

DE

D

C

B

A

D

C

B

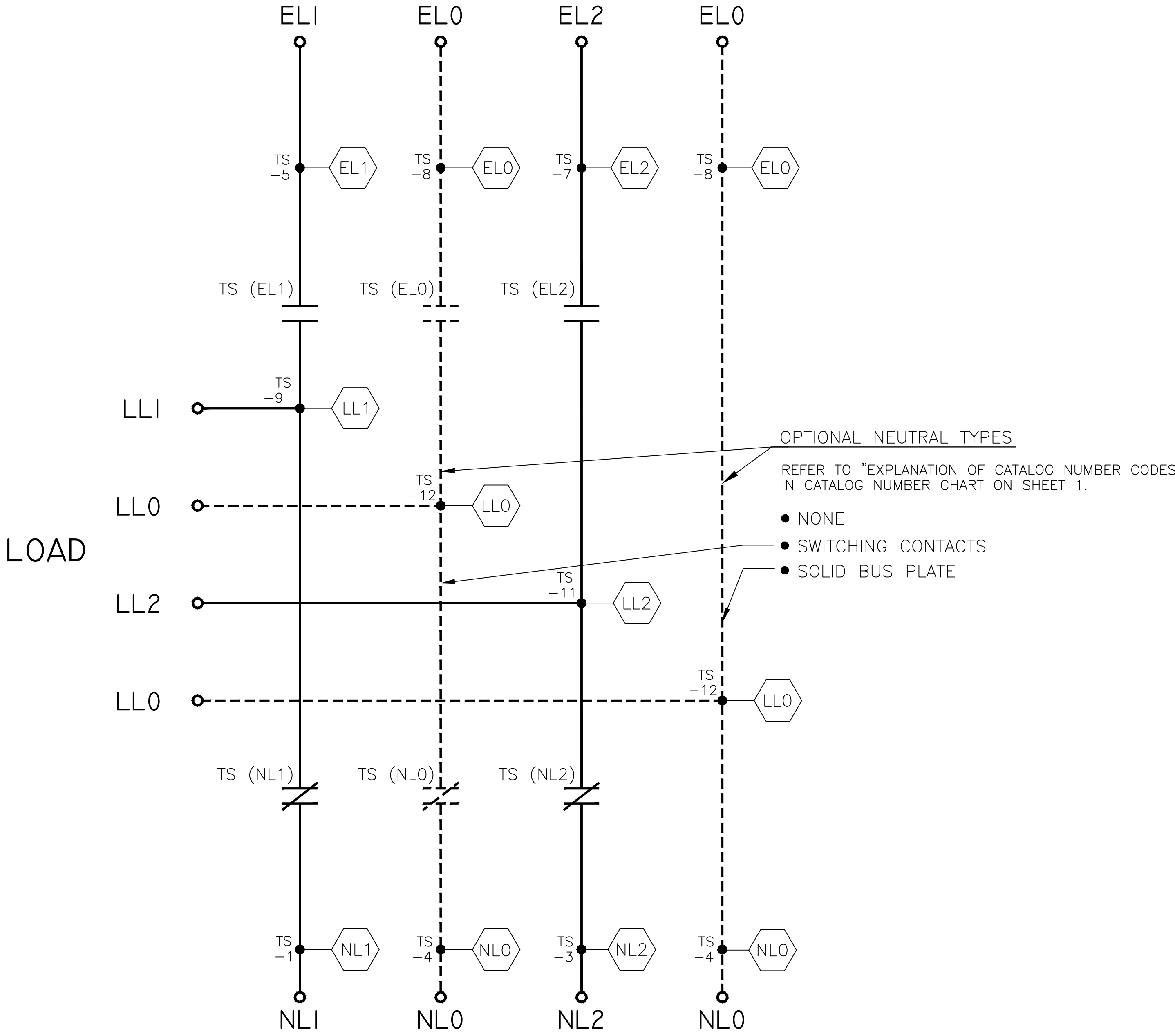
A

MAIN POWER POLES

TS OPERATOR CIRCUIT

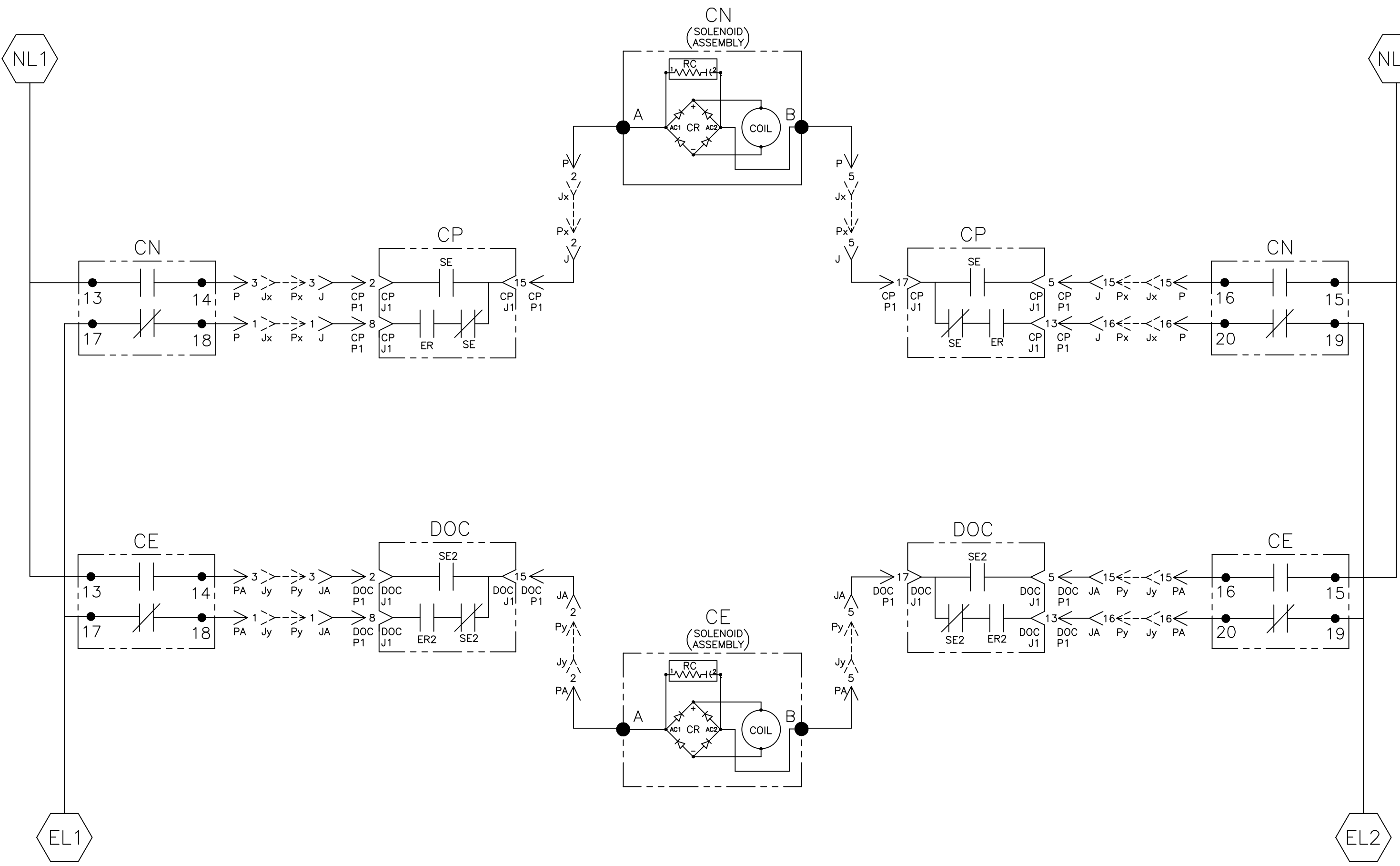
EMERGENCY

NORMAL



OPTIONAL NEUTRAL TYPES
REFER TO "EXPLANATION OF CATALOG NUMBER CODES"
IN CATALOG NUMBER CHART ON SHEET 1.
• NONE
• SWITCHING CONTACTS
• SOLID BUS PLATE

NOTE:
ATS SHOWN CLOSED ON NORMAL SOURCE.



