

FIELD CONNECTIONS BASE

FIELD CONNECTIONS FOR OPTIONAL ACCESSORIES

D

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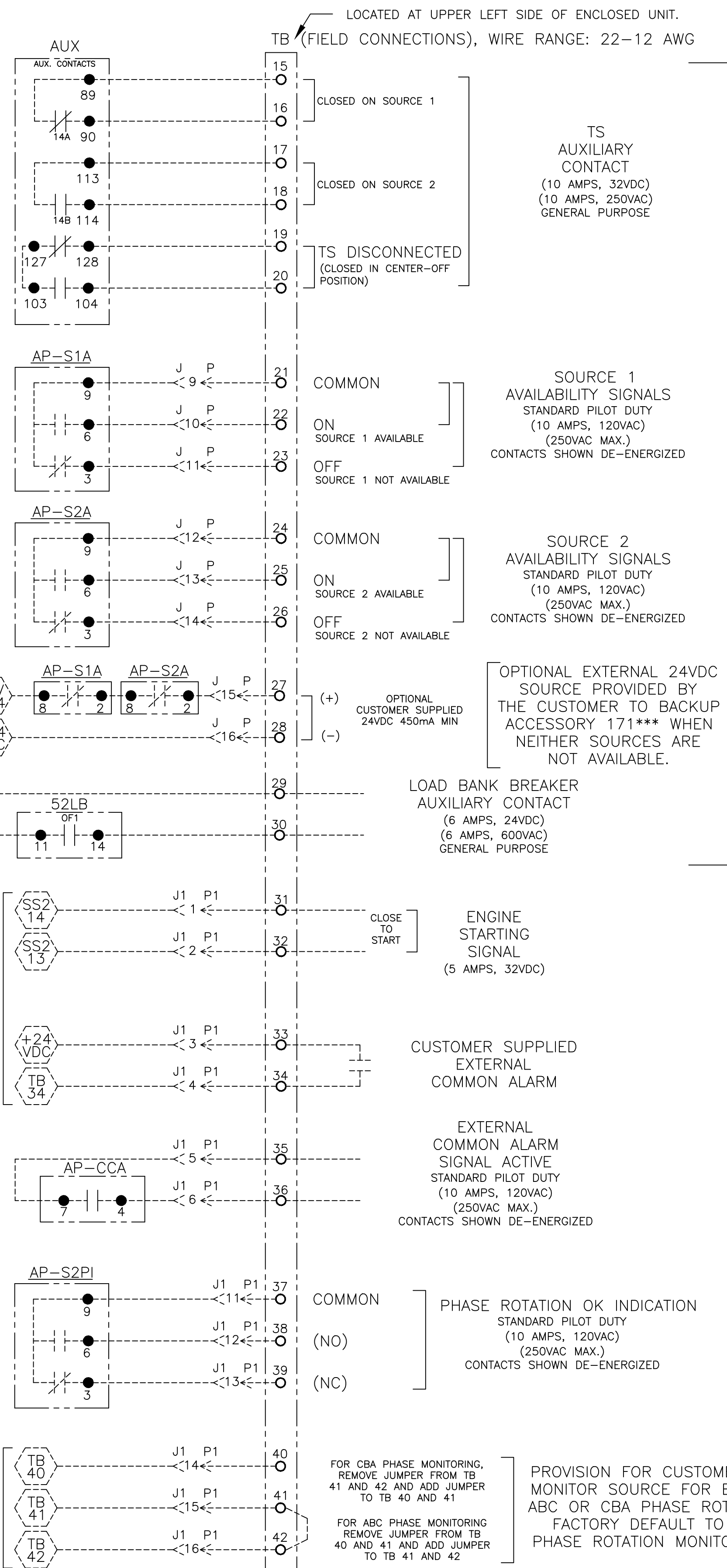
