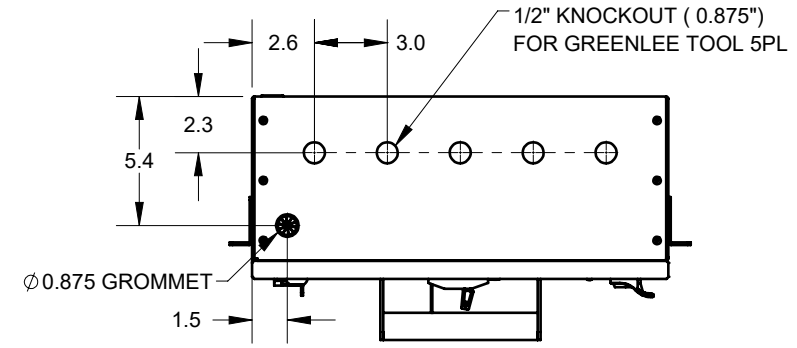
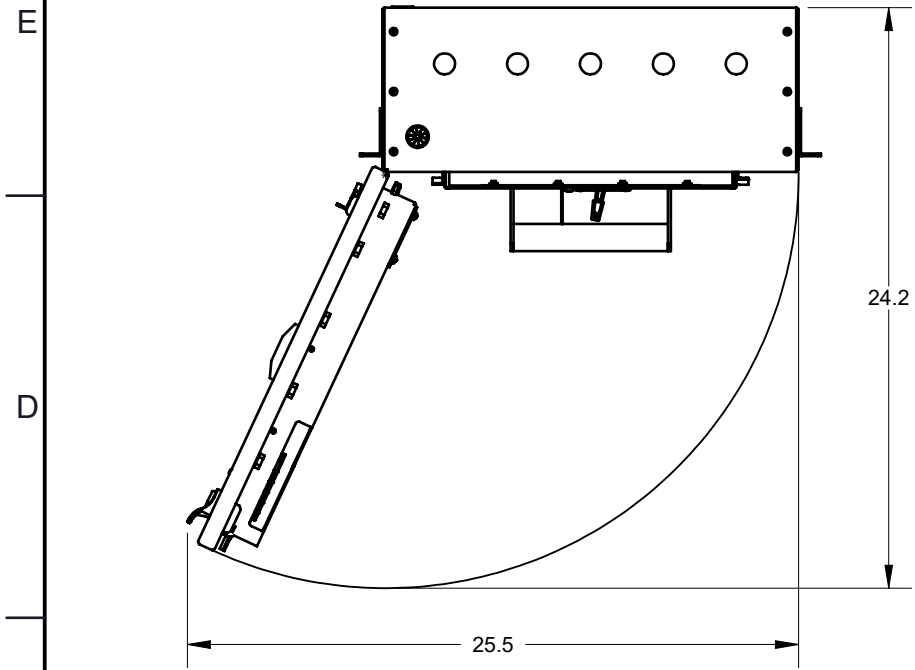
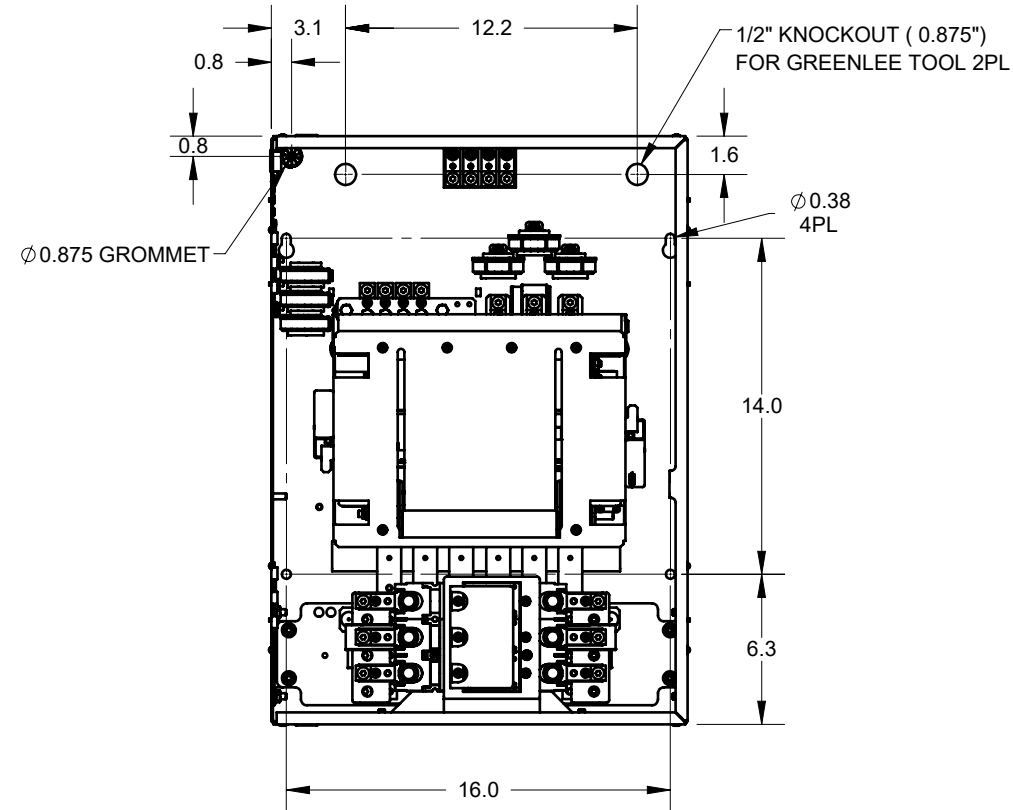
