

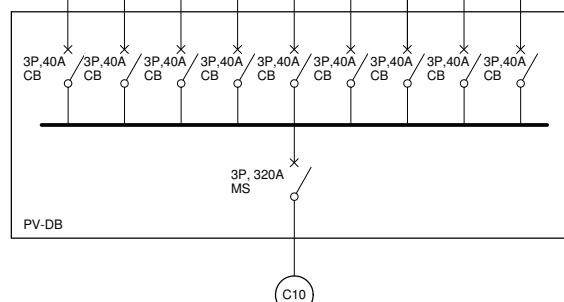
NOTES:

1. Fire trip and Ausgrid protection equipment located in Ground Floor Switchroom.
2. GPO required adjacent Inverters for data logging system. GPO to be supplied from HDB-PRL.
3. Framing and panels to be bonded to a common earth point in DB-PV with 6mm Green/Yellow Building Wire.

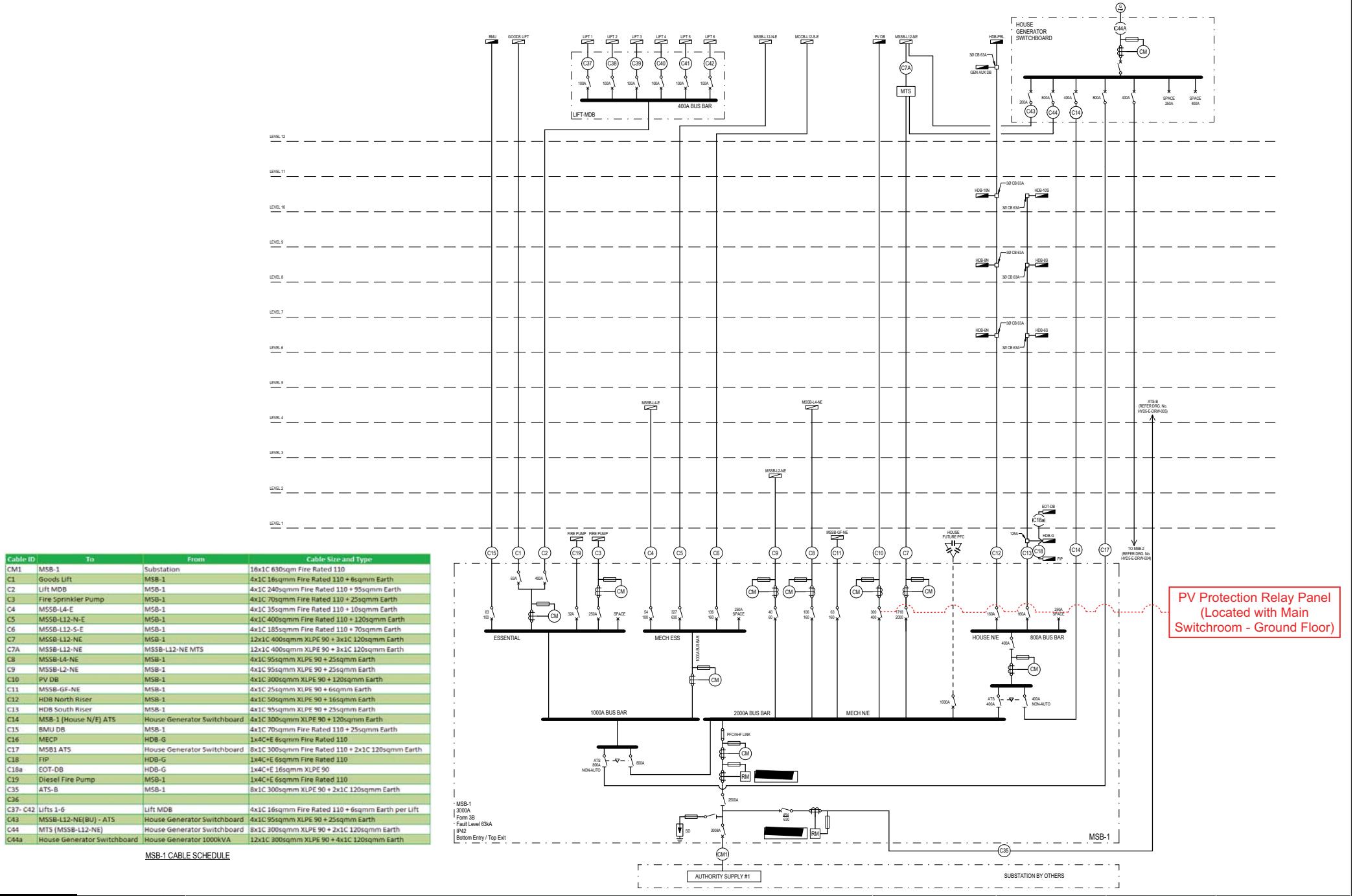
4 x 1c 300sqmm XLPE 90
& 120sqmm EARTH

Key Plan

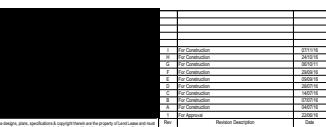
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|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

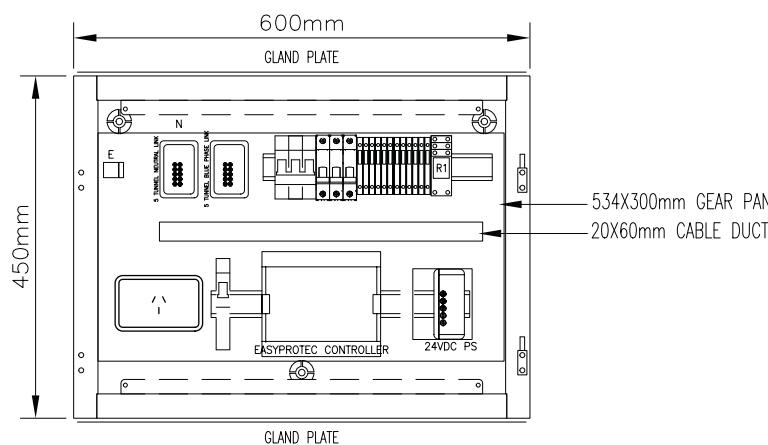
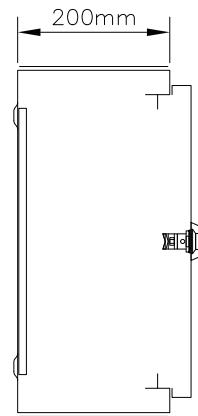
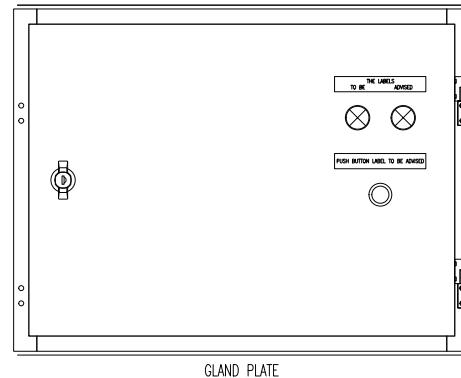


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MSB-1 CABLE SCHEDULE



