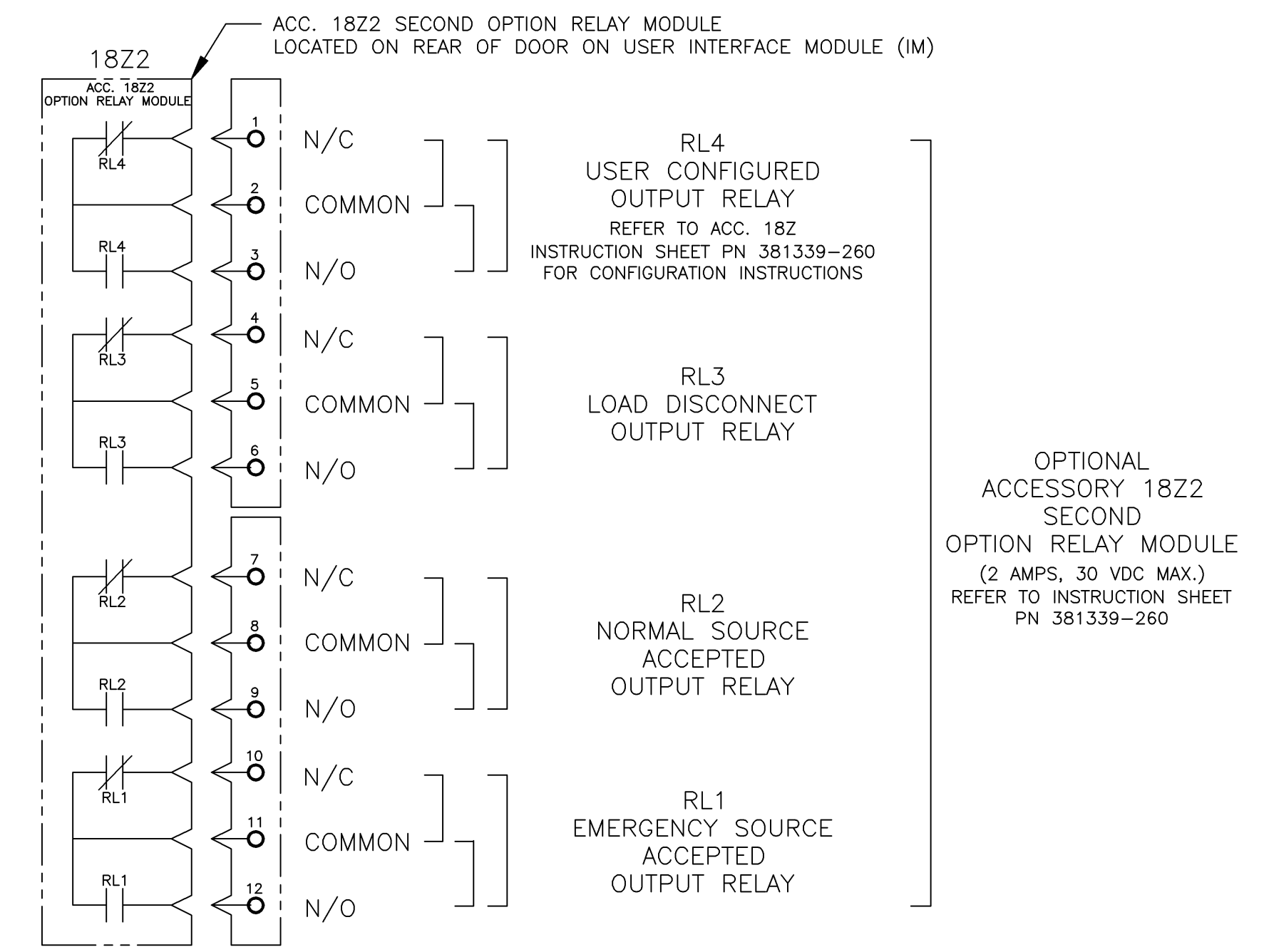
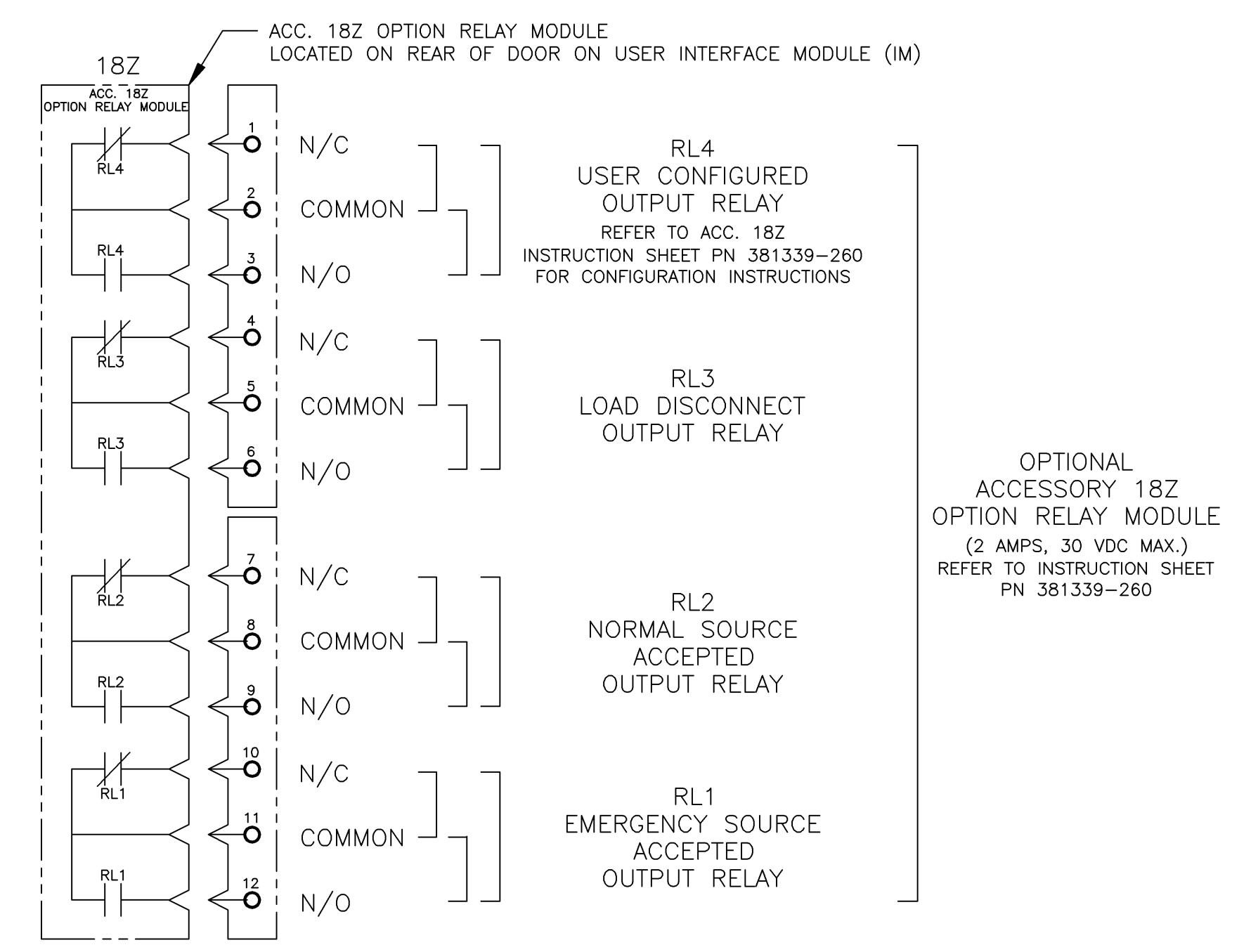
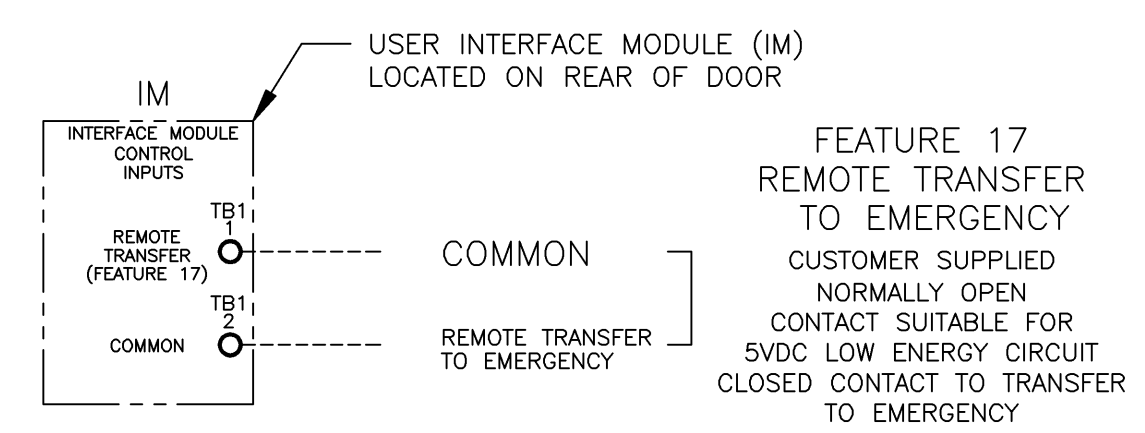
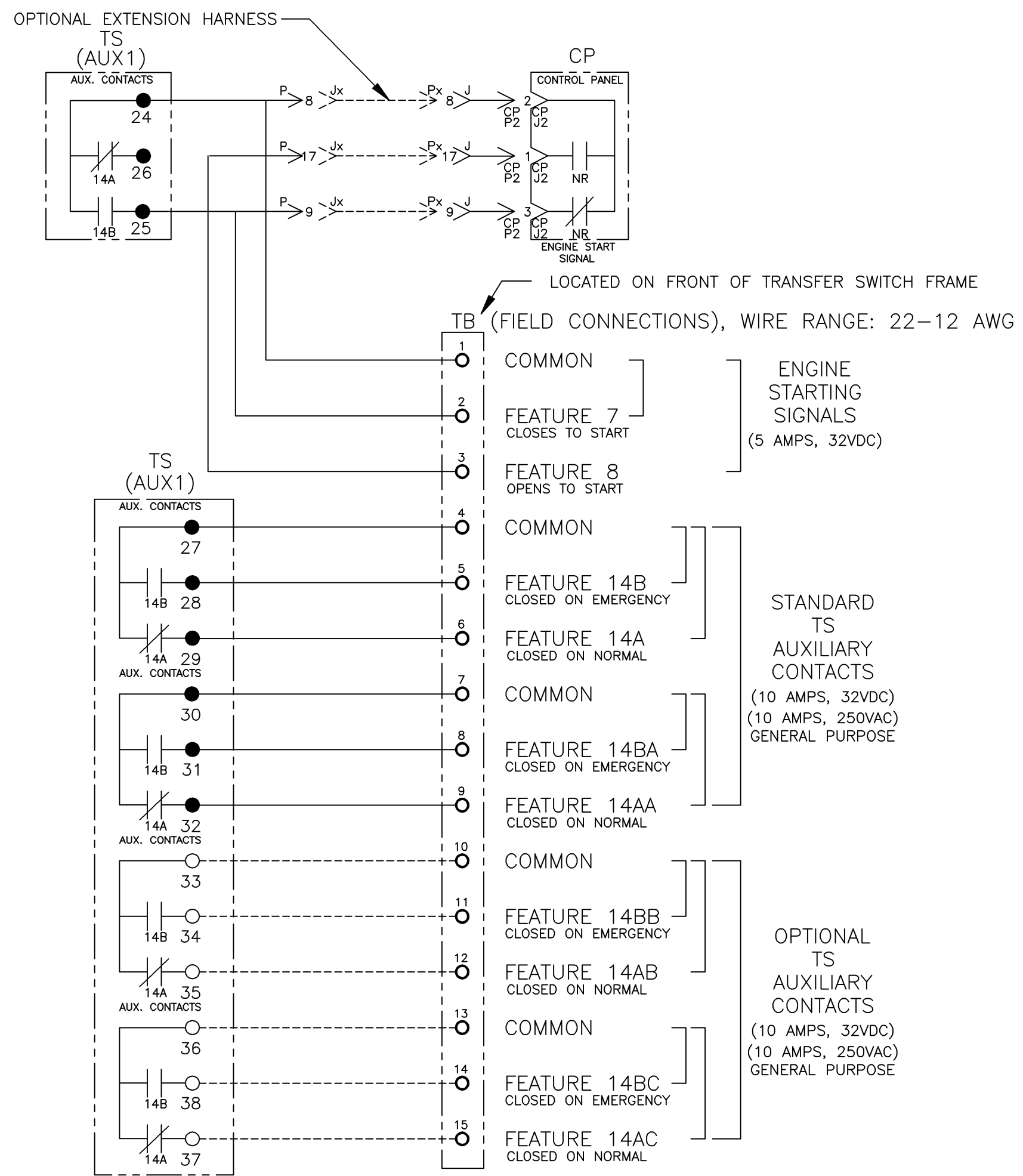




