

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

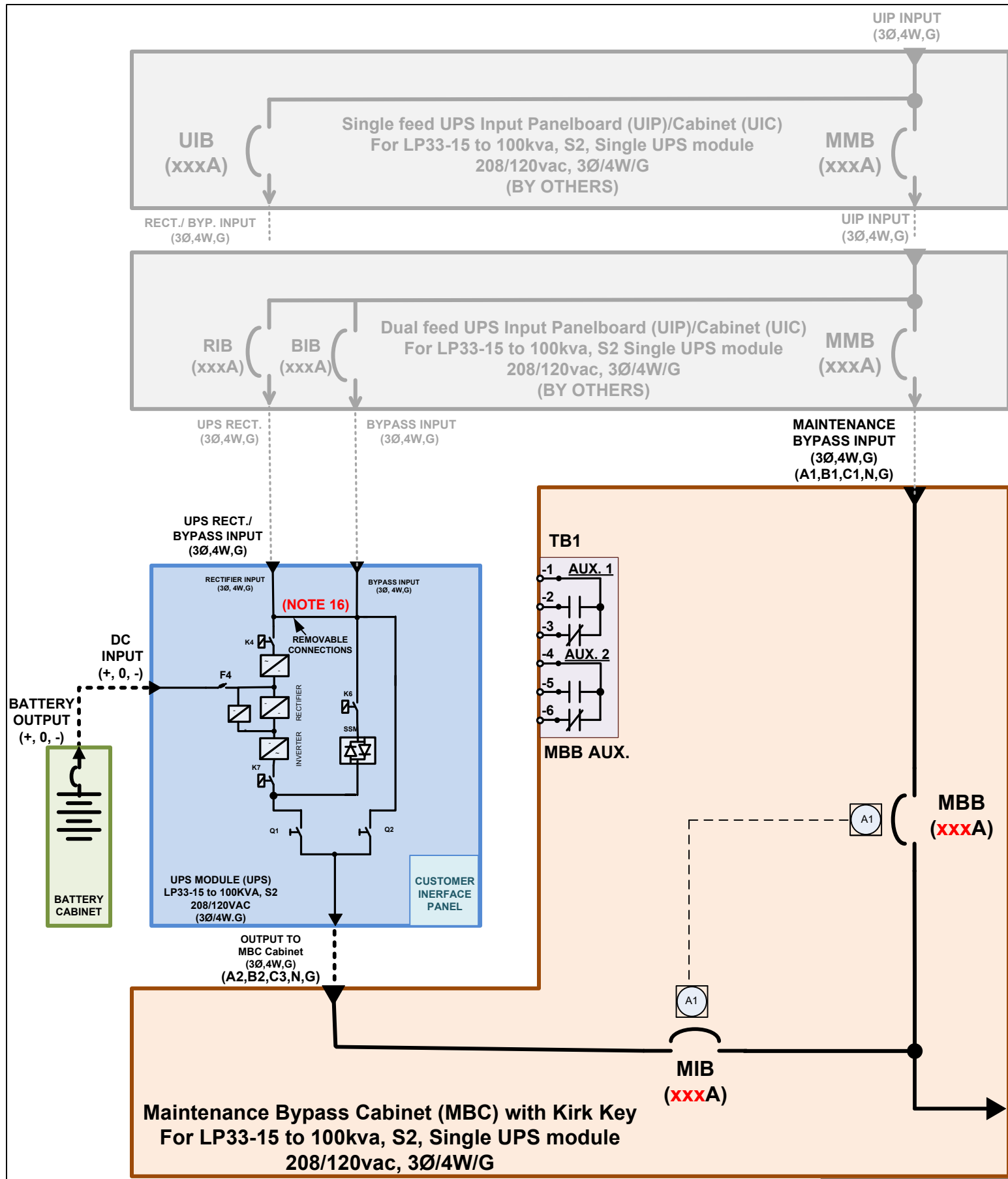
LEGEND. CONTINUED
 A1,B1,&C1: MBP Input from Utility, Phase-A, B, & C
 A2,B2,&C2: MBP Input from UPS output, Phase A,B, & C
 A3,B3,&C3: MBP Output to Critical Load, Phase A, B, & C
 N: Neutral; G: Ground

Notes:
2-brk Maintenance Bypass Cabinet (MBC) with SKRU (Line-up-&-match)
 1. Floor mount **Make-Before-Break** Maintenance Bypass Cabinet (MBC), 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 MBC 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 MBC 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 with dual feed option, see UPS installation manual for details.