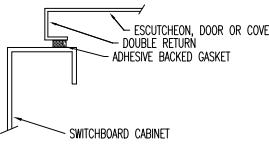


CONSTRUCTION NOTES:

CABINET: 1.6mm ZINC SEALED MILD STEEL, FOLDED & WELDED CONSTRUCTION
DOORS & COVERS: 1.6mm ZINC SEALED MILD STEEL
ESCUCHEONS: 1.6mm ZINC SEALED MILD STEEL
GLAND PLATES: 1.6mm ZINC SEALED MILD STEEL
FORM OF SEGREGATION: FORM 1
DEGREE OF PROTECTION: IP-42 - REFER TO DUSTPROOFING DETAIL
FINISH: POWDER COATING - MINIMUM THICKNESS 0.07mm
PREPARATION: DE-SCALE & DE-GREASE
EXTERNAL COLOUR: X15 ORANGE
INTERNAL COLOUR: X15 ORANGE
REMOVABLE GEAR PANS AND ESCUTCHEON: GLOSS WHITE

LABELS: ENGRAVED PLASTIC LAMINATE
FIXING: DOUBLE SIDED ADHESIVE + SCREW FIXED
COLOUR: MAIN ISOLATOR - WHITE LETTERS ON BLACK
WARNING, FIRE & LIFTS - WHITE LETTERS ON RED
OTHERS - BLACK LETTERS ON WHITE