EMERGENCY

CN CONTROL CONTACTS					CE CONTROL CONTACTS				
SOLENOID POSITION					SOLENOID POSITION				
CN	CLOSED BEFORE NORMAL	BEFORE TDC	>	<	BEFORE TDC	OPEN	CE	OPEN	BEFORE TDC
13-14							13-14		
15-16							15-16		
17-18							17-18		
19-20							19-20		

TDC (TOP DEAD CENTER)
TRANSFER SWITCH TEST & ADJUSTMENT PROCEDURE
SPECIFIES CONTROL CUT-OFF (CONTACT OPENING)
SETTING.

PROJECT NAME:
WIRING
4000 SERIES (J4ACTS/J4NCTS)
GROUP 5 CONTROLS

REV. TO SHEET
ECN NO.
BY
APP.
DATE

THIRD ANGLE
PROJECTION

238548 WK BK 08/27/12
SEE ECN
205825 JPB JPB 9/8/05
SEE ECN
205768 JPB JPB 8/31/05
SEE ECN
205265 JPB JPB 7/26/05
ISSUE

MANUFACTURING TOLERANCES TO BE IN
ACCORDANCE WITH ASCO PROCEDURE MP-1-003.
FOR PLASTIC PARTS SEE MP-1-005

ASSEM. REF. NO.

SCALE NONE SIZE DS

DWG. NO.
781127

ASCOPower Technologies, L.P.
FLORHAM PARK, NEW JERSEY 07932 U.S.A.