# FIELD CONNECTIONS

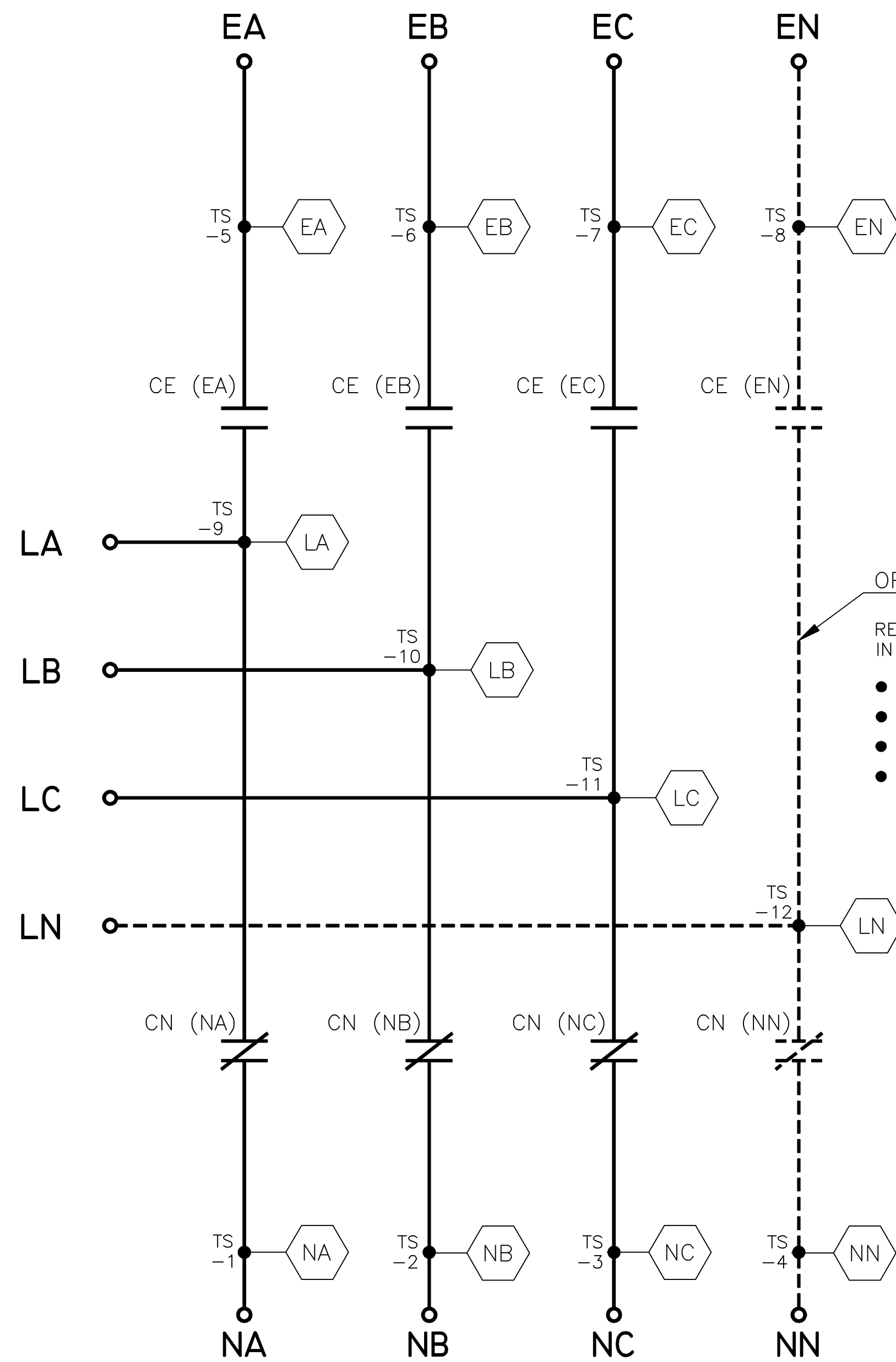


B	206774	BK	JPB	11/29/05
SEE ECN				
A	205151	JPB	JPB	7/13/05
SEE ECN				
-	204825	BWM	SDH	6/05
ISSUE				

PROJECT NAME:		CHANGE LETTER		ECN NO.	BY	APP.	DATE
WIRING DIAGRAM		THIRD ANGLE PROJECTION		SUBSIDIARY DISTRIBUTION			
4000 SERIES (G4ATS/G4NTS) GROUP 5 CONTROLS		ASSEMBLY REF. NO.		AE	AN	AM	AL
DRAWN BY: BWM		DATE: 6/05		CH	AV	AA	PS
CHECKED: SDH		DATE: 6/05		AG	AP	AC	AS
DRAFTING APPROVAL:		MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-1-003. FOR PLASTIC PARTS SEE MP-1-005.		COMPUTER GENERATED DRAWING			
FINAL APPROVAL:		PROPERTY OF ASCO POWER TECHNOLOGIES. USE PERMITTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.		SCALE	1:1	ACAD	FILE
ASCO POWER TECHNOLOGIES, L.P.		FLORHAM PARK, NEW JERSEY 07932 U.S.A.		SIZE	DWG. NO.		DS766498
CHANGE LETTER		ECN NO. 206774		SHEET NO. 2		OF 6	