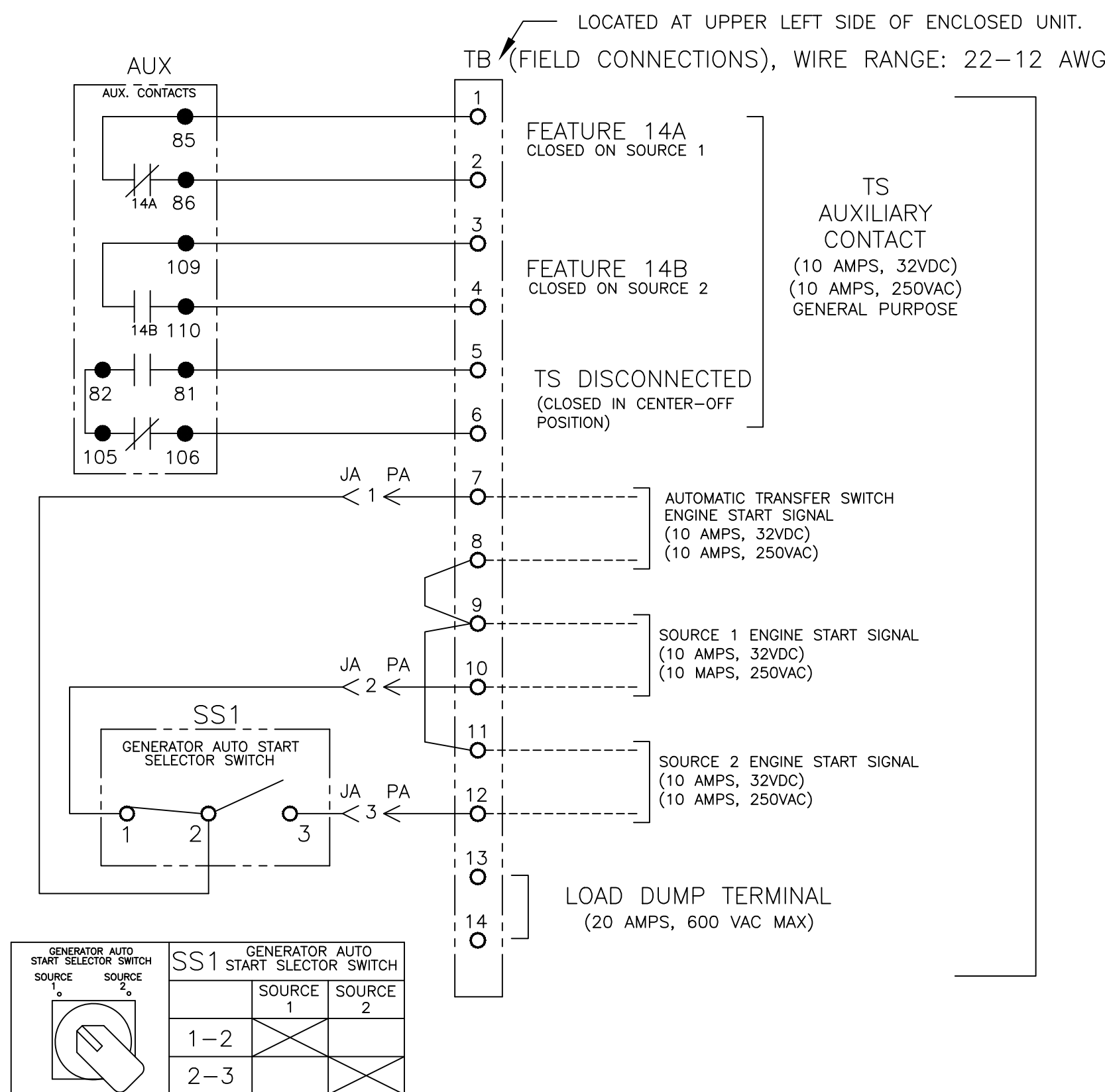
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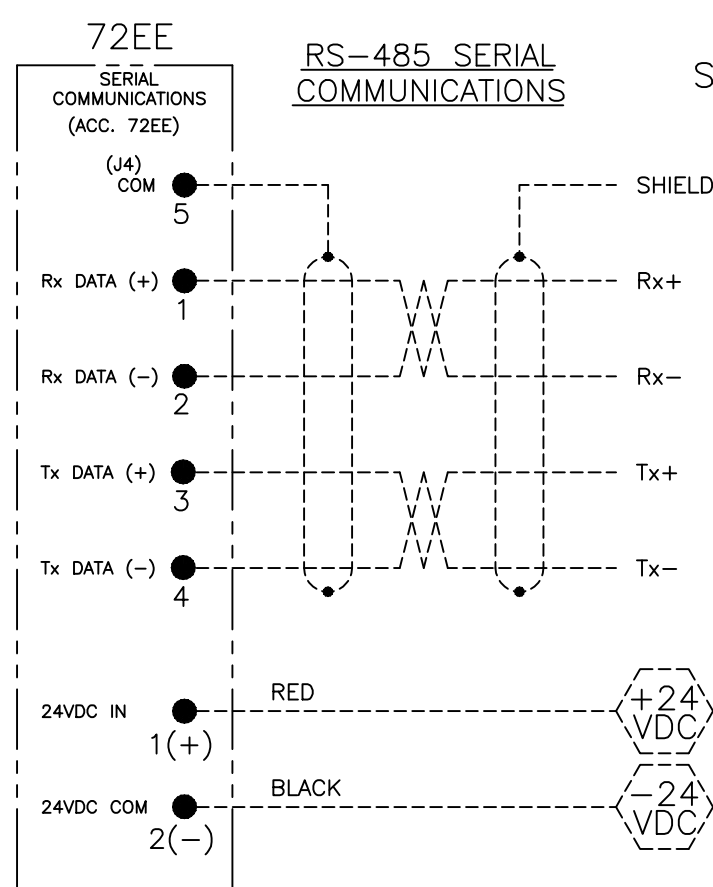


