



NOTES:

1. GENERATOR IS RATED AT 6MWe AND INCLUDES A CONTROLLABLE FIELD WINDING.
2. GENERATOR INCLUDES A SUITABLE CONTROL SCHEME.
3. DRAWING SHOWS A NON-EXPORT CONFIGURATION, WHERE GENERATOR OUTPUT IS REGULATED TO LESS THAN THE POWER CONSUMED BY LOCAL LOADS.
4. ADDITIONAL PROTECTIONS MAY BE REQUIRED DEPENDING ON NETWORK ARRANGEMENT, GENERATOR TYPE AND GENERATOR FIELD CONTROL SCHEMES.
5. PROTECTIONS ARE LABELED 'A' OR 'B' TO INDICATE REDUNDANCY REQUIREMENTS. PROTECTIONS 'A' AND 'B' SHALL BE INDEPENDENT AND SHALL NOT SHARE ANY SINGLE POINT OF FAILURE.

PROTECTION CODE	DESCRIPTION
32I	REVERSE POWER FOR ISLANDING DETECTION
37I	REVERSE MEANS TOWARDS THE GRID.
37I	LOW FORWARD POWER FOR ISLANDING DETECTION
37I	FORWARD MEANS AWAY FROM THE GRID.
32M	REVERSE POWER FOR MOTORING DETECTION
32M	REVERSE MEANS TOWARDS THE GRID.
50	INSTANTANEOUS PHASE OVERCURRENT
51	IDMT PHASE OVERCURRENT
51G	IDMT EARTH FAULT
27	UNDERVOLTAGE
59	OVERVOLTAGE
59N	NEUTRAL VOLTAGE DISPLACEMENT
25	SYNCHRONISATION CHECK
CBF	CIRCUIT BREAKER FAIL
87G	HIGH IMPEDANCE GENERATOR DIFFERENTIAL
87B	HIGH IMPEDANCE BUSBAR DIFFERENTIAL
87U	UNDERFREQUENCY
87O	OVERFREQUENCY

LEGEND

<p>##### CAD DRAWING DO NOT MANUALLY AMEND AMENDMENTS</p>	<p>DESIGN & ENGINEERING BRANCH 570 GEORGE ST, SYDNEY NSW 2000 P: 02 9272 3805 F: 09 9272 6269</p>	SCALE	AS SHOWN	<p>GENERATOR INFORMATION PACK SAMPLE PROTECTION SCHEMATIC 6MW CONNECTION AT 11kV</p>	DRAWING No 238564	SHEET 1	AMD 0	SIZE A1			
		DESIGNED	-						CHECKED	H.SUMAKTAS	APPROVED
C&P -											