3 OF 6

D

C

B

A

D

C

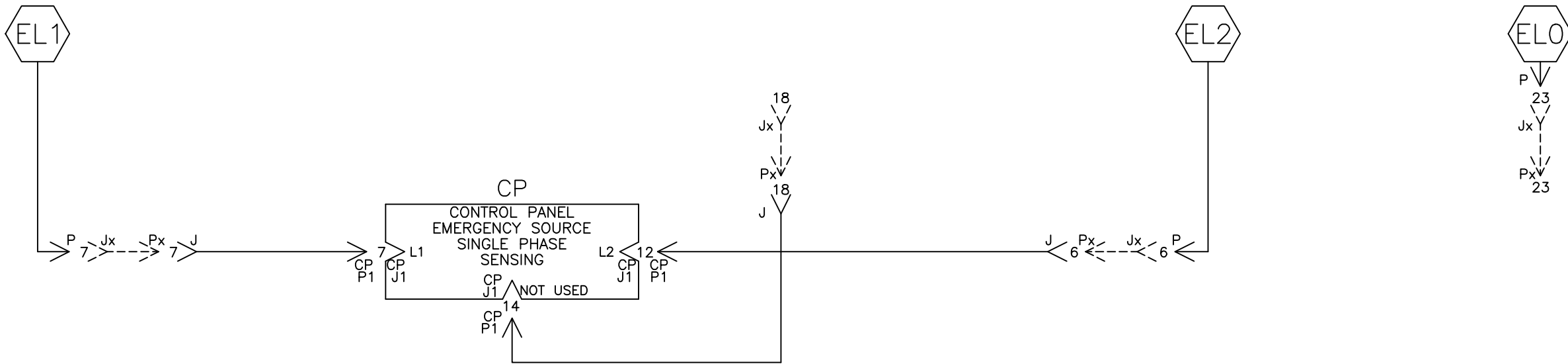
B

A

EMERGENCY SOURCE CIRCUITS

ADDITIONAL CIRCUITS

EMERGENCY



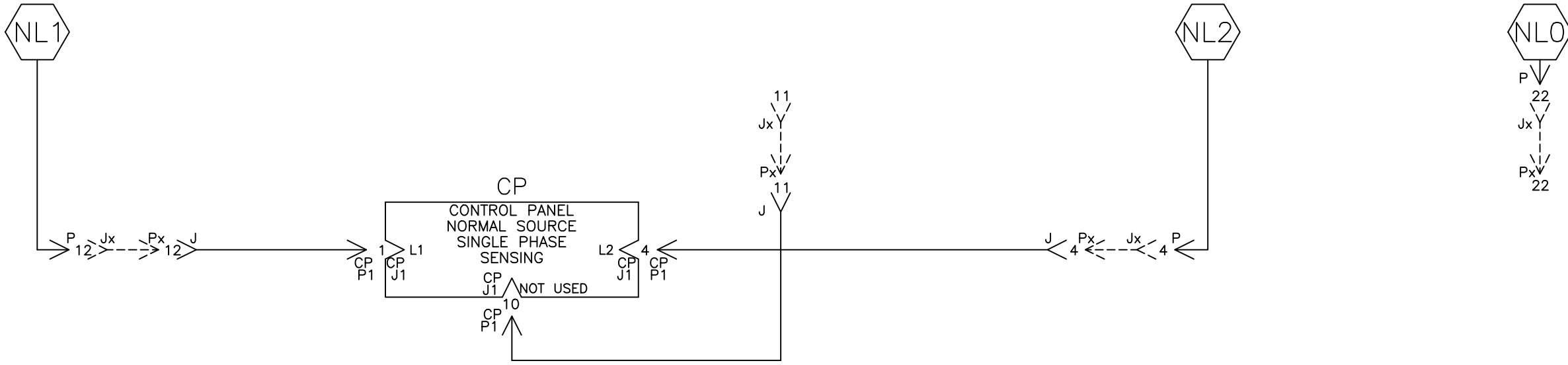
LOAD TERMINAL CIRCUITS

LOAD



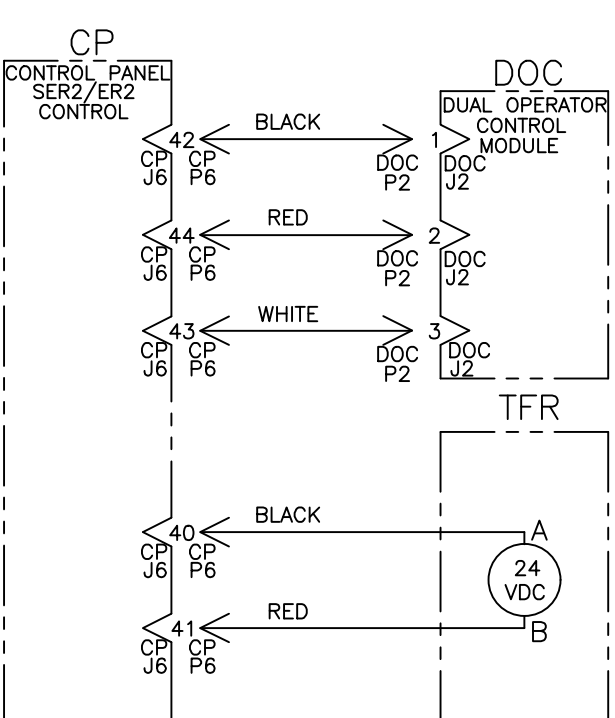
NORMAL SOURCE CIRCUITS

NORMAL

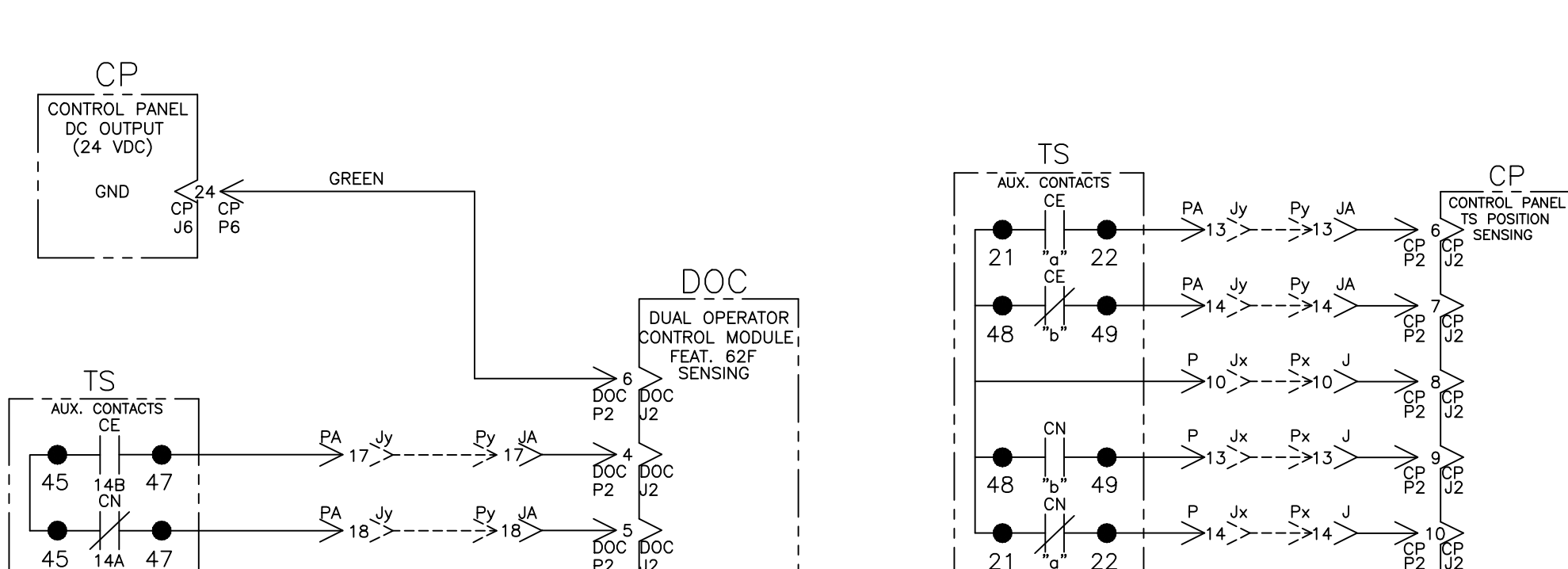


CONTROL CIRCUITS

SER2/ER2 CONTROL



TS POSITION SENSING



PROJECT NAME:				REV. TO SHEET	ECN NO.	BY	APP.	DATE
WIRING				DIAGRAM				
4000 SERIES (J4ACTS/J4NCTS)								
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.	COMPUTER GENERATED DRAWING			
DRAWN BY	JPB	7/26/05	PROPERTY OF ASCO POWER TECHNOLOGIES, USE PERMITTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.		SCALE	NONE	SIZE	DS
CHECKED	JPB	7/26/05	DWG. NO.		781127			
PROJECT APPROVAL			DRAWING C		ECN NO.	238548	SHEET	4 OF 6
FINAL APPROVAL	JPB	7/26/05	ASCO		ASCO Power Technologies, L.P. FLORHAM PARK, NEW JERSEY 07932 U.S.A.			

D

C

B

LN

A

D

C

B

A

PHYSICAL DIAGRAM

ENCLOSURE

TS (TRANSFER SWITCH)
VIEW FROM INSIDE FRONT

TB

OPTIONAL
SWITCHING
NEUTRAL

OPTIONAL
SOLID
NEUTRAL

STANDARD:
EMERGENCY & LOAD OUT
OF THE TOP AND NORMAL
OUT THE BOTTOM.