UPS (KVA) (Series 2)	MBC PART NUMBER	BREAKER MODEL (EATON-C)	MBB/MIB (Trip)	kAIC@ 240Vac	MBC Dimensions (W x D x H)	UIP/UIC (BY OTHERS)	
						RECOMMENDED	
						UIB/RIB (Trip)	MMB/BIB (Trip)
15	MBC0122060000-K100	EHD3060	60A	18	12.0" x 32.8" x 75.0"	60A	60A
	MBC0122060000-K600	ED3060	60A	65		60A	60A
20	MBC0222070000-K100	EHD3070	70A	18		70A	70A
	MBC0222070000-K600	FD3070	70A	65		70A	70A
30	MBC0322120000-K200	EDB3125	125A	22		125A	125A
	MBC0322120000-K600	ED3125	125A	65		125A	125A
50	MBC0522170000-K200	EDB3175	175A	22		200A	175A
	MBC0522170000-K600	ED3175	175A	65		200A	175A
60	MBC0622220000-K600	JDB3225	225A	65		250A	225A
80	MBC0822300000-K600	KDB3300	300A	65		350A	300A
100	MBC1022350000-K600	KDB3350	350A	65	400A	350A	

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: 07/14/15
	Revised by: PH	Revised date: 11/17/15
	Scale: NONE	Rev. No.: 2.0
	Drawing Title: System 1L for LP33-15 to 100kva, S2, (208vac) & 2-brk, floor mount MBC w/ SKRU	Drawing No.: 1-C3421LxxS002S00C
		Sheet No.: 1 of 1



Notes:

2-bkr Maintenance Bypass Cabinet (MBC) with Kirk Key Interlocked (Line-up-& match)

1. Floor mount **Make-Before-Break** Maintenance Bypass Cabinet (MBC), 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 MBC 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 MBC's door must be followed
16. For UPS module with dual feed option, see UPS installation manual for details

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

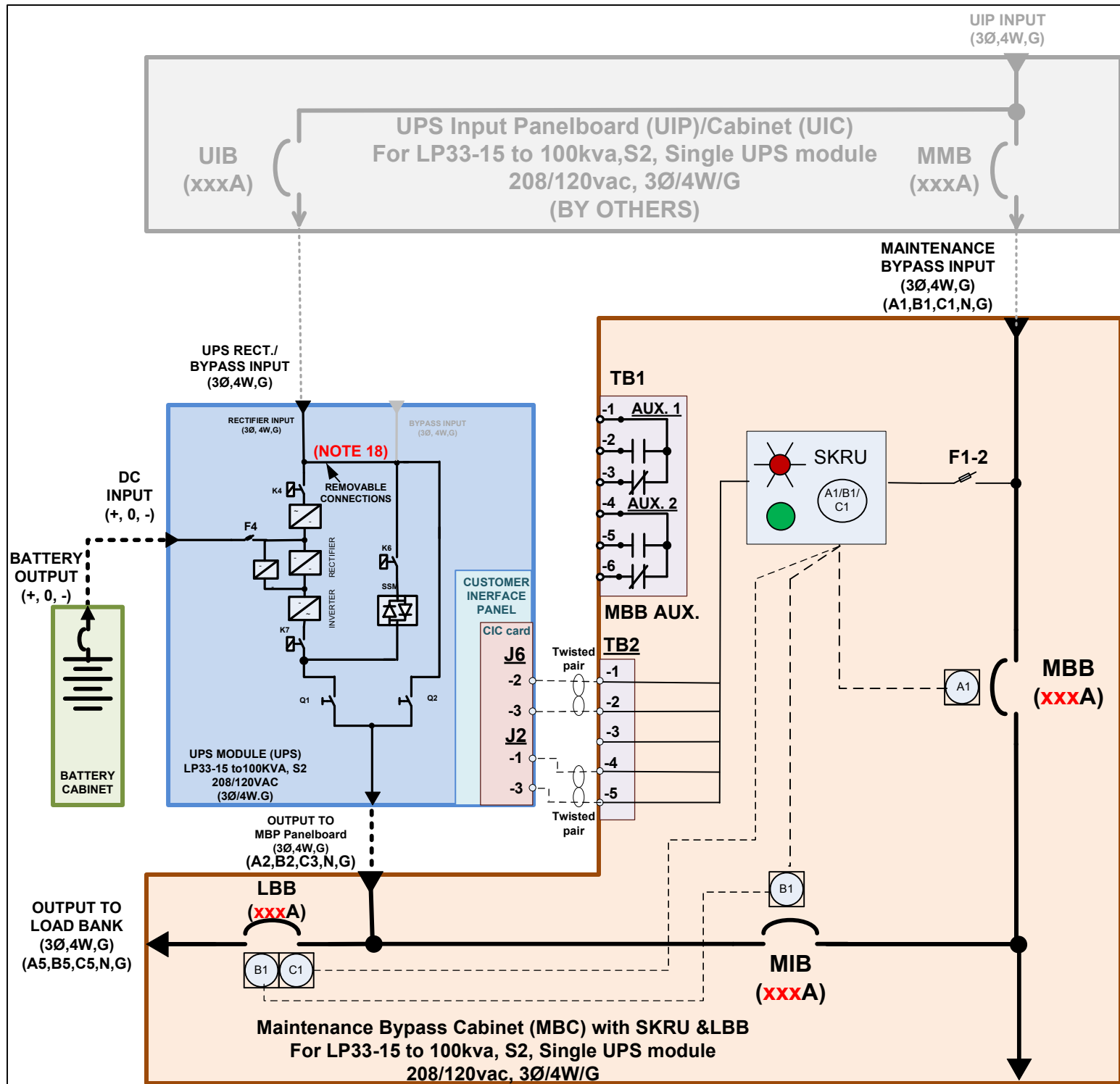
Table 1: 2-brk Maintenance Bypass Cabinet (MBC) with Kirk Key Interlocked- Breaker Schedule

