



- ### NOTES
- THIS SERVICE BOARD IS DESIGNED FOR 1000kVA OR LESS TYPE SUBSTATION SUBSTATIONS.
 - ALL MATERIALS SHOWN CAN BE SUBSTITUTED AS LONG AS THE SUBSTITUTE COMPONENT PROVIDES SIMILAR OR BETTER PERFORMANCE THAN THE ONE SHOWN. DETAILS PROVING THE PERFORMANCE OF OTHER PRODUCTS MUST BE SUBMITTED FOR ACCEPTANCE, IN ACCORDANCE WITH THE REQUIREMENTS OF NETWORK STANDARD NS181, BEFORE USE.
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH RELEVANT NETWORK STANDARDS.
 - DRILLING DETAILS FOR THE M.D.I. UNIT AND MOULDED LINKS ONLY ARE SHOWN. FOR ALL OTHER COMPONENTS REFER TO THE MANUFACTURE FOR DETAILS.
 - DRILLING DETAILS, DIAMETER OF HOLES.
A - 8mm
B - 10mm
C - 13mm
 - COMPRESSION TYPE CABLE LUGS ARE TO BE USED FOR CABLE TERMINATIONS ONTO ITEMS 2A, 2B AND 9.
 - THE EARTH AND NEUTRAL LINK CONNECTIONS DESIGNATED BY ③ & ④ ARE TO BE INDIVIDUALLY CONNECTED TO THEIR LINK.
 - CIRCUIT 8(3) CONTROL POINT IS NOT REQUIRED ON ALL INSTALLATIONS.
 - CABLE TO BE OF ADEQUATE SIZE TO PREVENT VOLTAGE DROP, REFER TO AS 3000 FOR CABLE SIZE.
 - DETAILS 1, 2 & 3 SHOW WORDING AND POSITION OF SELF ADHESIVE LABELS. LABELS ARE TO BE BLACK LETTERING ON WHITE BACKGROUND.

| ITEM No | DESCRIPTION | REMARKS | No. OFF |
|------------|-------------------------------------|-------------------------------------|---------|
| 12 | M.D.I. UNIT | LOGISTICS SERVICES SC 169920 | 1 |
| 11 | MOUNTING BLOCK | HPM TYPE 141 | 1 |
| 10 | 10A SINGLE POLE SWITCH | HPM TYPE A770/1 | 1 |
| 9 | M6 MOULDED LINK | LOGISTICS SERVICES SC 5905/78493 | 1 |
| 8(4)(5)(6) | 16A 1φ 8kA MINIATURE C/B (Tx FAN) | CLIPSAL TYPE 4CB116 | 3 |
| 8(2)(3) | 16A 1φ 8kA MINIATURE C/B (LIGHTS) | CLIPSAL TYPE 4CB116 | 2 |
| 8(1) | 20A 1φ 8kA MINIATURE C/B (1φ POWER) | CLIPSAL TYPE 4CB120 | 1 |
| 8 | 6 MODULE SWITCHBOARD | CLIPSAL TYPE 4C6FD | 1 |
| 7B | TERMINAL COVERS | KRAUS & NAIMER TYPE S1M160/B03 | 1 |
| 7A | ADJUSTABLE SHAFT | KRAUS & NAIMER TYPE S1M004E/000B070 | 1 |
| 7 | 4 STEP CHANGEOVER SWITCH | KRAUS & NAIMER TYPE C32 A231 603 E | 1 |
| 6 | MOUNTING BLOCK | HPM TYPE 140 | 1 |
| 5 | 10A DOUBLE GPO | HPM TYPE 777 | 1 |
| 4 | EARTH LINK | CLIPSAL TYPE L6 | 1 |
| 3 | NEUTRAL LINK | CLIPSAL TYPE L7 | 1 |
| 2B | TERMINAL STRIP 2 (2B: 1-2) | UTILUX H3820 30A | 2 |
| 2A | TERMINAL STRIP 1 (2A: 1-9) | UTILUX H3820 30A | 9 |
| 1 | WALL MOUNTED BOX | EMPCO W4625 | 1 |

| MATERIAL LIST (SEE NOTE 2) | | | |
|----------------------------|------------|------------|--------|
| SCALE | AS SHOWN | | |
| DESIGNED | - | | |
| DRAWN | JH | | |
| CHECKED | PWJ | | |
| APPROVED | PWJ | | |
| DATE | 10/04/07 | | |
| PRJTRK No. | - | | |
| PROJECT NUMBER | 103/59/1/2 | DRAWING No | 169392 |
| SHEET | - | AMD | 2 |
| SIZE | A1 | | |

CAD DRAWING
DO NOT MANUALLY AMEND

AMENDMENTS

1. NEUTRAL LINK TO EARTH LINK CONNECTION DELETED.
BOX EARTH STUD CONNECTION DESIGNATED.
MAIN NEUTRAL CONNECTION MOVED FROM 2A TERMINAL STRIP TO NEUTRAL LINK CONNECTIONS TO NEUTRAL & EARTH LINKS ADDED TO CABLE CONNECTIONS.
ALLOCATION OF 2A TERMINALS ALTERED.
ITEMS 2A & 2B No OFF ADJUSTED.
ITEMS 2A & 2B WERE NOMINATED AS X ON WIRING & CABLE CONNECTIONS. SIZE OF NEUTRAL & EARTH LINKS INCREASED.
CABLE CONNECTIONS CLARIFIED.
ITEM 8 DELETED, REMAINING ITEMS 8(1) & 8(2) REVISED WITH ITEMS 8(4), 8(5) & 8(6) BEING ADDED.
DRILLING DIMENSIONS CLARIFIED.
PN 208/6/9/2
PWJ 26/9/07
CHECKED: IMR
APPROVED: MT

2. NEW AUSGRID BORDER & LOGO ADDED.
DATE: 24-09-2013
APPROVED: T.LAMPARD

NETWORK STANDARD

DESIGN SERVICES
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