CONTROL WIRING: MINIMUM 1.5mm Cu V90
WIRE MARKERS: SMB HARVAL STANDARD FERRULES
TERMINATIONS: BARE CABLE ENDS, WHERE TERMINALS REQUIRE LUGS, BOOTLACE FERRULES
OR PRE-INSULATED RING LUGS.
COLOUR: 240V AC - PHASE COLOURED
NEUTRAL - BLACK
EARTH - GREEN/YELLOW
AC CONTROL CIRCUIT ACTIVE - RED



TOTAL 1 OFF

SOLAR INVERTER INTERFACE CONTROL BOARD

Colour : White-Black
Size : 230x40mm
1 OFF EACH

Colour : Blue-White-Blue
Size : 180x50mm
1 OFF

| EQUIPMENT SCHEDULE | | | |
|-------------------------------|---|------------------|-------|
| ITEM | DESCRIPTION | PART NUMBER | TOTAL |
| CONTROLLER | WOODWARD EASYPOTEC 1410-7 | | 1 |
| 24VDC RELAY | SCHNEIDER RXM 2C/O 12A 24VDC | SN-RXM2AB1BD | 1 |
| RELAY BASE | SCHNEIDER RXZ | SN-RXZC25108M | 1 |
| COVERED LINK | NETEC 5 TUNNEL RED COVERED LINK | | 1 |
| | NETEC 5 TUNNEL BLACK COVERED LINK | | 1 |
| 24VDC POWER SUPPLY | 15W 24VDC POWER SUPPLY | | 1 |
| CT DISCONNECT TERMINALS | CT DISCONNECT TERMINALS | ACC-TESTLINK-06 | 12 |
| 3P 6A MCB | ABB 3P 6A MCB 6kA C-CURVE | AB-S203C06 | 1 |
| 1P 6A RCBO | ABB 1P 6A RCBO 30mA 6kA C-CURVE TYPE AC | AB-DSE201C06AC30 | 1 |
| 1P 2A MCB | ABB 1P 2A MCB 6kA C-CURVE | AB-S201C02 | 1 |
| 1P 6A MCB | ABB 1P 6A MCB 6kA C-CURVE | AB-S201C06 | 2 |
| 10A SINGLE SOCKET POWER POINT | 10A SINGLE POWER OUTLET | | 1 |
| | Mounting Box | | 1 |
| PUSH BUTTON | IPD 1NO CONTACT BLACK PUSH BUTTON | IP-YW1B-M1E10B | 1 |
| PILOT LIGHT | IPD 24V LED LAMP-RED | IP-YW1P-2EQ4R | 1 |
| | IPD 24V LED LAMP-BLUE | IP-YW1P-2EQ4S | 1 |

| REVISIONS | | | |
|-----------|--------------|----------|------------|
| ISSUE | DESCRIPTION | DATE | BY |
| A | FOR APPROVAL | 25.11.16 | [REDACTED] |
| | | | |
| | | | |
| | | | |
| | | | |

IT IS THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO VERIFY OVERALL DIMENSIONS, CABLE ENTRIES AND SITE ACCESS FOR POSITIONING OF SWITCHBOARDS.

THE MASTER COPY OF THIS DOCUMENT IS MANAGED THROUGH Q-PULSE. REFER TO Q-PULSE TO CONFIRM UPDATE RESPONSIBILITY.



CONTROLLED
DRAWN
CHECKED
DATE
25.11.16
SCALE
NONE

CLIENT
[REDACTED]
DRAWING TITLE
SOLAR INVERTER
INTERFACE CONTROL BOARD
GENERAL ARRANGEMENT
PROJECT
[REDACTED]

