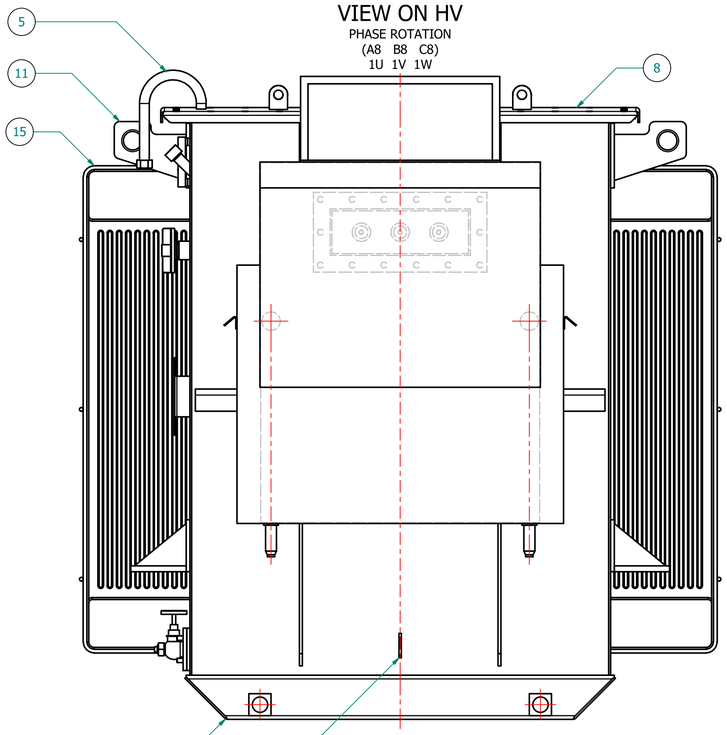
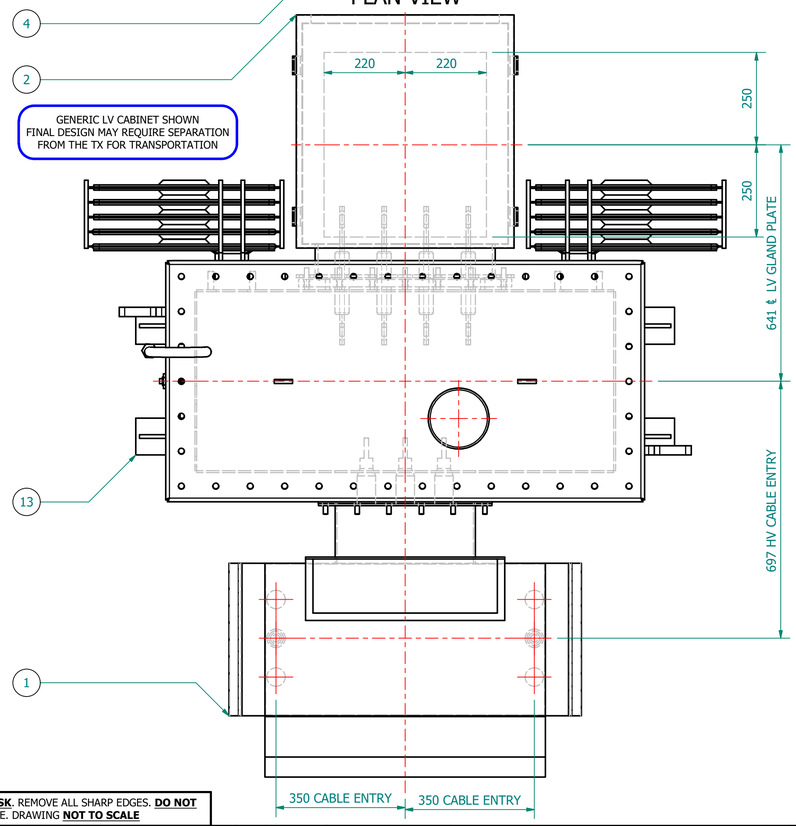
## VIEW ON HV

