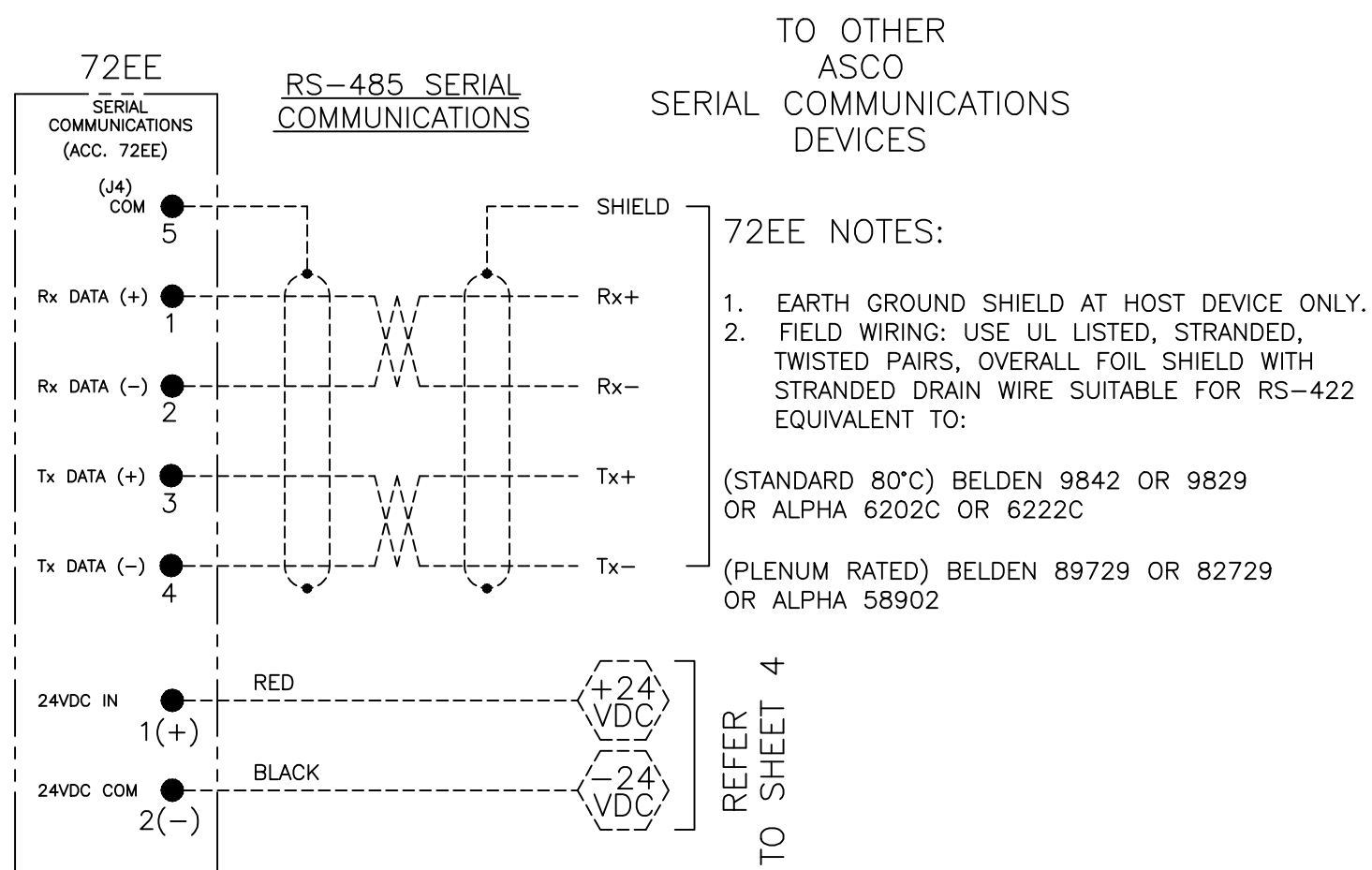
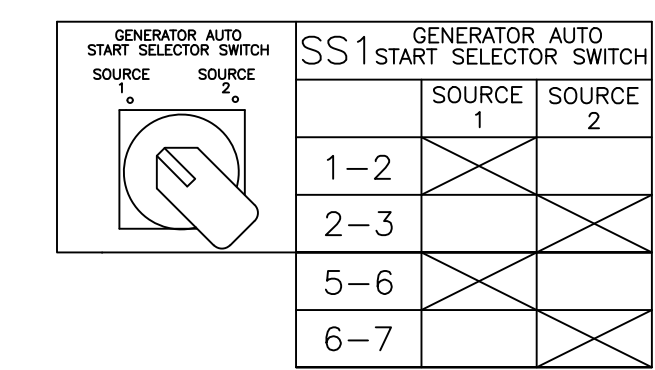
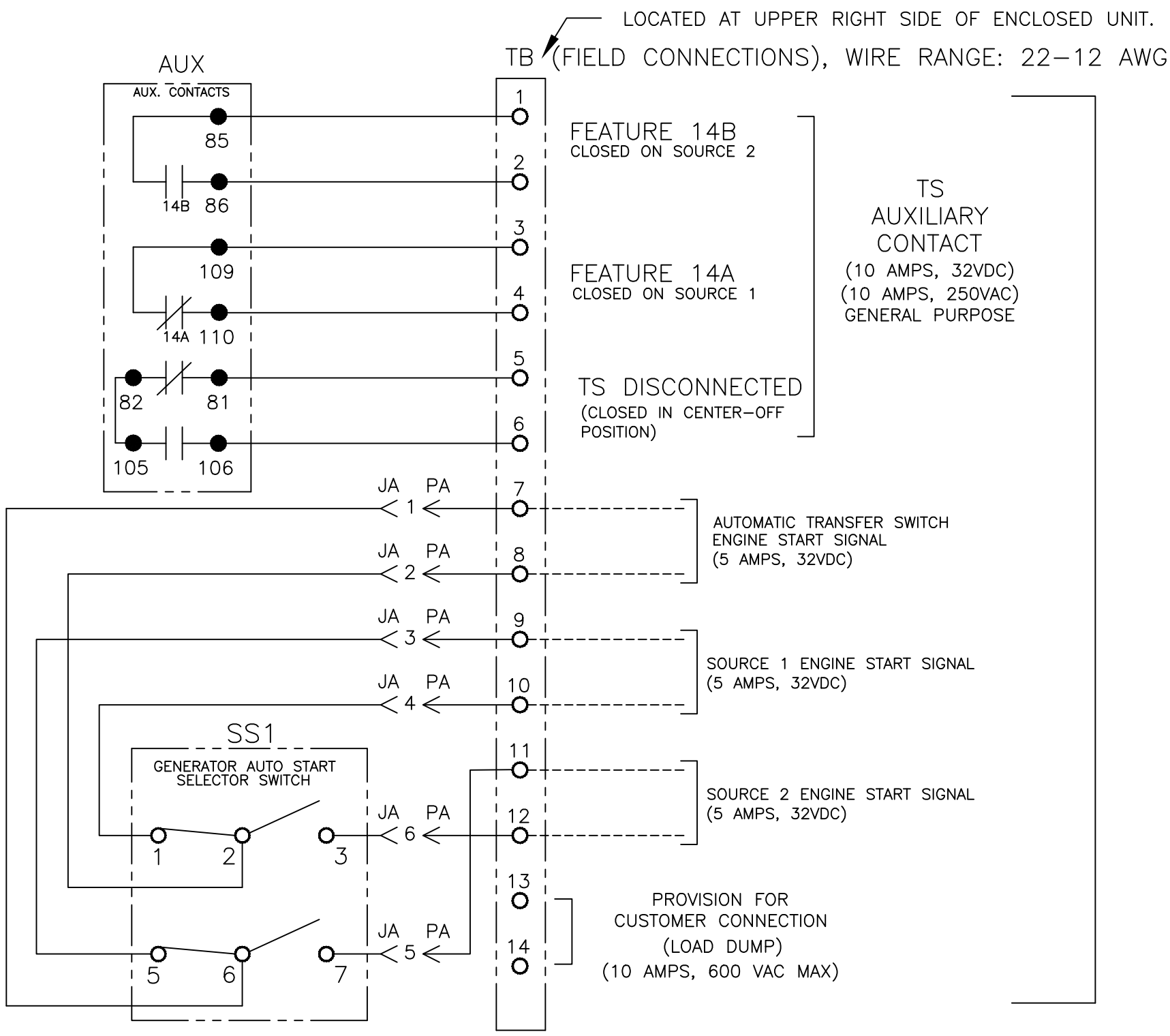
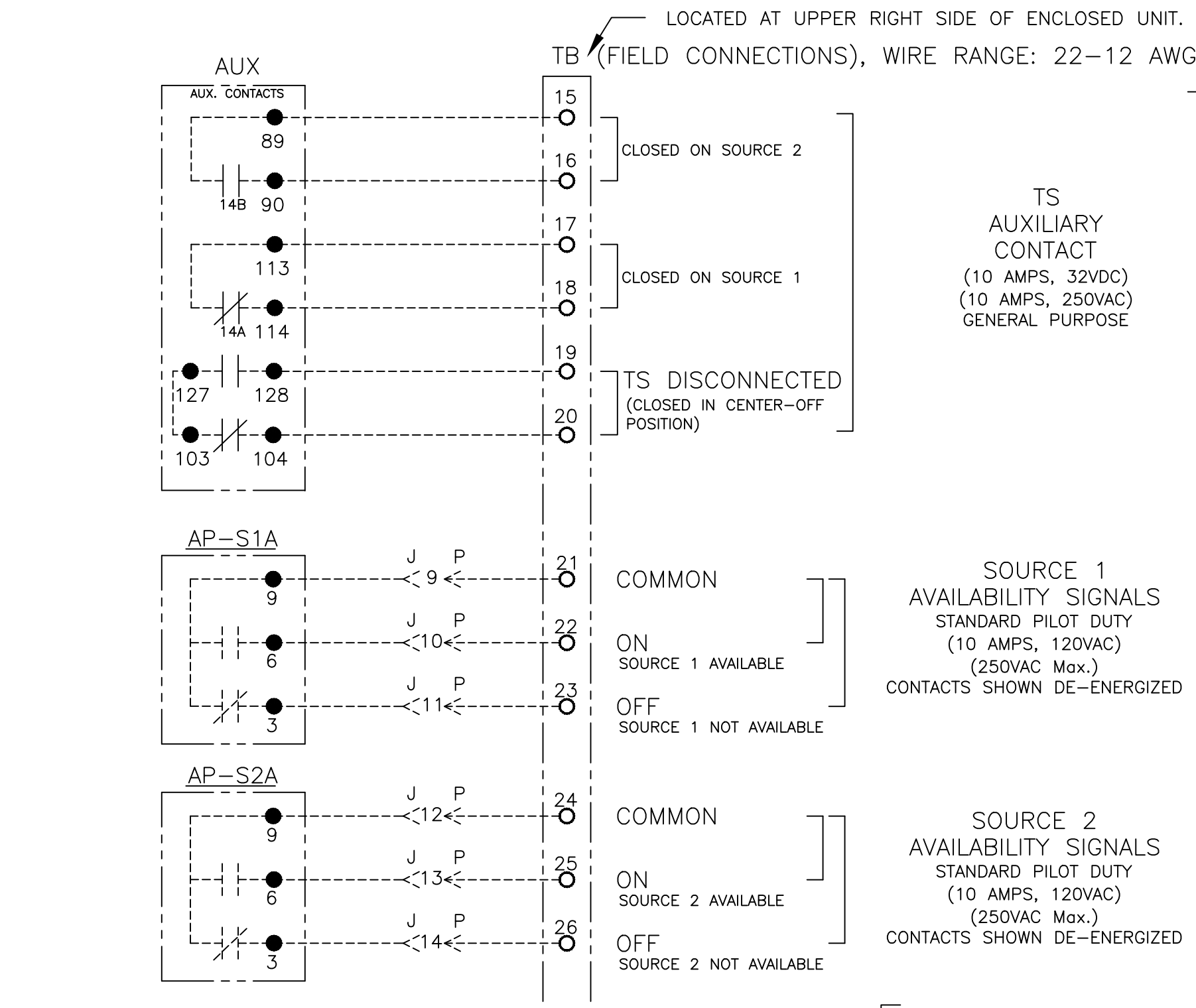