EMERGENCY

NORMAL

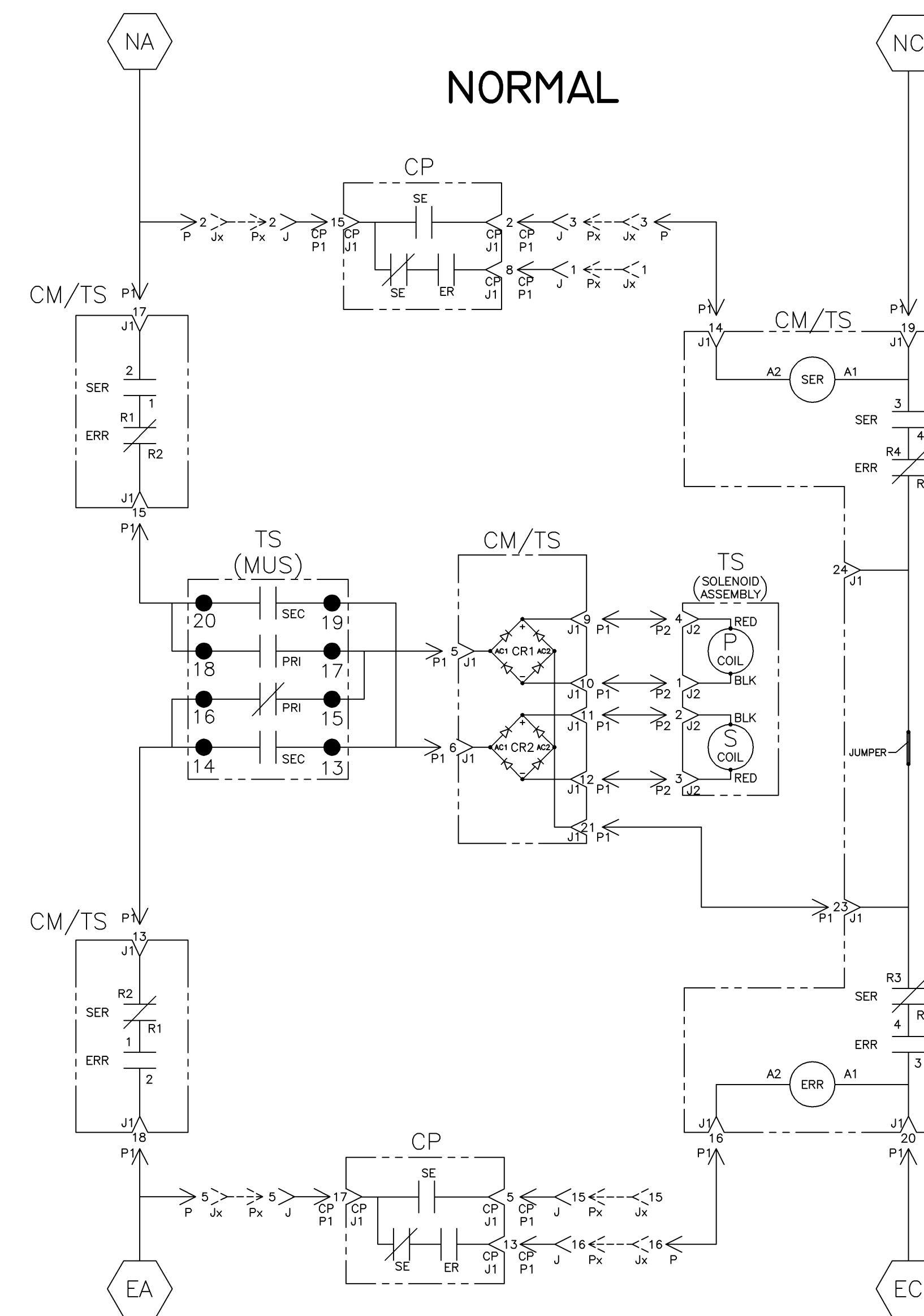


OPTIONAL NEUTRAL TYPES  
 REFER TO "EXPLANATION OF CATALOG NUMBER CODES"  
 IN CATALOG NUMBER CHART ON SHEET 1.

- NONE
- SWITCHING
- OVERLAPPING CONTACTS
- SOLID BUS PLATE

NORMAL

NOTE:  
 ATS/NTS SHOWN CLOSED ON NORMAL SOURCE.



EMERGENCY

TS (MUS) CONTACTS		SOLENOID POSITION				
MUS		NORM	>	AFTER TDC	<	EMER
13-14						
15-16						
17-18						
19-20						

\* AFTER SOLENOID PASSES THROUGH TOP DEAD CENTER POSITION.

PROJECT NAME: WIRING DIAGRAM  
 4000 SERIES (G4ATS/G4NTS)  
 GROUP 5 CONTROLS

BY: BWM	DATE: 6/05	ASSEMBLY REF. NO.	SCALE: 1:1
CHECKED: SDH	DATE: 6/05	ASSEMBLY REF. NO.	FILE: ACAD
DRAWING APPROVAL: SDH	DATE: 6/05	ASSEMBLY REF. NO.	SIZE: DSWG. NO.
FINAL APPROVAL: SDH	DATE: 6/05	ASSEMBLY REF. NO.	SIZE: DSWG. NO.

ASCO POWER TECHNOLOGIES, L.P.  
 FLORHAM PARK, NEW JERSEY 07932 U.S.A.

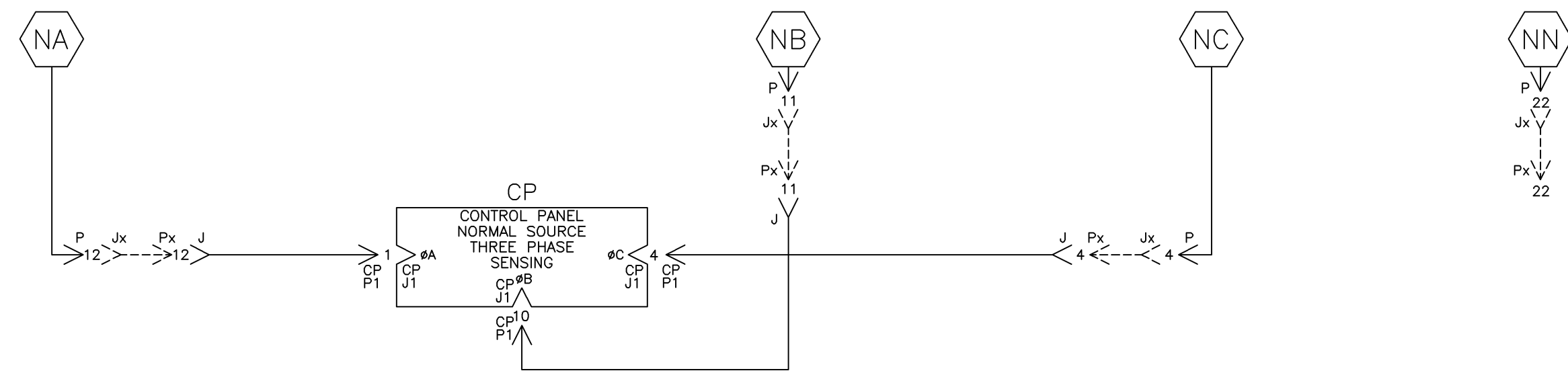
CHANGE LETTER: B	ECN NO.: 206774	BY: BWM	APP: JPB	DATE: 11/29/05
CHANGE LETTER: A	ECN NO.: 205151	BY: JPB	APP: JPB	DATE: 7/13/05
CHANGE LETTER: -	ECN NO.: 204825	BY: BWM	APP: SDH	DATE: 6/05