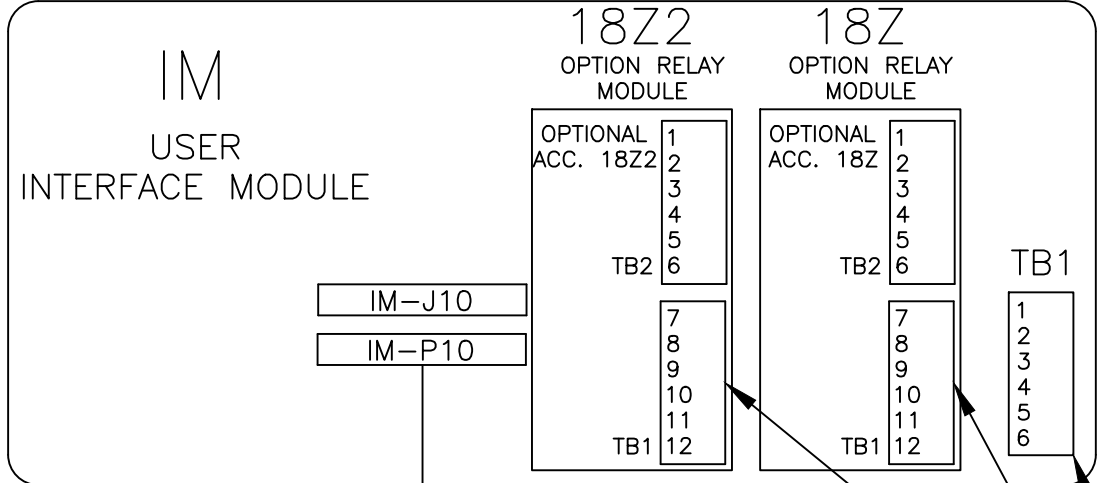
OPTIONAL:
EMERGENCY OUT OF THE TOP
AND NORMAL & LOAD
OUT THE BOTTOM.
*NOT AVAILABLE ON 600 AMP UNITS.

