

**LEGEND:**  
MIB: UPS MODULE ISOLATION BREAKER  
MBB: MAINTENANCE BYPASS BREAKER  
UIB: UPS INPUT BREAKER ( IN UIP)  
MMB: MAINTENANCE MAIN BREAKER (IN UIP)

**LEGEND. CONTINUED**  
A1,B1,&C1: MBP Input from Utility, Phase-A, B, & C  
A2,B2,&C2: MBP Input from UPS output, Phase A,B, & C  
A3,B3,&C3: MBP Output to Critical Load, Phase A, B, & C  
N: Neutral; G: Ground

**Notes:**

**2-brk Maintenance Bypass Panelboard (MBP) with SKRU (Wall Mount- Non-matching)**

1. Wall mount **Make-Before-Break** Maintenance Bypass Panelboard (MBP), with SKRU for LP33 series 2 (S2) UPS module, 208/120Vac, 3Ø/4W/G.
2. Main Breakers: MIB & MBB (xxxAT), 80% molded case, manually operated breaker. Refer to **Table 1** for breaker current rating.
3. N/A
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. Refer to national electric code for acceptable external wiring practice.
10. An upstream overcurrent protection with a maximum rating of 125% of the UPS rectifier input should be installed at the MBP input (A1,B1,&C1).
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 and UPS Bypass input must come from the same, 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** for control wiring from MBP to UPS module.
16. A Customer Interface Card, p/n: 1026645 (IM0268), is required in the UPS module.
17. To avoid a load dump or damage to the equipment, the transfer sequence instruction nameplate mounted to the MBP's door must be followed
18. For UPS module dual feed option, see UPS installation manual for details.

**UPS Input Panelboard (UIP), 208/120vac, 3Ø/4W/G, for LP33-15 to 100kva, S2, Single UPS module (BY OTHERS)**

**Table 1: 2-brk Maintenance Bypass Panel (MBP) with SKRU (Electrical Control)- Breaker Schedule**

| UPS (KVA) (Series 2) | MBP PART NUMBER    | BREAKER MODEL (EATON-C) | MBB/MIB (Trip) | kAIC@ 240Vac | MBP Dimensions (W x D x H) | RECOMMENDED    |                |
|----------------------|--------------------|-------------------------|----------------|--------------|----------------------------|----------------|----------------|
|                      |                    |                         |                |              |                            | UIB/RIB (Trip) | MMB/BIB (Trip) |
| 15                   | MBP0122060000-K100 | EHD3060                 | 60A            | 18           | 30.0" x 10.0" x 36.0"      | 60A            | 60A            |
|                      | MBP0122060000-K600 | ED3060                  | 60A            | 65           |                            | 60A            | 60A            |
| 20                   | MBP0222070000-K100 | EHD3070                 | 70A            | 18           |                            | 70A            | 70A            |
|                      | MBP0222070000-K600 | FD3070                  | 70A            | 65           |                            | 70A            | 70A            |
| 30                   | MBP0322120000-K200 | EDB3125                 | 125A           | 22           |                            | 125A           | 125A           |
|                      | MBP0322120000-K600 | ED3125                  | 125A           | 65           |                            | 125A           | 125A           |
| 50                   | MBP0522170000-K200 | EDB3175                 | 175A           | 22           | 200A                       | 175A           |                |
|                      | MBP0522170000-K600 | ED3175                  | 175A           | 65           | 200A                       | 175A           |                |
| 60                   | MBP0622220000-K600 | JDB3225                 | 225A           | 65           | 250A                       | 225A           |                |
| 80                   | MBP0822300000-K600 | KDB3300                 | 300A           | 65           | 30.0" x 11.0" x 42.0"      | 350A           | 300A           |
| 100                  | MBP1022350000-K600 | KDB3350                 | 350A           | 65           |                            | 400A           | 350A           |

**Table 2- SKRU Control Wiring From MBP to UPS module**

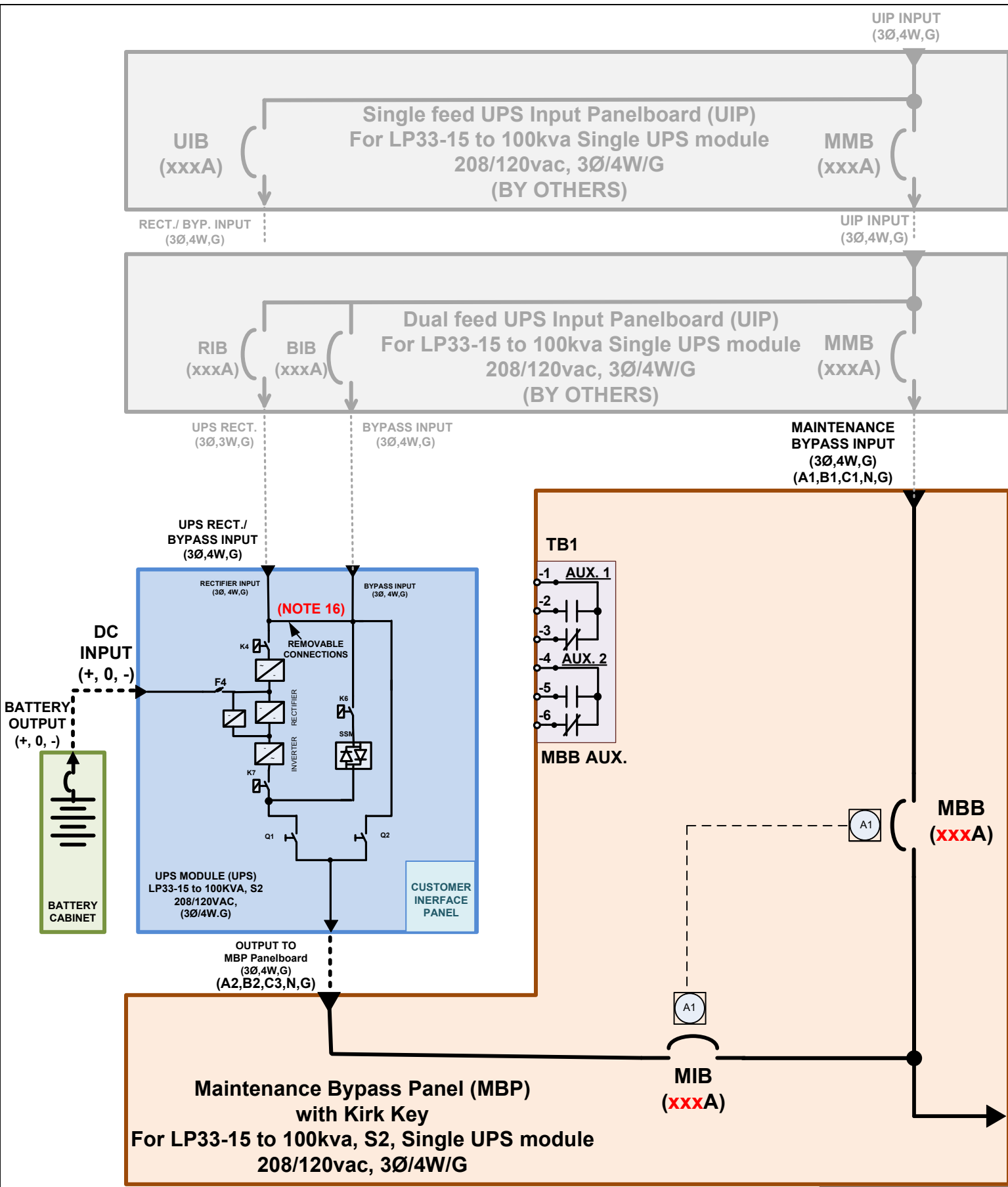
| Terminating Point in MBC | Terminating Point in UPS | Wire Size | Maximum Volt. & Current | Circuit Function  | Note         |
|--------------------------|--------------------------|-----------|-------------------------|---|--------------|
| TB2-1                    | J6-2 (CIC card)          | 18AWG     | 250vac                  | SKRU control (Key can be removed if UPS is on bypass)   | Twisted pair |
| TB2-2                    | J6-3 (CIC card)          |           |                         |   |              |
| TB2-4                    | J2-1 (CIC card)          | 18AWG     | 24V 1.25A               | UPS control (UPS transfer is prohibited during testing) | Twisted pair |
| TB2-5                    | J2-3 (CIC card)          |           |                         |   |              |

Project Name: STD      Point of Contact:      Equipment Part Number: See table 1

Issued by: PH      Issued date: 07/08/15      Scale: NONE      Drawing Title: 1L for LP33-15 to 100kva, S2, (208vac) & 2-bkr, wall mount MBP w/ SKRU

Revised by: PH      Revised date: 11/17/15      Rev. No.: 2.0      Drawing No.: **1-P3421LxxS002S00C**      Sheet No.: 1 of 1

