	245kV
Basic Insulation Level							
1. Power frequency withstands, RMS	34kV	50kV	70kV	140kV	230kV	275kV	460kV
2. Lightning Impulse withstand, crest	110kV	150kV	200kV	350kV	550kV	650kV	1050kV
Rated Frequency	60Hz						
Installation	Outdoor, Pedestal Mounted						
Mounting Altitude	Up to 1000m						
Ingress Protection	IP44 minimum						
Temperature, ambient	Up to 40°C, 30°C average						
Temperature Rise Limit, winding	Up to 65°C						
Wind Velocity	Up to 280kph						
Primary terminal shall withstand:							
1. Static Load	-	-	-	500N	1000N	1000N	1500N
2. Dynamic Load	-	-	-	700N	1400N	1400N	2100N
Seismic Condition	-	-	-	0.5g	0.5g	0.5g	0.5g
Insulator Characteristics							
1. Materials	Cycloaliphatic Resin	Cycloaliphatic Resin	Cycloaliphatic Resin	Cycloaliphatic Resin, Porcelain or Composite	Porcelain or Composite	Porcelain or Composite	Porcelain or Composite
2. Voltage Class	15.5kV	25.5kV	36.5kV	72.5kV	123kV	145kV	245kV
3. Creepage Length, minimum	25mm/kV	25mm/kV	25mm/kV	31mm/kV	31mm/kV	31mm/kV	31mm/kV
4. Color, preferred	Brown, Gray, Black	Brown, Gray, Black	Brown, Gray, Black	Chocolate brown	Chocolate brown	Chocolate brown	Chocolate brown
Oil Sight Glass	-	-	-	To be provided if applicable	To be provided	To be provided	To be provided

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ANNEX 03B: PT RATIO TABLE
Revision No.: 01

Nominal System Voltage	13.8kV	24kV	34.5kV	69kV	115kV	138kV	230kV
Material Code							
PT Ratio	8400V:120V	14400V:120V	20125V:115V	40250V:115V	69000V:115V	80500V:115V	138000V:115V
Marked Ratio	70:1	120:1	175:1	350:1	600:1	700:1	1200:1
Termination	Line to Ground, Single Bushing	Line to Ground	Line to Ground	Line to Ground	Line to Ground	Line to Ground	Line to Ground
Material Code							
PT Ratio	14400V:120V	-	-	-	-	-	-
Marked Ratio	120:1	-	-	-	-	-	-
Termination	Line to Line, Double Bushing	-	-	-	-	-	-