UPS (KVA) (Series 2)	MBC PART NUMBER	BREAKER MODEL (EATON-C)	MBB/MIB (Trip)	kAIC@ 240Vac	MBC Dimensions (W x D x H)	UIP/UIC (BY OTHERS)	
						RECOMMENDED	
						UIB/RIB (Trip)	MMB/BIB (Trip)
15	MBC0122060000-L100	EHD3060	60A	18	12.0" x 32.8" x 75.0"	60A	60A
	MBC0122060000-L600	ED3060	60A	65		60A	60A
20	MBC0222070000-L100	EHD3070	70A	18		70A	70A
	MBC0222070000-L600	FD3070	70A	65		70A	70A
30	MBC0322120000-L200	EDB3125	125A	22		125A	125A
	MBC0322120000-L600	ED3125	125A	65		125A	125A
50	MBC0522170000-L200	EDB3175	175A	22		200A	175A
	MBC0522170000-L600	ED3175	175A	65		200A	175A
60	MBC0622220000-L600	JDB3225	225A	65		250A	225A
80	MBC0822300000-L600	KDB3300	300A	65		350A	300A
100	MBC1022350000C-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: STD		Point of Contact:		Equipment Part Number: See table 1	
Issued by: PH	Issued date: 07/14/15	Scale: NONE	Drawing Title: System 1L for LP33-15 to 100kva, S2, (208vac) & 2-bkr, floor mount MBC w/ Kirk Key		
Revised by: PH	Revised date: 11/17/15	Rev. No.: 2.0	Drawing No.: 1-C3421LxxS002K00C		Sheet No.: 1 of 1



Notes:

2-brk Maintenance Bypass Cabinet (MBC) with SKRU & LBB (Line-up-& match)

1. Floor mount **Make-Before-Break** Maintenance Bypass Cabinet (MBC), with SKRU & LBB 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. 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: SKRU with single Kirk Key on MBB (A1) & MIB (B1) breakers and dual Kirk Key on LBB (B1 & C1) breaker
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 MBC 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 MBC 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 MBC's door must be followed
18. For UPS module with dual feed option, see UPS installation manual for details.