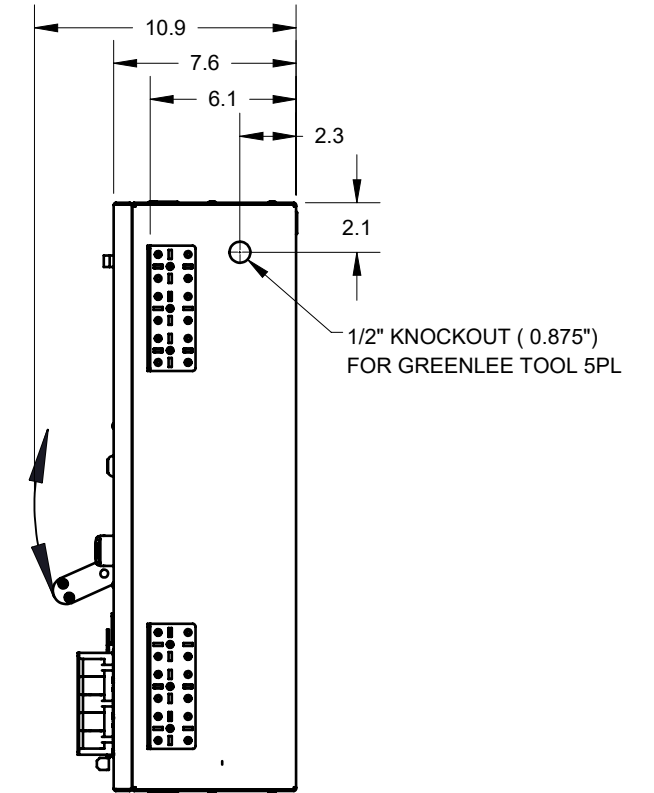
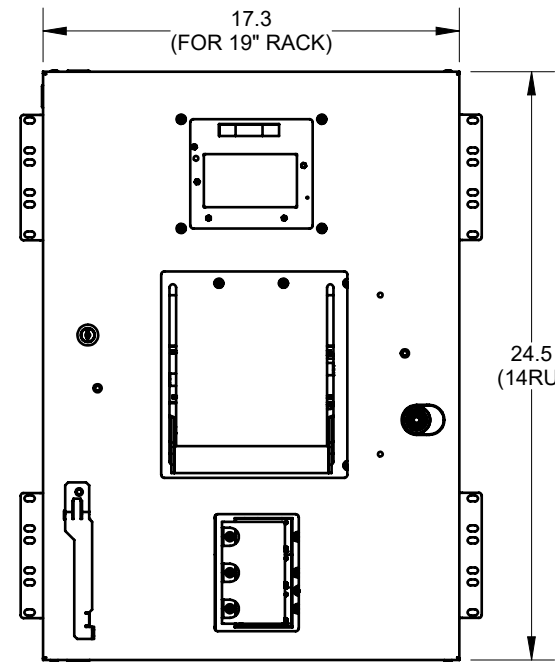
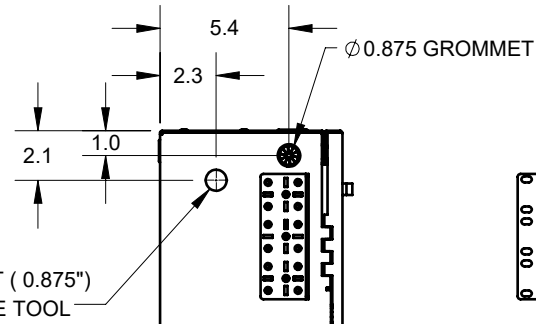