DOOR HINGE

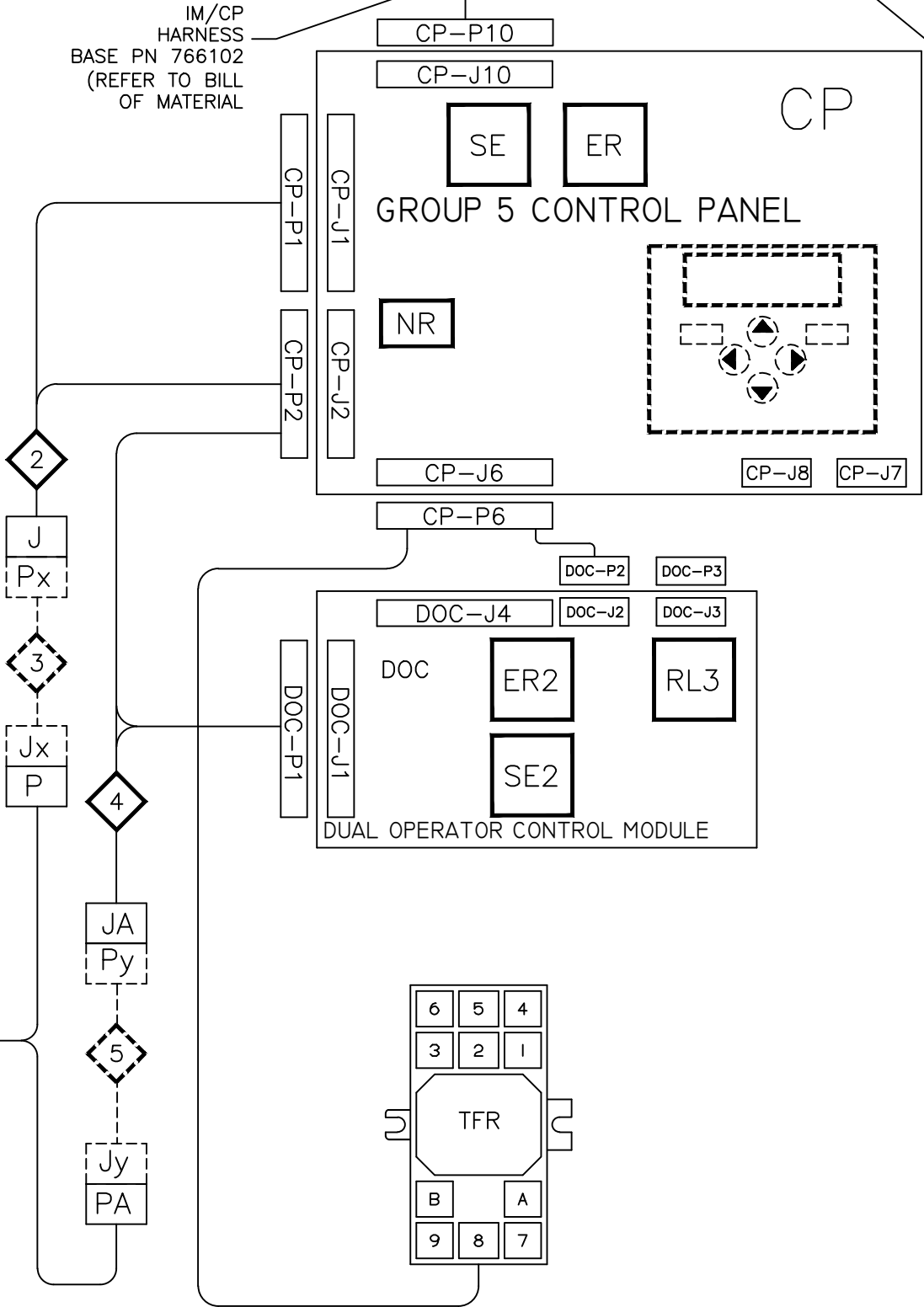
BONDING STRAP
PN 098323-019

DOOR (INSIDE)

OPTIONAL
POWERMANAGER
OR ADDITIONAL
OPERATOR CONTROLS
ESCUTCHEON MOUNTING



USER INTERFACE
MODULE FIELD
TERMINATIONS
ACC. 18Z & 18Z2
FIELD
TERMINATIONS



AP
OPTIONAL
ACCESSORY ADD-ON PANEL
MOUNTING

C B A —	238548	WK	BK	08/27/12
	SEE ECN			
	205825	JPB	JPB	9/8/05
	SEE ECN			
	205768	JPB	JPB	8/31/05
—	SEE ECN			
	205265	JPB	JPB	7/26/05
ISSUE				
PROJECT NAME:				
WIRING				
4000 SERIES (J4ACTS/J4NCTS)				
GROUP 5 CONTROLS				
THIRD ANGLE PROJECTION				
COMPUTER GENERATED DRAWING				
MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-1-003. FOR PLASTIC PARTS SEE MP-1-005.				
PROPERTY OF ASCO POWER TECHNOLOGIES. USE PERMITTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.				
781127				
ASCOTM ASCO Power Technologies, L.P. FLORHAM PARK, NEW JERSEY 07932 U.S.A.				
DRAWING C ECN NO. 238548 SHEET 5 OF 6				