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

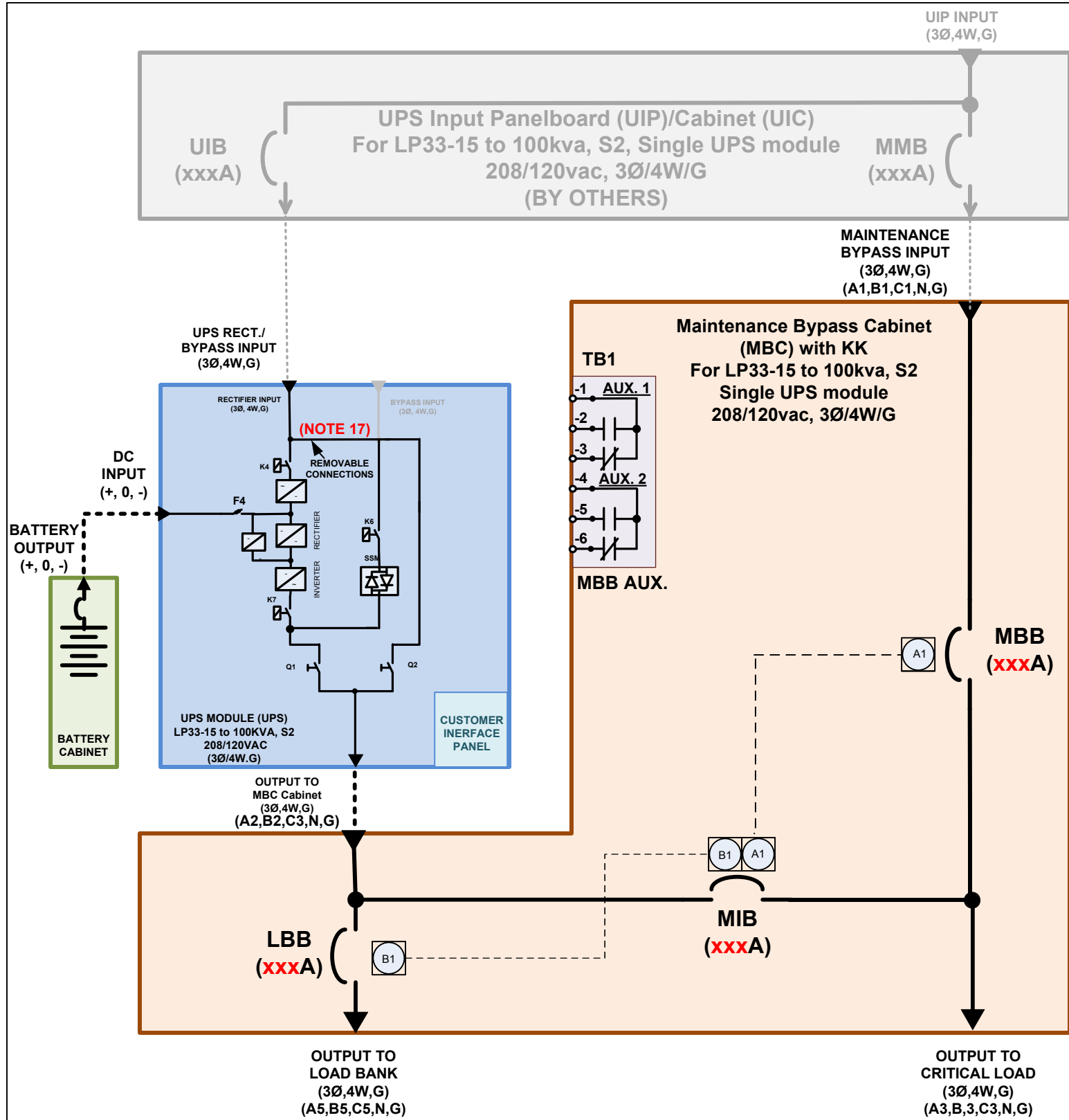
UPS (KVA) (Series 2)	MBC PART NUMBER	BREAKER MODEL (EATON-C)	MBB/MIB/LBB (Trip)	kAIC@ 240Vac	MBC Dimensions (W x D x H)	UIP/UIC (BY OTHERS)	
						RECOMMENDED	
						UIB/RIB (Trip)	MMB/BIB (Trip)
15	MBC01220600L0-K100	EHD3060	60A	18	TBD 12.0" x 32.8" x 75.0"	60A	60A
	MBC01220600L0-K600	ED3060	60A	65		60A	60A
20	MBC02220700L0-K100	EHD3070	70A	18		70A	70A
	MBC02220700L0-K600	FD3070	70A	65		70A	70A
30	MBC03221200L0-K200	EDB3125	125A	22		125A	125A
	MBC03221200L0-K600	ED3125	125A	65		125A	125A
50	MBC05221700L0-K200	EDB3175	175A	22		200A	175A
	MBC05221700L0-K600	ED3175	175A	65		200A	175A
60	MBC06222200L0-K600	JDB3225	225A	65		250A	225A
80	MBC08223000L0-K600	KDB3300	300A	65		350A	300A
100	MBC10223500L0-K600	KDB3350	350A	65	400A	350A	