GE Critical Power



**Notes:**

**2-bkr Maintenance Bypass Panelboard (MBP) with Kirk Key Interlocked (Wall Mount- Non-matching)**

1. Wall mount **Make-Before-Break** Maintenance Bypass Panelboard (MBP), with Kirk Key Interlocked, 208/120Vac, 3Ø/4W/G, for LP33 series 2 (S2) UPS module,
2. Main Breakers: MIB & MBB (xxxAT), 80% molded case, manually operated breaker. Refer to **Table 1** for breaker current rating.
3. N/A
4. Bus: Copper
5. Neutral: 200%
6. Aux Contact: 2A/B on MBB breaker only
7. Control: Kirk Key Interlocked on MBB and MIB breakers.
8. Equipment ground
9. Refer to national electric code for acceptable external wiring practice.
10. An upstream overcurrent protection with a maximum rating of 125% of the UPS rectifier input should be installed at the MBP input (A1,B1,&C1).
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 and UPS Bypass input must come from the same, 3Ø/4W/G (wye), solidly grounded electrical system.
14. The control if any, and power wirings must be installed in separate conduits.
15. To avoid a load dump or damage to the equipment, the transfer sequence instruction nameplate mounted to the MBP's door must be followed
16. For UPS module dual feed option, see UPS installation manual for details

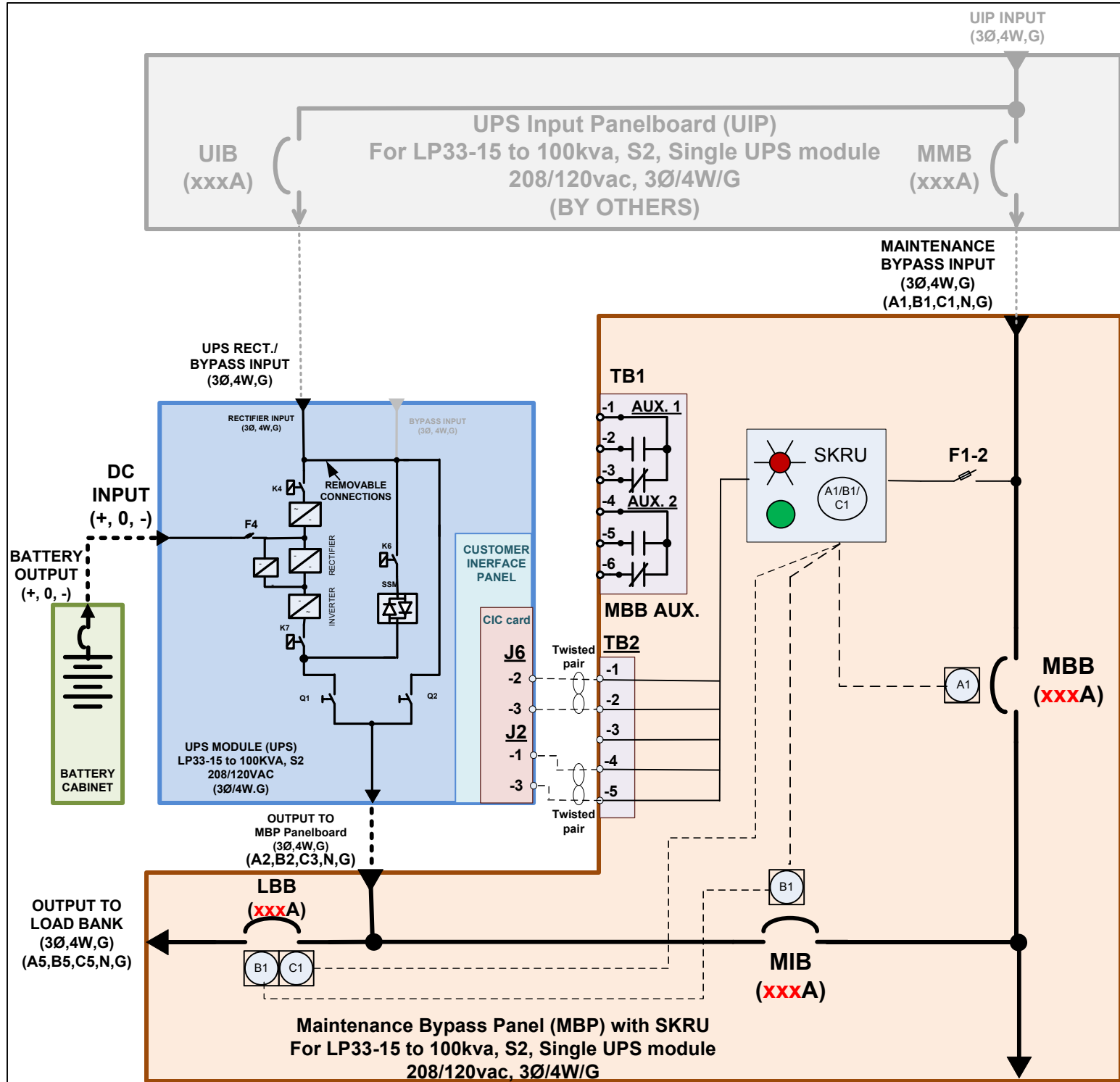
**UPS Input Panelboard (UIP), 208/120vac, 3Ø/4W/G, for LP33-15 to 100kva, Series 2 (S2) Single UPS module (BY OTHERS)**

| Table 1: 2-brk Maintenance Bypass Panel (MBP) with Kirk Key Interlocked- Breaker Schedule |                    |                            |                   |                 |                               | UIP (BY OTHERS)       |                   |      |
|---|--------------------|----------------------------|-------------------|-----------------|-------------------------------|-----------------------|-------------------|------|
| UPS (KVA)<br>(Series 2)   | MBP PART NUMBER    | BREAKER MODEL<br>(EATON-C) | MBB/MIB<br>(Trip) | kAIC@<br>240Vac | MBP Dimensions<br>(W x D x H) | RECOMMENDED           |                   |      |
|   |                    |                            |                   |                 |                               | UIB/RIB<br>(Trip)     | MMB/BIB<br>(Trip) |      |
| 15  | MBP0122060000-L100 | EHD3060                    | 60A               | 18              | 30.0" x 10.0" x 36.0"         | 60A                   | 60A               |      |
|   | MBP0122060000-L600 | ED3060                     | 60A               | 65              |                               | 60A                   | 60A               |      |
| 20  | MBP0222070000-L100 | EHD3070                    | 70A               | 18              |                               | 70A                   | 70A               |      |
|   | MBP0222070000-L600 | FD3070                     | 70A               | 65              |                               | 70A                   | 70A               |      |
| 30  | MBP0322120000-L200 | EDB3125                    | 125A              | 22              |                               | 125A                  | 125A              |      |
|   | MBP0322120000-L600 | ED3125                     | 125A              | 65              |                               | 125A                  | 125A              |      |
| 50  | MBP0522170000-L200 | EDB3175                    | 175A              | 22              |                               | 200A                  | 175A              |      |
|   | MBP0522170000-L600 | ED3175                     | 175A              | 65              |                               | 200A                  | 175A              |      |
| 60  | MBP0622220000-L600 | JDB3225                    | 225A              | 65              |                               | 250A                  | 225A              |      |
| 80  | MBP0822300000-L600 | KDB3300                    | 300A              | 65              |                               | 30.0" x 11.0" x 42.0" | 350A              | 300A |
| 100   | MBP1022350000-L600 | KDB3350                    | 350A              | 65              |                               |                       | 400A              | 350A |

**LEGEND:**  
MIB: UPS MODULE ISOLATION BREAKER  
MMB: MAINTENANCE BYPASS BREAKER  
UIB: UPS INPUT BREAKER ( IN UIP)  
MMB: MAINTENANCE MAIN BREAKER (IN UIP)

**LEGEND. CONTINUED**  
A1,B1,&C1: MBP Input from Utility, Phase-A, B, & C  
A2,B2,&C2: MBP Input from UPS output, Phase A,B, & C  
A3,B3,&C3: MBP Output to Critical Load, Phase A, B, & C  
N: Neutral; G: Ground

|                      |                   |                           |                  |   |                      |
|----------------------|-------------------|---------------------------|------------------|---|----------------------|
| Project Name:<br>STD |                   | Point of Contact:         |                  | Equipment Part Number:<br>See table 1   |                      |
| GE<br>Critical Power | Issued by:<br>PH  | Issued date:<br>07/13/15  | Scale:<br>NONE   | Drawing Title:<br>System 1L for LP33-15 to 100kva, S2, (208vac) & 2-bkr, wall mount MBP w/ Kirk Key |                      |
|                      | Revised by:<br>PH | Revised date:<br>11/17/15 | Rev. No.:<br>2.0 | Drawing No.:<br><b>1-P3421LxxS002K00C</b>   | Sheet No.:<br>1 of 1 |



| Terminating point In MBP | Terminating point In UPS | Wire Size | Maximum Voltage & Current | Circuit Function  | Note         |
|--------------------------|--------------------------|-----------|---------------------------|---|--------------|
| TB2-1                    | J6-2 (CIC card)          | 18AWG     | 250Vac                    | SKRU control (Key can be removed if UPS is on bypass)   | Twisted pair |
| TB2-2                    | J6-3 (CIC card)          |           |                           |   |              |
| TB2-4                    | J2-1 (CIC card)          | 18AWG     | 24V<br>1.25A              | UPS control (UPS transfer is prohibited during testing) | Twisted pair |
| TB2-5                    | J2-3 (CIC card)          |           |                           |   |              |