FIELD CONNECTIONS BASE



FIELD CONNECTIONS FOR OPTIONAL ACCESSORIES



ACCESSORY 170B

ACCESSORY 170E OR 170K

NOTE B: ACCESSORIES
170BP INCLUDE 170B PLUS 170*P
170EP INCLUDE 170E PLUS 170*P
170KP INCLUDE 170K PLUS 170*P

ACCESSORY 170*P
REFER TO NOTE B

PROJECT NAME:		REV. TO SHEET	ECN NO.	BY	APP.	DATE
WIRING		DIAGRAM				
300 SERIES (H3MGQ) 3PH 800-1200 AMPS						
"H" FRAME, MANUALLY OPERATED TS						
DRAWN BY	MS	DATE	04/22/22	MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-I-003. FOR PLASTIC PARTS SEE MP-I-055		ASSEM. REF. NO.
CHECKED	NS	DATE	04/22/22	PROPERTY OF ASCO POWER TECHNOLOGIES. USE PERMITTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.		COMPUTER GENERATED DRAWING
PROJECT APPROVAL	JPB	DATE	04/22/22	DWG. NO. 1190077		SCALE 1:1 SIZE DS
FINAL APPROVAL				REV. A		ECN NO. 297830
ASCO				ASCO POWER TECHNOLOGIES, L.P.		SHEET 2 OF 9
				FLORHAM PARK, NEW JERSEY 07932 U.S.A.		