WIRE RUN LISTING

<div><div></div><div></div></div> HARNESS LOCATOR		BOX CHECKED IF HARNESS IS MODIFIED	<div><div></div><div></div></div>
WIRE No.	HARNESS 619510-061 (P,PA,J3,J4) MAIN TS	CLR	AWG
1	P-1,CN-18		18
2	P-2,CN-A		
3	P-3,CN-14		
4	P-4,TS-3		
4	TS-3,CE-15		
4	CE-15,CN-15		
5	P-5,CN-B		
6	P-6,TS-7		
6	TS-7,CE-19		
6	CE-19,CN-19		
7	P-7,TS-5		
7	TS-5,CE-17		
7	CE-17,CN-17		
8	P-8,CE-24		
8	CE-24,J3-1		
9	P-9,CE-25		
9	CE-25,J3-2		
10	P-10,CE-21		
10	CE-21,CN-21		
10	CN-21,CN-48		
10	CE-48,CN-48		
11	P-11,TS-2		
12	P-12,TS-1		
12	TS-1,CE-13		
12	CE-13,CN-13		
13	P-13,CN-49		
14	P-14,CN-22		
15	P-15,CN-16		
16	P-16,CN-20		
17	P-17,J3-3		
18	P-18,TS-6		
19	P-19,TS-9		
20	P-20,TS-10		
21	P-21,TS-11		
22	P-22,TS-4		
23	P-23,TS-8		
24	P-24,TS-12		
25	J4-1,CE-27		
25	CE-27,CN-27		
26	J4-2,CE-28		
27	J4-3,CN-28		
28	J4-4,CE-30		
28	CE-30,CN-30		
29	J4-5,CE-31		
30	J4-6,CN-31		
31	J4-7,CE-33		
31	CE-33,CN-33		
32	J4-8,CE-34		
33	J4-9,CN-34		
34	J4-10,CE-36		
34	CE-36,CN-36		
35	J4-11,CN-38		
36	J4-12,CE-38		
37	J4-13,CE-39		
37	CE-39,CN-39		
38	J4-14,CN-41		
39	J4-15,CE-41		
40	J4-16,CE-42		
40	CE-42,CN-42		
41	J4-17,CN-44		
42	J4-18,CE-44		
43	J4-19,CE-45		
43	CE-45,CN-45		
107	PA-1,CE-18		
108	PA-2,CE-A		
109	PA-3,CE-14		
111	PA-5,CE-B		
119	PA-13,CE-22		
120	PA-14,CE-49		
121	PA-15,CE-16		
122	PA-16,CE-20		
123	PA-17,CE-47		
124	PA-18,CN-47		
DEAD END WIRES			
11	P-11,TS-2		
18	P-18,TS-6		
20	P-20,TS-10		
ADD WIRES			
97	J3-4		
44	J4-20		
45	J4-21		
46	J4-22		
47	J4-23		
48	J4-24		
110	PA-4		
112	PA-6		
113	PA-7		
114	PA-8		
115	PA-9		
116	PA-10		
117	PA-11		
118	PA-12		
125	PA-19		
126	PA-20		
127	PA-21		
128	PA-22		
129	PA-23		
130	PA-24		
</			

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

5		← HARNESS LOCATOR		BOX CHECKED IF HARNESS IS MODIFIED		<input type="checkbox"/>	
WIRE No.		HARNESS 309320-005 OPTIONAL 8 IN. EXTENSION HARNESS		CLR		AWG	
107		Jy-1,Py-1				16	
108		Jy-2,Py-2					
109		Jy-3,Py-3					
110		Jy-4,Py-4					
111		Jy-5,Py-5					
112		Jy-6,Py-6					
113		Jy-7,Py-7					
114		Jy-8,Py-8					
115		Jy-9,Py-9					
116		Jy-10,Py-10					
117		Jy-11,Py-11					
118		Jy-12,Py-12					
119		Jy-13,Py-13					
120		Jy-14,Py-14					
121		Jy-15,Py-15					
122		Jy-16,Py-16					
123		Jy-17,Py-17					
124		Jy-18,Py-18					
125		Jy-19,Py-19					
126		Jy-20,Py-20					
127		Jy-21,Py-21					
128		Jy-22,Py-22					
129		Jy-23,Py-23					
130		Jy-24,Py-24					