**LEGEND:**  
MIB: UPS MODULE ISOLATION BREAKER  
MBB: MAINTENANCE BYPASS BREAKER  
LBB: LOAD BANK BREAKER  
UIB: UPS INPUT BREAKER (IN UIP)  
MMB: MAINTENANCE MAIN BREAKER (IN UIP)

**LEGEND. CONTINUED**  
A1,B1,&C1: MBP Input from Utility, Phase-A, B, & C  
A2,B2,&C2: MBP Input from UPS output, Phase A,B, & C  
A3,B3,&C3: MBP Output to Critical Load, Phase A, B, & C  
N: Neutral; G: Ground

**Notes:**

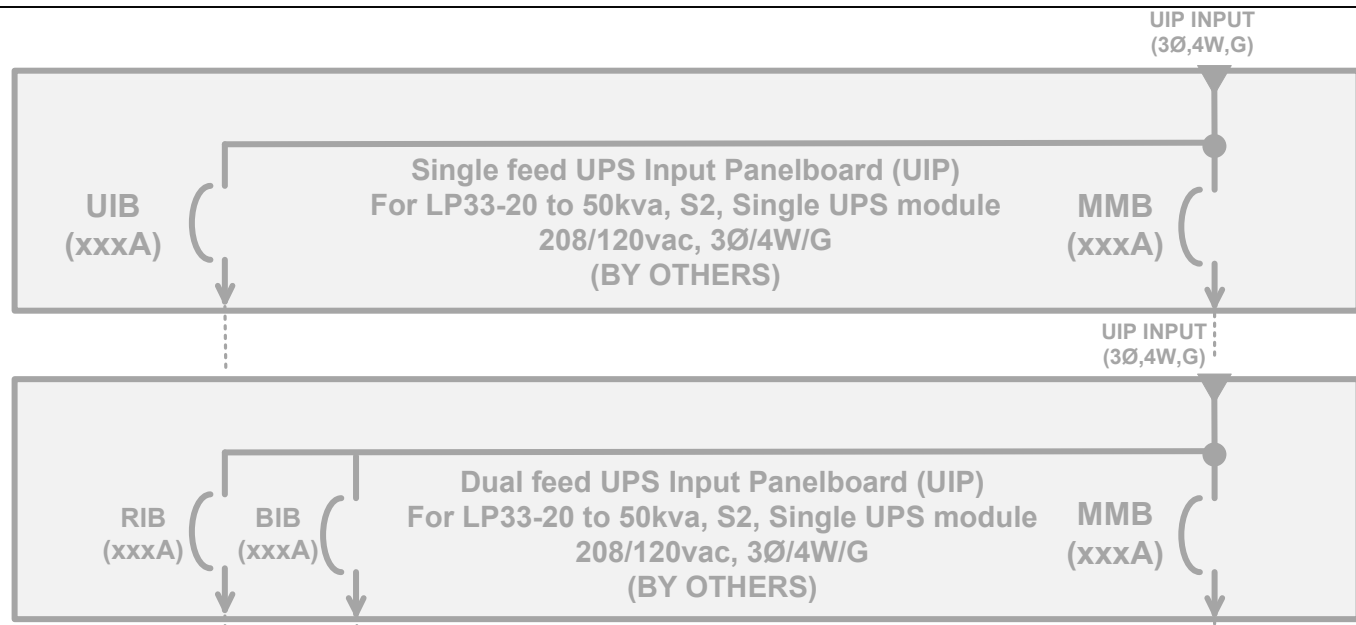
**2-brk Maintenance Bypass Panelboard (MBP) with SKRU (Wall Mount- Non-matching)**

- Wall mount **Make-Before-Break** Maintenance Bypass Panelboard (MBP), with SKRU for LP33 series UPS module, 208/120Vac, 3Ø/4W/G.
- Main Breakers: MIB & MBB (xxxAT), 80% molded case, manually operated breaker. Refer to **Table 1** for breaker current rating.
- Load Bank Breaker: LBB (xxxAT), 80% molded case, manually operated breaker. Refer to **Table 1** for breaker current rating.
- Bus: Copper
- Neutral: 200%
- Aux Contact: 2A/B on MBB breaker only
- Control: SKRU with Kirk Key on MBB and MIB breakers.
- Equipment ground
- Refer to national electric code for acceptable external wiring practice.
- An upstream overcurrent protection with a maximum rating of 125% of the UPS rectifier input should be installed at the MBP input (A1,B1,&C1).
- The external wiring is rated at 75°C or 90°C.
- The external wiring material and labor to be provided and paid by others.
- Maintenance Bypass Input and UPS Bypass input must come from the same, 3Ø/4W/G (wye), solidly grounded electrical system.
- The control and power wirings must be installed in separate conduits.
- Refer to **Table 2** for control wiring from MBP to UPS module.
- A Customer Interface Card, p/n: 1026645 (IM0268), is required in the UPS module.
- To avoid a load dump or damage to the equipment, the transfer sequence instruction nameplate mounted to the MBP's door must be followed

**UPS Input Panelboard (UIP), 208/120vac, 3Ø/4W/G, for LP33-15 to 100kva, Series 2 (S2) Single UPS module (BY OTHERS)**

|     | MBP PART NUMBER    | BREAKER MODEL (EATON-C) | MBB/MIB/LBB (Trip) | kAIC@ 240Vac | MBP Dimensions (W x D x H) | RECOMMENDED    |                |
|-----|--------------------|-------------------------|--------------------|--------------|----------------------------|----------------|----------------|
|     |                    |                         |                    |              |                            | UIB/RIB (Trip) | MMB/BIB (Trip) |
| 15  | MBP01220600L0-K100 | EHD3060                 | 60A                | 18           | TBD                        | 60A            | 60A            |
|     | MBP01220600L0-K600 | ED3060                  | 60A                | 65           |                            | 60A            | 60A            |
| 20  | MBP02220700L0-K100 | EHD3070                 | 70A                | 18           |                            | 70A            | 70A            |
|     | MBP02220700L0-K600 | FD3070                  | 70A                | 65           |                            | 70A            | 70A            |
| 30  | MBP03221200L0-K200 | EDB3125                 | 125A               | 22           |                            | 125A           | 125A           |
|     | MBP03221200L0-K600 | ED3125                  | 125A               | 65           |                            | 125A           | 125A           |
| 50  | MBP05221700L0-K200 | EDB3175                 | 175A               | 22           |                            | 200A           | 175A           |
|     | MBP05221700L0-K600 | ED3175                  | 175A               | 65           |                            | 200A           | 175A           |
| 60  | MBP06222200L0-K600 | JDB3225                 | 225A               | 65           |                            | 250A           | 225A           |
| 80  | MBP08223000L0-K600 | KDB3300                 | 300A               | 65           |                            | TBD            | 350A           |
| 100 | MBP10223500L0-K600 | KDB3350                 | 350A               | 65           | 400A                       |                | 350A           |

|                   |                |                        |               |  |                   |
|-------------------|----------------|------------------------|---------------|--|-------------------|
| Project Name: STD |                | Point of Contact:      |               | Equipment Part Number: See table 1   |                   |
|                   | Issued by: PH  | Issued date: 07/13/15  | Scale: NONE   | Drawing Title: System 1L for LP33-15 to 100kva, S2, (208vac) & 2-brk, WM MBP w/ SKRU & LBB |                   |
|                   | Revised by: PH | Revised date: 11/17/15 | Rev. No.: 2.0 | Drawing No.: <b>1-P3421LxxS0L2S00C</b>   | Sheet No.: 1 of 1 |