D

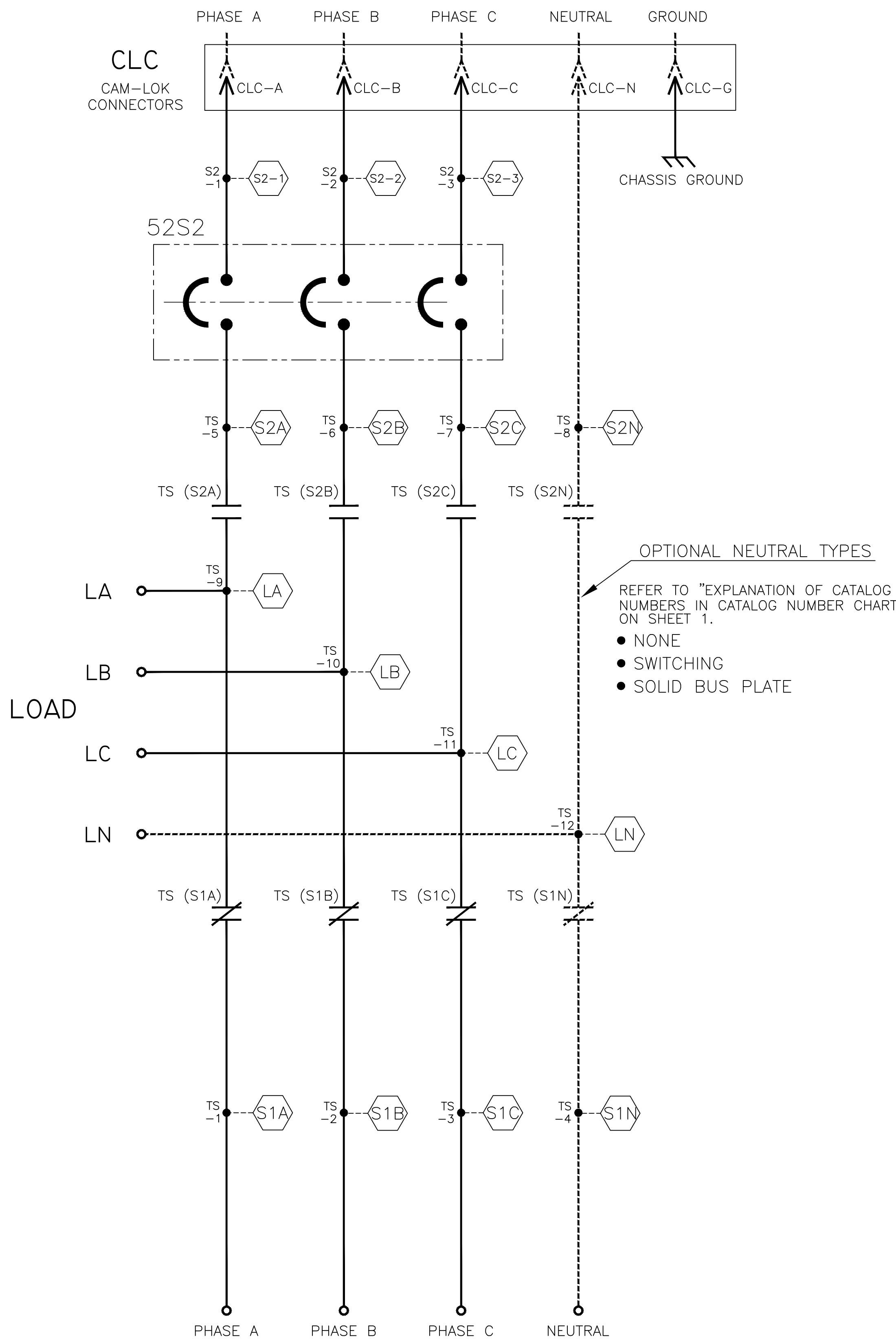
C

B

A

MAIN POWER POLES

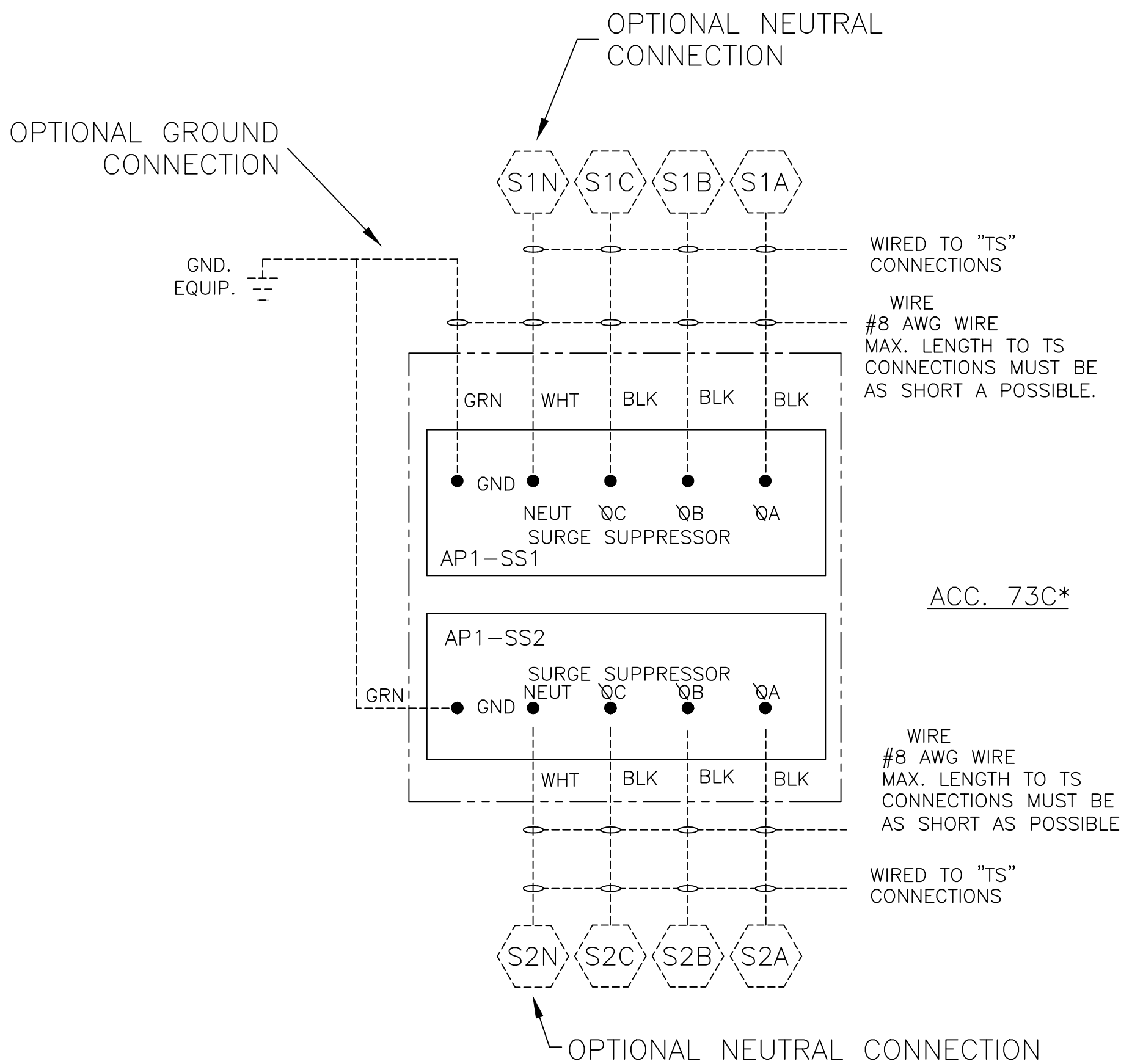
SOURCE 2



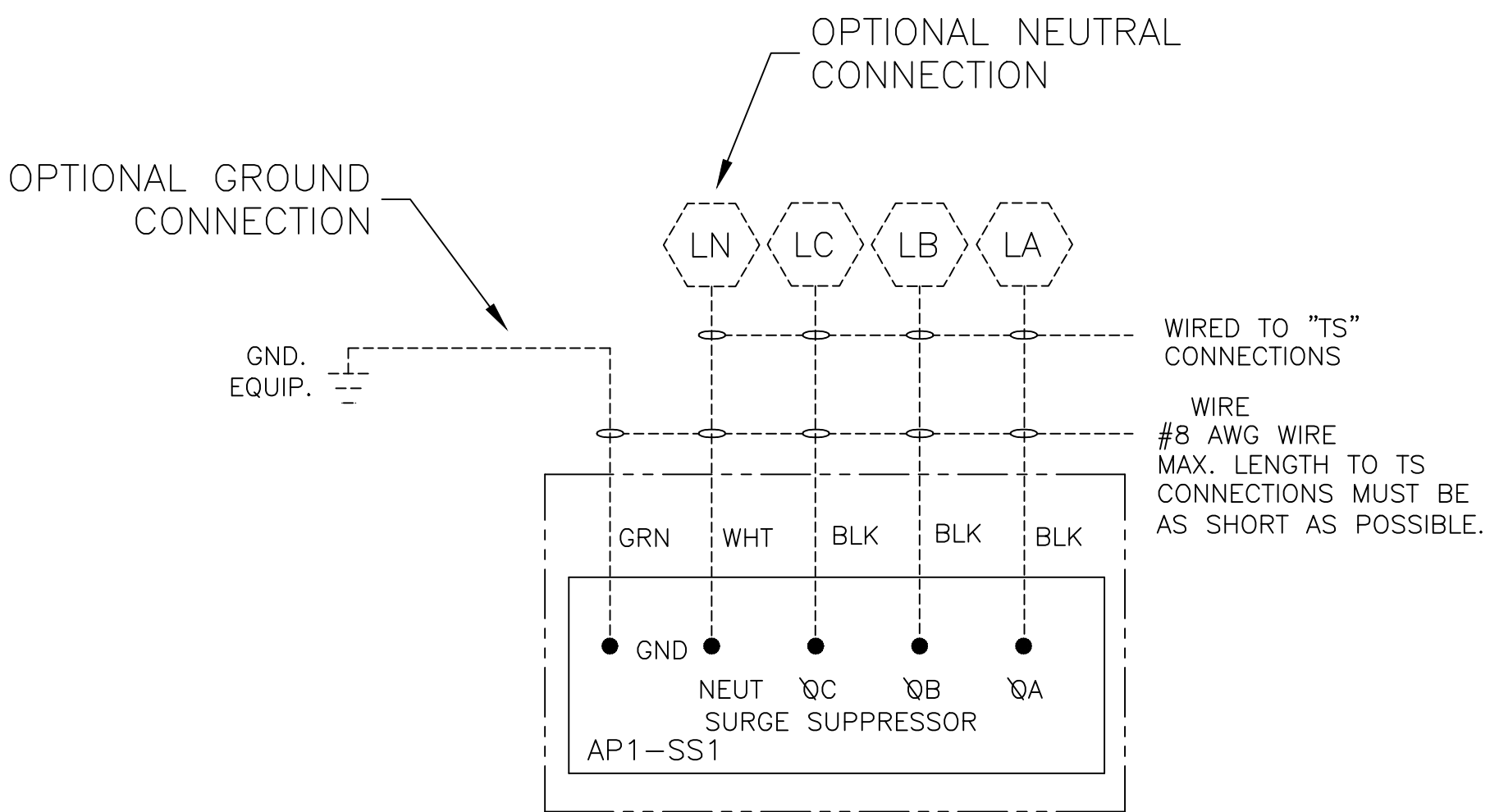
NOTE:
TS SHOWN CLOSED ON SOURCE 1.