REVISIONS				
LTR	DESCRIPTION	DWN	DATE	CHK



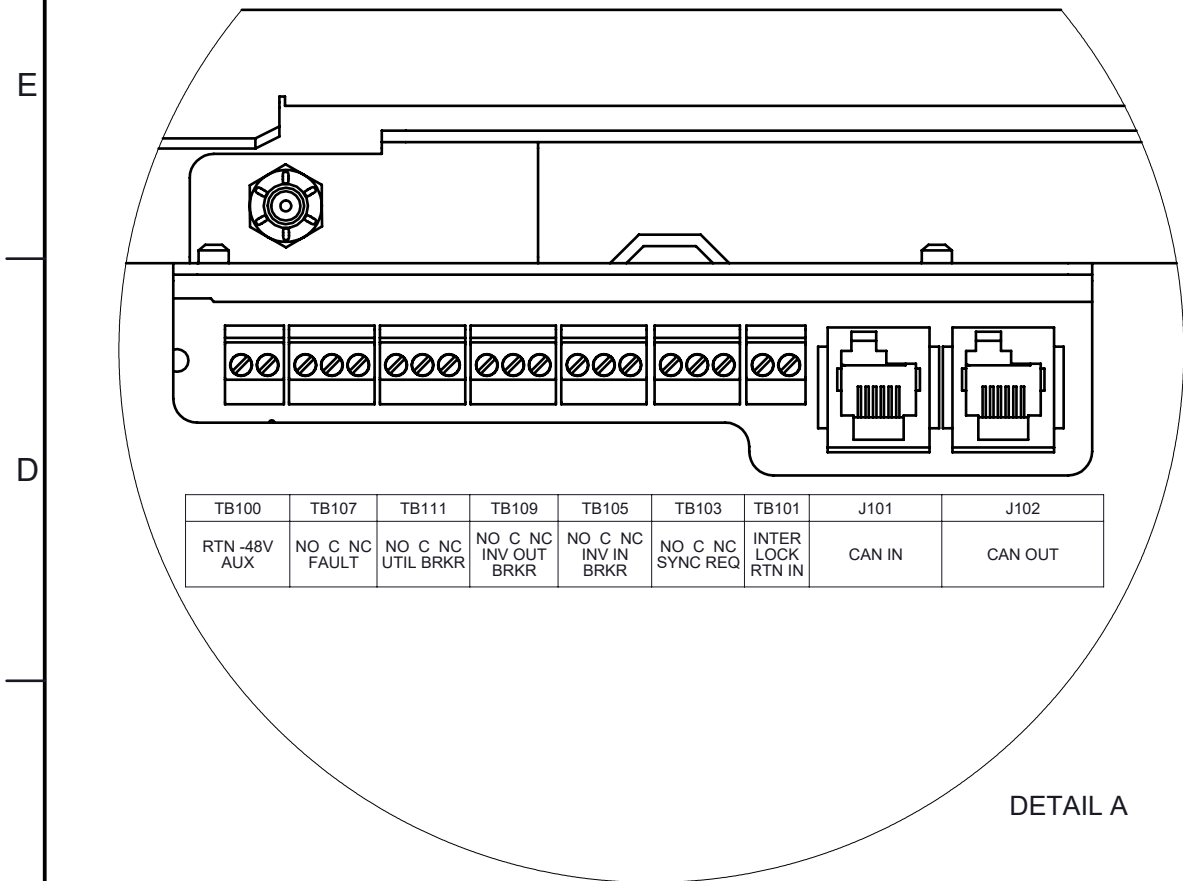
BOTTOM IS MIRRORED



UNLESS OTHERWISE SPECIFIED DIM ARE IN INCHES		THESE DESIGNS AND SPECIFICATIONS ARE CONFIDENTIAL, REMAIN THE PROPERTY OF ALPHA TECHNOLOGIES LTD., AND SHALL NOT BE COPIED OR USED WITHOUT ITS WRITTEN CONSENT			
X.X ±0.040	X.XXX ±0.010	APPROVALS			
X.XX ±0.020	ANGULAR: ±1°	DRAWN JMAR		15-SEP-20	TITLE: OUTLINE, XMBS 100A
INTERPRET DIM AND TOL PER ASME Y14.5-1994		CHECKED DM		15-SEP-20	SIZE DWG NO.
DO NOT SCALE DRAWING		THIRD ANGLE PROJECTION		© ALPHA TECHNOLOGIES LTD	B 0213250-06
		SCALE: 1:8		SHEET 1 OF 1	REV A