DRAWING NUMBER
PJ2160051-34-01
SHEET SIZE
A3
ISSUE
A
DRAWING STATUS
FOR APPROVAL
FOREIGN NUMBER
*

| GPD Settings (Woodward EasyProtec) - Darling Harbour Live | | | |
|---|-------------------------------------|---------------|--|
| ID | Parameter | Setting | Notes |
| Configuration | | | |
| 1750 | System rated frequency | 50Hz | Standard |
| 1766 | Rated voltage | 400V | 230/400V Rated and base value for settings |
| 1851 | Voltage measuring | 3Ph 4W | As per marked up schematic 9771-1105 |
| 3954 | Phase rotation | CW | Clockwise, ABC |
| 1858 | 1Ph2W voltage measuring | Phase-Phase | Default - Not applicable |
| 1859 | 1Ph2W voltage rotation | CW | Default - Not applicable |
| 1770 | Voltage monitoring | Phase-neutral | Ph-N voltages monitored |
| 1788 | Disable under-frequency w low volts | Yes | UF monitoring is disabled on low volts |
| 1801 | PT primary rated voltage | 400V | Primary voltage - no VTs are used |
| 1800 | PT secondary rated voltage | 400V | Secondary voltage - no VTs are used |
| 6920 | Relay 1 function | N.O | Normally Open - Not required |
| 6921 | Relay 2 function | N.C | As per marked up schematic 9771-1105 |
| 8855 | Monitoring fall-back delay | 60s | 60s reset time for all trips (as per NS194) |
| 2415 | Startup delay | 0s | 0s delay before output relays operate on startup |
| Overvoltage Monitoring 1 | | | |
| 2000 | Monitoring | On | Required |
| 2004 | Limit | 115.60% | 267V Pickup (Complies with NS194) |
| 2005 | Delay | 2s | 2s delay (Complies with NS194) |
| 2014 | AND characteristics | Off | At least 1ph over threshold |
| 2001 | Relay | Relay 2 | As per marked up schematic 9771-1105 |
| Overvoltage Monitoring 2 | | | |
| 2006 | Monitoring | Off | Not required |
| 2010 | Limit | | |
| 2011 | Delay | | |
| 2015 | AND characteristics | | |
| 2007 | Relay | | |
| Undervoltage Monitoring 1 | | | |
| 2050 | Monitoring | On | Required |
| 2054 | Limit | 87.90% | 203V Pickup (Complies with NS194) |
| 2055 | Delay | 2s | 2s delay (Complies with NS194) |
| 2064 | AND characteristics | Off | At least 1ph under threshold |
| 2051 | Relay | Relay 2 | As per marked up schematic 9771-1105 |
| Undervoltage Monitoring 2 | | | |
| 2056 | Monitoring | Off | Not required |
| 2060 | Limit | | |
| 2061 | Delay | | |
| 2065 | AND characteristics | | |
| 2057 | Relay | | |
| Overfrequency Monitoring 1 | | | |
| 1900 | Monitoring | On | Required |
| 1904 | Limit | 104% | 52Hz pickup (Complies with NS194) |
| 1905 | Delay | 2s | 2s delay (Complies with NS194) |
| 1901 | Relay | Relay 2 | As per marked up schematic 9771-1105 |
| Overfrequency Monitoring 2 | | | |
| 1906 | Monitoring | Off | Not required |
| 1910 | Limit | | |
| 1911 | Delay | | |
| 1907 | Relay | | |
| Underfrequency Monitoring 1 | | | |
| 1950 | Monitoring | On | Required |
| 1954 | Limit | 96% | 48Hz pickup (Complies with NS194) |
| 1955 | Delay | 2s | 2s delay (Complies with NS194) |
| 1951 | Relay | Relay 2 | As per marked up schematic 9771-1105 |
| Underfrequency Monitoring 2 | | | |
| 1956 | Monitoring | Off | Not required |
| 1960 | Limit | | |
| 1961 | Delay | | |
| 1957 | Relay | | |
| Voltage Asymmetry 1 | | | |
| 3900 | Monitoring | Off | Not required |
| 3903 | Limit | | |
| 3904 | Delay | | |