OPTIONAL ACCESSORIES

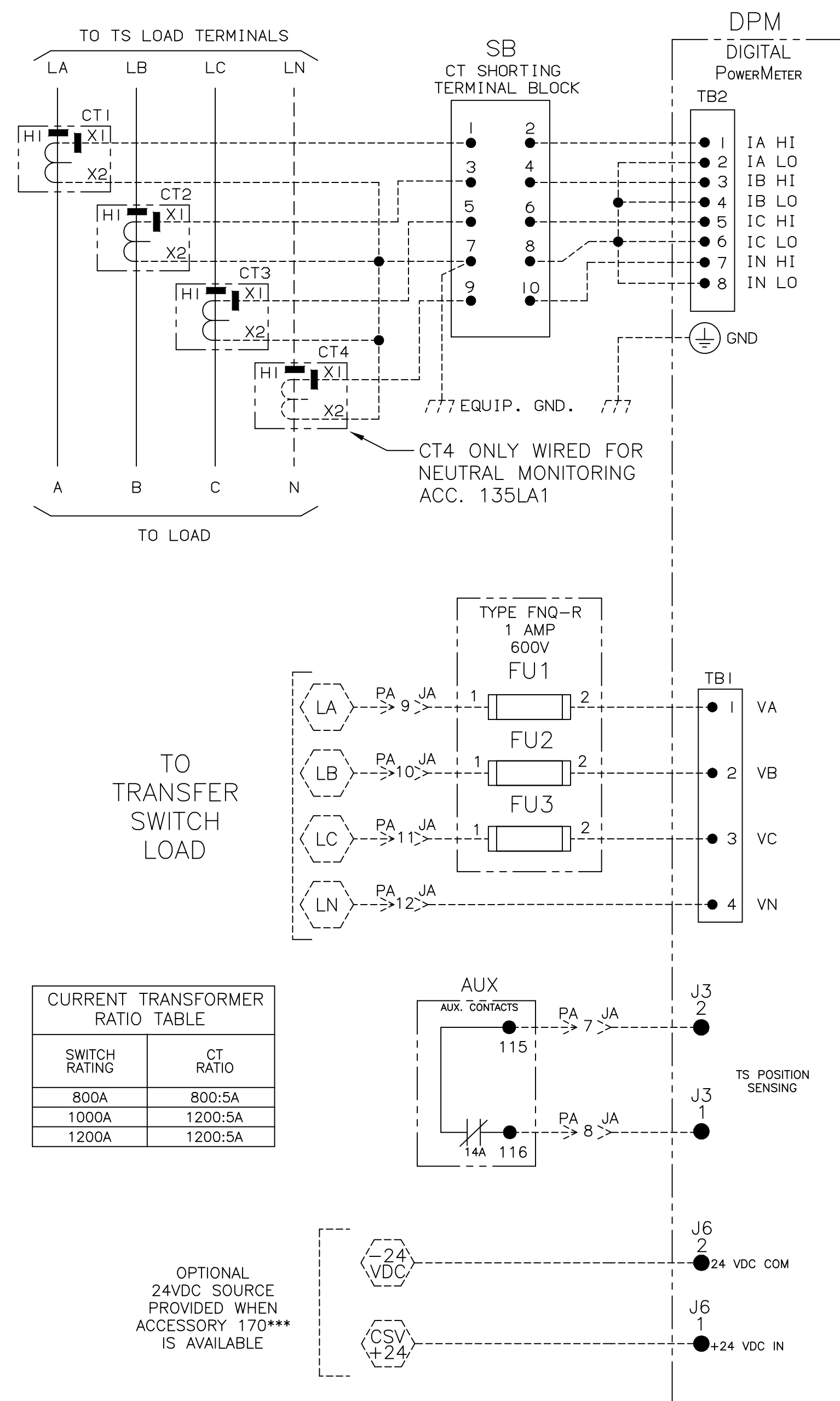
73C* SOURCE 1(SS1) & SOURCE 2(SS2)



73C** LOAD (SS1)



135L (LOAD)



CURRENT TRANSFORMER RATIO TABLE	
SWITCH RATING	CT RATIO
800A	800:5A
1000A	1200:5A
1200A	1200:5A

ACCESSORY 135L NOTES:

THE DIGITAL POWER METER (DPM) IS CONNECTED AND FACTORY SET TO MEASURE THREE PHASE/4 WIRE SYSTEMS. WHEN USING THE TRANSFER SWITCH IN THREE PHASE/3 WIRE SYSTEMS, MODIFY THE SETTING OF THE "SYSTEM TYPE" TO "3φ-3W" UNDER THE "GENERAL" SETTINGS.

REFER TO OPERATOR'S MANUAL, ASCO 5210 DIGITAL POWER METER, PART NUMBER 381333-368.

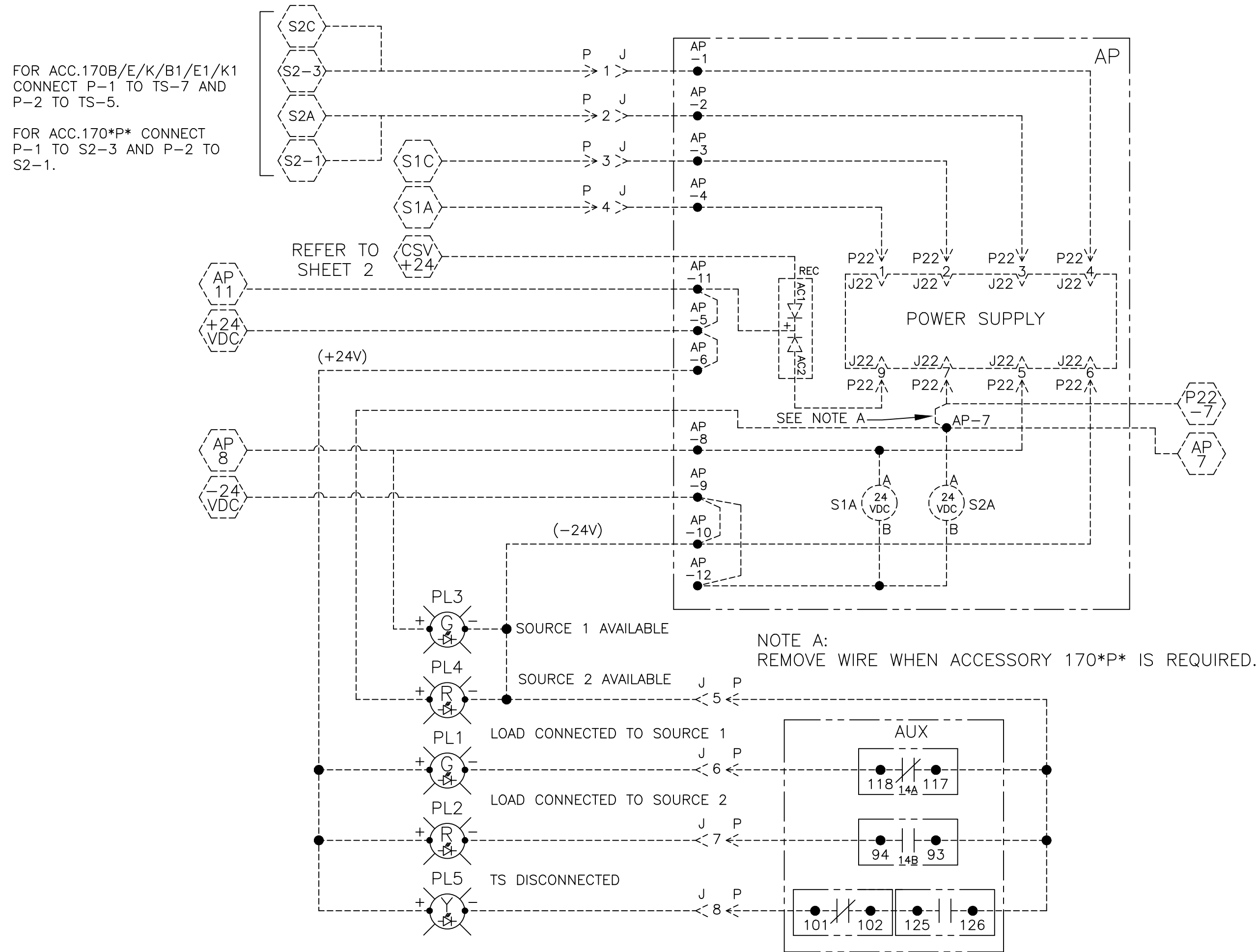
PROJECT NAME:		REV. TO SHEET	ECN NO.	BY	APP.	DATE
WIRING		DIAGRAM				
300 SERIES (H3MGQ) 3PH 800-1200 AMPS						
"H" FRAME, MANUALLY OPERATED TS						
BY	DATE	MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-1-003. FOR PLASTIC PARTS SEE MP-1-055		ASSEM. REF. NO.		COMPUTER GENERATED DRAWING
DRAWN BY	MS	04/22/22				SCALE 1:1 SIZE DS
CHECKED	NS	04/22/22	PROPERTY OF ASCO POWER TECHNOLOGIES. USE PERMITTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.			DWG. NO. 1190077
PROJECT APPROVAL	JPB	04/22/22				DRAWING A REV.
FINAL APPROVAL			ASCO POWER TECHNOLOGIES, L.P. FLORHAM PARK, NEW JERSEY 07932 U.S.A.			ECN NO. 297830 3 OF 9