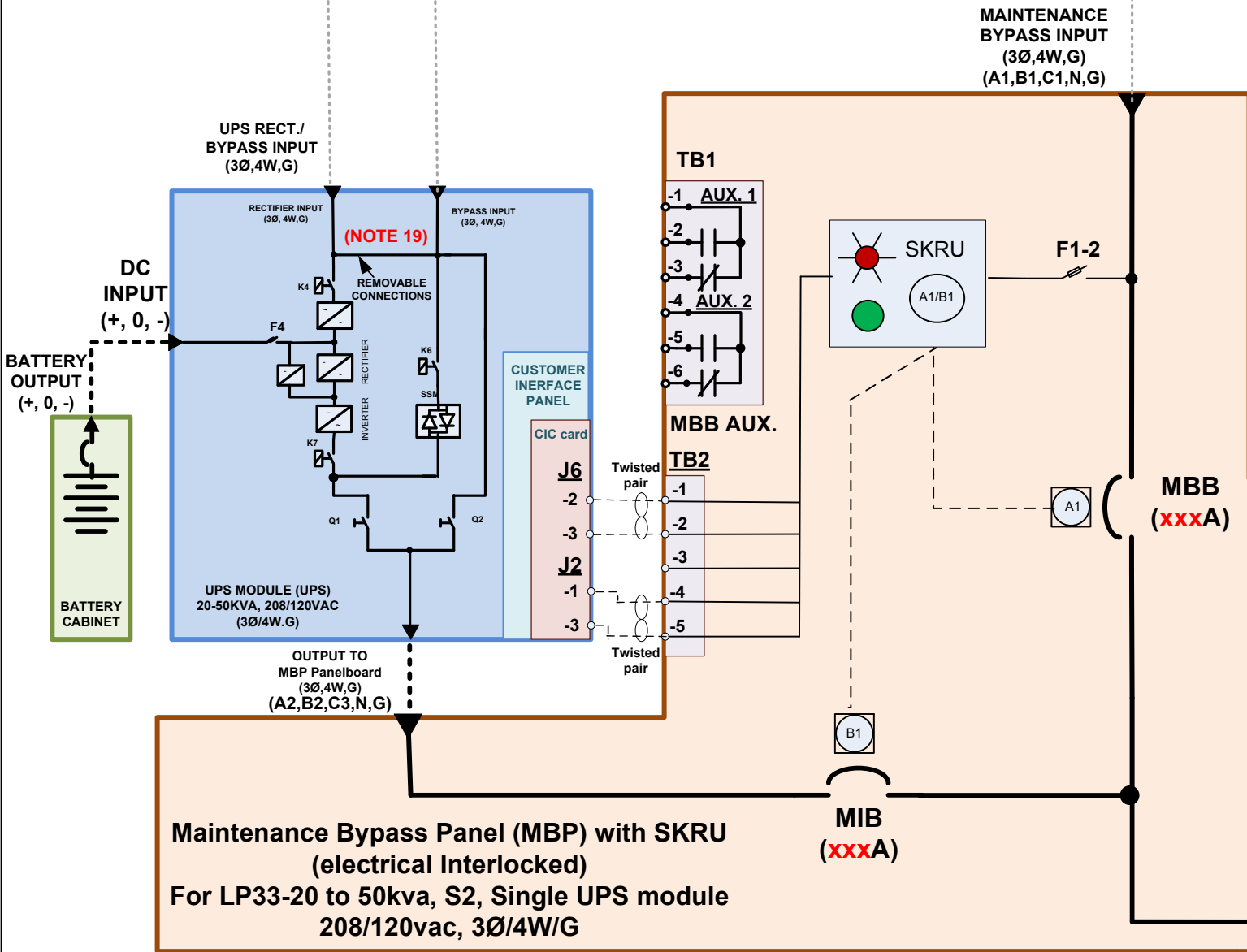


**Notes:**

**2-brk Maintenance Bypass Panelboard (MBP) with SKRU (Wall Mount- Non-matching)**

1. Wall mount **Make-Before-Break** Maintenance Bypass Panelboard (MBP), with SKRU for LP33 series 2 (S2) UPS module, 208/120Vac, 3Ø/4W/G.
2. Main Breakers: MIB & MBB (xxxAT), 80% molded case, manually operated breaker. Refer to **Table 1** for breaker current rating.
3. N/A
4. Bus: Copper
5. Neutral: 200%
6. Aux Contact: 2A/B on MBB breaker only
7. Distribution Panelboard: Eaton 30-pole Distribution Panelboard (DP) without branch breakers.
8. Control: SKRU with Kirk Key on MBB and MIB breakers.
9. Equipment ground
10. Refer to national electric code for acceptable external wiring practice.
11. An upstream overcurrent protection with a maximum rating of 125% of the UPS rectifier input should be installed at the MBP input (A1,B1,&C1).
12. The external wiring is rated at 75°C or 90°C.
13. The external wiring material and labor to be provided and paid by others.
14. Maintenance Bypass Input and UPS Bypass input must come from the same, 3Ø/4W/G (wye), solidly grounded electrical system.
15. The control and power wirings must be installed in separate conduits.
16. Refer to **Table 2** for control wiring from MBP to UPS module.
17. A Customer Interface Card, p/n: 1026645 (IM0268), is required in the UPS module.
18. To avoid a load dump or damage to the equipment, the transfer sequence instruction nameplate mounted to the MBP's door must be followed.
19. For UPS module dual feed option, see UPS installation manual for details.

**UPS Input Panelboard (UIP), 208/120vac, 3Ø/4W/G, for LP33-20 to 50kva, S2, Single UPS module (BY OTHERS)**



**Table 1: 2-brk Maintenance Bypass Panelboard (MBP) with SKRU (Electrical Control) and Distribution Panel (DP)- Breaker Schedule**

| UPS (KVA) | MBP PART NUMBER    | MBB/MIB (Trip) | DISTRIBUTION PANEL (DP)         | MBP Dimensions (W x D x H) | kAIC@ 240Vac | RECOMMENDED    |                |      |
|-----------|--------------------|----------------|---------------------------------|----------------------------|--------------|----------------|----------------|------|
|           |                    |                |                                 |                            |              | UIB/RIB (Trip) | MMB/BIB (Trip) |      |
| 20        | MBP0222070000-K1D3 | 70A            | EATON                           | 25.5" x 10.0" x 55.1"      | 18           | 70A            | 70A            |      |
| 30        | MBP0322120000-K2D3 | 125A           | 30-POLE DISTRIBUTION PANEL (DP) |                            |              | 22             | 125A           | 125A |
| 50        | MBP0522170000-K2D3 | 175A           | WITHOUT BRANCH BREAKERS         |                            |              | 22             | 200A           | 175A |

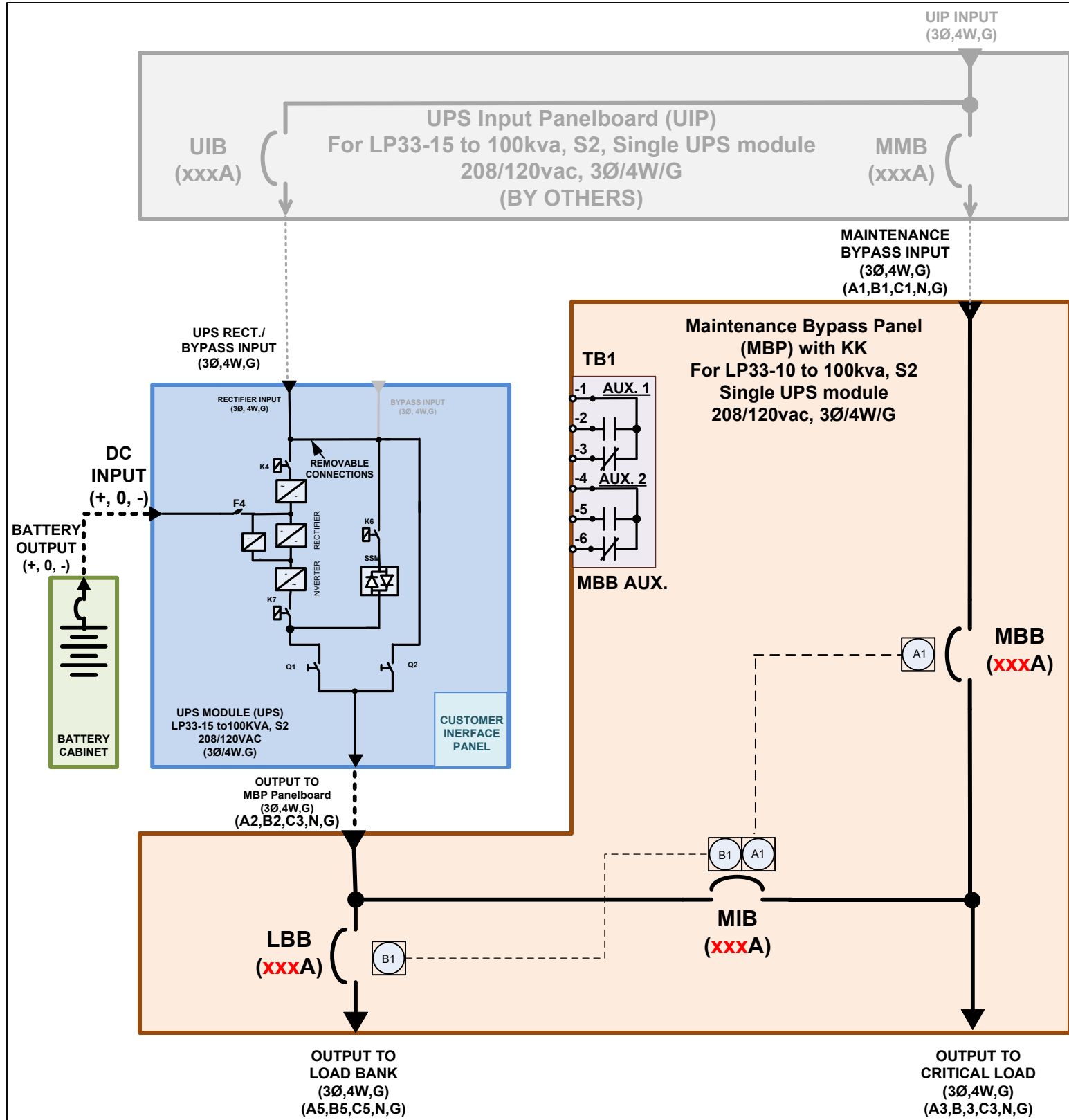
**Table 2- SKRU Control Wiring From MBP to UPS module**

| Terminating Point in MBP | Terminating Point in UPS | Wire Size | Maximum Volt. & Current | Circuit Function  | Note         |
|--------------------------|--------------------------|-----------|-------------------------|---|--------------|
| TB2-1                    | J6-2 (CIC card)          | 18AWG     | 250Vac                  | SKRU control (Key can be removed if UPS is on bypass)   | Twisted pair |
| TB2-2                    | J6-3 (CIC card)          |           |                         |   |              |
| TB2-4                    | J2-1 (CIC card)          | 18AWG     | 24V 1.25A               | UPS control (UPS transfer is prohibited during testing) | Twisted pair |
| TB2-5                    | J2-3 (CIC card)          |           |                         |   |              |