ACCESSORY
171B

ACCESSORY
171E OR 171K

NOTE B:
ACCESSORIES
171BP INCLUDE 171B PLUS 171*P
171EP INCLUDE 171E PLUS 171*P
171KP INCLUDE 171K PLUS 171*P

ACCESSORY
171*P
REFER TO NOTE B



TO OTHER
ASCO
SERIAL
COMMUNICATIONS
DEVICES

72EE NOTES:

1. EARTH GROUND SHIELD AT HOST DEVICE ONLY.
2. FIELD WIRING: USE UL LISTED, STRANDED, TWISTED PAIRS, OVERALL FOIL SHIELD WITH STRANDED DRAIN WIRE SUITABLE FOR RS-422 EQUIVALENT TO:

(STANDARD 80°C) BELDEN 9842 OR 9829
OR ALPHA 6202C OR 6222C

(PLENUM RATED) BELDEN 89729 OR 82729
OR ALPHA 58902

ACCESSORY
72EE
(ONLY AVAILABLE WITH ACC. 171***)

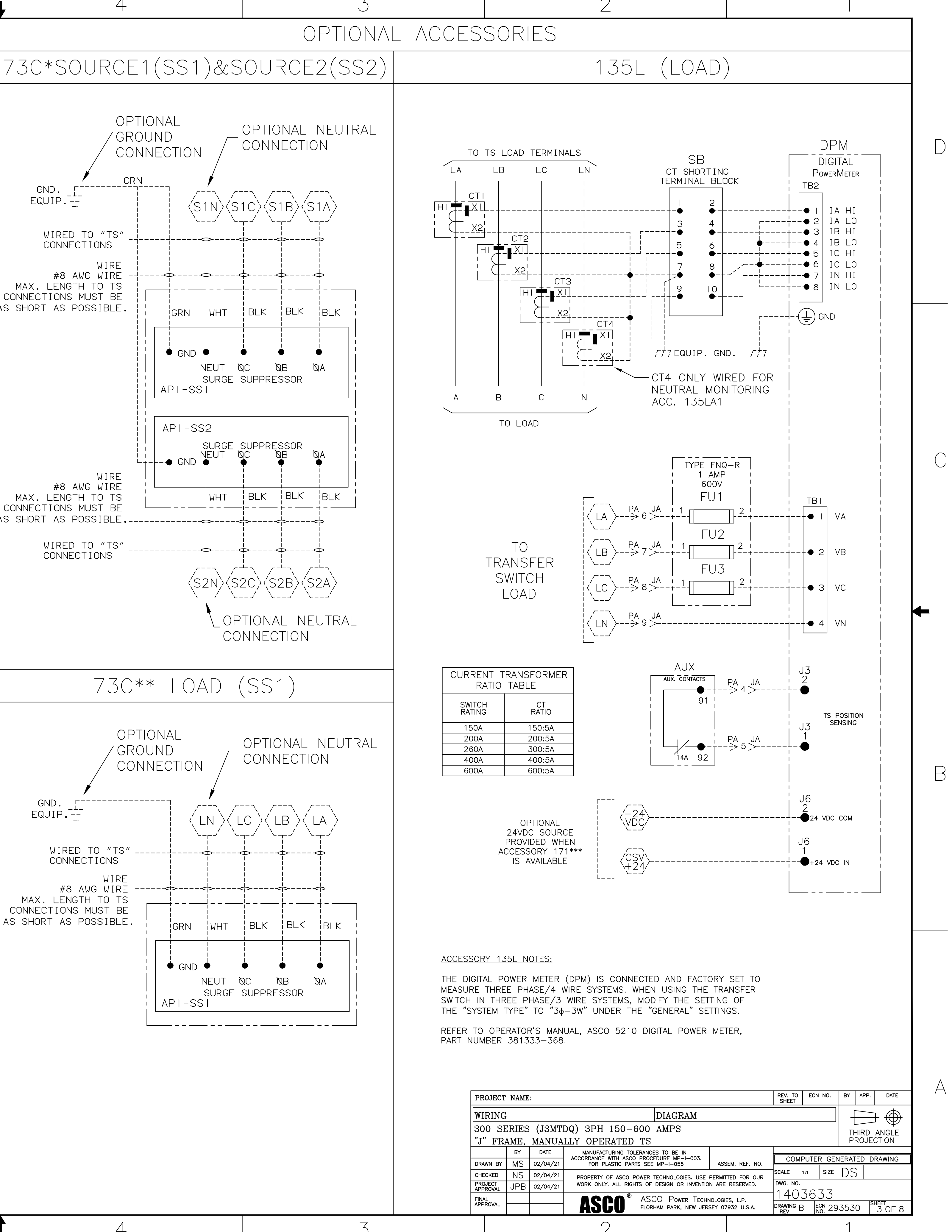
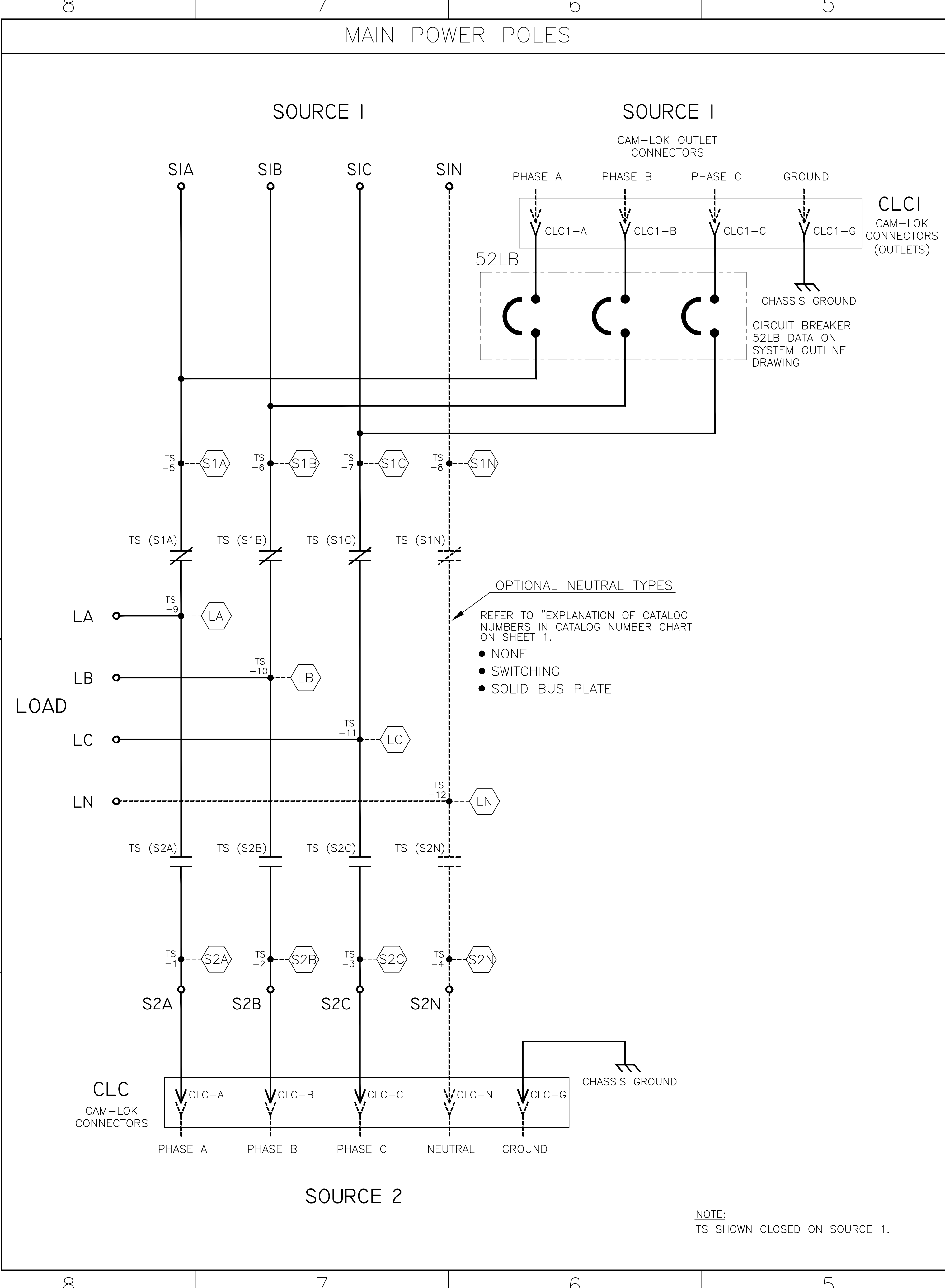
PROJECT NAME:				REV. TO SHEET	ECN NO.	BY	APP.	DATE
WIRING				DIAGRAM				
300 SERIES (J3MTDQ) 3PH 150-600 AMPS								
"J" FRAME, MANUALLY OPERATED TS								
				THIRD ANGLE PROJECTION				
DRAWN BY	MS	DATE	02/04/21	MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-1-003. FOR PLASTIC PARTS SEE MP-1-005		ASSEM. REF. NO.		
CHECKED	NS	DATE	02/04/21	PROPERTY OF ASCO POWER TECHNOLOGIES, USE PERMITTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.				
PROJECT APPROVAL	JPB	DATE	02/04/21					
FINAL APPROVAL								
				COMPUTER GENERATED DRAWING				
				SCALE	1:1	SIZE	DS	
				DWG. NO. 1403633				
				DRAWING B	ECN NO.	293530	SHEET 2 OF 8	