COMPUTER GENERATED DRAWING  
 DS766498  
 SHEET 3 OF 6

EMERGENCY SOURCE CIRCUITS

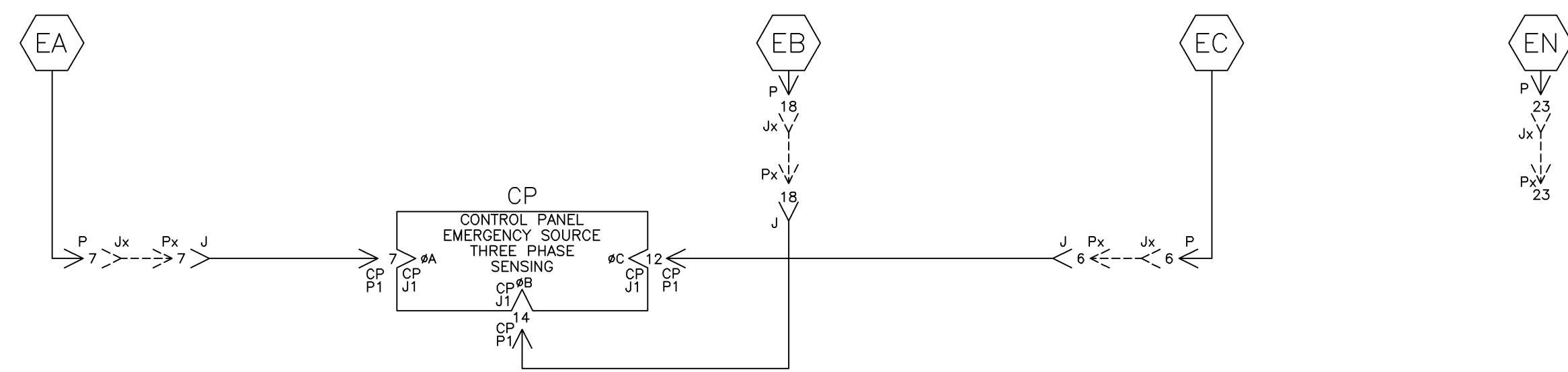
ADDITIONAL CIRCUITS

NORMAL



EMERGENCY SOURCE CIRCUITS

EMERGENCY

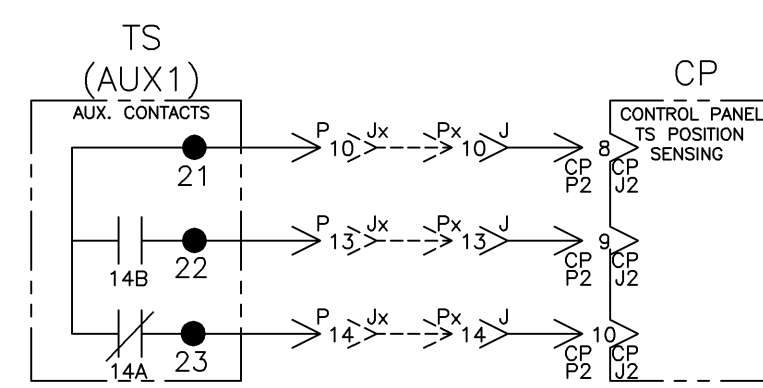


LOAD TERMINAL CIRCUITS

LOAD



CONTROL SIGNALS & INDICATION



PROJECT NAME:		WIRING DIAGRAM		THIRD ANGLE PROJECTION	
4000 SERIES (G4ATS/G4NTS)		GROUP 5 CONTROLS		COMPUTER GENERATED DRAWING	
BY	DATE	MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-I-003. FOR PLASTIC PARTS SEE MP-I-055.		ASSEM. REF. NO.	
DRAWN BY	BWM	6/05			
CHECKED			PROPERTY OF ASCO POWER TECHNOLOGIES. USE PERMITTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.		
DRAFTING					
APPROVAL					
FINAL APPROVAL	SDH	6/05	ASCO POWER TECHNOLOGIES, L.P. FLORHAM PARK, NEW JERSEY 07932 U.S.A.		
CHANGE LETTER	B	ECN NO.	206774	BY	JPB
		DATE	11/29/05	APP.	
SUBSIDIARY DISTRIBUTION		SCALE 1:1		ACAD FILE	
AE	AN	AM	AJ	AL	
CH	AV	AA	PS	AR	
AG	AP	AC	AS		
SIZE		DWG. NO.		SHEET	
DS 766498		4 OF 6		4 OF 6	