OPTIONAL ACCESSORIES CONTINUED

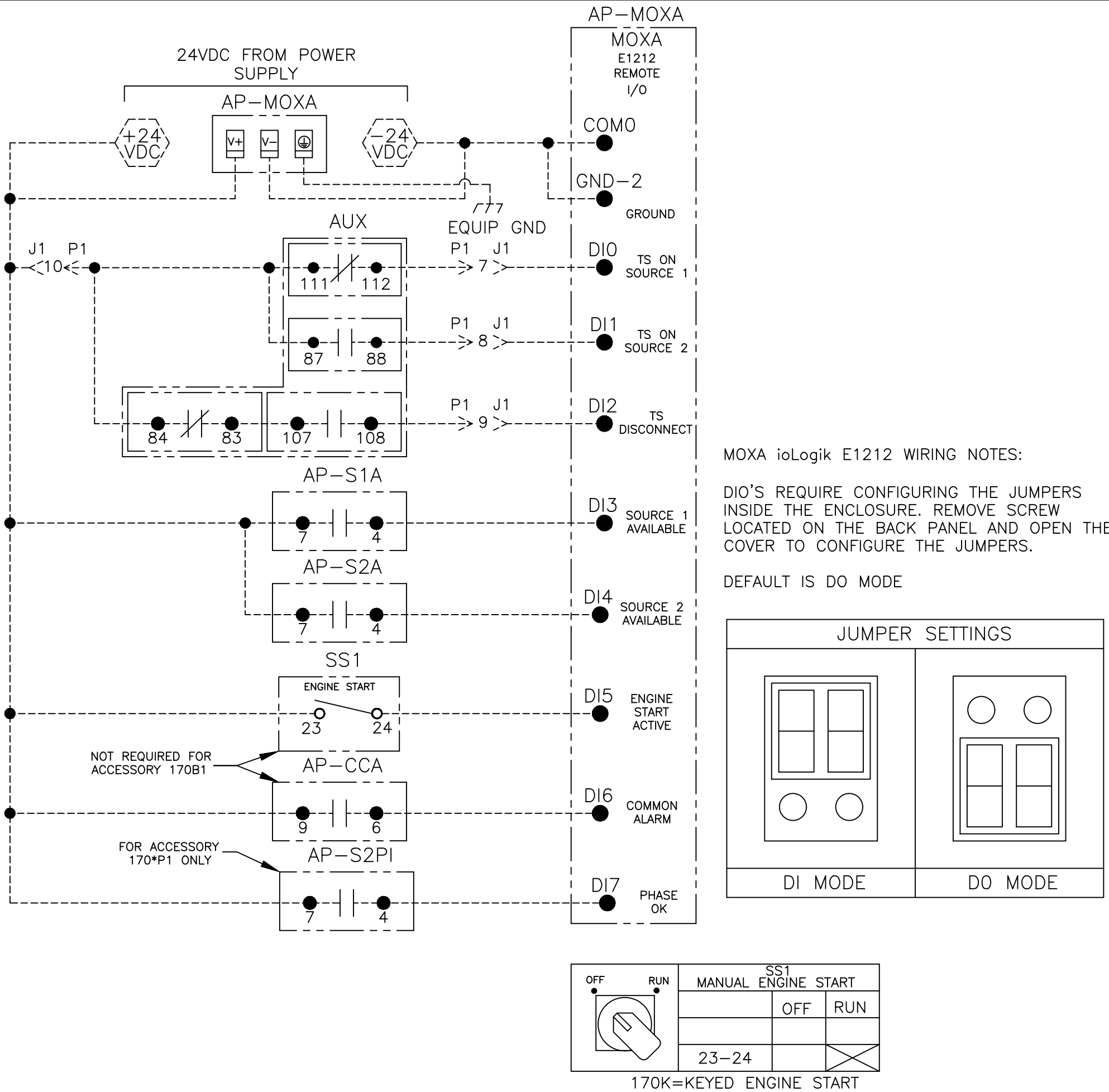
ACCESSORIES CIRCUIT MATRIX

ACCESSORY	CIRCUITS
170B(*)	170B
170E(*)	170B + 170E
170K(*)	170B + 170K
170BP(*)	170B + 170*P
170EP(*)	170B + 170E + 170*P
170KP(*)	170B + 170K + 170*P
(*) = 1	+ 170**1