D

C

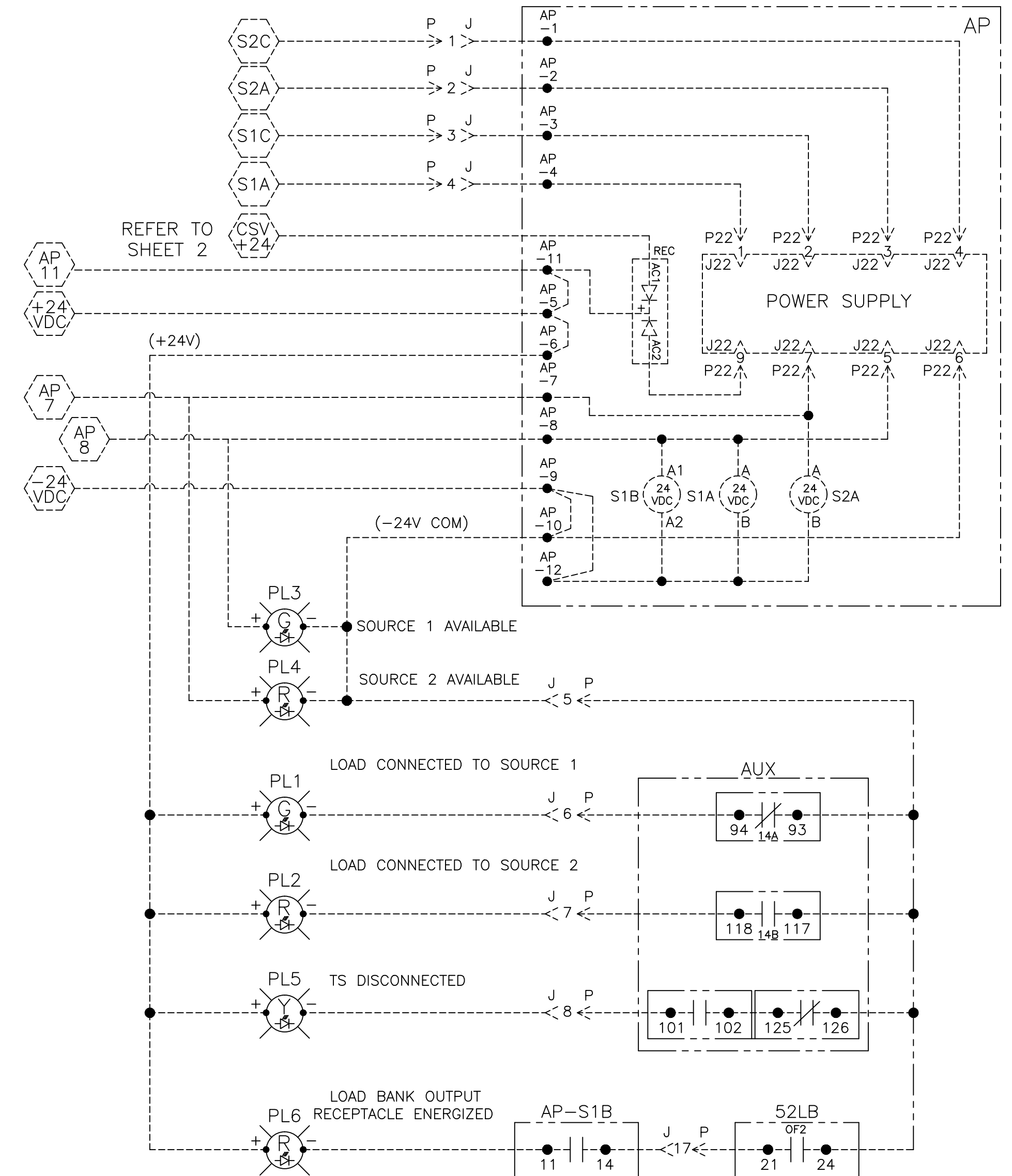
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