

- Notes:**
- 3-bkr Wall mount Maintenance Bypass Panel with SKRU**
1. Wall mount Maintenance Bypass Panel (MBP) with SKRU, 480VAC, for TLE series, 1.0PF, UPS module
 2. Main Breakers: MIB & MBB (xxxAT), 80% rated, molded case, manually operated breaker. Refer to Table 1 for breaker current rating.
 3. UPS Input Breaker: UIB (xxxAT), 80% rated, unless otherwise specified, molded case, manually operated breaker. Refer to Table 1 for breaker current rating.
 4. Bus: Copper
 5. Neutral: 200%
 6. Aux Contact: 2A/B on MBB breaker only
 7. Control: SKRU with Kirk Key on MBB and MIB breakers.
 8. Equipment ground
 9. 10. Refer to national electric code for acceptable external wiring practice.
 10. An upstream overcurrent protection with current rating of 125% of the UPS rectifier input current rating must be installed at the MBB input (E1-E3).
 11. The external wiring is rated at 75 °C or 90 °C
 12. The external wiring material and labor to be provided and paid by others.
 13. Maintenance Bypass Input must come from a 3Ø/4W/G (wye), solidly grounded electrical system.
 14. The control and power wirings must be installed in separate conduits.
 15. Refer to Table 2 and Table 3 for control wiring from MBC to UPS module.

LEGEND:
MIB: UPS MODULE ISOLATION BREAKER
MBB: MAINTENANCE BYPASS BREAKER
UIB: UPS INPUT BREAKER

Project Name: STD		Point of Contact:			Equipment Part Number: See table	
GE Critical Power	Issued by: PH	Issued date: 06/05/13	Scale: NONE	Drawing Title: System 1L for TLE-225-500kva & 3-bkr wall mount MBP w/ SKRU from SPS		
	Revised by: PH	Revised date:	Rev. No.: 1.0	Drawing No.: 1L-GTxx4yyzzA1S		Sheet No.: 1 of 2

Table 1- Maintenance Bypass Panelboard (MBP) Breaker Schedule				
UPS (KVA)	MBP PART NUMBER	MBB/MIB (Trip)	UIB (Trip)	kAIC@ 480Vac
225	GT20350-10400-A1S	350AT	400AT	35
	GT20350-10400-A1H	350AT	400AT	65
250	GT20400-10450-A1S	400AT	450AT	35
	GT20400-10450-A1H	400AT	450AT	65
400	GT20600-10700-A1S	600AT	700AT	35
	GT20600-10700-A1H	600AT	700AT	65
500	GT20800-10900-A1S	800AT	900AT	50
	GT20800-10900-A1H	800AT	900AT	65

Table 2- Control Wiring From MBP to UPS module- Without eBoost (see this drawing, page 1)					
Terminating point In MBC	Terminating point In UPS	Wire Size	Maximum Volt. & current	Circuit Function	Note
TB4	X1-12 (CIC card- IM0005)	18AWG	24V 1.25A	SKRU control (Key can be removed if UPS is on bypass)	Twisted pair
TB5	X1-13 (CIC card-IM0005)				
TB2	X4-1 (IM0108 card)	18AWG	24V 1.25A	UPS control (UPS transfer is prohibited during testing)	Twisted pair
TB3	X4-2 (IM0108 card)				

Table 3- Control Wiring From MBP to UPS module- With eBoost (see this page, Figure 1)					
Terminating point In MBC	Terminating point In UPS	Wire Size	Maximum Volt. & Current	Circuit Function	Note
TB4	X1-12 (CIC card- IM0005)	18AWG	24V 1.25A	SKRU control (Key can be removed if UPS is on bypass)	Twisted pair
TB5	X1-17 (CIC card-IM0005)				
TB2	X4-1 (IM0108 card)	18AWG	24V 1.25A	UPS control (UPS transfer is prohibited during testing)	Twisted pair
TB3	X4-2 (IM0108 card)				
Terminating point In UPS	Terminating point In UPS	Wire Size	Maximum Volt. & Current	Circuit Function	Note
	X1-16 (CIC card- IM0005)	18AWG	24V 1.25A	SKRU control (Key can be removed if UPS is on bypass)	JUMPER

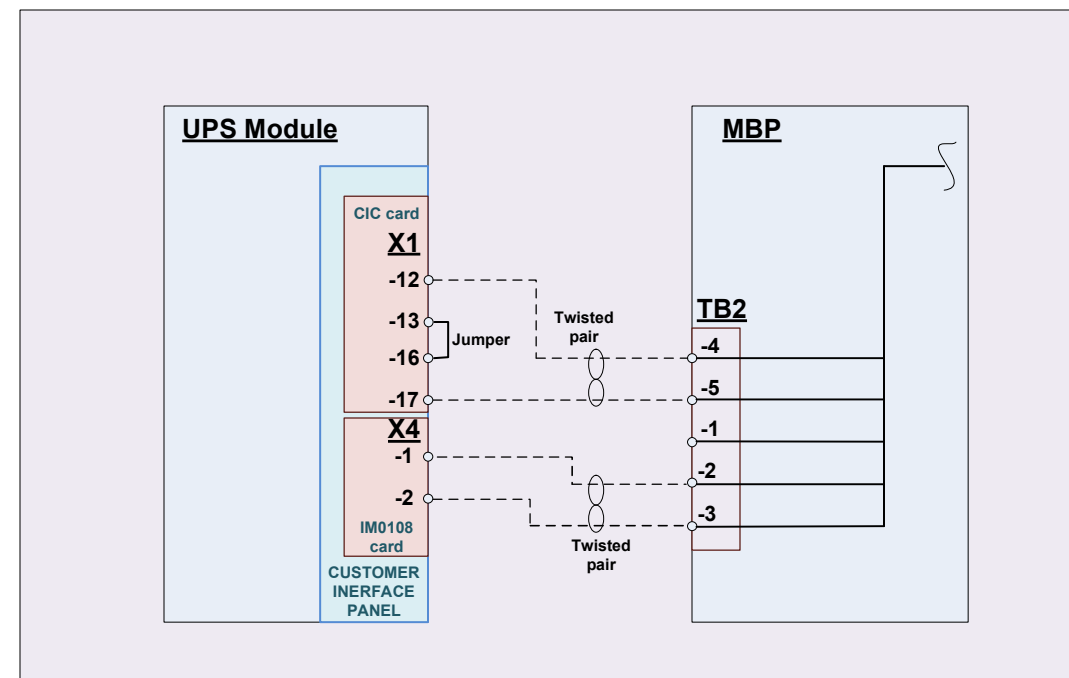



Figure1: SKRU and UPS control for UPS module with eBoost.

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