| | | | |
|---------------------------------|---------------------|---------------|--------------------------------------|
| 3901 | Relay | | |
| Voltage Asymmetry 2 | | | |
| 3931 | Monitoring | Off | Not required |
| 3934 | Limit | | |
| 3935 | Delay | | |
| 3932 | Relay | | |
| Phase Shift | | | |
| 3050 | Monitoring | On | Required |
| 3053 | Monitoring type | 1 and 3 phase | Single and 3 phase trips |
| 3054 | Limit 1 phase | 8° | 8 degrees (Complies with NS194) |
| 3055 | Limit 3 phase | 8° | 8 degrees (Complies with NS194) |
| 3051 | Relay | Relay 2 | As per marked up schematic 9771-1105 |
| df/dt (ROCOF) | | | |
| 3100 | Monitoring | On | Required |
| 3104 | Limit | 0.8Hz/s | Complies with NS194 |
| 3105 | Delay | 0.9s | Complies with NS194 |
| 3101 | Relay | Relay 2 | As per marked up schematic 9771-1105 |
| Voltage Increase | | | |
| 8806 | Monitoring | Off | Not required |
| 8807 | Limit | | |
| 8849 | AND characteristics | | |
| 8831 | Relay | | |
| Time Dependent Voltage 1 | | | |
| 4950 | Monitoring | Off | Not required |
| 4952 | AND characteristics | | |
| 4953 | Monitoring at | | |
| 4970 | Init threshold | | |
| 4968 | Fallback time | | |
| 4978 | Fallback threshold | | |
| 4961 | Time point 1 | | |
| 4962 | Time point 2 | | |
| 4963 | Time point 3 | | |
| 4964 | Time point 4 | | |
| 4965 | Time point 5 | | |
| 4966 | Time point 6 | | |
| 4967 | Time point 7 | | |
| 4971 | Voltage point 1 | | |
| 4972 | Voltage point 2 | | |
| 4973 | Voltage point 3 | | |
| 4974 | Voltage point 4 | | |
| 4975 | Voltage point 5 | | |
| 4976 | Voltage point 6 | | |
| 4977 | Voltage point 7 | | |
| 4951 | Relay | | |
| Time Dependent Voltage 2 | | | |
| 4954 | Monitoring | Off | Not required |
| 4956 | AND characteristics | | |
| 4957 | Monitoring at | | |
| 4990 | Init threshold | | |
| 4988 | Fallback time | | |
| 4998 | Fallback threshold | | |
| 4981 | Time point 1 | | |
| 4982 | Time point 2 | | |
| 4983 | Time point 3 | | |
| 4984 | Time point 4 | | |
| 4985 | Time point 5 | | |
| 4986 | Time point 6 | | |
| 4987 | Time point 7 | | |
| 4991 | Voltage point 1 | | |
| 4992 | Voltage point 2 | | |
| 4993 | Voltage point 3 | | |
| 4994 | Voltage point 4 | | |
| 4995 | Voltage point 5 | | |
| 4996 | Voltage point 6 | | |
| 4997 | Voltage point 7 | | |

| | | | |
|---------------------------------|-------------------------------------|-----|-----------------------|
| 4955 | Relay | | |
| Time Dependent Voltage 3 | | | |
| 9130 | Monitoring | Off | |
| 9132 | AND characteristics | | |
| 9133 | Monitoring at | | |
| 9148 | Init threshold | | |
| 9147 | Fallback time | | |
| 9156 | Fallback threshold | | |
| 9140 | Time point 1 | | |
| 9141 | Time point 2 | | |
| 9142 | Time point 3 | | |
| 9143 | Time point 4 | | |
| 9144 | Time point 5 | | Not required |
| 9145 | Time point 6 | | |
| 9146 | Time point 7 | | |
| 9149 | Voltage point 1 | | |
| 9150 | Voltage point 2 | | |
| 9151 | Voltage point 3 | | |
| 9152 | Voltage point 4 | | |
| 9153 | Voltage point 5 | | |
| 9154 | Voltage point 6 | | |
| 9155 | Voltage point 7 | | |
| 9131 | Relay | | |
| Time Dependent Voltage 4 | | | |
| 9134 | Monitoring | Off | |
| 9136 | AND characteristics | | |
| 9137 | Monitoring at | | |
| 9165 | Init threshold | | |
| 9164 | Fallback time | | |
| 9173 | Fallback threshold | | |
| 9157 | Time point 1 | | |
| 9158 | Time point 2 | | |
| 9159 | Time point 3 | | |
| 9160 | Time point 4 | | |
| 9161 | Time point 5 | | Not required |
| 9162 | Time point 6 | | |
| 9163 | Time point 7 | | |
| 9166 | Voltage point 1 | | |
| 9167 | Voltage point 2 | | |
| 9168 | Voltage point 3 | | |
| 9169 | Voltage point 4 | | |
| 9170 | Voltage point 5 | | |
| 9171 | Voltage point 6 | | |
| 9172 | Voltage point 7 | | |
| 9135 | Relay | | |
| Factory Settings | | | |
| 1704 | Factory Default Settings | CTD | Set/Reset as required |
| 1701 | Reset factory default values | CTD | Set/Reset as required |
| Password Entry | | | |
| 10418 | Password system | CTD | By others |
| 10406 | Actual code level | CTD | By others |
| 10401 | Password | CTD | By others |
| Passwords | | | |
| 10415 | Basic node level | CTD | By others |
| 10414 | Temp commissioning code level | CTD | By others |
| 10413 | Commissioning code level | CTD | By others |
| 10412 | Temp super commissioning level code | CTD | By others |
| 10411 | Super commissioning level code | CTD | By others |