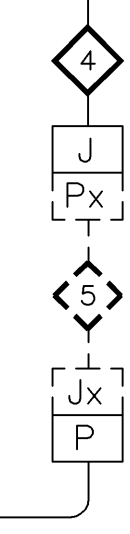
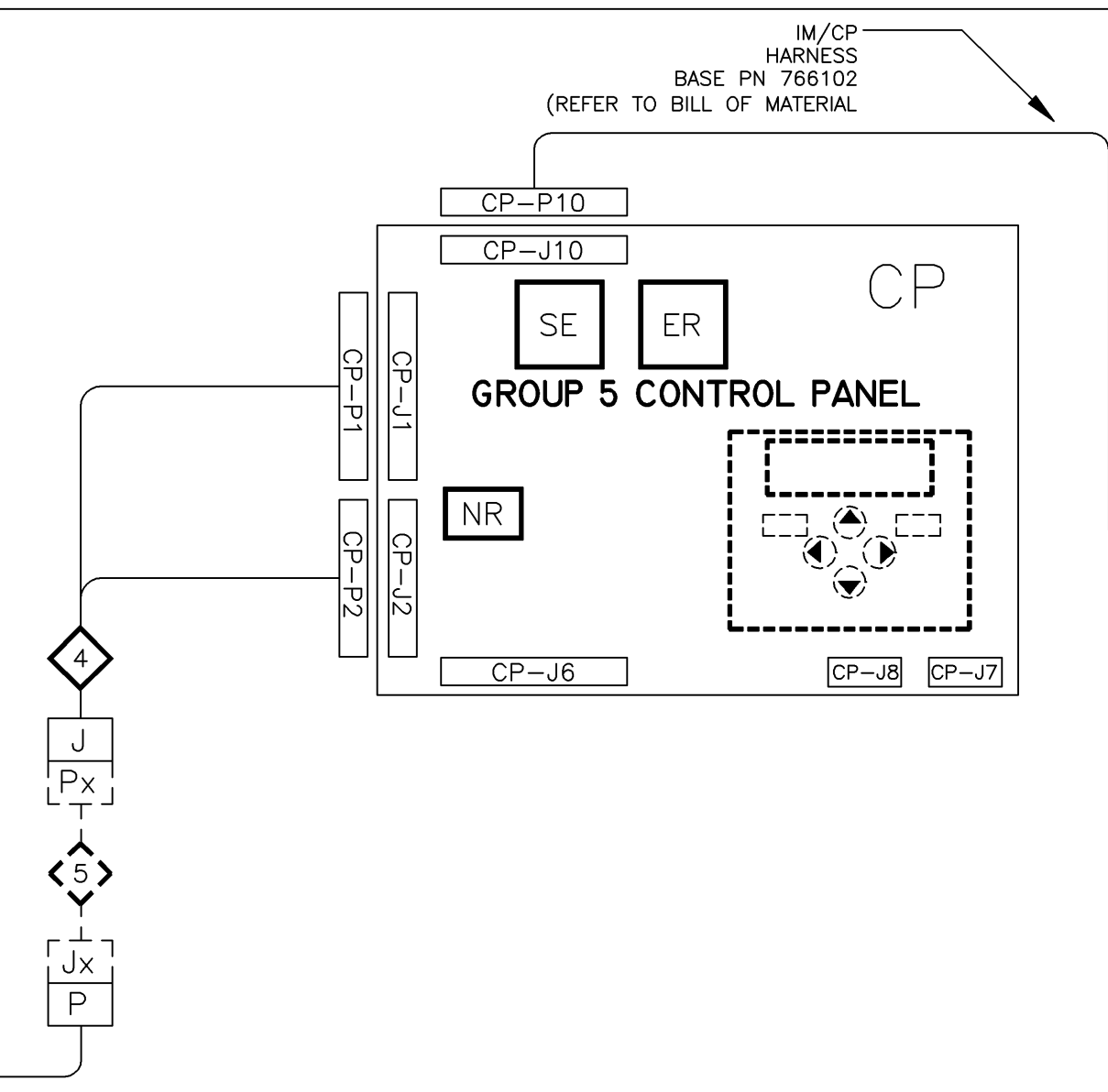
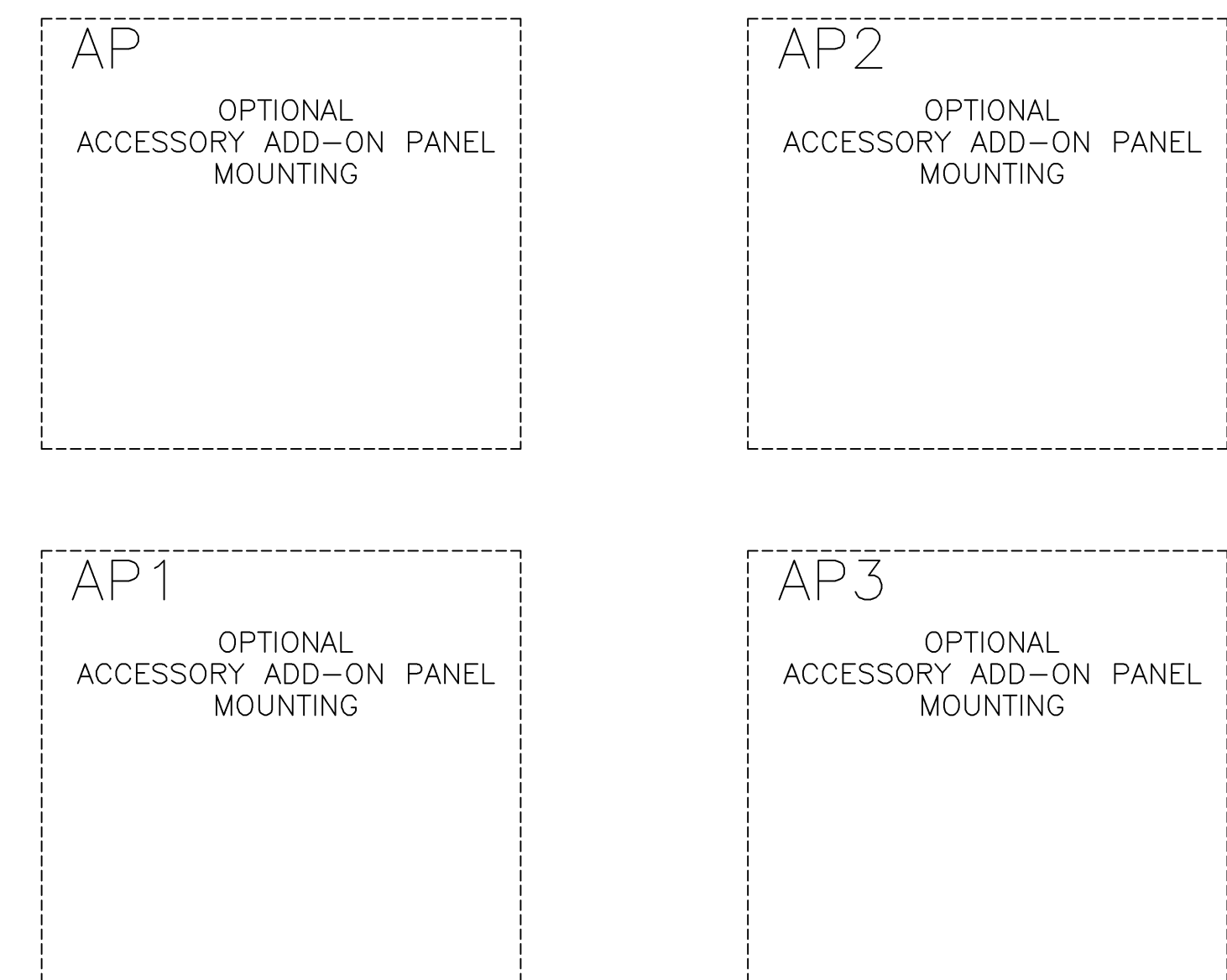