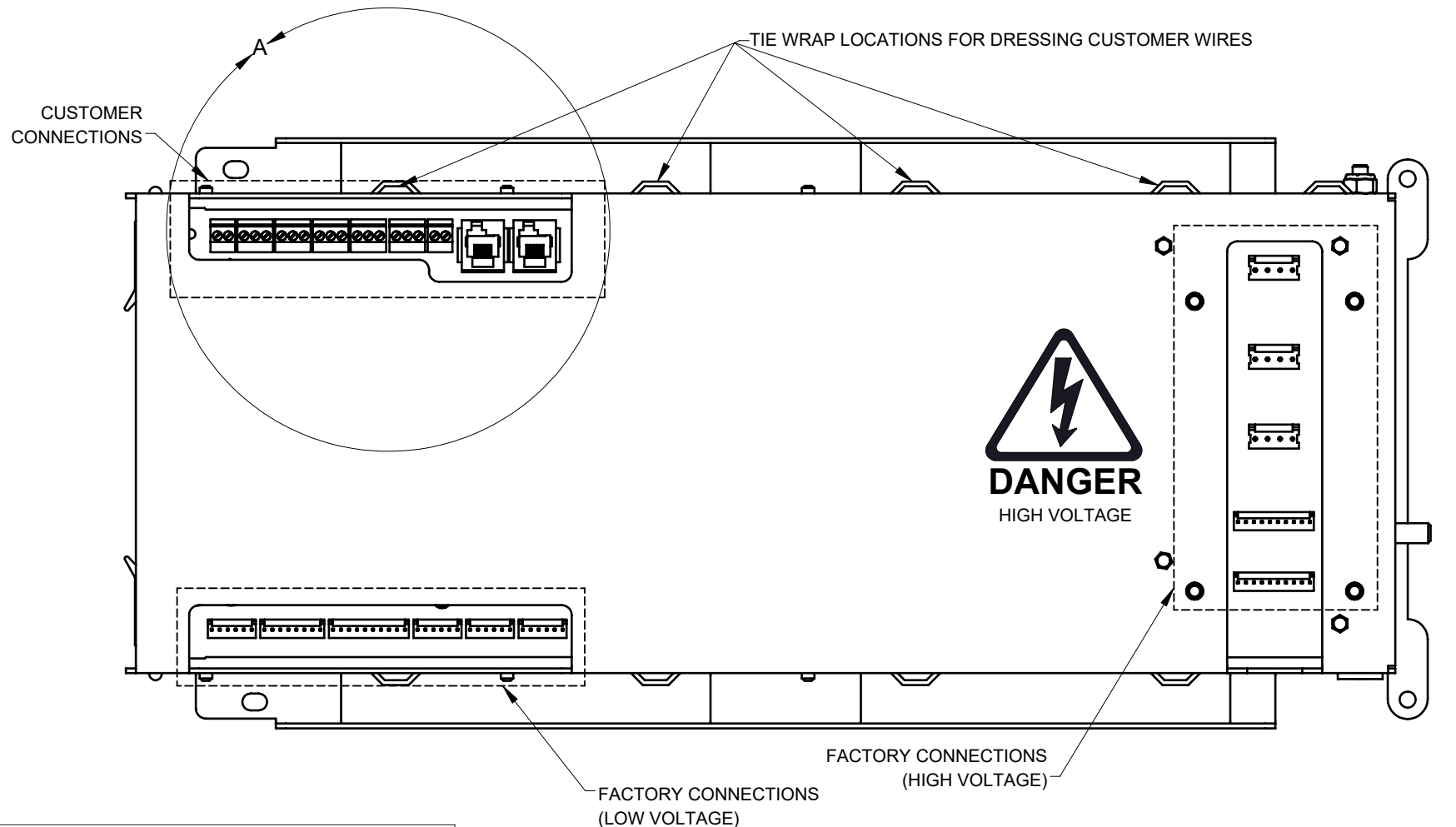
# CONTROL CONNECTIONS

REVISIONS				
LTR	DESCRIPTION	DWN	DATE	CHK



TB100	TB107	TB111	TB109	TB105	TB103	TB101	J101	J102
RTN -48V AUX	NO C NC FAULT	NO C NC UTIL BRKR	NO C NC INV OUT BRKR	NO C NC INV IN BRKR	NO C NC SYNC REQ	INTER LOCK RTN IN	CAN IN	CAN OUT

