



**POWER TRANSFORMERS (ANSI) -
DRY TYPE -
ELECTRICAL DATA SHEET**

DOCUMENT NO. **DS 12-052**

JOB NO. _____ ITEM / TAG NO. _____
PURCHASE ORDER NO. _____
REQ. / SPEC. NO. _____
REVISION NO. _____ DATE _____ BY _____
PAGE **1** OF **4**

1 FOR/USER _____ EQUIPMENT _____
2 SITE/LOCATION _____ TRANSFORMER MANUFACTURER _____
3 TRANSFORMER VENDOR _____ SUPPLIER PROJECT NO. _____

4 Applicable To: ☒ Proposal ☒ Purchase ☒ As built
5 NOTE: ☒ DATA SHEET STATUS ☐ INDICATES INFO. TO BE COMPLETED BY PURCH ☐ BY MANUFACTURER WITH PROPOSAL ☐ BY MANUFACTURER AFTER ORDER ☐ BY MANUFACTURER OR PURCHASER AS APPLICABLE

TRANSFORMER DATA

6 ☐ **TRANSFORMER NAMEPLATE LETTERING:**
7 LINE NUMBER 1 _____
8 LINE NUMBER 2 _____
9 LINE NUMBER 3 _____

10 ☐ **SITE CONDITIONS:**
11 ALTITUDE: _____ FT
12 AMBIENT TEMP.: MIN.: _____ °C MAX.: _____ °C
13 HUMIDITY: _____ % OTHER: _____
14 ☐ NON CLASSIFIED ☐ CLASSIFIED
15 AREA CLASS: _____ DIVISION.: _____ GROUP: _____
16 AUTO IGNITION TEMP.: _____ °C
17 ☐ INDOOR ☐ OUTDOOR
18 ☐ SEISMIC DESIGN CATEGORY: _____
19 ☐ OTHER: _____

20 ☐ **ELECTRICAL DESIGN CONDITIONS**
21 _____ KVA _____ PHASE _____ HERTZ
22 PRIMARY LINE VOLTAGE: _____ V
23 CONNECTION: ☐ Δ ☐ Y ☐ OTHER: _____
24 SECONDARY LINE VOLTAGE: _____ V
25 CONNECTION: _____

COOLING DATA
☐ VENTILATED SELF-COOLED CLASS AA
☐ VENTILATED FORCED-AIR-COOLED CLASS AFA
☐ VENTILATED SELF-COOLED FORCED AIR COOLEI CLASS AA/FA
☐ NONVENTILATED SELF-COOLED CLASS ANV
☐ SEALED SELF-COOLED CLASS GA
☐ PROVISIONS FOR FANS ONLY

TYPE CONSTRUCTION
☐ CAST-COIL (ALL WINDINGS)
☐ VENTILATED
☐ NON-VENTILATED
☐ SEALED
OTHER: _____

POWER SYSTEMS ANALYSIS DATA
☐ POSITIVE SEQUENCE IMPEDANCE: _____ %Z
☐ ZERO SEQUENCE IMPEDANCE: _____ %Z
☐ IMPEDANCE OVER RESISTANCE RATIO: _____ X/R
☐ IMPEDANCE TOLERANCE AS % OF NOM. VALUE: _____ %



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TRANSFORMER DATA Continued

☐ **TECHNICAL DATA**

TEMPERATURE RISE AT SERVICE CONDITION *: °C
TRANSFORMER IMPEDANCE AT LOWEST
SELF-COOL RATING: %Z
TRANSFORMER RATING AT SERVICE LOCATION:
LOCATION *: MVA
NO-LOAD LOSS: kW
FULL-LOAD LOSS: kW

☐ **STEEL**

MATERIAL FOR TANK:
☐ GALVANIZED ☐ STAINLESS STEEL
☐ MANUFACTURER'S STANDARD:
MATERIAL FOR RADIATORS:
☐ GALVANIZED ☐ STAINLESS STEEL
☐ MANUFACTURER'S STANDARD:
MATERIAL FOR TANK CONNECTIONS AND COVERS:
☐ GALVANIZED ☐ STAINLESS STEEL
☐ MANUFACTURER'S STANDARD:
COLOR:
☐ ANSI 61 GRAY ☐ OTHER:

☐ **PRIMARY VOLTAGE CABLE**

NUMBER AND SIZE PER PHASE: - AWG
NUMBER AND SIZE OF GROUNDS: - AWG

REQUIRED FOR PRIMARY VOLTAGE

☐ TERMINAL CHAMBER
☐ THROAT / TRANSITION SECTION
☐ COVER/OPEN BUSHING
☐ FUSED LOAD BREAK SWITCH
☐ LINE SELECTOR SWITCH
☐ BUSHING CURRENT TRANSFORMER
☐ LIGHTNING ARRESTORS

REQUIRED FOR SECONDARY VOLTAGE

TERMINAL CHAMBER
☐ THROAT / TRANSITION SECTION
☐ BUSHING CURRENT TRANSFORMER (PHASE)
☐ BUSHING CURRENT TRANSFORMER (NEUTRAL)
☐ NEUTRAL GROUNDED
☐ GROUNDING RESISTOR
☐ COVER / OPEN BUSHING

PRIMARY VOLTAGE LOADBREAK SWITCH

☐ MANUFACTURER:
☐ TYPE:

SWITCH:

☐ CURRENT RATING AT SERVICE CONDITION *: A
☐ MOMENTARY RATING: KA
 AIR OIL FILLED



Documents

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TRANSFORMER DATA Continued

PRIMARY CURRENT TRANSFORMER (CT):

- ☐ SEC. AMP RATING: 5A ☐ RATIO: _____
☐ ACCURACY CLASS: _____ ☐ QUANTITY: _____
☐ WIRE INSULATION OF CT: _____
☐ BURDEN OF METERING & RELAYING CT: _____
☐ MANUFACTURER: _____
☐ OTHER: _____

SECONDARY CURRENT TRANSFORMER (CT):

- ☐ SEC. AMP RATING: 5A ☐ RATIO: _____
☐ ACCURACY CLASS: _____ ☐ QUANTITY: _____
☐ WIRE INSULATION OF CT: _____
☐ BURDEN OF METERING & RELAYING CT: _____
☐ MANUFACTURER: _____
☐ OTHER: _____

NEUTRAL CURRENT TRANSFORMER (CT):

- ☐ SEC. AMP RATING: 5A ☐ RATIO: _____
☐ ACCURACY CLASS: _____ ☐ QUANTITY: _____
☐ WIRE INSULATION OF CT: _____
☐ BURDEN OF METERING & RELAYING CT: _____
☐ MANUFACTURER: _____
☐ OTHER: _____

GROUNDING CURRENT TRANSFORMER (CT):

PRIMARY WINDING

- ☐ BASIC IMPULSE LEVEL (PHASE) *: _____ BIL KV
☐ EFFECTIVE BIL AT 3300 FT ELEVATION: _____ BIL KV
☐ MINIMUM CREEPAGE DISTANCE: _____ INCH
☐ BASIC IMPULSE LEVEL (NEUTRAL) *: _____ BIL KV
☐ EFFECTIVE BIL AT 3300 FT ELEVATION: _____ BIL KV
☐ MINIMUM CREEPAGE DISTANCE: _____ INCH
_____ KV

SECONDARY WINDING

- ☐ BASIC IMPULSE LEVEL (PHASE) *: _____ BIL KV
☐ EFFECTIVE BIL AT 3300 FT ELEVATION: _____ BIL KV
☐ MINIMUM CREEPAGE DISTANCE: _____ INCH
☐ BASIC IMPULSE LEVEL (NEUTRAL) *: _____ BIL KV
☐ EFFECTIVE BIL AT 3300 FT ELEVATION: _____ BIL KV
☐ MINIMUM CREEPAGE DISTANCE: _____ INCH
_____ KV

GROUNDING DEVICE

- ☐ RESISTOR ☐ REACTOR ☐ SOLID ☐ OPEN
☐ MANUFACTURER: _____
☐ MODEL NUMBER: _____
☐ STYLE NUMBER: _____
☐ RESISTOR H.V. WINDING VOLTAGE RATING: _____ KV
☐ RESISTOR L.V. WINDING VOLTAGE RATING: _____ V
☐ GROUND CURRENT IN RESISTOR OR REACTOR: _____ A
☐ RESISTOR H.V. WINDING BIL: _____ KV