PHASE ROTATION
(A8 B8 C8)
1U 1V 1W



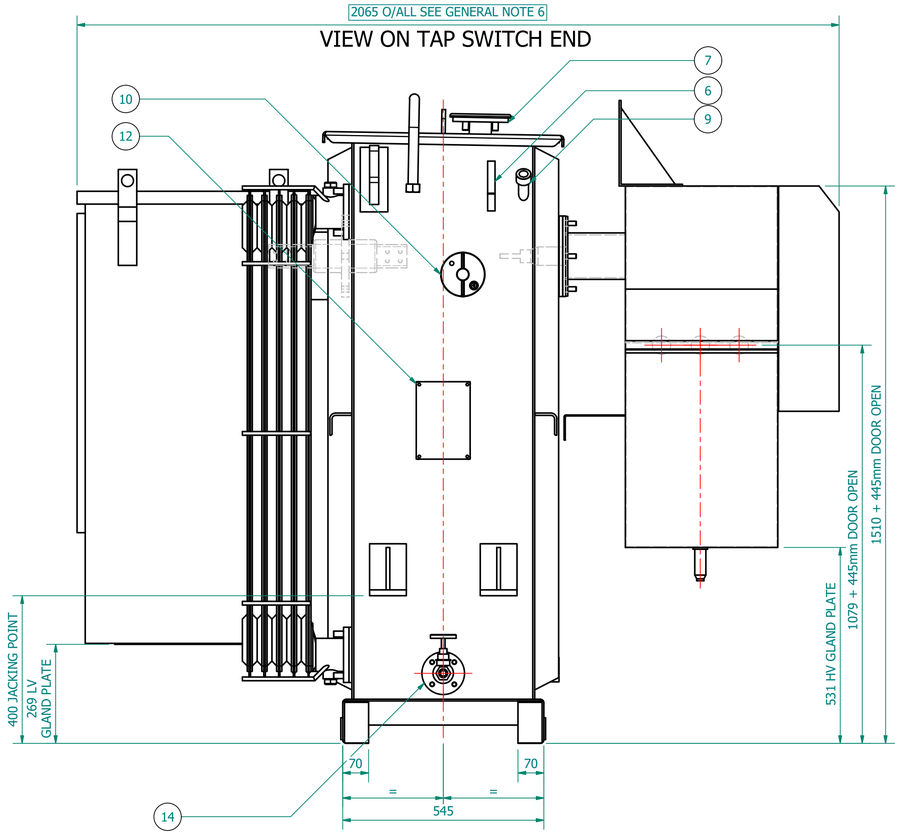

## PLAN VIEW




GENERIC LV CABINET SHOWN
FINAL DESIGN MAY REQUIRE SEPARATION
FROM THE TX FOR TRANSPORTATION

## VIEW ON TAP SWITCH END

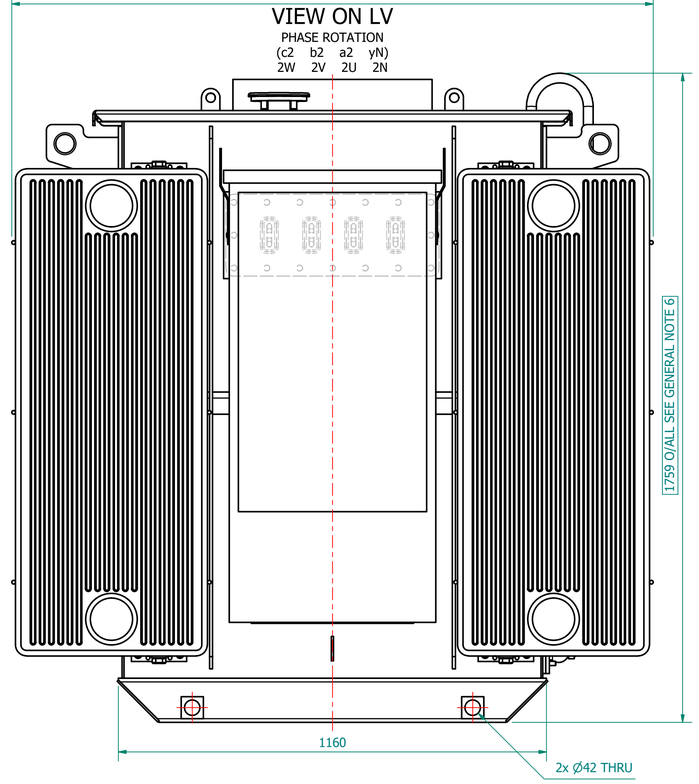
2065 O/ALL SEE GENERAL NOTE 6




## VIEW ON LV

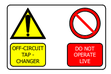
1738 O/ALL

PHASE ROTATION
(c2 b2 a2 yN)
2W 2V 2U 2N




## ESSENTIAL LABELS

ITEM 10 — TAP CHANGER WARNING LABEL




ITEM 6 — COLD COOLANT LEVEL

ITEM 2 — LV WARNING LABEL

ITEM 1 — HV WARNING LABEL

| TRANSFORMER WEIGHT & VOLUME | | |
|---|---|---|
| CORE AND WINDING | kg | 1080 |
| TANK AND FITTING | kg | 670 |
| COOLING LIQUID VOLUME | L | 550 |
| COOLING LIQUID WEIGHT | kg | 450 |
| TOTAL TX WEIGHT | kg | 2200 |
| ADDITIONS TO THE TRANSFORMER WEIGHT | | |
| RN2d RMU WEIGHT | kg | 300 |
| LV CABINET WEIGHT | kg | ——— |