DETAIL A

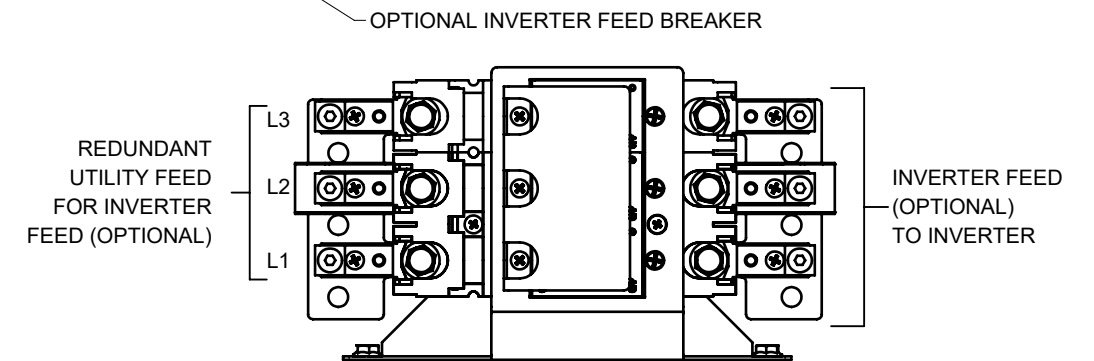
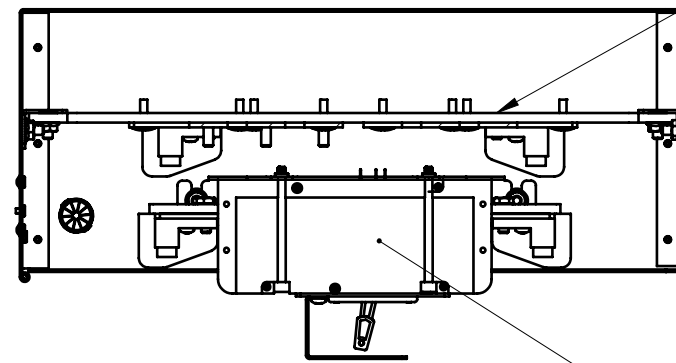