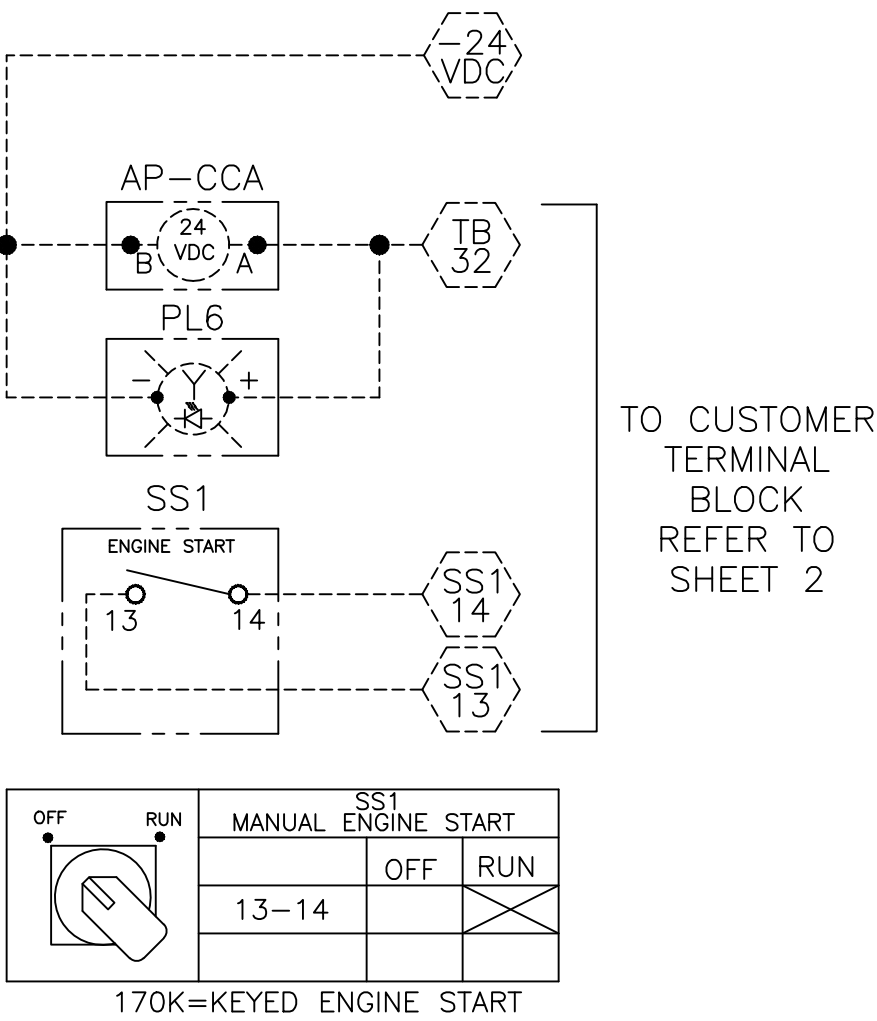
170B CIRCUIT



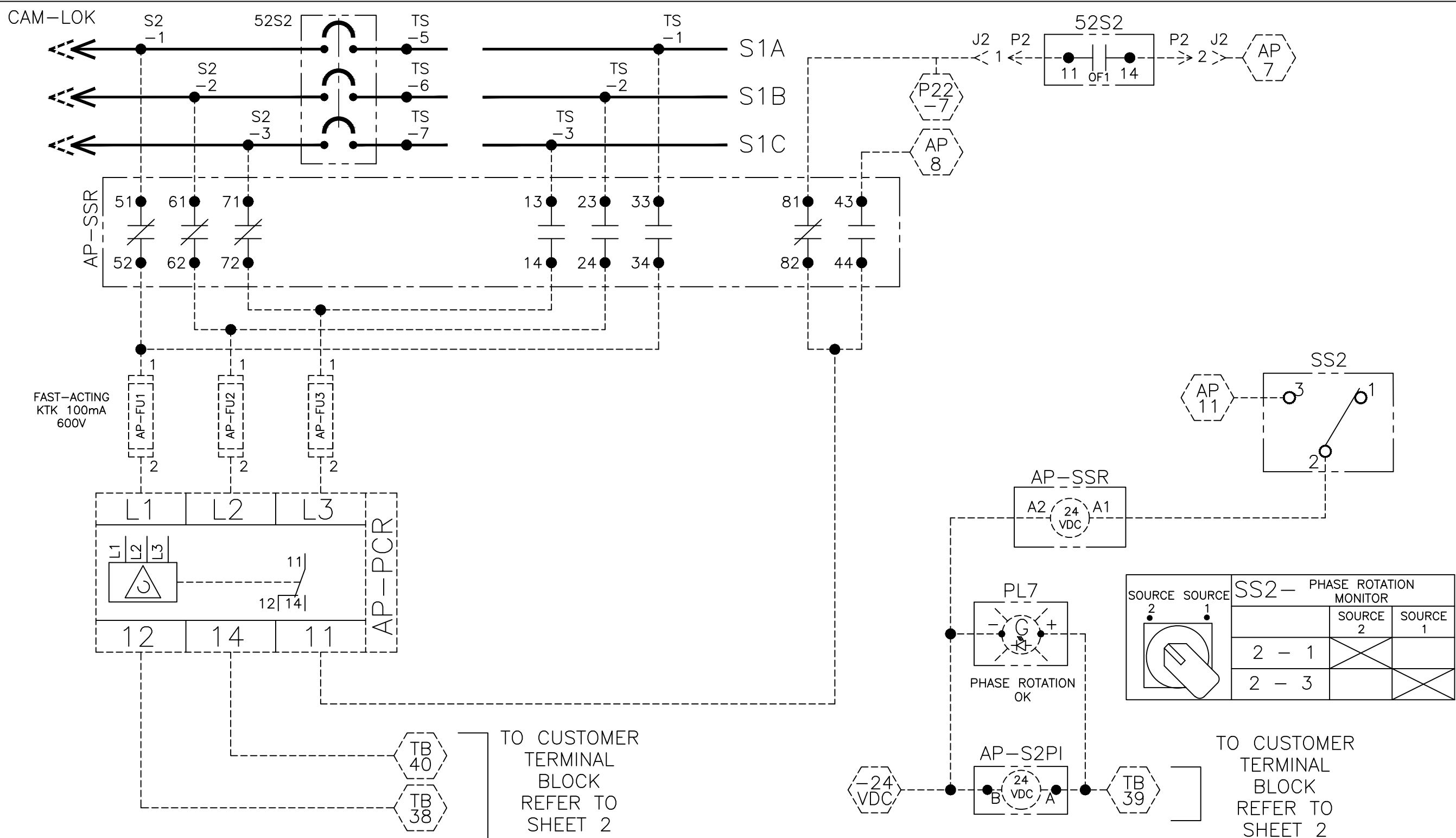
170**1 CIRCUIT

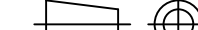


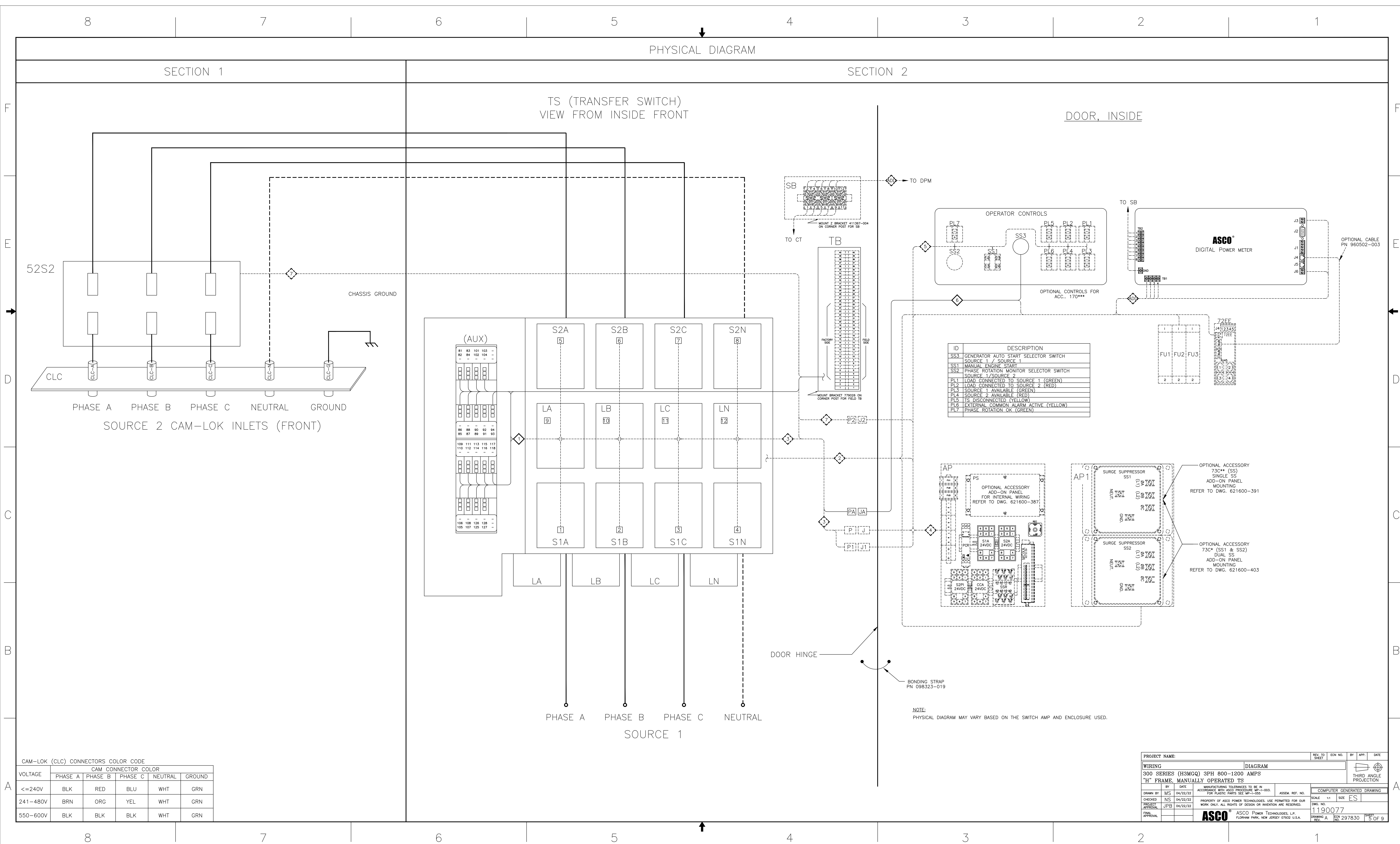
170E OR 170K CIRCUIT

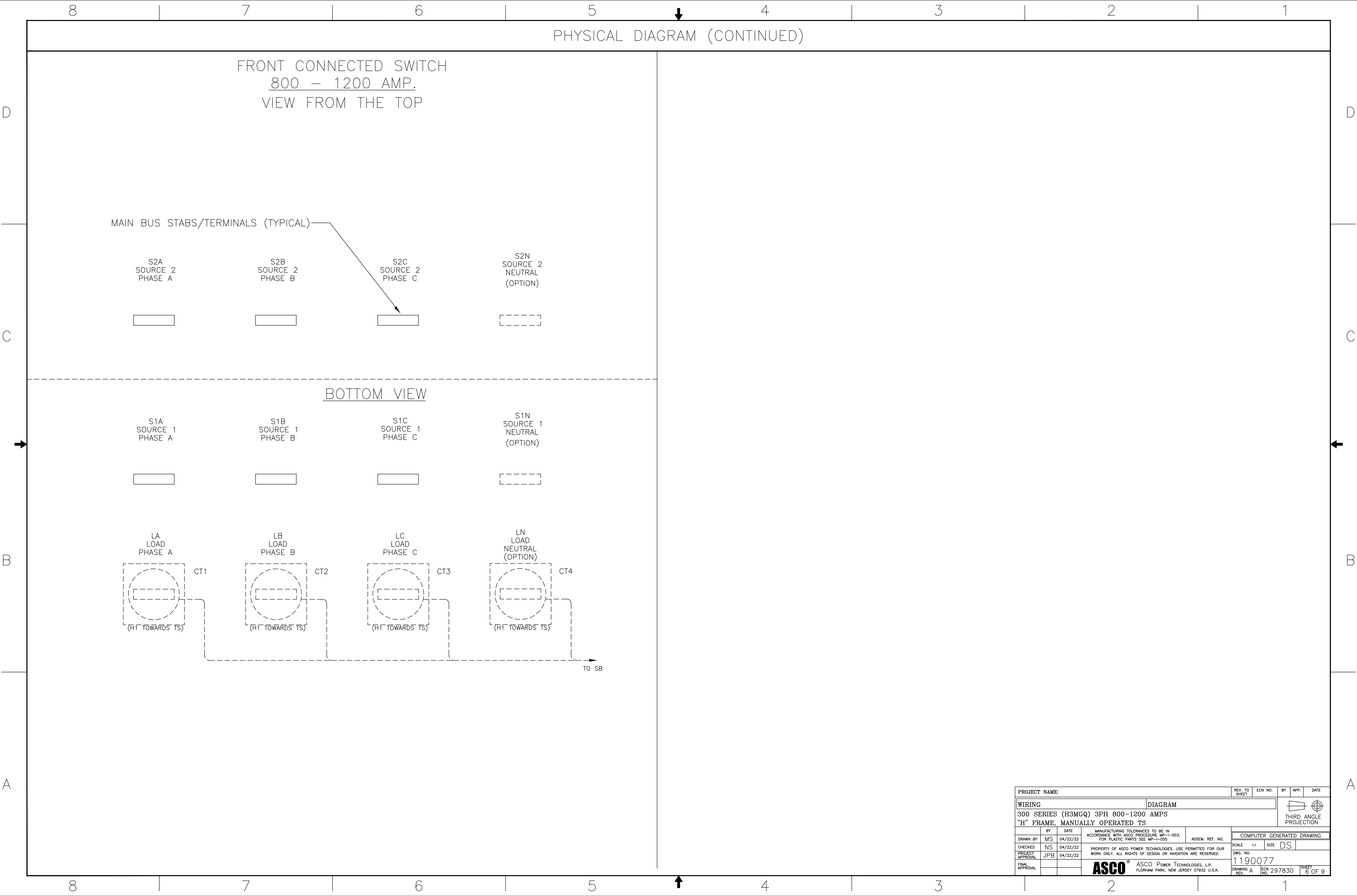


170*P CIRCUIT



PROJECT NAME:					REV. TO SHEET	ECN NO.	BY	APP.	DATE
WIRING					DIAGRAM				
300 SERIES (H3MGQ) 3PH 800-1200 AMPS									
"H" FRAME, MANUALLY OPERATED TS					THIRD ANGLE PROJECTION				
BY		DATE	MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-I-003. FOR PLASTIC PARTS SEE MP-I-055		ASSEM. REF. NO.		COMPUTER GENERATED DRAWING		
DRAWN BY	MS	04/22/22					SCALE 1:1 SIZE DS		
CHECKED	NS	04/22/22	PROPERTY OF ASCO POWER TECHNOLOGIES. USE PERMITTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.				DWG. NO. 1190077		
PROJECT APPROVAL	JPB	04/22/22							
FINAL APPROVAL			 ASCO POWER TECHNOLOGIES, L.P. FLORHAM PARK, NEW JERSEY 07932 U.S.A.		DRAWING REV. A		ECN NO. 297830	SHEET 4 OF 9	





WIRE RUN LISTING

[illegible]