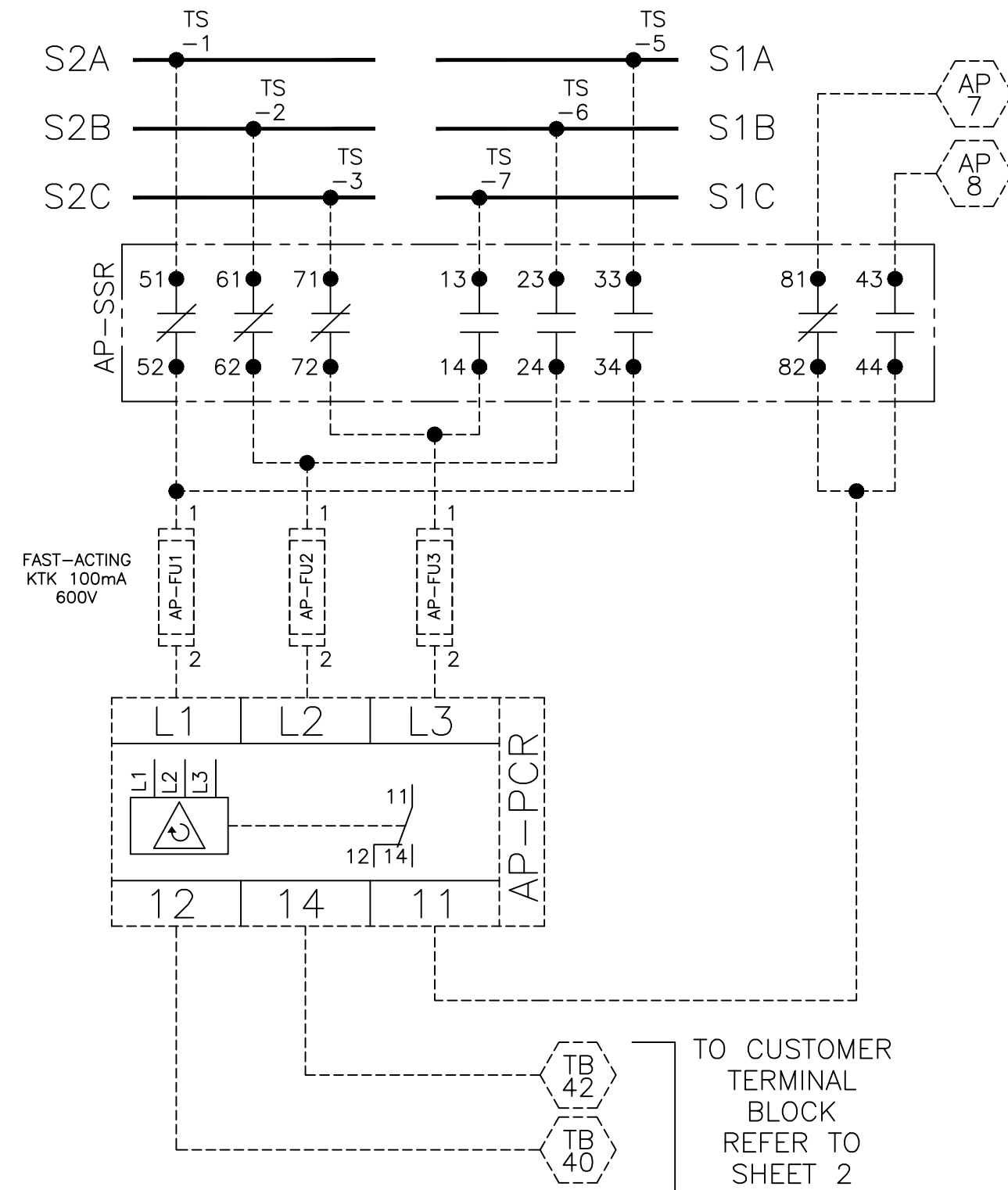
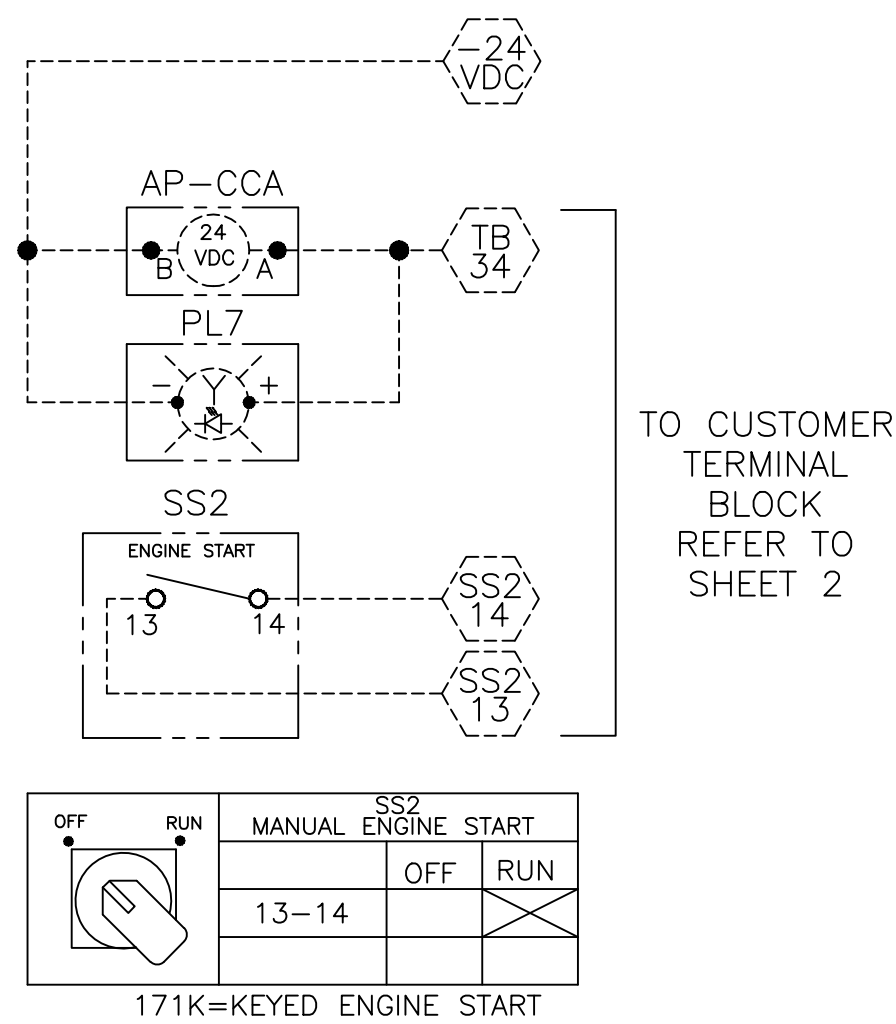