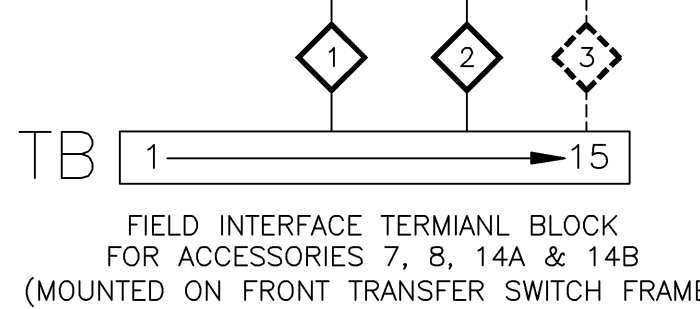
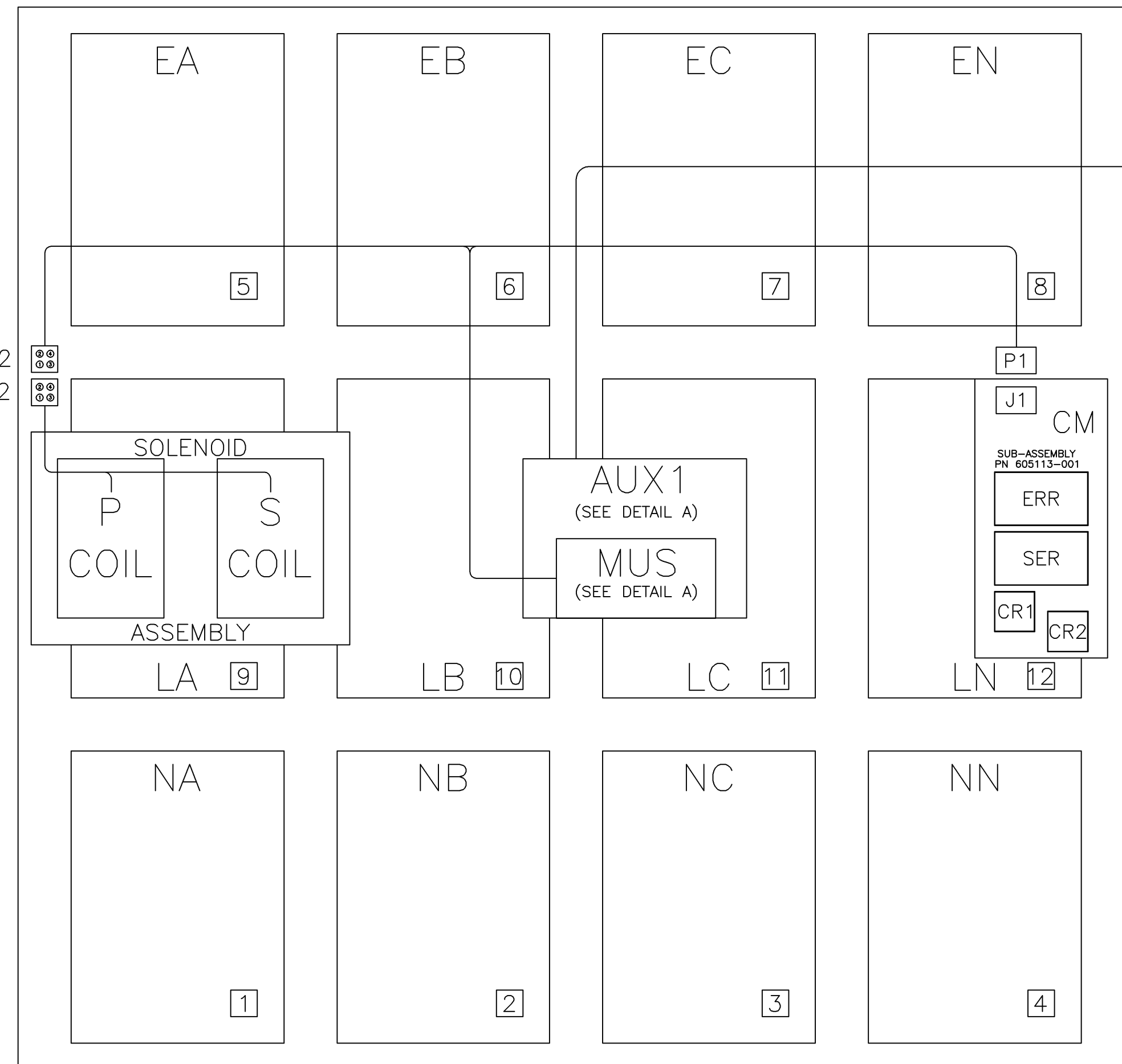
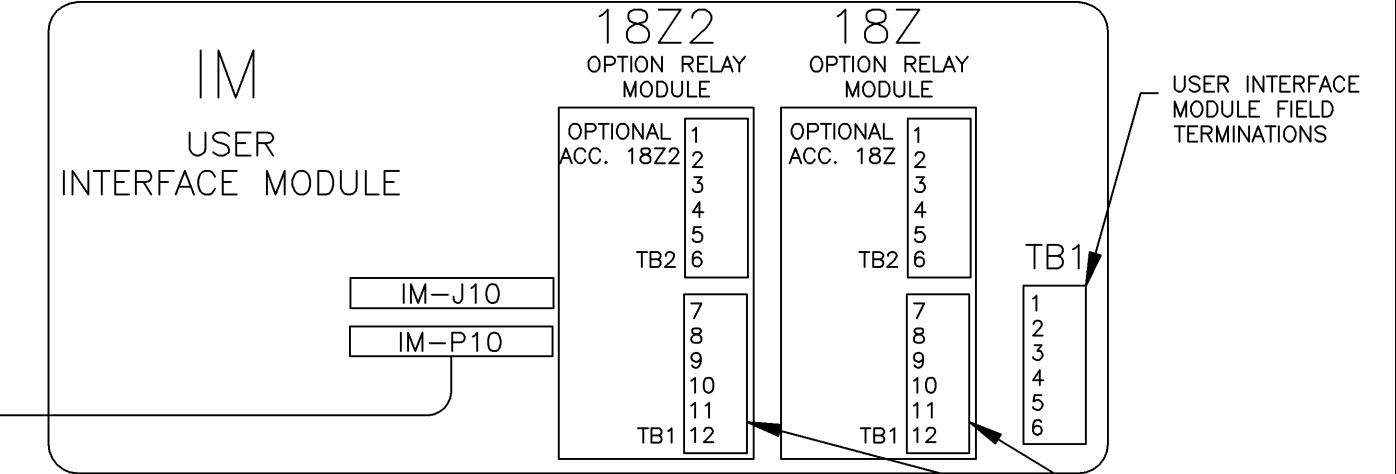
PHYSICAL DIAGRAM