| 500kVA ELECTRICAL RATINGS | | | | | |
|---|---|---|---|---|---|
| No Load Voltage Ratio at Normal Tap | HV Tappings | Vector Group | Frequency | Full-Load Current at Normal Tap | |
| | | | | HV Side | LV Side |
| 11000 / 415V | +7.5 to -5.0% in 2.5% INCREMENTS | Dyn11 | 50Hz | 26.2A | 695.6A |
| Design Impedance at Normal Tap | No Load Losses at rated Voltage & Frequency | Full Load Losses at rated Current & at 75°C Temp. | Temp. Rise above Ambient 40°C | | |
| | | | in Oil by Therm. | in Wdg. by Res. | |
| 4.75% | 510W | 5500W | 60°C | 65°C | |

| GENERAL NOTES | |
|---|---|
| 1 | ALL DIMENSIONS ARE IN 'mm'. |
| 2 | ALL DIMENSIONS/WEIGHTS ARE SUBJECT TO ± 10% TOLERANCE. |
| 3 | ELECTRONIC SCALE - 1:1 (ONLY WRITTEN DIMENSIONS TO BE FOLLOWED). |
| 4 | TOLERANCE ON IMPEDANCE PER IEC:60076. |
| 5 | PAINT SHADE.: 632 AS PER BS:381C (SEMI GLOSS) TO ISO12944 - MIN C4 SPEC. |
| 6 | O/ALL DIM IS SUBJECT TO EQUIPMENT DOOR OPENING DISTANCES. |
| 7 | |
| 8 | |
| 9 | |

| ITEM | QTY | DESCRIPTION |
|---|---|---|
| | | PARTS LIST |
| 15 | 2 | DETACHABLE RADIATORS with AIR-RELEASE & DRAIN PLUG (520W x 1200C x 5S x 40P) |
| 14 | 1 | DRAIN VALVE (25NB) with MALE PLUG |
| 13 | 4 | JACKING PADS |
| 12 | 1 | RATING & DIAGRAM PLATE (SS) |
| 11 | 2 | TRANSFORMER LIFTING LUGS |
| 10 | 1 | OFF-CIRCUIT TAP SWITCH (6-Position & Padlockable) |
| 9 | 1 | THERMOMETER POCKET (3/4" BSP MALE THREAD) |
| 8 | 1 | TOP COVER with LIFTING LUGS (x2) |
| 7 | 1 | OIL FILLING PIPE WITH FLANGED COVER |
| 6 | 1 | OIL LEVEL GAUGE (with 15°) COLD OIL LEVEL MARK |
| 5 | 1 | AIR VENT PIPE (3/4") FOR DEHYDRANT BREATHER |
| 4 | 2 | EARTHING TERMINAL (FLAT TYPE suitable for M12 Bolt) |
| 3 | 1 | TRANSFORMER BASE (SKID TYPE) c/w HAULAGE HOLES |
| 2 | 1 | LV CABINET, BOTTOM ENTRY, GENERIC MODEL - SUBJECT TO CHANGE (FACING-'F', BS:2562) |
| 1 | 1 | HV RMU - 11kV, 200A, GCB, 630A BUS [Schneider RN2d-Tx/21] x PROTECTION, (FACING-'E' BS:2526) |

IF IN DOUBT - **ASK**. REMOVE ALL SHARP EDGES. **DO NOT** SCALE. DRAWING **NOT TO SCALE**

BASED ON:

LAST DEFINITION

| REV | REV BY | VERIFIED | APPROVED | DESCRIPTION |
|---|---|---|---|---|

LAST REVISION

| REVISION DESCRIPTION | REV |
|---|---|
| ORIGINAL | 00 |
| DATE | 22-AUG-2018 |
| REV. BY: | F. MEHMOOD |
| VERIFIED: | |
| APPROVED: | |

| | |
|---|---|
| PROJECT | |
| CUSTOMER | |
| S.O. NUMBER | |
| P.O. NUMBER | |
| W.O. NUMBER | |

DRAWING TITLE

GENERAL ARRANGEMENT DRAWING FOR
500kVA WILSON e1 ECOTRANS
11000/415V, 50Hz, Dyn11, ONAN/KNAN
AL WOUND DISTRIBUTION TRANSFORMER
LV CABINET & RN2d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| DRAWN BY: | F. MEHMOOD | DATE: | 24/08/2016 | DRG NO: | **WPS-500-AL-A007** |
|---|---|---|---|---|---|