Terminating point In MBC	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 1.25A	UPS control (UPS transfer is prohibited during testing)	Twisted pair
TB2-5	J2-3 (CIC card)				

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	
GE Critical Power	Issued by: PH	Issued date: 07/14/15	Scale: NONE	Drawing Title: System 1L for LP33-15 to 100kva, S2, (208vac) & 2-brk, FM MBC w/ SKRU & LBB	
	Revised by: PH	Revised date: 11/17/15	Rev. No.: 2.0	Drawing No.: 1-C3421LxxS0L2S00C	Sheet No.: 1 of 1



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:

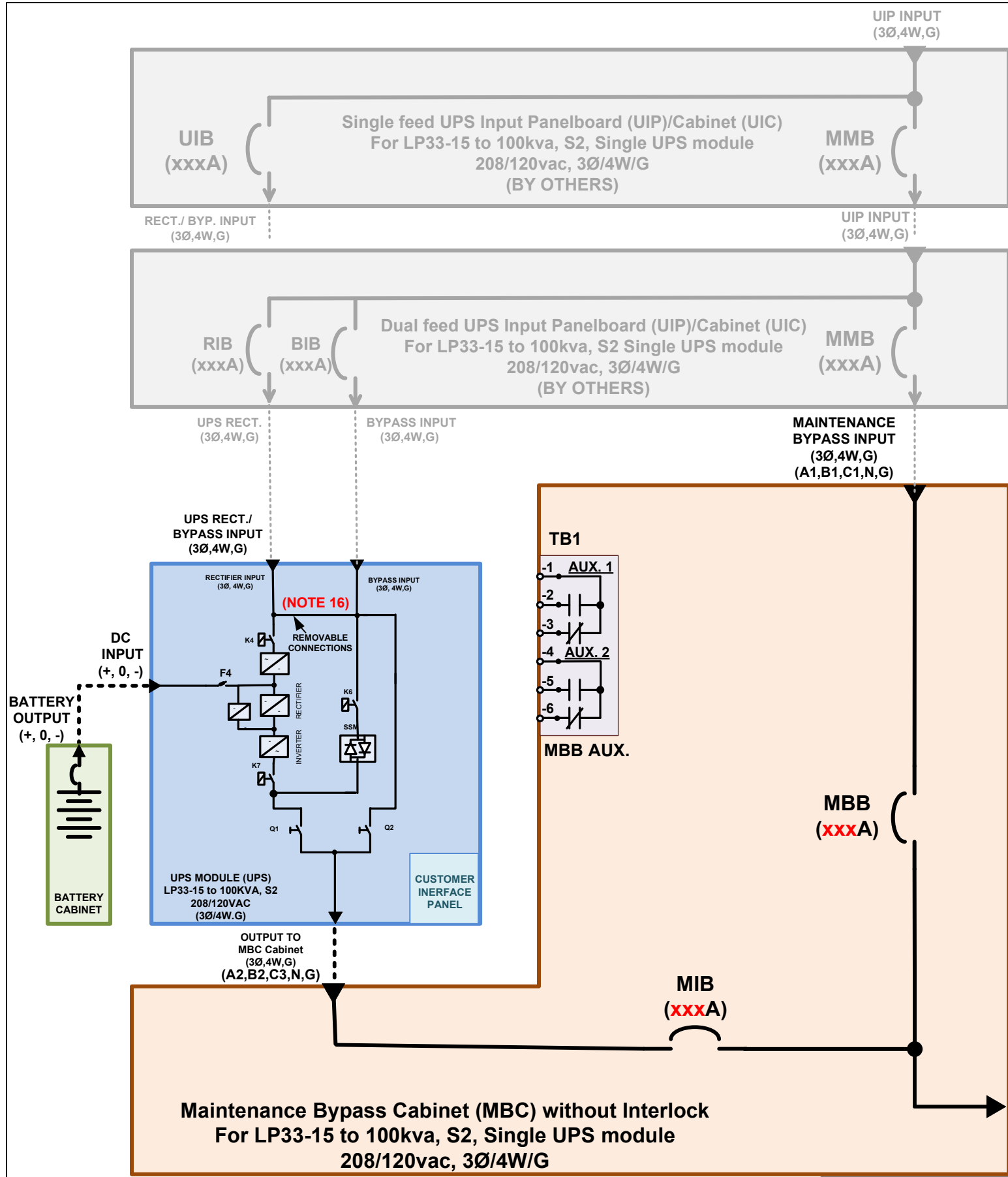
2-bkr Maintenance Bypass Cabinet (MBC) with Kirk Key Interlocked & LBB (Line-up-&-match)

1. Floor mount **Make-Before-Break** Maintenance Bypass Cabinet (MBC), 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: Single Kirk Key Interlocked on MBB (A1) & LBB (B1) breakers and dual Kirk key on MIB (A1 & B1) breaker.
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 MBC 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 MBC's door must be followed
17. For UPS module with dual feed option, see UPS installation manual for details.

