

1001668-SITA BETA LV BOARDS DATA SHEETS



Project: SITA BETA
 Specification: LV (A, B, C& D)
 Date: 2025/11/03
 IEC: 61439-1&2
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NOTE (1): All busbar and breaker ratings indicated shall be achieved at the full load stated after derating of all equipment and at an ambient temperature of 40 deg C.

NOTE (2): Bidder must complete/enter YELLOW cells only

Item	Description	Units	Required/Offered Schedule A
1	BOARD:		
1.1	Manufacturer		Schneider Electric
1.2	Panel Building System		PrismaSeT P
1.3	Name of Panel Builder	Specify	
			Data Cabling Compartment
1.4	DB Separation Internal form		Form 2B
1.5	DB Size		See layout drawing and on site
1.6	Doors and Type		Yes, Glass
	Colour:		
1.7	Frame		OEM Standard
1.8	Face plate		OEM Standard
1.9	Spare Space	%	30
2	BOARD RATINGS:		
2.1	Rated Voltage	V	400
2.2	Rated Frequency	Hz	50
2.3	Phases		3Ph & N
2.4	Main Bus Rating	A	2500
3	CIRCUIT RATINGS:		
3.1	Panel Names		Incomer from Transformer, Incomer from Gen Sync Panel
3.2	Incomer Switch Type		Circuit Breaker
3.3	Insulating Medium		Air
3.4	Incomer breaker Rating	A	2500
3.5	Circuit Breakers Manufacturer		Schneider Electric
3.6	ACB's		MTZ Active with MicroLogic Control Unit and Digital Modules
3.6	MCCB's		NSXm with MicroLogic Control Unit and Digital Modules
4	LV BOARD BUSBAR CONNECTIONS:		
4.1	Busbar Trunking Entry		Top and Bottom
4.2	Busbars Type		Copper
4.3	Busbars Rating	A	2500
4.4	Busbar Short Circuit Rating	kA	40
4.5	Busbar Voltage Grade (AC)	V	660
4.6	Busbar Phases		TP 3PH, N & E
4.7	Busbar Manufacturer		Schneider Electric
5	PANEL EARTHING REQUIREMENTS:		
5.1	Main earth bar		Yes
5.2	E/W between SPD & Earth Bar	mm ²	25
6	CONTROL EQUIPMENT ON PANEL:		
6.1	Trip/Open/Close		Yes, 220V coils (BMS monitoring)
6.2	Circuit breaker status LED's		Yes
6.3	Busbar Temperature sensors		Yes(BMS Monitoring)
6.3	Busbar Temperature sensors Total Number	No	39
6.4	Arc Flash Sensors and number		Yes(BMS Monitoring)
6.4	Arc Flash Sensors Total Number	No	4
6.4	Panel Server Type		Advanced
6.4	Panel Server Total Number	No	1
7	SURGE PROTECTION DEVICE:		
7.1	Manufacturer		Dehn or equal and approved
7.2	Model	Specify	
7.3	Rated Supply Voltage	V AC	230
7.4	Rated Frequency	Hz	50/60
7.5	PLC Controller		No
7.4	Type (Class) of Surge Arrestors		Class 1&2 as per single line drawings

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Item	Description	Units	Required/Offered Schedule A
8	POWER QUALITY METERING:		
8.1	PQ Meter		PM8000 (PM8240)
8.2	Manufacturer		Schneider Electric
8.3	Main features		Busbar, Remote Display, BACnet protocol, 0.2 Accuracy, 2 x 4-20mA Analogue outputs, 63rd Harmonics, etc.
8.4	Installation		Busbar and display on Cubicle Doors
8.5	Metering CT's Manufacturer	Specify	
8.6	CT temp rating		>100 deg C
9	CHANGEOVER CONTROLLER UNIT		
	<i>Change-over Switch:</i>		
9.1	Controller Unit Manufacturer	Specify	
9.2	Controller Product Name	Specify	
9.3	PLC Controller		No
9.4	Supply Voltage		230 VAC
9.5	<i>Breaker communication</i>		
9.6	All ACB's and MCCB's shall be fitted with Modbus modules connected to the TCP/IP interface in the distribution board. The interface will allow full monitoring of the breaker status as well as power readings per individual breakers in the distribution board. MCCB's will interface via Wi-Fi CT's to the TCP/IP module.		Schneider IFE and IFM
	Network switch for TCP/IP link to BMS		
9.7	Environment		Industrial
9.8	Manufacturer		Moxa, Cisco, Siemens
9.9	Type		Layer 2, Gigabit
9.10	No of ports		≥ 12 + 2 SFP or STP
9.11	Protocols		Ethernet/IP, PROFINET & Modbus TCP/IP
9.12	IEEE 802 compliance		IEEE 802.D,Q,W
9.13	IP Port binding		Yes
9.14	<i>Power supply for TCP/IP modules and all other equipment not powered from 230V/400V AC</i>		
9.15	Manufacturer	Specify	
9.16	Rating	VA	
10	OTHER		
	Enclosure Type:		
10.1	Indoor		Yes
10.2	Delivery and off-loading to site		Yes
10.3	Testing & Commissioning		Yes
10.4	FAT attendance, measurement & other equipment required		Yes
10.5	12 month Maintenance & Guarantee		Yes
10.6	Commissioning Data Books		Yes
10.7	Type Testing Certificate		Available
I, the bidder, confirm that the details provided in this data sheet are true and accurate. I further accept that all goods and/or works will be delivered as specified herein.			
[Note (1): SITA reserves the right to verify Data Sheet information]		Bidder's Name	
[Note (2): First convert to PDF, then add signature]			
		Signature (above)	