171B CIRCUIT

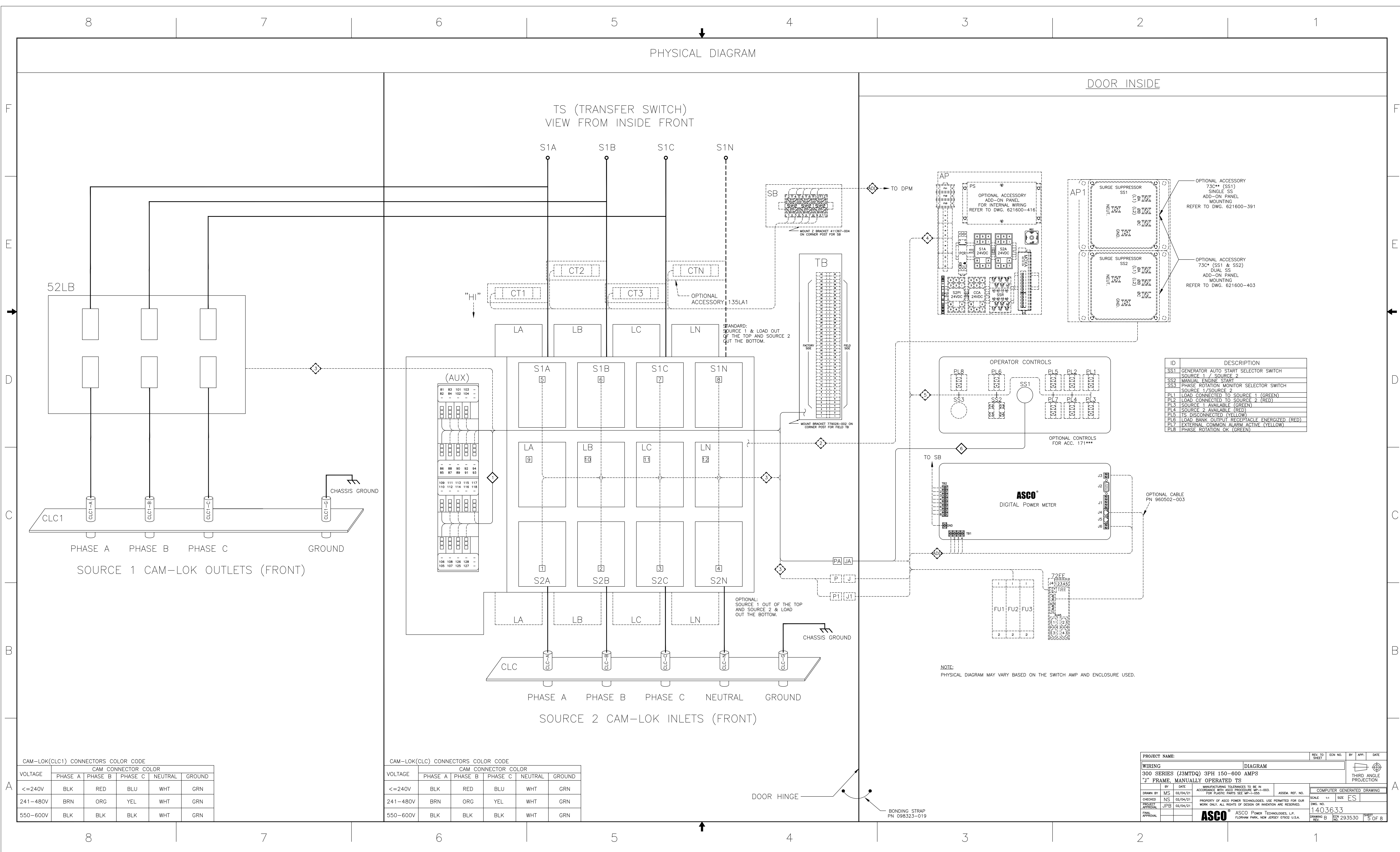
Figure 1 is a schematic diagram of the power supply system for the 1000V motor. The diagram shows a power supply unit (SS3) connected to a motor (AP-SSR) via a phase rotation switch (PL8) and a terminal block (TB 41). The motor is connected to a 24VDC source (AP-S2PI) and a 24VDC source (AP-SSR). The motor is labeled "TO CUSTOMER TERMINAL BLOCK REFER TO SHEET 2".