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

Table 1: 2-brk Maintenance Bypass Cabinet (MBC) with Kirk Key Interlocked- Breaker Schedule						UIP/UIC (BY OTHERS)	
UPS (KVA) (Series 2)	MBC PART NUMBER	BREAKER MODEL (EATON-C)	MBB/MIB/LBB (Trip)	kAIC@ 240Vac	MBC Dimensions (W x D x H)	RECOMMENDED	
						UIB/RIB (Trip)	MMB/BIB (Trip)
15	MBC01220600L0-L100	EHD3060	60A	18	TBD	60A	60A
	MBC01220600L0-L600	ED3060	60A	65		60A	60A
20	MBC02220700L0-L100	EHD3070	70A	18		70A	70A
	MBC02220700L0-L600	FD3070	70A	65		70A	70A
30	MBC03221200L0-L200	EDB3125	125A	22		125A	125A
	MBC03221200L0-L600	ED3125	125A	65		125A	125A
50	MBC05221700L0-L200	EDB3175	175A	22		200A	175A
	MBC05221700L0-L600	ED3175	175A	65		200A	175A
60	MBC06222200L0-L600	JDB3225	225A	65		250A	225A
80	MBC08223000L0-L600	KDB3300	300A	65		350A	300A
100	MBC10223500L0-L600	KDB3350	350A	65		400A	350A

Project Name: STD		Point of Contact:		Equipment Part Number: See table 1	
GE Critical Power	Issued by: PH	Issued date: 07/14/15	Scale: NONE	Drawing Title: System 1L for LP33-15 to 100kva, S2, (208vac) & 2-bkr, floor mount MBC w/ KK & LBB	
	Revised by: PH	Revised date: 11/17/15	Rev. No.: 2.0	Drawing No.: 1-C3421LxxS0L2K00C	Sheet No.: 1 of 1



Notes:

1. Floor mount **Make-Before-Break** Maintenance Bypass Cabinet (MBC), without interlock, 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: None
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 MBC 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 MBC's door must be followed
16. For UPS module with dual feed option, see UPS installation manual for details

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

Table 1: 2-brk Maintenance Bypass Cabinet (MBC) without Interlock- Breaker Schedule

UPS (KVA) (Series 2)	MBC PART NUMBER	BREAKER MODEL (EATON-C)	MBB/MIB (Trip)	kAIC@ 240Vac	MBC Dimensions (W x D x H)	UIP/UIC (BY OTHERS)	
						RECOMMENDED	
						UIB/RIB (Trip)	MMB/BIB (Trip)
15	MBC0122060000-0100	EHD3060	60A	18	12.0" x 32.8" x 75.0"	60A	60A
	MBC0122060000-0600	ED3060	60A	65		60A	60A
20	MBC0222070000-0100	EHD3070	70A	18		70A	70A
	MBC0222070000-0600	FD3070	70A	65		70A	70A
30	MBC0322120000-0200	EDB3125	125A	22		125A	125A
	MBC0322120000-0600	ED3125	125A	65		125A	125A
50	MBC0522170000-0200	EDB3175	175A	22		200A	175A
	MBC0522170000-0600	ED3175	175A	65		200A	175A
60	MBC0622220000-0600	JDB3225	225A	65		250A	225A
80	MBC0822300000-0600	KDB3300	300A	65		350A	300A
100	MBC1022350000-0600	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: STD
Point of Contact:
Equipment Part Number: See table 1
Issued by: PH
Issued date: 07/14/15
Scale: NONE
Revised by: PH
Revised date: 11/17/15
Rev. No.: 2.0
Drawing Title: System 1L for LP33-15 to 100kva, S2, (208vac) & 2-brk, floor mount MBC w/o Interlock
Drawing No.: **1-C3421LxxS002000C**
Sheet No.: 1 of 1

GE Critical Power