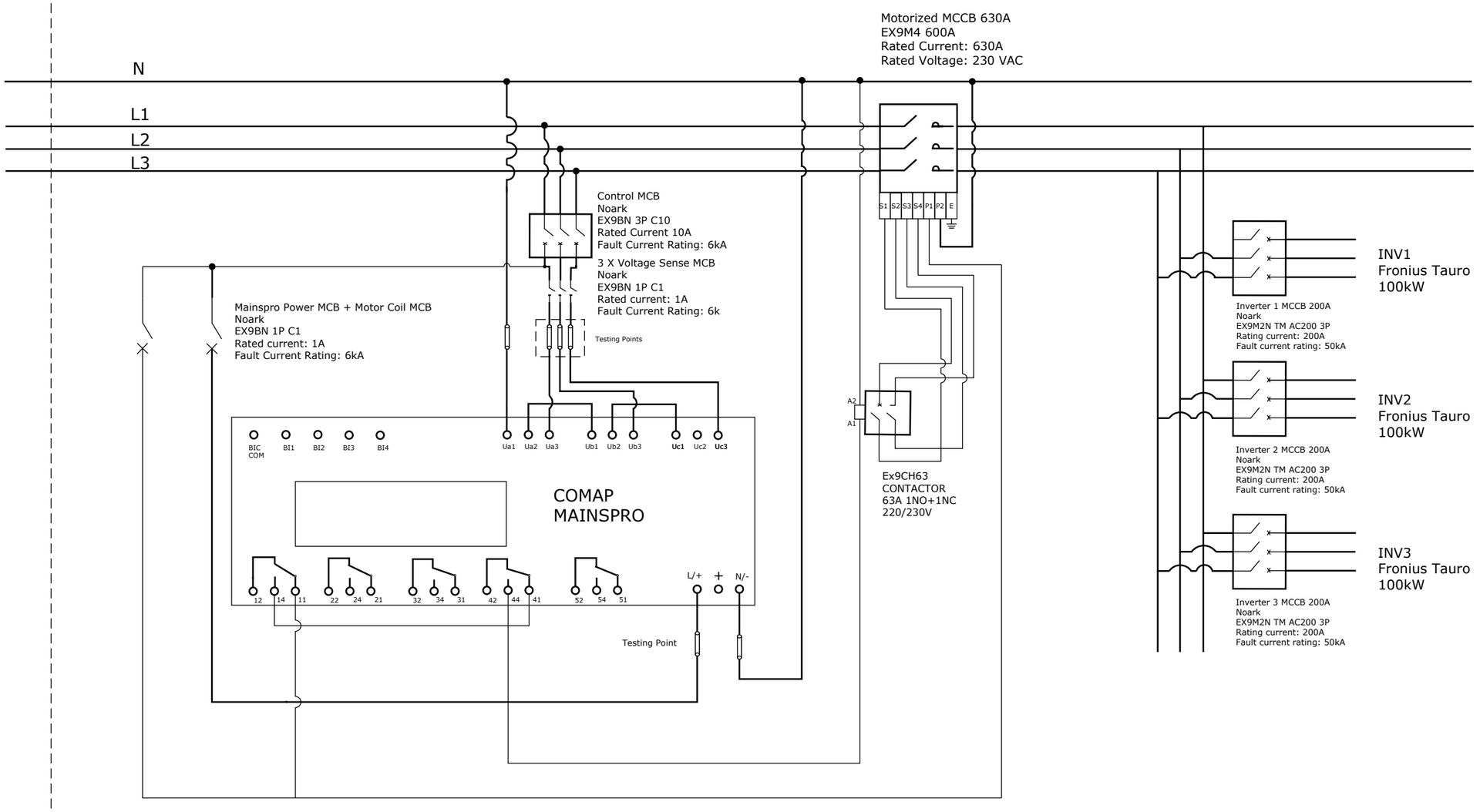
PVDB



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PROJECT

SHEET TITLE

SHEET NAME

NOTES

1. All works shall comply with; AS3000, AS3008, AS5033, AS4777, CEC Guidelines, Supply Authority Service & Installation Rules and local authority guidelines.

2. Ensure system is labelled to AS5033, AS4777.1, CEC guidelines and relevant state requirements.

3. POC design and material supply should be inline with connection agreement.

SCALE

1 mm = 1000 mm

COORDINATION

☐ Electrical ☐ Mechanicial ☐ Other ☐ Structural ☐ Data

☐ FOR CONSTRUCTION

☐ PROGRESS DRAWING

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REVIEW	DS APPROVAL

REVISION

V 1.0

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Inverter Energy Systems			
Protection Element	**Pickup**	**Trip Delay Time**	**Max. Disconnection Time**
Sustained Overvoltage (10min average)	258V	-	3s
Over Voltage 1 (V >)	265V	1s	2s
Over Voltage 2 (V >>)	275V	-	0.2s
Under Voltage 1 (V <)	180V	10s	11s
Under Voltage 2 (V <<)	70V	1s	2s
Over Frequency (F >)	52Hz	-	0.2s
Under Frequency (F <)	47Hz	1s	2s
Reconnection Delay	60s		

IES GPR Settings		
Protection Element	**Pickup**	**Max. Disconnection Time**
Sustained Overvoltage (10min average)	258V	-
Over Voltage 1 (V >)	265V	2s
Over Voltage 2 (V >>)	275V	0.2s
Under Voltage 1 (V <)	180V	11s
Under Voltage 2 (V <<)	70V	2s
Over Frequency (F >)	52Hz	2s
Under Frequency (F <)	47Hz	2s
Rate of Change of Frequency (ROCOF)	4Hz/s	0.25s
Vector Shift (VS)	20 degrees	0s
Reconnection Delay	60s	

Power Quality Response Mode Settings - Region A			
volt - var response mode settings			
Reference	**Voltage (V)**	**Var % rated VA**	**Power factor**
V1	207	60% leading	0.8 leading
V2	220	0%	1
V3	248	0%	1
V4	258	60% lagging	0.8 lagging
volt - watt response mode settings			
Reference	**Voltage (V)**	**Max. value (P/P_rated),%**	
V1	248	100%	
V2	258	20%	
Sustained operation for voltage variation			
Reference		**Voltage (V)**	
V nom_max		258	

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COORDINATION

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