171*P CIRCUIT

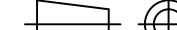
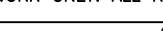


PROJECT NAME:				REV. TO SHEET		ECN NO.		BY		APP.		DATE	
WIRING 300 SERIES (J3MTDQ) 3PH 150-600 AMPS "J" FRAME, MANUALLY OPERATED TS				DIAGRAM  THIRD ANGLE PROJECTION									
DRAWN BY		MS		DATE		02/04/21		MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-1-003. FOR PLASTIC PARTS SEE MP-1-005.					
CHECKED		NS		DATE		02/04/21		PROPERTY OF ASCO POWER TECHNOLOGIES, INC. USE PERMITTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.					
PROJECT APPROVAL		JPB		DATE		02/04/21		ASCO POWER TECHNOLOGIES, L.P. FLORHAM PARK, NEW JERSEY 07932 U.S.A.					
FINAL APPROVAL								COMPUTER GENERATED DRAWING SCALE 1:1 SIZE DS DWG. NO. 1403633 DRAWING BY ECN NO. 293530 SHEET 4 OF 8					



WIRE RUN LISTING

[illegible]

PROJECT NAME:				REV. TO SHEET	ECON NO.	BY	APP.	DATE
WIRING 300 SERIES (J3MTDQ) 3PH 150-600 AMPS "J" FRAME, MANUALLY OPERATED TS				DIAGRAM  THIRD ANGLE PROJECTION				
BY DATE MS 02/04/21 MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-1-003. FOR PLASTIC PARTS SEE MP-1-055				ASSEM. REF. NO.				
CHECKED NS 02/04/21 PROPERTY OF ASCO POWER TECHNOLOGIES, INC. USE PERMITTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.				SCALE GENERATED DRAWING COMPUTER 1:1 SIZE DS DWG. NO. 1403633				
PROJECT APPROVAL JPB 02/04/21				DRAWING NO. B ECON 293530 SHEET 6 OF 8				
FINAL APPROVAL				 ASCO POWER TECHNOLOGIES, L.P. FLORENCE PARK, NEW JERSEY 07932 U.S.A.				

WIRE RUN LISTING

D

C

B

A

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C

B

A

171BP				
4 ← HARNESS LOCATOR				
WIRE No.	JACK J,J1	CLR	AWG	
15	J-1,AP-1		16	
16	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-(-)			
71	PL6-(-),AP-S1B-11		16	
23	J-9,AP-S1A-9			
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			
72	J-17,AP-S1B-14			
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			
3 ← HARNESS LOCATOR				
WIRE No.	PLUG P,P1	CLR	AWG	
15	P-1,TS-3		16	
16	P-2,TS-1			
17	P-3,TS-7			
18	P-4,TS-5			
19	P-5,AUX-117			
20	P-6,AUX-94			
21	P-7,AUX-118			
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			
72	P-17,52LB-21			
69	52LB-11,TB-29			
70	52LB-14,TB-30			
52	P1-11,TB-37			
53	P1-12,TB-38			
54	P1-13,TB-39			
55	P1-14,TB-40			
56	P1-15,TB-41			
57	P1-16,TB-42			
1 ← HARNESS LOCATOR				
WIRE No.	WIRING (TB, AUX)	CLR	AWG	
19	AUX-117,AUX-93		16	
19	AUX-93,AUX-126			
19	AUX-126,52LB-24			
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-41,TB-42 (FIELD SIDE JUMPER)			
5 ← HARNESS LOCATOR				
WIRE No.	WIRING (AP)	CLR	AWG	
35	AP-6,PL1-(+)		22	
35	PL1-(+),PL2-(+)	RED		
35	PL2-(+),PL5-(+)			
35	PL6-(+),PL5-(+)			
36	AP-7,PL4-(+)			
37	AP-8,PL3-(+)			
19	AP-10,PL3-(-)	BLK		
19	PL3-(-),PL4-(-)			
56	AP-S2PI-A,PL8-(+)	RED		
19	AP-S2PI-B,PL8-(-)	BLK		
45	J1-8,AP-MOXA-D11			
46	J1-9,AP-MOXA-D12			
19	AP-12,AP-SSR-A2			
19	AP-SSR-A2,AP-S2PI-B			
36	AP-7,AP-SSR-81			
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			
651	AP-PCR-L2,AP-FU2-2			
63	AP-PCR-L3,AP-FU3-2			
16	AP-SSR-51,TS-1			
205	AP-SSR-61,TS-2			
15	AP-SSR-71,TS-3			
17	AP-SSR-13,TS-7			
206	AP-SSR-23,TS-6			
18	AP-SSR-33,TS-5			
207	AP-SSR-82,AP-SSR-44			
207	AP-SSR-82,AP-PCR-11			
37	AP-SSR-43,AP-8			
35	AP-11,SS3-3			
208	AP-SSR-A1,SS3-2			
501	AP-S1A-2,AP-S2A-8			
500	AP-S1A-8,AP-REC-AC1			

171BP1				
4 ← HARNESS LOCATOR				
WIRE No.	JACK J,J1	CLR	AWG	
15	J-1,AP-1		16	
16	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-(-)			
71	PL6-(-),AP-S1B-11		16	
23	J-9,AP-S1A-9			
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			
72	J-17,AP-S1B-14			
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			
3 ← HARNESS LOCATOR				
WIRE No.	PLUG P,P1	CLR	AWG	
15	P-1,TS-3		16	
16	P-2,TS-1			
17	P-3,TS-7			
18	P-4,TS-5			
19	P-5,AUX-117			
20	P-6,AUX-94			
21	P-7,AUX-118			
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			
72	P-17,52LB-21			
69	52LB-11,TB-29			
70	52LB-14,TB-30			
44	P1-7,AUX-88			
45	P1-8,AUX-112			
46	P1-9,AUX-108			
35	P1-10,AUX-111			
52	P1-11,TB-37			
53	P1-12,TB-38			
54	P1-13,TB-39			
55	P1-14,TB-40			
56	P1-15,TB-41			
57	P1-16,TB-42			
3 ← HARNESS LOCATOR				
WIRE No.	PLUG P,P1	CLR	AWG	
15	P-1,TS-3		16	
16	P-2,TS-1			
17	P-3,TS-7			
18	P-4,TS-5			
19	P-5,AUX-117			
20	P-6,AUX-94			
21	P-7,AUX-118			
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			
72	P-17,52LB-21			
69	52LB-11,TB-29			
70	52LB-14,TB-30			
44	P1-7,AUX-88			
45	P1-8,AUX-112			
46	P1-9,AUX-108			
35	P1-10,AUX-111			
52	P1-11,TB-37			
53	P1-12,TB-38			
54	P1-13,TB-39			
55	P1-14,TB-40			
56	P1-15,TB-41			
57	P1-16,TB-42			