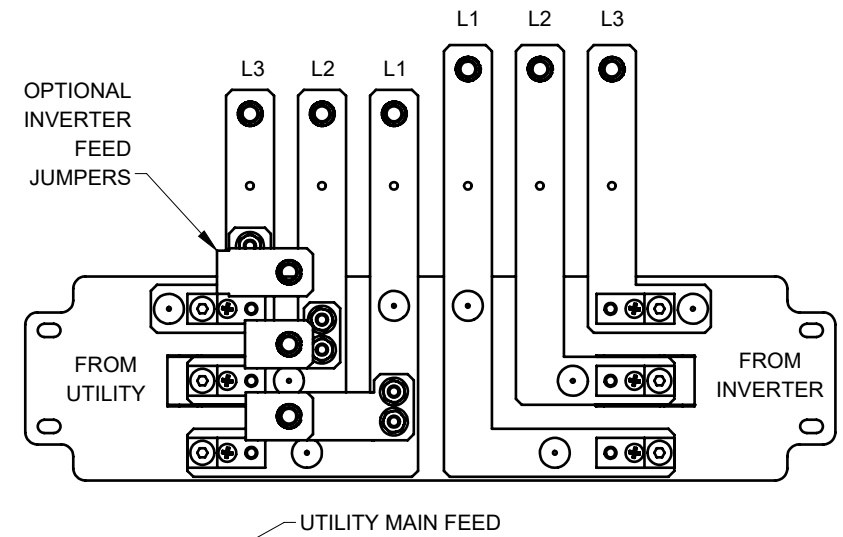
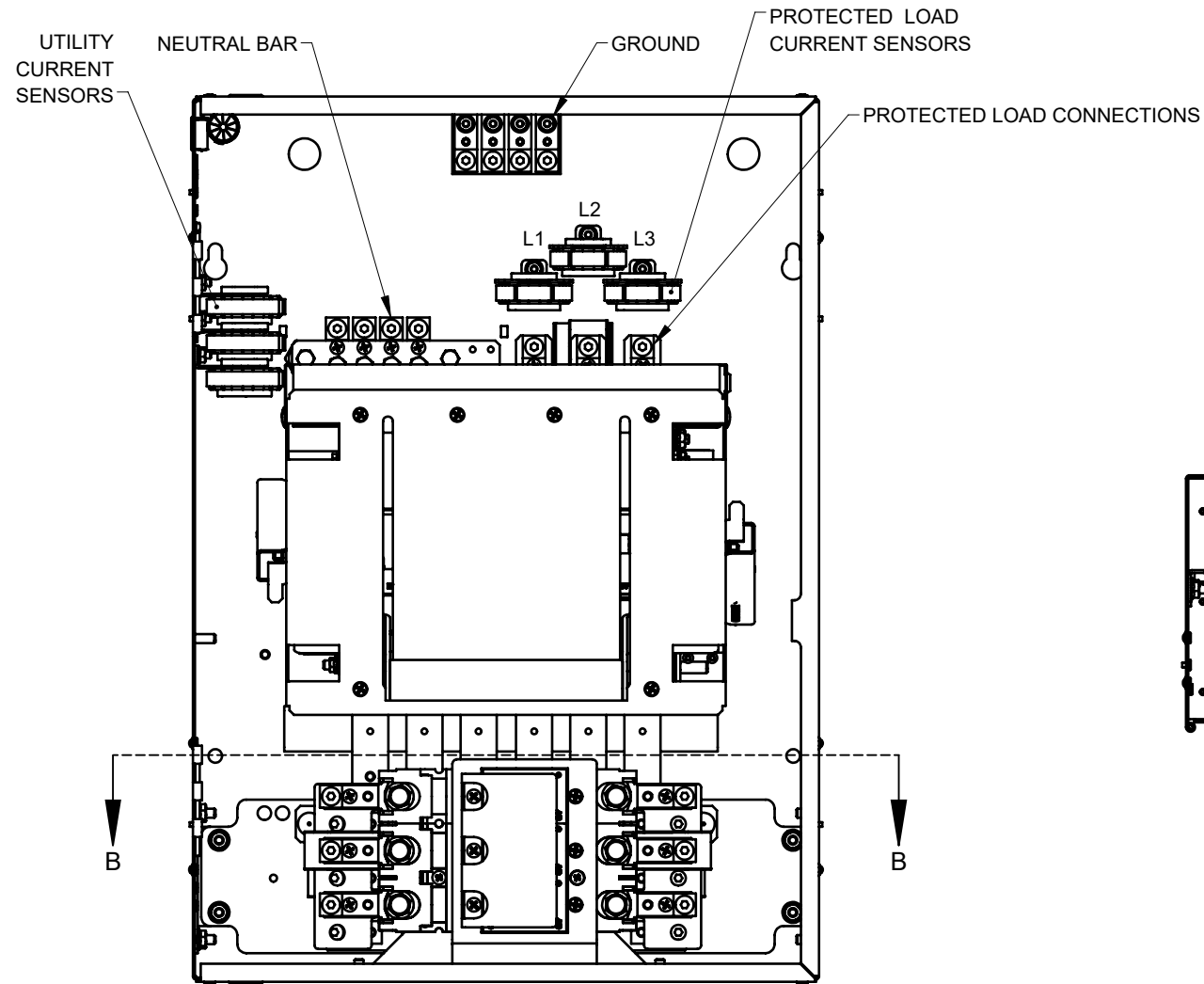