ENCLOSURE

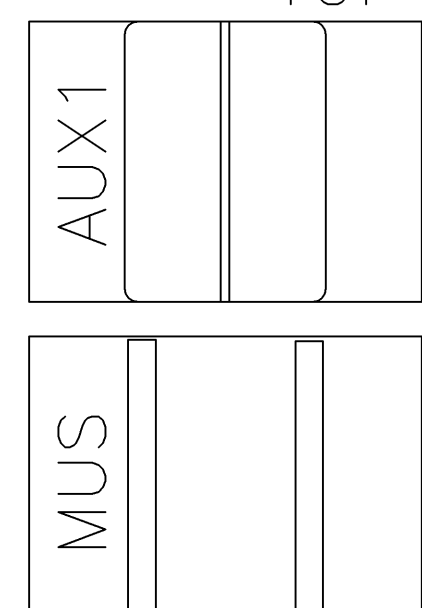
DOOR, INSIDE

TS (TRANSFER SWITCH)

GROUP 5 CONTROL PANEL



DETAIL A  
MUS & AUX1  
TOP VIEW



B	206774	BK	JPB	11/29/05
SEE ECN				
A	205151	JPB	JPB	7/13/05
SEE ECN				
-	204825	BWM	SDH	6/05
ISSUE				

PROJECT NAME:		WIRING DIAGRAM		THIRD ANGLE PROJECTION	
4000 SERIES (G4ATS/G4NTS) GROUP 5 CONTROLS		ASCO POWER TECHNOLOGIES, L.P.		COMPUTER GENERATED DRAWING	
BY	DATE	MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-I-003. FOR PLASTIC PARTS SEE MP-I-005		ASSEM. REF. NO.	
BWM	6/05				
CHECKED		PROPERTY OF ASCO POWER TECHNOLOGIES. USE PERMITTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.		SCALE 1:1 ACAD FILE	
DRAFTING APPROVAL				SIZE DWG. NO. DS766498	
FINAL APPROVAL	SDH 6/05	ASCO POWER TECHNOLOGIES, L.P. FLORHAM PARK, NEW JERSEY 07932 U.S.A.		CHANGE LETTER ECN NO. 206774 SHEET 5 OF 6	