PROJECT NAME:				REV. TO SHEET	ECN NO.	BY	APP.	DATE
WIRING 300 SERIES (H3MGQ) 3PH 800-1200 AMPS "H" FRAME, MANUALLY OPERATED TS				DIAGRAM  THIRD ANGLE PROJECTION				
DRAWN BY	MS	DATE	MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-1-003. FOR PLASTIC PARTS SEE MP-1-055.			ASSEM. REF. NO.		
CHECKED	NS	04/22/22	PROPERTY OF ASCO POWER TECHNOLOGIES, INC. PERMITTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.			COMPUTER GENERATED DRAWING SCALE 1:1 SIZE DS		
APPROVED	JPB	04/22/22				DWG. NO. 1190077		
FINAL APPROVAL			 ASCO® ASCO POWER TECHNOLOGIES, L.P. FLORHAM PARK, NEW JERSEY 07930 U.S.A.			DRAWING REV. ECN NO. 297830 SHEET 7 OF 9		

D

C

B

A

WIRE RUN LISTING

170BP

170BP1

170EP OR 170KP

170EP1 OR 170KP1

4 ← HARNESS LOCATOR			
WIRE No.	JACK J,J1,J2	CLR	AWG
600 J-1,AP-1			16
601 J-2,AP-2			
17 J-3,AP-3			
18 J-4,AP-4			
19 J-5,AP-10			
20 J-6,PL1-(-)			
21 J-7,PL2-(-)		BLK	22
22 J-8,PL5-(-)			
23 J-9,AP-S1A-9			16
24 J-10,AP-S1A-6			
25 J-11,AP-S1A-3			
26 J-12,AP-S2A-9			
27 J-13,AP-S2A-6			
28 J-14,AP-S2A-3			
500 J-15,AP-S2A-2			
19 J-16,AP-12			
52 J1-11,AP-S2PI-9			
53 J1-12,AP-S2PI-6			
54 J1-13,AP-S2PI-3			
55 J1-14,AP-PCR-12			
56 J1-15,AP-S2PI-A			
57 J1-16,AP-PCR-14			
650 J2-1,AP-SSR-81			
36 J2-2,AP-7			

3 ← HARNESS LOCATOR			
WIRE No.	PLUG P,P1	CLR	AWG
600 P-1,S2-3			16
601 P-2,S2-1			
17 P-3,TS-3			
18 P-4,TS-1			
19 P-5,AUX-117			
20 P-6,AUX-118			
21 P-7,AUX-94			
22 P-8,AUX-101			
23 P-9,TB-21			
24 P-10,TB-22			
25 P-11,TB-23			
26 P-12,TB-24			
27 P-13,TB-25			
28 P-14,TB-26			
500 P-15,TB-27			
19 P-16,TB-28			
52 P1-11,TB-35			
53 P1-12,TB-36			
54 P1-13,TB-37			
55 P1-14,TB-38			
56 P1-15,TB-39			
57 P1-16,TB-40			

1 ← HARNESS LOCATOR			
WIRE No.	WIRING (TB, AUX)	CLR	AWG
19 AUX-117,AUX-93			16
19 AUX-93,AUX-126			
47 AUX-102,AUX-125			
8 TB-15,AUX-89			
9 TB-16,AUX-90			
10 TB-17,AUX-113			
11 TB-18,AUX-114			
12 TB-19,AUX-128			
13 TB-20,AUX-104			
14 AUX-127,AUX-103			
59 TB-39,TB-40	JUMPER		

5 ← HARNESS LOCATOR			
WIRE No.	WIRING (AP)	CLR	AWG
35 AP-6,PL1-(+)		RED	22
35 PL1-(+),PL2-(+)			
35 PL2-(+),PL5-(+)			
36 AP-7,PL4-(+)			
37 AP-8,PL3-(+)			
19 AP-10,PL3-(-)		BLK	
19 PL3-(-),PL4-(-)			
56 AP-S2PI-A,PL7-(+)		RED	
19 AP-S2PI-B,PL7-(-)		BLK	
19 AP-12,AP-SSR-A2			16
19 AP-SSR-A2,AP-S2PI-B			
200 AP-FU1-1,AP-SSR-52			
201 AP-FU3-1,AP-SSR-72			
202 AP-FU2-1,AP-SSR-62			
200 AP-SSR-52,AP-SSR-34			
201 AP-SSR-72,AP-SSR-14			
202 AP-SSR-62,AP-SSR-24			
62 AP-PCR-L1,AP-FU1-2			
62 AP-PCR-L2,AP-FU2-2			
63 AP-PCR-L3,AP-FU3-2			
601 AP-SSR-51,S2-1			
205 AP-SSR-61,S2-2			
600 AP-SSR-71,S2-3			
17 AP-SSR-13,TS-3			
608 AP-SSR-23,TS-2			
18 AP-SSR-33,TS-1			
207 AP-SSR-82,AP-SSR-44			
207 AP-SSR-82,AP-PCR-11			
37 AP-SSR-43,AP-8			
35 AP-11,SS2-3			
208 AP-SSR-A1,SS2-2			
501 AP-S1A-2,AP-S2A-8			
502 AP-S1A-8,AP-REC-AC1			

4 ← HARNESS LOCATOR			
WIRE No.	JACK J,J1	CLR	AWG
600 J-1,AP-1			16
601 J-2,AP-2			
17 J-3,AP-3			
18 J-4,AP-4			
19 J-5,AP-10			
20 J-6,PL1-(-)			
21 J-7,PL2-(-)		BLK	22
22 J-8,PL5-(-)			
23 J-9,AP-S1A-9			16
24 J-10,AP-S1A-6			
25 J-11,AP-S1A-3			
26 J-12,AP-S2A-9			
27 J-13,AP-S2A-6			
28 J-14,AP-S2A-3			
500 J-15,AP-S2A-2			
19 J-16,AP-12			
44 J1-7,AP-MOXA-D10			
45 J1-8,AP-MOXA-D11			
46 J1-9,AP-MOXA-D12			
35 J1-10,AP-S1A-7			
52 J1-11,AP-S2PI-9			
53 J1-12,AP-S2PI-6			
54 J1-13,AP-S2PI-3			
55 J1-14,AP-PCR-12			
56 J1-15,AP-S2PI-A			
57 J1-16,AP-PCR-14			
650 J2-1,AP-SSR-81			
36 J2-2,AP-7			

3 ← HARNESS LOCATOR			
WIRE No.	PLUG P,P1	CLR	AWG
600 P-1,S2-3			16
601 P-2,S2-1			
17 P-3,TS-3			
18 P-4,TS-1			
19 P-5,AUX-117			
20 P-6,AUX-118			
21 P-7,AUX-94			
22 P-8,AUX-101			
23 P-9,TB-21			
24 P-10,TB-22			
25 P-11,TB-23			
26 P-12,TB-24			
27 P-13,TB-25			
28 P-14,TB-26			
500 P-15,TB-27			
19 P-16,TB-28			
44 P1-7,AUX-112			
45 P1-8,AUX-88			
46 P1-9,AUX-108			
35 P1-10,AUX-111			
52 P1-11,TB-35			
53 P1-12,TB-36			
54 P1-13,TB-37			
55 P1-14,TB-38			
56 P1-15,TB-39			
57 P1-16,TB-40			

7 ← HARNESS LOCATOR			
WIRE No.	PLUG P2	CLR	AWG
650 P2-1,52S2-OF1-11			16
36 P2-2,52S2-OF1-14			

AP ← HARNESS LOCATOR			
WIRE No.	WIRING (AP 621600-387)	CLR	AWG
6	REMOVE CONNECTION FROM AP		16
6	AP-7,P22-7		
650	ADD CONNECTION TO AP		
P22-7,AP-SSR-81			

1 ← HARNESS LOCATOR			
WIRE No.	WIRING (TB, AUX)	CLR	AWG
19 AUX-117,AUX-93			16
19 AUX-93,AUX-126			
47 AUX-102,AUX-125			
18 J-4,AP-4			
35 AUX-87,AUX-84			
64 AUX-83,AUX-107			
8 TB-15,AUX-89			
9 TB-16,AUX-90			
10 TB-17,AUX-113			
24 J-10,AP-S1A-6			
12 TB-19,AUX-128			
13 TB-20,AUX-104			
14 AUX-127,AUX-103			
59 TB-39,TB-40	JUMPER		

5 ← HARNESS LOCATOR			
WIRE No.	WIRING (AP)	CLR	AWG
35 AP-6,PL1-(+)		RED	22
35 PL1-(+),PL2-(+)			
35 PL2-(+),PL5-(+)			
53 J1-12,AP-S2PI-6			
54 J1-13,AP-S2PI-3			
37 AP-8,PL3-(+)			
37 AP-8,PL3-(+)			
19 AP-10,PL3-(-)		BLK	
19 PL3-(-),PL4-(-)			
56 AP-S2PI-A,PL7-(+)		RED	
19 AP-S2PI-B,PL7-(-)		BLK	
35 AP-S1A-7,AP-S2A-7			16
35 AP-S2A-7,AP-MOXA-(V+)			
35 AP-MOXA-(V+),AP-5			
48 AP-S1A-4,AP-MOXA-D13			
49 AP-S2A-4,AP-MOXA-D14			
100 AP-MOXA-GND,EQUIP. GND			
19 AP-MOXA-(V-),AP-9			
19 AP-MOXA-(V-),AP-MOXA-COMO		BLK	22
19 AP-MOXA-COMO,AP-MOXA-GND-2			
35 AP-11,AP-S2PI-7			16
60 AP-S2PI-4,AP-MOXA-D17			