CONNECTOR	CONNECTION NAME	CONNECTOR TYPE	I/O	PIN	PIN NAME	NOTES
TB100	AUXILIARY POWER	4	INPUT	1	-48V POWER	CONTROLLER POWER FOR LOCAL (GUI) AND REMOTE (CAN) STATUS AND ERROR REPORTING IN CASE AC NOT PRESENT. NOT REQUIRED FOR SWITCH OPERATION.
				2	RETURN (+)	
TB107	FAULT ALARM	1	OUTPUT	1	NO	ACTIVE IF MECHANISM FAILURE DETECTED (BOTH BREAKERS ON OR BOTH BREAKERS OFF). CONTACT SERVICE IMMEDIATELY.
				2	C	
				3	NC	
TB111	BYPASS ALARM	1	OUTPUT	1	NO	ACTIVE WHEN SWITCH IN BYPASS POSITION (PROTECTED LOAD IS CONNECTED TO UTILITY AND ISOLATED FROM INVERTER).
				2	C	
				3	NC	
TB109	INVERTER (NORMAL) ALARM	1	OUTPUT	1	NO	ACTIVE WHEN SWITCH IN INVERTER POSITION (PROTECTED LOAD IS CONNECTED TO INVERTER AND ISOLATED FROM UTILITY).
				2	C	
				3	NC	
TB105	INVERTER FEED BREAKER ALARM	2	OUTPUT	1	NO	ACTIVE WHEN (OPTIONAL) INVERTER FEED BREAKER IS ON (UTILITY IS CONNECTED TO INVERTER FEED).
				2	C	
				3	NC	
TB103	SYNCHRONIZATION REQUEST	1	OUTPUT	1	NO	ACTIVE WHEN XMBS IS REQUESTING INVERTER TO PHASE SYNCHONIZE WITH THE UTILITY. OCCURS IN MANUAL MODE WHEN A NEW SOURCE IS SELECTED IF THAT SOURCE IS VALID. WHEN THE PHASES ARE SYNCHRONIZED THE TRANSFER WILL COMPLETE AND THE SIGNAL WILL BE DEACTIVATED.
				2	C	
				3	NC	
TB101	INVERTER INTERNAL BYPASS STATUS INPUT	3	INPUT	1	IN	WHEN ACTIVE THE INVERTER INPUT IS DISPLAYED IN YELLOW; DOES NOT EFFECT SWITCH OPERATION. (KEEP INTERNAL BYPASS IN INVERTER POSITION FOR MAXIMUM BENEFIT FROM XMBS ADVANCED LOAD PROTECTION.)
				2	RTN	
J101	CAN BUS INPUT	CAN	INPUT / OUTPUT	N/A	N/A	PROPRIETARY CAN CONNECTION TO CXCHP CONTROLLER.
J102	CAN BUS OUTPUT	CAN	INPUT / OUTPUT	N/A	N/A	PROPRIETARY CAN CONNECTION TO OTHER ALPHA DEVICES, INSTALL CAN TERMINATOR WHEN NO OTHER DEVICES CONNECTED.

SIGNAL CONNECTIONS SPECIFICATIONS					
CONNECTOR TYPE	DESCRIPTION	RATINGS	GUAGE	STRIP LENGTH	SCREW TYPE
1	DRY CONTACTS (RELAY OUTPUT)	+/- 60Vdc, 2A	28-14 AWG	6-7mm	M2-SLOTTED
2	BREAKER AUXILLIARY CONTACT	+/- 60Vdc, 1A			
3	POWERED	5V PROVIDED THROUGH 10K RESISTOR, CONNECT DRY CONTACT INPUT ONLY (SHORT TO ASSERT)			
4	AUXILLIARY POWER	-48Vdc NOMINAL, -60Vdc MAX, 10A FUSED EXTERNALLY			

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APPROVALS	DATE	<b>TITLE: CUSTOMER CONNECTIONS, XMBS 100A</b>		
DRAWN	JMAR 14-SEP-20			
CHECKED	DM 14-SEP-20			
© ALPHA TECHNOLOGIES LTD		SIZE B	DWG NO. 0213250-08	REV A
		SCALE: 1:2	SHEET 1 OF 2	

# AC CONNECTIONS



LUG SPECIFICATIONS	
WIRE CAPACITY	2/0 - 14AWG
CONNECTIONS PER LUG	1
HOLE SIZE	∅0.437"
SCREW TYPE	3/16" HEX SOCKET SCREW
TEMPERATURE RATING	75C
TORQUES	120 IN-LB



TITLE: CUSTOMER CONNECTIONS  
XMBS 100A

SIZE	DWG NO.	REV
B	0213250-08	A
SCALE:	1:5	SHEET 2 OF 2