



**LEGEND**

- AIR CIRCUIT BREAKER
- MOULDED CASE CIRCUIT BREAKER
- SWITCH DISCONNECTER (DN LOAD)
- SURGE PROTECTIVE DEVICE
- MOTOR OPERATED (DR OPERATOR)
- MICROLOGIC TRIP UNIT
- IDN7650 POWER QUALITY METER
- THREE-PHASE MOTOR
- FUSE
- BATTERY
- RECTIFIER
- INVERTER
- TP&N DISTRIBUTION BOARD
- TRANSFORMER
- EMERGENCY POWER OFF BUTTON
- THYRISTOR
- SOLENOID KEY RELEASE UNIT
- CASTELL LOCK (LOCKED OPEN, KEY CAPTIVE)
- CASTELL LOCK (LOCKED CLOSED, KEY REMOVED)
- N.O./N.C. NORMALLY OPEN/NORMALLY CLOSED
- REMOTE TERMINALS (ACCESSABLE FROM OUTSIDE MODULE)
- LINK

- NOTES:**
- ALL CIRCUIT BREAKERS TO INCORPORATE ELECTRONIC TRIP UNITS FROM THE MICROLOGIC RANGE.
  - BREAKER CAPACITY (IC<sub>W</sub>) OF ALL CIRCUIT BREAKERS TO BE >65kA RMS.
  - PROVIDE AUXILIARY CONTACTS FOR INTERFACE TO SCADA SYSTEM ON ALL CIRCUIT BREAKERS, OF1, OF2, SD, SDE. LOAD BANK MCCB TO INCLUDE MX SHUNT TRIP.
  - INCLUDE TERMINALS FOR INCOMING / OUTGOING COMMUNICATIONS & SCADA WIRING.
  - INCLUDE ALL 24V DC SUPPLIES.
  - INCLUDE EPD TRIPPING FACILITIES IN EACH MODULE.
  - INCLUDE THERMOGRAPHIC FACILITIES IN ALL SWITCHBOARDS.
  - SWITCHBOARDS TO BE FORM 3 TYPE 2 CONSTRUCTION.
  - ALL ACB'S TO BE FIXED TYPE. ALL MCCB'S TO BE PLUGGABLE.
  - ALL SWITCHBOARDS TO BE ARRANGED FOR TOP AND BOTTOM CABLE ENTRY/EXIT.

| REV | DESCRIPTION  | DRWN   | DATE    | ENGR | DATE    | APPR | DATE |
|-----|--|--------|---------|------|---------|------|------|
| 07  | MOVE AUX. PANELBOARD TO PRIMARY BUS, CHANGE PLC AREA   | L.M.   | 22JAN14 |      |         |      |      |
| F   | CORRECT KIRK KEY, SHOW PLC CABINET   | J.H.D. | 18SEP13 |      |         |      |      |
| E   | CHANGE BATTERY FRAMES TO GENERIC   | L.M.   | 24MAY13 |      |         |      |      |
| D   | INCORPORATE 500KW EMEA INFORMATION   | L.M.   | 20MAY13 |      |         |      |      |
| C   | CHG INPUT BREAKERS ON PRIMARY BUS TO 1600A   | L.M.   | 10APR13 |      |         |      |      |
| B   | DEL COOLING UNIT, DEL 160A SPARE, ADD 32A GEN/HTR, DEL LV SOURCE B, DEL TRANSFER FAN, CLARIFY KEY/LOCK SCHEME, CHG NOTES | L.M.   | 27FEB13 | BZ   | 27FEB13 |      |      |
| A   | PRELIMINARY ISSUE  | DP     | 17JAN13 | BZ   | 17JAN13 |      |      |

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**Schneider Electric**

TITLE: 500KW EMEA POWER MODULE  
ELECTRICAL SINGLE LINE DIAGRAM

PROJECT: PREFABRICATED MODULES SHEET 1 OF 1

REV: 07  
DATE: 17JAN13  
APP: D