**LEGEND:**  
MIB: UPS MODULE ISOLATION BREAKER  
MBB: MAINTENANCE BYPASS BREAKER  
UIB: UPS INPUT BREAKER ( IN UIP)  
MMB: MAINTENANCE MAIN BREAKER (IN UIP)

**LEGEND. CONTINUED**  
A1,B1,&C1: MBP Input from Utility, Phase-A, B, & C  
A2,B2,&C2: MBP Input from UPS output, Phase A,B, & C  
A3,B3,&C3: MBP Output to Critical Load, Phase A, B, & C  
N: Neutral; G: Ground

|                      |  |   |
|----------------------|--|---|
| Project Name:<br>STD | Point of Contact:  | Equipment Part Number:<br>See table 1     |
|                      | Issued by:<br>PH   | Issued date:<br>07/13/15                  |
|                      | Revised by:<br>PH  | Revised date:<br>11/17/15                 |
|                      | Scale:<br>NONE   | Rev. No.:<br>2.0                          |
|                      | Drawing Title:<br>2-brk MBP w/ SKRU & 30-pole DP for LP33-20 to 50kva, Series 2 (S2) UPS modules | Drawing No.:<br><b>1-P3421L05S002SD3C</b> |
|                      |  | Sheet No.:<br>1 of 1                      |



**Notes:**

**2-brk Maintenance Bypass Panelboard (MBP) with Kirk Key Interlocked & LBB (Wall Mount- Non-matching)**

1. Wall mount **Make-Before-Break** Maintenance Bypass Panelboard (MBP), with Kirk Key Interlocked & LBB, 208/120Vac, 3Ø/4W/G, for LP33 series 2 (S2) UPS module,
2. Main Breakers: MIB & MBB (xxxAT), 80% molded case, manually operated breaker. Refer to **Table 1** for breaker current rating.
3. Load Bank Breaker: LBB (xxxAT), 80% 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: Kirk Key Interlocked on MBB and MIB breakers.
8. Equipment ground
9. Refer to national electric code for acceptable external wiring practice.
10. An upstream overcurrent protection with a maximum rating of 125% of the UPS rectifier input should be installed at the MBP input (A1, B1, & C1).
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 and UPS Bypass input must come from the same, 3Ø/4W/G (wye), solidly grounded electrical system.
14. The control if any, and power wirings must be installed in separate conduits.
15. To avoid a load dump or damage to the equipment, the transfer sequence instruction nameplate mounted to the MBP's door must be followed

**UPS Input Panelboard (UIP), 208/120vac, 3Ø/4W/G, for LP33-15 to 100kva, Series 2 (S2) Single UPS module (BY OTHERS)**

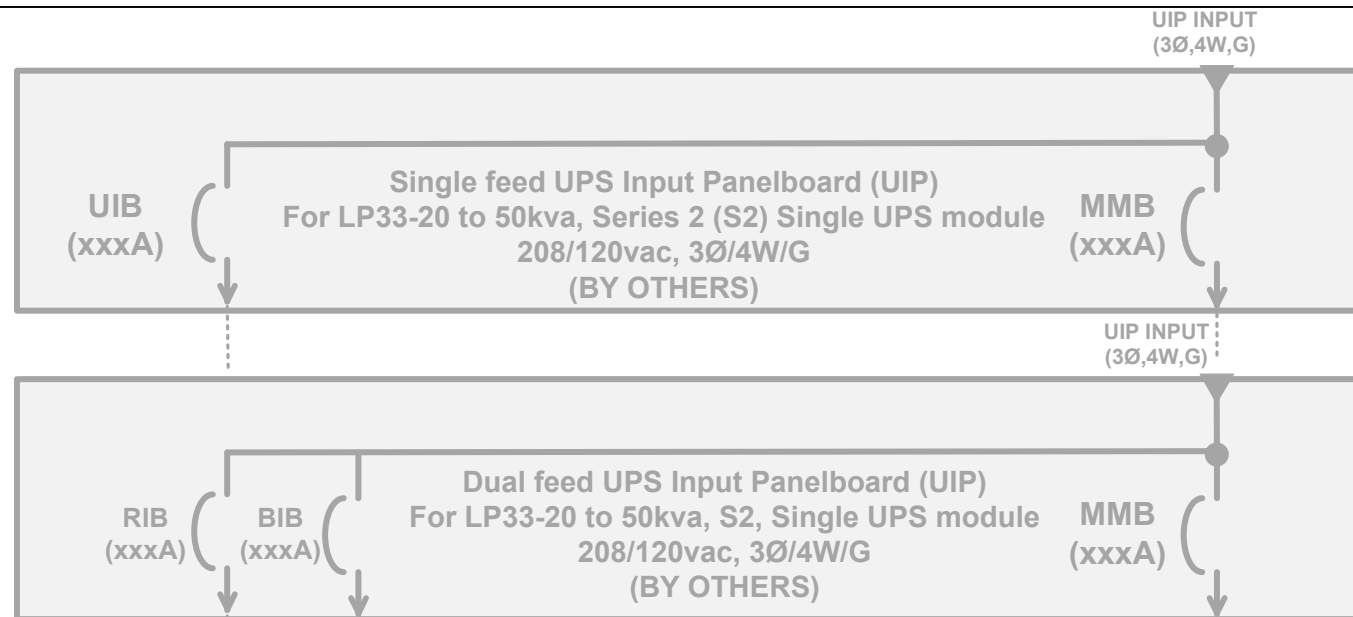
**Table 1: 2-brk Maintenance Bypass Panelboard (MBP) with Kirk Key Interlocked & LBB- Breaker Schedule**

| UPS (KVA) (Series 2) | MBP PART NUMBER    | BREAKER MODEL (EATON-C) | MBB/MIB/LBB (Trip) | kAIC@ 240Vac | MBP Dimensions (W x D x H) | UIP (BY OTHERS) |                |
|----------------------|--------------------|-------------------------|--------------------|--------------|----------------------------|-----------------|----------------|
|                      |                    |                         |                    |              |                            | RECOMMENDED     |                |
|                      |                    |                         |                    |              |                            | UIB/RIB (Trip)  | MMB/BIB (Trip) |
| 15                   | MBP01220600L0-L100 | EHD3060                 | 60A                | 18           | TBD                        | 60A             | 60A            |
|                      | MBP01220600L0-L600 | ED3060                  | 60A                | 65           |                            | 60A             | 60A            |
| 20                   | MBP02220700L0-L100 | EHD3070                 | 70A                | 18           |                            | 70A             | 70A            |
|                      | MBP02220700L0-L600 | FD3070                  | 70A                | 65           |                            | 70A             | 70A            |
| 30                   | MBP03221200L0-L200 | EDB3125                 | 125A               | 22           |                            | 125A            | 125A           |
|                      | MBP03221200L0-L600 | ED3125                  | 125A               | 65           |                            | 125A            | 125A           |
| 50                   | MBP05221700L0-L200 | EDB3175                 | 175A               | 22           |                            | 200A            | 175A           |
|                      | MBP05221700L0-L600 | ED3175                  | 175A               | 65           |                            | 200A            | 175A           |
| 60                   | MBP06222200L0-L600 | JDB3225                 | 225A               | 65           |                            | 250A            | 225A           |
| 80                   | MBP08223000L0-L600 | KDB3300                 | 300A               | 65           |                            | TBD             | 350A           |
| 100                  | MBP10223500L0-L600 | KDB3350                 | 350A               | 65           | 400A                       |                 | 350A           |

**LEGEND:**  
MIB: UPS MODULE ISOLATION BREAKER  
MMB: MAINTENANCE BYPASS BREAKER  
LBB: LOAD BANK BREAKER  
UIB: UPS INPUT BREAKER ( IN UIP)  
MMB: MAINTENANCE MAIN BREAKER (IN UIP)

**LEGEND. CONTINUED**  
A1, B1, & C1: MBP Input from Utility, Phase-A, B, & C  
A2, B2, & C2: MBP Input from UPS output, Phase A, B, & C  
A3, B3, & C3: MBP Output to Critical Load, Phase A, B, & C  
N: Neutral; G: Ground