171EP OR 171KP				
4 ← HARNESS LOCATOR				
WIRE No.	JACK J,J1	CLR	AWG	
15	J-1,AP-1		16	
16	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-(-)			
71	PL6-(-),AP-S1B-11		16	
23	J-9,AP-S1A-9			
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			
72	J-17,AP-S1B-14			
38	J1-1,SS2-14		22	
39	J1-2,SS2-13	BLK		
35	J1-3,AP-5		16	
41	J1-4,AP-CCA-A			
42	J1-5,AP-CCA-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			
3 ← HARNESS LOCATOR				
WIRE No.	PLUG P,P1	CLR	AWG	
15	P-1,TS-3		16	
16	P-2,TS-1			
17	P-3,TS-7			
18	P-4,TS-5			
19	P-5,AUX-117			
20	P-6,AUX-94			
21	P-7,AUX-118			
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			
72	P-17,52LB-21			
69	52LB-11,TB-29			
70	52LB-14,TB-30			
38	P1-1,TB-31			
39	P1-2,TB-32			
35	P1-3,TB-33			
41	P1-4,TB-34			
42	P1-5,TB-35			
43	P1-6,TB-36			
52	P1-11,TB-37			
53	P1-12,TB-38			
54	P1-13,TB-39			
55	P1-14,TB-40			
56	P1-15,TB-41			
57	P1-16,TB-42			

171KP					
4 ← HARNESS LOCATOR					
WIRE No.	WIRING (TB, AUX)	CLR	AWG		
19	AUX-117,AUX-93		16		
19	AUX-93,AUX-126				
19	AUX-126,52LB-24				
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-41,TB-42 (FIELD SIDE JUMPER)				
5 ← HARNESS LOCATOR					
WIRE No.	WIRING (AP)	CLR		AWG	
35	AP-6,PL1-(+)		22		
35	PL1-(+),PL2-(+)	RED			
35	PL2-(+),PL5-(+)				
35	PL6-(+),PL5-(+)				
36	AP-7,PL4-(+)				
37	AP-8,PL3-(+)				
19	AP-10,PL3-(-)	BLK			
19	PL3-(-),PL4-(-)				
56	AP-S2PI-A,PL8-(+)	RED			
19	AP-S2PI-B,PL8-(-)	BLK			
41	AP-CCA-A,PL7-(+)	RED			
19	AP-CCA-B,PL7-(-)	BLK			
19	AP-CCA-B,AP-9			16	
19	AP-12,AP-SSR-A2				
19	AP-SSR-A2,AP-S2PI-B				
36	AP-7,AP-SSR-81				
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				
651	AP-PCR-L2,AP-FU2-2				
63	AP-PCR-L3,AP-FU3-2				
16	AP-SSR-51,TS-1				
205	AP-SSR-61,TS-2				
15	AP-SSR-71,TS-3				
17	AP-SSR-13,TS-7				
206	AP-SSR-23,TS-6				
18	AP-SSR-33,TS-5				
207	AP-SSR-82,AP-SSR-44				
207	AP-SSR-82,AP-PCR-11				
37	AP-SSR-43,AP-8				
35	AP-11,SS3-3				
208	AP-SSR-A1,SS3-2				
501	AP-S1A-2,AP-S2A-8				
500	AP-S1A-8,AP-REC-AC1				
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A

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B

A

WIRE RUN LISTING

135L

72EE

1 HARNESS LOCATOR			
WIRE No.	PLUG PA	CLR	AWG
565	PA-4,AUX-91		16
566	PA-5,AUX-92		
300	PA-6,TS-9		
301	PA-7,TS-10		
302	PA-8,TS-11		
304	PA-9,(SEE ADD'L WIRES 135L)		

6 HARNESS LOCATOR			
WIRE No.	JACK JA	CLR	AWG
565	JA-4,DPM-TB2-1		16
566	JA-5,DPM-TB2-1		
300	JA-6,FU1-1		
301	JA-7,FU2-1		
302	JA-8,FU3-1		
304	JA-9,(SEE ADD'L WIRES 135L)		

ADD ← HARNESS LOCATOR		
WIRE No.	ADDITIONAL WIRING	CLR
553	CT1-X1,SB-1	
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 171*** IS AVAILABLE		
500	DPM-J6-1,AP-S1A-8	
19	DPM-J6-2,AP-12	

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

ADD HARNESS LOCATOR			
WIRE No.	ADDITIONAL WIRING 72EE	CLR	AWG
ONLY IF ACCESSORY 171*** IS AVAILABLE			
35	72EE-1(+),AP-6	RED	22
19	72EE-2(-),AP-12	BLK	(2 COND)

PROJECT NAME:				REV. TO SHEET	ECN NO.	BY	APP.	DATE
WIRING				DIAGRAM				
300 SERIES (J3MTDQ) 3PH 150-600 AMPS								
"J" FRAME, MANUALLY OPERATED TS								
DRAWN BY	MS	02/04/21	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	
CHECKED	NS	02/04/21	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	02/04/21				DWG. NO.	1403633	
FINAL APPROVAL						DRAWING B	ECN NO. 293530	SHEET 8 OF 8

**ASCO**[®] ASCO POWER TECHNOLOGIES, L.P.
FLORHAM PARK, NEW JERSEY 07932 U.S.A.