19 AP-12,AP-SSR-A2			
19 AP-SSR-A2,AP-S2PI-B			
200 AP-FU1-1,AP-SSR-52			
201 AP-FU3-1,AP-SSR-72			
202 AP-FU2-1,AP-SSR-62			
200 AP-SSR-52,AP-SSR-34			
201 AP-SSR-72,AP-SSR-14			
202 AP-SSR-62,AP-SSR-24			
62 AP-PCR-L1,AP-FU1-2			
62 AP-PCR-L2,AP-FU2-2			
63 AP-PCR-L3,AP-FU3-2			
601 AP-SSR-51,S2-1			
205 AP-SSR-61,S2-2			
600 AP-SSR-71,S2-3			
17 AP-SSR-13,TS-3			
608 AP-SSR-23,TS-2			
18 AP-SSR-33,TS-1			
207 AP-SSR-82,AP-SSR-44			
207 AP-SSR-82,AP-PCR-11			
37 AP-SSR-43,AP-8			
35 AP-S2PI-7,SS2-3			
208 AP-SSR-A1,SS2-2			
501 AP-S1A-2,AP-S2A-8			
502 AP-S1A-8,AP-REC-AC1			

7 ← HARNESS LOCATOR			
WIRE No.	PLUG P2	CLR	AWG
650 P2-1,52S2-OF1-11			16
36 P2-2,52S2-OF1-14			

AP ← HARNESS LOCATOR			
WIRE No.	WIRING (AP 621600-387)	CLR	AWG
6	REMOVE CONNECTION FROM AP		16
6	AP-7,P22-7		
650	ADD CONNECTION TO AP		
P22-7,AP-SSR-81			

4 ← HARNESS LOCATOR			
WIRE No.	JACK J,J1	CLR	AWG
600 J-1,AP-1			16
601 J-2,AP-2			
17 J-3,AP-3			
18 J-4,AP-4			
19 J-5,AP-10			
20 J-6,PL1-(-)			
21 J-7,PL2-(-)		BLK	22
22 J-8,PL5-(-)			
23 J-9,AP-S1A-9			16
24 J-10,AP-S1A-6			
25 J-11,AP-S1A-3			
26 J-12,AP-S2A-9			
27 J-13,AP-S2A-6			
28 J-14,AP-S2A-3			
500 J-15,AP-S2A-2			
19 J-16,AP-12			
38 J1-1,SS1-14		BLK	22
39 J1-2,SS1-13			
35 J1-3,AP-5			16
41 J1-4,AP-CCA-A			
42 J1-5,AP-CCA-7			
43 J1-6,AP-CCA-4			
52 J1-11,AP-S2PI-9			
53 J1-12,AP-S2PI-6			
54 J1-13,AP-S2PI-3			
55 J1-14,AP-PCR-12			
56 J1-15,AP-S2PI-A			
57 J1-16,AP-PCR-14			
650 J2-1,AP-SSR-81			
36 J2-2,AP-7			

3 ← HARNESS LOCATOR			
WIRE No.	PLUG P,P1	CLR	AWG
600 P-1,S2-3			16
601 P-2,S2-1			
17 P-3,TS-3			
18 P-4,TS-1			
19 P-5,AUX-117			
20 P-6,AUX-118			
21 P-7,AUX-94			
22 P-8,AUX-101			
23 P-9,TB-21			
24 P-10,TB-22			
25 P-11,TB-23			
26 P-12,TB-24			
27 P-13,TB-25			
28 P-14,TB-26			
500 P-15,TB-27			
19 P-16,TB-28			
38 P1-1,TB-29			
39 P1-2,TB-30			
35 P1-3,TB-31			
41 P1-4,TB-32			
42 P1-5,TB-33			
43 P1-6,TB-34			
52 P1-11,TB-35			
53 P1-12,TB-36			
54 P1-13,TB-37			
55 P1-14,TB-38			
56 P1-15,TB-39			
57 P1-16,TB-40			

7 ← HARNESS LOCATOR			
WIRE No.	PLUG P2	CLR	AWG
650 P2-1,52S2-OF1-11			16
36 P2-2,52S2-OF1-14			

AP ← HARNESS LOCATOR			
WIRE No.	WIRING (AP 621600-387)	CLR	AWG
6	REMOVE CONNECTION FROM AP		16
6	AP-7,P22-7		
650	ADD CONNECTION TO AP		
P22-7,AP-SSR-81			

1 ← HARNESS LOCATOR			
WIRE No.	WIRING (TB, AUX)	CLR	AWG
19 AUX-117,AUX-93			16
19 AUX-93,AUX-126			
47 AUX-102,AUX-125			
8 TB-15,AUX-89			
9 TB-16,AUX-90			
10 TB-17,AUX-113			
11 TB-18,AUX-114			
9 TB-19,AUX-128			
13 TB-20,AUX-104			
14 AUX-127,AUX-103			
59 TB-39,TB-40	JUMPER		

5 ← HARNESS LOCATOR			
WIRE No.	WIRING (AP)	CLR	AWG
35 AP-6,PL1-(+)		RED	22
35 PL1-(+),PL2-(+)			
35 PL2-(+),PL5-(+)			

D

C

B

A

D

C

B

A

WIRE RUN LISTING

135L

72EE

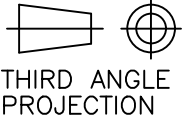
1 HARNESS LOCATOR			
WIRE No.	PLUG PA	CLR	AWG
565	PA-7,AUX-115		16
566	PA-8,AUX-116		
300	PA-9,TS-9		
301	PA-10,TS-10		
302	PA-11,TS-11		
304	PA-12,(SEE ADD'L WIRES 135L)		

6 HARNESS LOCATOR			
WIRE No.	JACK JA	CLR	AWG
565	JA-7,DPM-J3-2		16
566	JA-8,DPM-J3-1		
300	JA-9,FU1-1		
301	JA-10,FU2-1		
302	JA-11,FU3-1		
304	JA-12,(SEE ADD'L WIRES 135L)		

ADD  HARNESS LOCATOR			
WIRE No.	ADDITIONAL WIRING	CLR	AWG
553	CT1-X1,SB-1		16
554	CT2-X1,SB-3		
555	CT3-X1,SB-5		
556	CT1-X2,CT2-X2	BLK	
556	CT2-X2,CT3-X2	BLK	
556	CT3-X2,SB-7	BLK	
556	SB-7,EQUIP. GND.	GRN	
553	SB-2,DPM-TB2-1		
554	SB-4,DPM-TB2-3		
555	SB-6,DPM-TB2-5		
556	SB-8,DPM-TB2-2		
556	DPM-TB2-2,DPM-TB2-4		
556	DPM-TB2-4,DPM-TB2-6		
556	EQUIP. GND.,DPM-GND.	GRN	
560	DPM-TB1-1,FU1-2		
561	DPM-TB1-2,FU2-2		
562	DPM-TB1-3,FU3-2		
ONLY IF ACCESSORY 170*** IS AVAILABLE			
502	DPM-J6-1,AP-S1A-8		
19	DPM-J6-2,AP-12		

WIRE No.	ADDL. WIRING (135LA1) W/NEUTRAL MONITORING	CLR	AWG
304	PA-12,TS-12		16
304	JA-12,DPM-TB1-4		
557	CT4-X1,SB-9		
557	SB-10,DPM-TB2-7		
556	CT4-X2,CT1-X2	BLK	
556	DPM-TB2-8,DPM-TB2-6		

ADD HARNESS LOCATOR			
WIRE No.	ADDITIONAL WIRING 72EE	CLR	AWG
ONLY IF ACCESSORY 170*** IS AVAILABLE			
35	72EE-1(+),AP-6	RED	22
19	72EE-2(-),AP-12	BLK	

PROJECT NAME:				REV. TO SHEET	ECN NO.	BY	APP.	DATE
WIRING				DIAGRAM				
300 SERIES (H3MGQ) 3PH 800-1200 AMPS								
"H" FRAME, MANUALLY OPERATED TS				 THIRD ANGLE PROJECTION				
DRAWN BY	BY	DATE	MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-I-003. FOR PLASTIC PARTS SEE MP-I-055		ASSEM. REF. NO.		COMPUTER GENERATED DRAWING	
CHECKED	NS	04/22/22	PROPERTY OF ASCO POWER TECHNOLOGIES. USE PERMITTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.		SCALE 1:1		SIZE DS	
PROJECT APPROVAL	JPB	04/22/22	DWG. NO. 1190077					
FINAL APPROVAL			ASCOREG ASCO POWER TECHNOLOGIES, LP. FLORHAM PARK, NEW JERSEY 07932 U.S.A.		DRAWING A REV. A ECN NO. 297830 SHEET 9 OF 9			