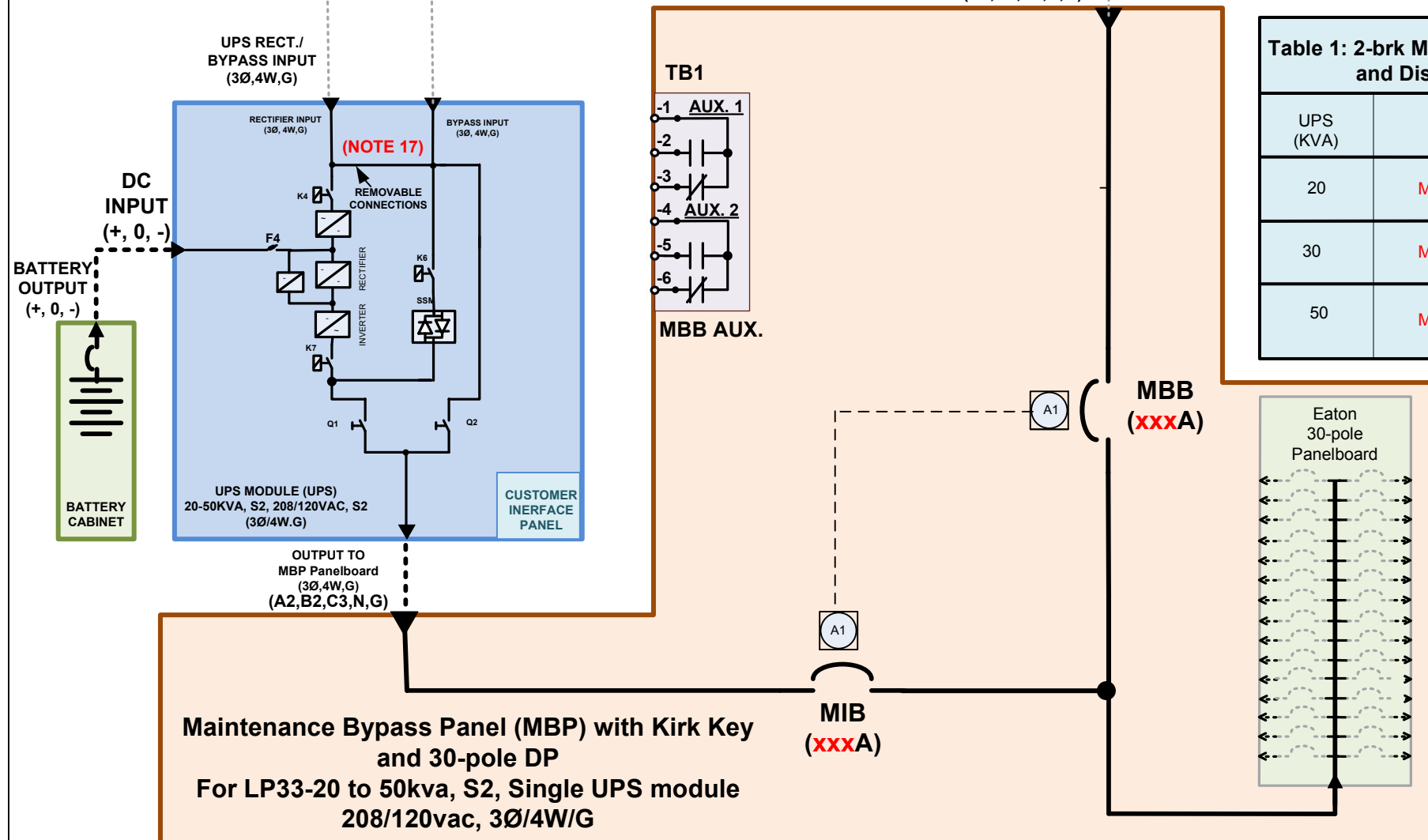
|                   |                |                        |               |  |                   |
|-------------------|----------------|------------------------|---------------|--|-------------------|
| Project Name: STD |                | Point of Contact:      |               | Equipment Part Number: See table 1   |                   |
|                   | Issued by: PH  | Issued date: 07/13/15  | Scale: NONE   | Drawing Title: System 1L for LP33-15 to 100kva, S2, (208vac) & 2-brk, wall mount MBP w/ KK & LBB |                   |
|                   | Revised by: PH | Revised date: 11/17/15 | Rev. No.: 2.0 | Drawing No.: <b>1-P3421LxxS0L2K00C</b>   | Sheet No.: 1 of 1 |



**Notes:**

- 2-brk Maintenance Bypass Panelboard (MBP) with Kirk Key and 30-pole Distribution Panel (Wall Mount- Non-matching)**
1. Wall mount **Make-Before-Break** Maintenance Bypass Panelboard (MBP), with SKRU & 30-pole DP for LP33 series 2 (S2) UPS module, 208/120Vac, 3Ø/4W/G.
  2. Main Breakers: MIB & MBB (xxxAT), 80% molded case, manually operated breaker. Refer to **Table 1** for breaker current rating.
  3. N/A
  4. Bus: Copper
  5. Neutral: 200%
  6. Aux Contact: 2A/B on MBB breaker only
  7. Distribution Panelboard: Eaton 30-pole Distribution Panelboard (DP) without branch breakers.
  8. Control: Single Kirk Key on MBB (A1) and MIB (A1) breakers.
  9. Equipment ground
  10. Refer to national electric code for acceptable external wiring practice.
  11. An upstream overcurrent protection with a maximum rating of 125% of the UPS rectifier input should be installed at the MBP input (A1,B1,&C1).
  12. The external wiring is rated at 75°C or 90°C.
  13. The external wiring material and labor to be provided and paid by others.
  14. Maintenance Bypass Input and UPS Bypass input must come from the same, 3Ø/4W/G (wye), solidly grounded electrical system.
  15. The control, if any, and power wirings must be installed in separate conduits.
  16. To avoid a load dump or damage to the equipment, the transfer sequence instruction nameplate mounted to the MBP's door must be followed
  17. For UPS module dual feed option, see UPS installation manual for details

**UPS Input Panelboard (UIP), 208/120vac, 3Ø/4W/G, for LP33-20 to 50kva, S2, Single UPS module (BY OTHERS)**

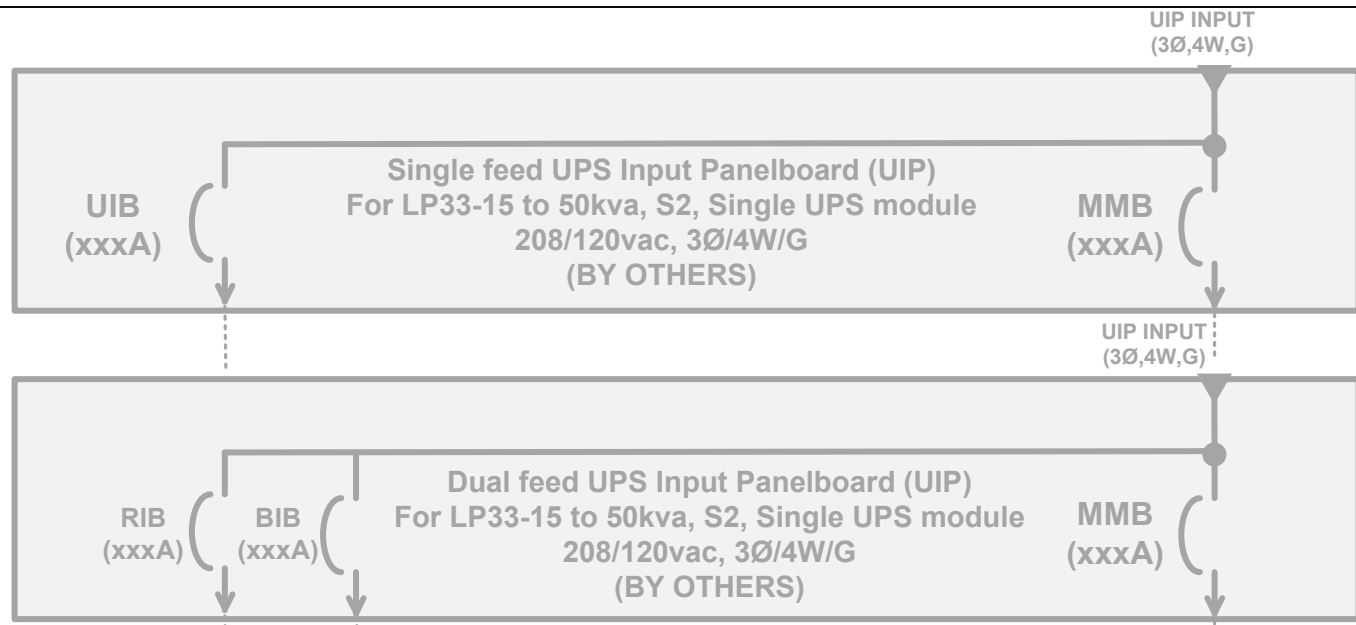


| Table 1: 2-brk Maintenance Bypass Panelboard (MBP) with Kirk Key (KK) and Distribution Panel (DP)- Breaker Schedule |                    |                |                                 |                            |              | UIP (BY OTHERS) |                |
|---|--------------------|----------------|---------------------------------|----------------------------|--------------|-----------------|----------------|
| UPS (KVA)   | MBP PART NUMBER    | MBB/MIB (Trip) | DISTRIBUTION PANEL (DP)         | MBP Dimensions (W x D x H) | kAIC@ 240Vac | RECOMMENDED     |                |
|   |                    |                |                                 |                            |              | UIB/RIB (Trip)  | MMB/BIB (Trip) |
| 20  | MBP0222070000-L1D3 | 70A            | EATON                           | 25.5" x 10.0" x 55.1"      | 18           | 70A             | 70A            |
| 30  | MBP0322120000-L2D3 | 125A           | 30-POLE DISTRIBUTION PANEL (DP) |                            |              | 125A            | 125A           |
| 50  | MBP0522170000-L2D3 | 175A           | WITHOUT BRANCH BREAKERS         |                            |              | 200A            | 175A           |

**LEGEND:**  
MIB: UPS MODULE ISOLATION BREAKER  
MBB: MAINTENANCE BYPASS BREAKER  
UIB: UPS INPUT BREAKER ( IN UIP)  
MMB: MAINTENANCE MAIN BREAKER (IN UIP)