WIRE RUN LISTING

HARNESS LOCATOR		BOX CHECKED IF HARNESS IS MODIFIED	
WIRE No.	HARNESS 605454 (P,P1,P2,J3) MAIN TS	CLR	AWG
1	P-2,TS-1		16
2	P-3,P1-14		
3	P-4,TS-3		
4	P-5,TS-5		
5	P-6,TS-7		
6	P-7,TS-5		
6	P-8,TS(AUX1)-24		
6	TS(AUX1)-24,J3-1		
7	P-9,TS(AUX1)-25		
7	TS(AUX1)-25,J3-2		
8	P-10,TS(AUX1)-21		
9	P-11,TS-2		
10	P-12,TS-1		
11	P-13,TS(AUX1)-22		
12	P-14,TS(AUX1)-23		
13	P-16,P1-16		
14	P-17,J3-3		
15	P-18,TS-6		
16	P-19,TS-9		
17	P-20,TS-10		
18	P-21,TS-11		
19	P-22,TS-4		
20	P-23,TS-8		
21	P-24,TS-12		
22	P1-5,TS(MUS)-17		
22	TS(MUS)-17,TS(MUS)-15		
23	P1-6,TS(MUS)-19		
23	TS(MUS)-19,TS(MUS)-13		
24	P1-9,P2-4		
25	P1-10,P2-1		
26	P1-11,P2-2		
27	P1-12,P2-3		
28	P1-13,TS(MUS)-16		
28	TS(MUS)-16,TS(MUS)-14		
29	P1-15,TS(MUS)-20		
29	TS(MUS)-20,TS(MUS)-18		
1	P1-17,TS-1		
4	P1-18,TS-5		
3	P1-19,TS-3		
5	P1-20,TS-7		
30	P1-21,P1-23		
REMOVE WIRES			
6	TS(AUX1)-24,J3-1		
7	TS(AUX1)-25,J3-2		
14	P-17,J3-3		
ADD WIRES			
6	TS(AUX1)-24,TB-1		
7	TS(AUX1)-25,TB-2		
200	P-1		
14	P-17,TB-3		
222	P-15		
201	P1-1		
202	P1-2		
203	P1-3		
204	P1-4		
205	P1-7		
206	P1-8		
207	P1-16		
208	P1-22		
209	P1-24		

HARNESS LOCATOR		BOX CHECKED IF HARNESS IS MODIFIED	
WIRE No.	TS STD. AUX. CONTACTS	CLR	AWG
40	TB-4,TS(AUX1)-27		16
41	TB-5,TS(AUX1)-28		
42	TB-6,TS(AUX1)-29		
43	TB-7,TS(AUX1)-30		
44	TB-8,TS(AUX1)-31		
45	TB-9,TS(AUX1)-32		

HARNESS LOCATOR		BOX CHECKED IF HARNESS IS MODIFIED	
WIRE No.	OPTIONAL AUX. CONTACTS	CLR	AWG
46	TB-10,TS(AUX1)-33		16
47	TB-11,TS(AUX1)-34		
48	TB-12,TS(AUX1)-35		
49	TB-13,TS(AUX1)-36		
50	TB-14,TS(AUX1)-38		
51	TB-15,TS(AUX1)-37		

HARNESS LOCATOR		BOX CHECKED IF HARNESS IS MODIFIED	
WIRE No.	HARNESS 483763 (J,CP-P1,CP-P2) CONTROL PANEL	CLR	AWG
350	J-1,CP-P1-8		18
1	J-2,CP-P1-15		
2	J-3,CP-P1-2		
3	J-4,CP-P1-4		
4	J-5,CP-P1-17		
5	J-6,CP-P1-12		
4	J-7,CP-P1-7		
6	J-8,CP-P2-2		
7	J-9,CP-P2-3		
8	J-10,CP-P2-8		
9	J-11,CP-P1-10		
10	J-12,CP-P1-1		
11	J-13,CP-P2-9		
12	J-14,CP-P2-10		
200	J-15,CP-P1-5		
13	J-16,CP-P1-13		
14	J-17,CP-P2-1		
15	J-18,CP-P1-14		
ADD WIRES			
16	J-19		
17	J-20		
18	J-21		
19	J-22		
20	J-23		
21	J-24		

HARNESS LOCATOR		BOX CHECKED IF HARNESS IS MODIFIED	
WIRE No.	HARNESS 309320-005 OPTIONAL 8 IN. EXTENSION HARNESS	CLR	AWG
350	Jx-1,Px-1		16
1	Jx-2,Px-2		
2	Jx-3,Px-3		
3	Jx-4,Px-4		
4	Jx-5,Px-5		
5	Jx-6,Px-6		
4	Jx-7,Px-7		
6	Jx-8,Px-8		
7	Jx-9,Px-9		
8	Jx-10,Px-10		
9	Jx-11,Px-11		
10	Jx-12,Px-12		
11	Jx-13,Px-13		
12	Jx-14,Px-14		
200	Jx-15,Px-15		
13	Jx-16,Px-16		
14	Jx-17,Px-17		
15	Jx-18,Px-18		
16	Jx-19,Px-19		
17	Jx-20,Px-20		
18	Jx-21,Px-21		
19	Jx-22,Px-22		
20	Jx-23,Px-23		
21	Jx-24,Px-24		

WIRE No.	ADDITIONAL WIRING	CLR	AWG
			16

B	206774	BK	JPB	11/29/05
SEE ECN				
A	205151	JPB	JPB	7/13/05
SEE ECN				
-	204825	BWM	SDH	6/05
ISSUE				

PROJECT NAME:		WIRING DIAGRAM		THIRD ANGLE PROJECTION	
4000 SERIES (G4ATS/G4NTS) GROUP 5 CONTROLS		MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-1-003. FOR PLASTIC PARTS SEE MP-1-005.		ASSEM. REF. NO.	
PROPERTY OF ASCO POWER TECHNOLOGIES. USE PERMITTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.		SCALE 1:1		ACAD FILE	
DRAWN BY BWM 6/05		CHECKED SDH 6/05		SIZE DWG. NO. DS766498	
DRAWING APPROVAL		FINAL APPROVAL		COMPUTER GENERATED DRAWING	
ASCO		ASCO POWER TECHNOLOGIES, L.P. FLORHAM PARK, NEW JERSEY 07932 U.S.A.		CHANGE LETTER ECN NO. 206774 SHEET 6 OF 6	