**LEGEND. CONTINUED**  
A1,B1,&C1: MBP Input from Utility, Phase-A, B, & C  
A2,B2,&C2: MBP Input from UPS output, Phase A,B, & C  
A3,B3,&C3: MBP Output to Critical Load, Phase A, B, & C  
N: Neutral; G: Ground

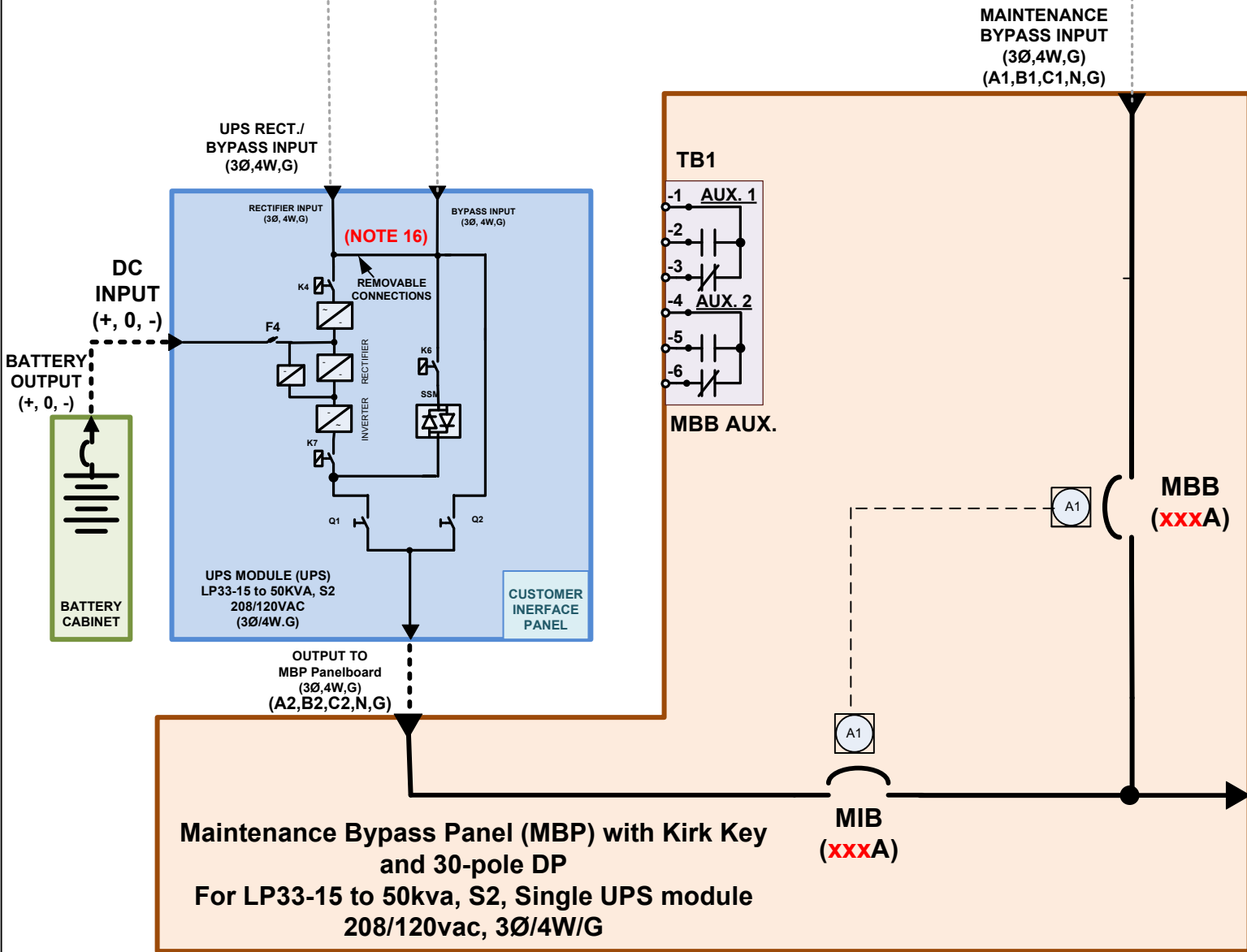
|                      |                   |                           |                  |  |                                       |                      |
|----------------------|-------------------|---------------------------|------------------|--|---------------------------------------|----------------------|
| Project Name:<br>STD |                   | Point of Contact:         |                  |  | Equipment Part Number:<br>See table 1 |                      |
|                      | Issued by:<br>PH  | Issued date:<br>07/13/15  | Scale:<br>NONE   | Drawing Title:<br>2-brk MBP w/ kk & 30-pole DP for LP33-20 to 50kva, S2, UPS modules |                                       |                      |
|                      | Revised by:<br>PH | Revised date:<br>11/17/15 | Rev. No.:<br>2.0 | Drawing No.:<br><b>1-P3421L05S002KD3C</b>  |                                       | Sheet No.:<br>1 of 1 |



**Notes:**

- 2-brk Maintenance Bypass Panelboard (MBP) with Kirk Key, Low kAIC reating (Wall Mount- Non-matching)**
1. Wall mount **Make-Before-Break** Maintenance Bypass Panelboard (MBP), with Kirk Key, low kAIC, for LP33 series, S2, UPS module, 208/120Vac, 3Ø/4W/G.
  2. Main Breakers: MIB & MBB (xxxAT), 80% molded case, manually operated breaker. Refer to **Table 1** for breaker current rating.
  3. N/A
  4. Bus: Copper
  5. Neutral: 200%
  6. Aux Contact: 2A/B on MBB breaker only
  7. Control: Single Kirk Key on MBB (A1) and MIB (A1) breakers.
  8. Equipment ground
  9. Refer to national electric code for acceptable external wiring practice.
  10. An upstream overcurrent protection with a maximum rating of 125% of the UPS rectifier input should be installed at the MBP input (A1,B1,&C1).
  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 and UPS Bypass input must come from the same, 3Ø/4W/G (wye), solidly grounded electrical system.
  14. The control, if any, and power wirings must be installed in separate conduits.
  15. To avoid a load dump or damage to the equipment, the transfer sequence instruction nameplate mounted to the MBP's door must be followed
  16. For UPS module dual feed option, see UPS installation manual for details.

**UPS Input Panelboard (UIP), 208/120vac, 3Ø/4W/G, for LP33-15 to 50kva, S2, Single UPS module (BY OTHERS)**



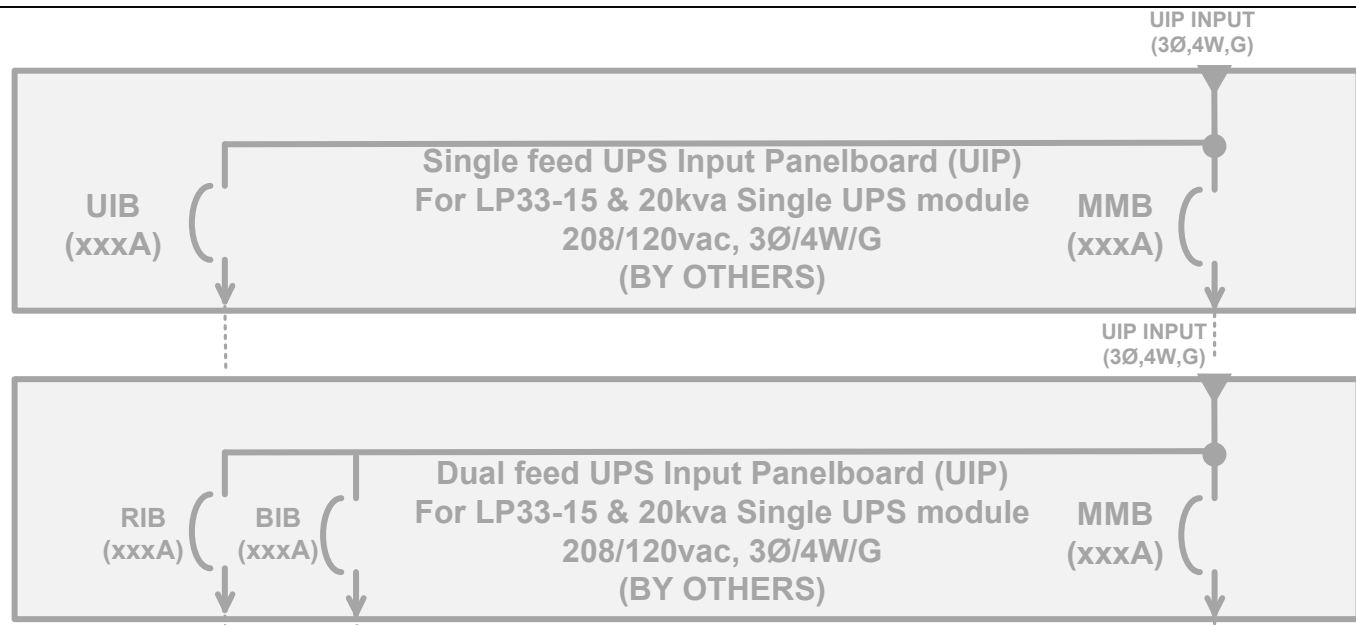
**Table 1: 2-brk Maintenance Bypass Panel (MBP), Low kAIC, with Kirk Key (KK) - Breaker Schedule**

| UPS (KVA) | MBP PART NUMBER    | MBB/MIB (Trip) | kAIC@ 240Vac | MBP Dimensions (W x D x H) | RECOMMENDED    |                |
|-----------|--------------------|----------------|--------------|----------------------------|----------------|----------------|
|           |                    |                |              |                            | UIB/RIB (Trip) | MMB/BIB (Trip) |
| 15        | MBP0122060000-L000 | 60A            | 10           | 24.0" x 5.56" x 12.0"      | 60A            | 60A            |
| 20        | MBP0222070000-L000 | 70A            | 10           |                            | 70A            | 70A            |
| 30        | MBP0322120000-L000 | 125A           | 10           |                            | 125A           | 125A           |
| 50        | MBP0522170000-L000 | 175A           | 10           |                            | 200A           | 175A           |

**LEGEND:**  
MIB: UPS MODULE ISOLATION BREAKER  
MMB: MAINTENANCE BYPASS BREAKER  
UIB: UPS INPUT BREAKER ( IN UIP)  
MMB: MAINTENANCE MAIN BREAKER (IN UIP)

**LEGEND. CONTINUED**  
A1,B1,&C1: MBP Input from Utility, Phase-A, B, & C  
A2,B2,&C2: MBP Input from UPS output, Phase A,B, & C  
A3,B3,&C3: MBP Output to Critical Load, Phase A, B, & C  
N: Neutral; G: Ground

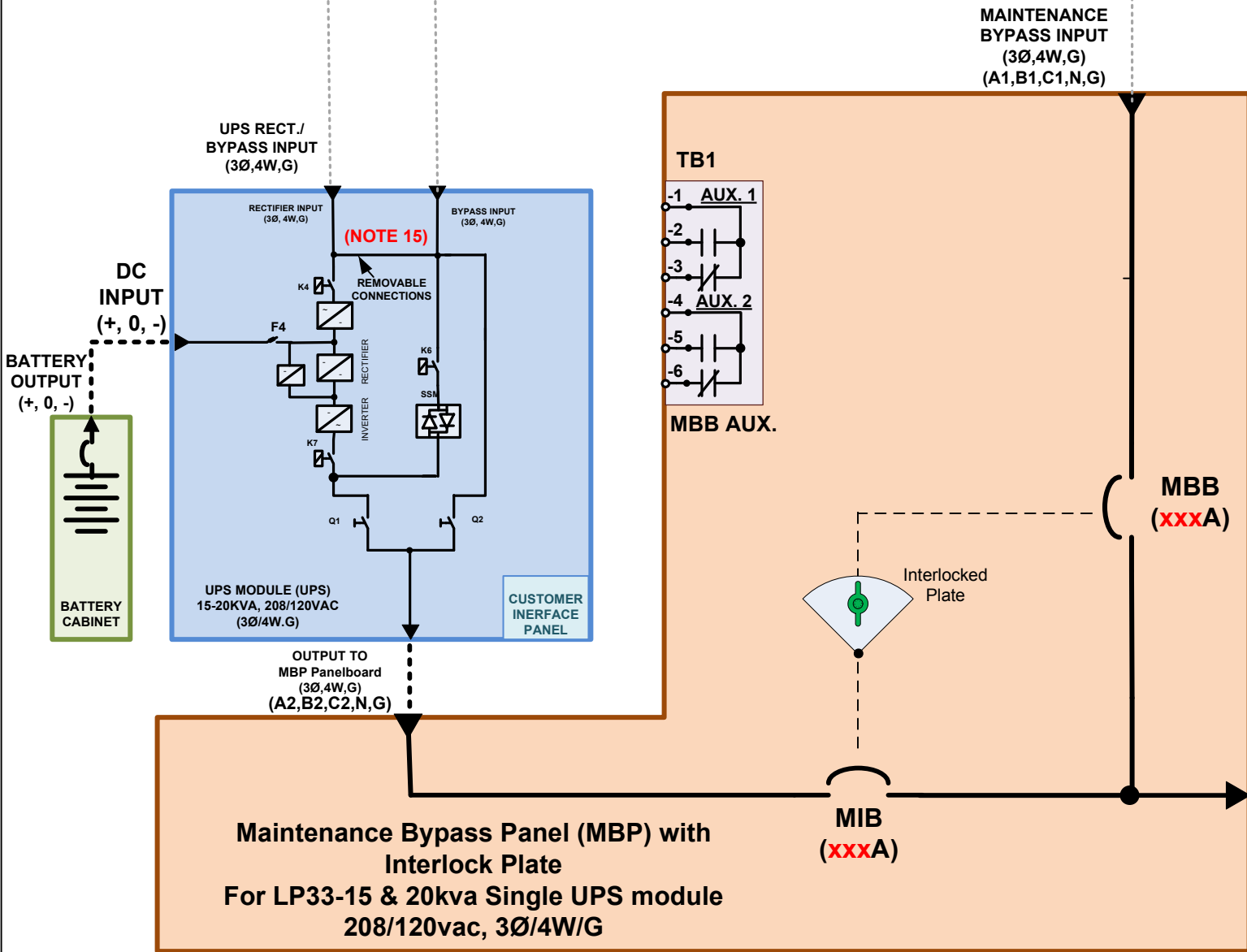
|                   |                |                        |               |   |                   |
|-------------------|----------------|------------------------|---------------|---|-------------------|
| Project Name: STD |                | Point of Contact:      |               | Equipment Part Number: See table 1  |                   |
| GE Critical Power | Issued by: PH  | Issued date: 07/13/15  | Scale: NONE   | Drawing Title: 2-brk MBP w/ kk, 10kAIC, for LP33-15 to 50kva, Series 2 (S2) UPS modules |                   |
|                   | Revised by: PH | Revised date: 11/17/15 | Rev. No.: 2.0 | Drawing No.: <b>1-P3421L05S002KLKC</b>  | Sheet No.: 1 of 1 |



**Notes:**

- 2-brk Maintenance Bypass Panelboard (MBP) with Interlock Plate (IP) (Wall Mount- Non-matching)**
1. Wall mount **Make-Before-Break** Maintenance Bypass Panelboard (MBP), with Interlock Plate, 10 kAIC, for LP33 series UPS module, 208/120Vac, 3Ø/4W/G.
  2. Main Breakers: MIB & MBB (xxxAT), 80% molded case, manually operated breaker. Refer to **Table 1** for breaker current rating.
  3. N/A
  4. Bus: Copper
  5. Neutral: 200%
  6. Aux Contact: 2A/B on MBB breaker only
  7. Control: Interlock Plate between MBB and MIB breakers.
  8. Equipment ground
  9. Refer to national electric code for acceptable external wiring practice.
  10. An upstream overcurrent protection with a maximum rating of 125% of the UPS rectifier input should be installed at the MBP input (A1,B1,&C1).
  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 and UPS Bypass input must come from the same, 3Ø/4W/G (wye), solidly grounded electrical system.
  14. The control, if any, and power wirings must be installed in separate conduits.
  15. For UPS module dual feed option, see UPS installation manual for details.

**UPS Input Panelboard (UIP), 208/120vac, 3Ø/4W/G, for LP33-15 and 20kva Single UPS module (BY OTHERS)**



| UPS (KVA) | MBP PART NUMBER    | MBB/MIB (Trip) | kAIC@ 240Vac | MBP Dimensions (W x D x H) | RECOMMENDED    |                |
|-----------|--------------------|----------------|--------------|----------------------------|----------------|----------------|
|           |                    |                |              |                            | UIB/RIB (Trip) | MMB/BIB (Trip) |
| 15        | MBP0122060000-L0IP | 60A            | 10           | 24.0" x 5.56" x 12.0"      | 60A            | 60A            |
| 20        | MBP0222070000-L0IP | 70A            | 10           |                            | 70A            | 70A            |

**LEGEND:**  
 MIB: UPS MODULE ISOLATION BREAKER  
 MBB: MAINTENANCE BYPASS BREAKER  
 UIB: UPS INPUT BREAKER ( IN UIP)  
 MMB: MAINTENANCE MAIN BREAKER (IN UIP)

**LEGEND. CONTINUED**  
 A1,B1,&C1: MBP Input from Utility, Phase-A, B, & C  
 A2,B2,&C2: MBP Input from UPS output, Phase A,B, & C  
 A3,B3,&C3: MBP Output to Critical Load, Phase A, B, & C  
 N: Neutral; G: Ground

|                      |                   |                           |                  |  |                      |
|----------------------|-------------------|---------------------------|------------------|--|----------------------|
| Project Name:<br>STD |                   | Point of Contact:         |                  | Equipment Part Number:<br>See table 1  |                      |
|                      | Issued by:<br>PH  | Issued date:<br>01/05/15  | Scale:<br>NONE   | Drawing Title:<br>2-brk MBP w/ Interlock Plate (IP), 10kAIC, for LP33-15 & 20kva UPS modules |                      |
|                      | Revised by:<br>PH | Revised date:<br>11/17/15 | Rev. No.:<br>2.0 | Drawing No.:<br><b>1-P3421L02S002P00C</b>  | Sheet No.:<br>1 of 1 |