

D

FIELD CONNECTIONS

FEATURE 7
CLOSES TO START

COMMON

FEATURE 8
OPENS TO START

-
- The diagram shows a control panel (CP) with three terminals: TB7-4, TB7-5, and TB7-6. A normally closed contact (NR) is connected between TB7-4 and TB7-5. A normally open contact (NR) is connected between TB7-5 and TB7-6. The label 'ENGINE START SIGNAL' is at the bottom.

ACCESSORY 14A CLOSED ON PREFERRED	OPTIONAL (FIELD INSTALLED KIT) TS AUXILIARY CONTACTS ACCESSORY 14A & 14B (10 AMPS, 32VDC) (10 AMPS, 480VAC) GENERAL PURPOSE
ACCESSORY 14B CLOSED ON ALTERNATE	

OPTIONAL
(FIELD INSTALLED KIT)
ENCLOSURE HEATER
ACCESSORY 44A
CUSTOMER PROVIDED POWER
SUPPLY 120 VAC, 100 WATTS

CP

REMOTE TEST		REMOTE BYPASS TRANSFER TIME DELAY TO PREFERRED SOURCE		REMOTE TRANSFER TO ALTERNATE SOURCE	
○ TB6-1	○ TB6-2	○ TB6-5	○ TB6-6	○ TB7-1	○ TB7-2
FACTORY CONNECTION ONLY		FACTORY CONNECTION ONLY		FACTORY CONNECTION ONLY	

C

B

TS FRAME	BASE	CATALOG	NUMBER	CATALOG NUMBER SUFFIXES				EXPLANATION OF CATALOG NUMBER CODES							
	CATALOG TYPE	NEUTRAL TYPE	PHASE POLES	AMPS	VOLT CODE	CONTROLLER	OPTIONAL ACCESSORY	ENCLOSURE CODE	NEUTRAL TYPE		VOLTAGE CODES 1 PHASE (2 OR 3 WIRE) 50 OR 60 HZ	ENCLOSURE CODES			
									CODE	DESCRIPTION	CODE	NOMINAL VOLTAGE	CODE	TYPE	DESCRIPTION
D	185	A	2	100 200 230	F	4	X	C M	BLANK A	NONE SOLID	F	240	C M	1 3R	GENERAL PURPOSE, INDOOR OUTDOOR, RAINPROOF, SLEET & ICE RESISTANT SECURE TYPE: EXTERIOR DOOR WITH INTERNAL DEAD FRONT PANEL.
							BLANK FOR NONE								

REMOTE TEST FEATURE — REQUIRES A CUSTOMER SUPPLIED, NORMALLY CLOSED CONTACT. OPENING OF THE CONTACT SIMULATES A FAILURE OF THE PREFERRED SOURCE. THE TRANSFER SWITCH WILL REMAIN CONNECTED TO THE ALTERNATE SOURCE UNDER ALL CONDITIONS OF THE GENERATOR WHILE THE CONTACT IS OPEN.

REMOTE TRANSFER TO ALTERNATE SOURCE FEATURE — REQUIRES A CUSTOMER SUPPLIED, NORMALLY CLOSED CONTACT. OPENING OF THE CONTACT CAUSES ENGINE, STARTING AND TRANSFER TO THE ALTERNATE SOURCE. RECLOSURE OF THE CONTACT ACTIVATES THE RETRANSFER TO PREFERRED SOURCE DELAY FOLLOWED BY RETRANSFER TO THE PREFERRED SOURCE. IF THE ALTERNATE SOURCE FAILS WHILE THE TRANSFER SWITCH IS CONNECTED TO IT AND THE REMOTE CONTACT IS OPEN, THE TRANSFER SWITCH WILL RETRANSFER TO THE PREFERRED SOURCE.

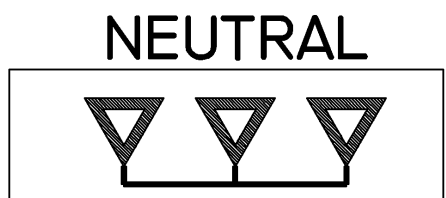
BYPASS TRANSFER TIME DELAY FEATURE — REQUIRES A CUSTOMER SUPPLIED, REMOTE, NORMALLY CLOSED CONTACT. OPENING OF THE CONTACT BYPASSES THE RETRANSFER TO PREFERRED SOURCE DELAY IF ACTIVE.

C	224029	DAJ	JPB	8/25/09
	SEE ECN			
B	221553	SDH	SDH	1/26/09
	SEE ECN			
A	221452	JPB	JPB	01/19/09
	SEE ECN			
—	219082	SDH	SDH	7/08
	ISSUE			

PROJECT NAME:				REV. TO	EON NO.	BY	APP.	DATE
WIRING				DIAGRAM		 THIRD ANGLE PROJECTION		
SERIES 185 ATS, SINGLE PHASE, 3 WIRE D FRAME TRANSFER SWITCH (100, 200, 230 AMPS) GROUP 4 CONTROLS								
DRAWN BY		SDH		DATE		7/08		MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-1-003. FOR PLASTIC PARTS SEE MP-1-055 PROPERTY OF ASCO POWER TECHNOLOGIES, USE PERMITTED FOR YOUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED. ASCO ASCO POWER TECHNOLOGIES, L.P. FLORENCE PARK, NEW JERSEY 07932 U.S.A. 844554
CHECKED		SDH		DATE		7/08		
PROJECT APPROVAL		SDH		DATE		7/08		
FINAL APPROVAL		SDH		DATE		7/08		
COMPUTER GENERATED DRAWING				SCALE 1:1 SIZE DS DWG. NO. 844554 DRAWING NO. EON 224029 SHEET 1 OF 2				

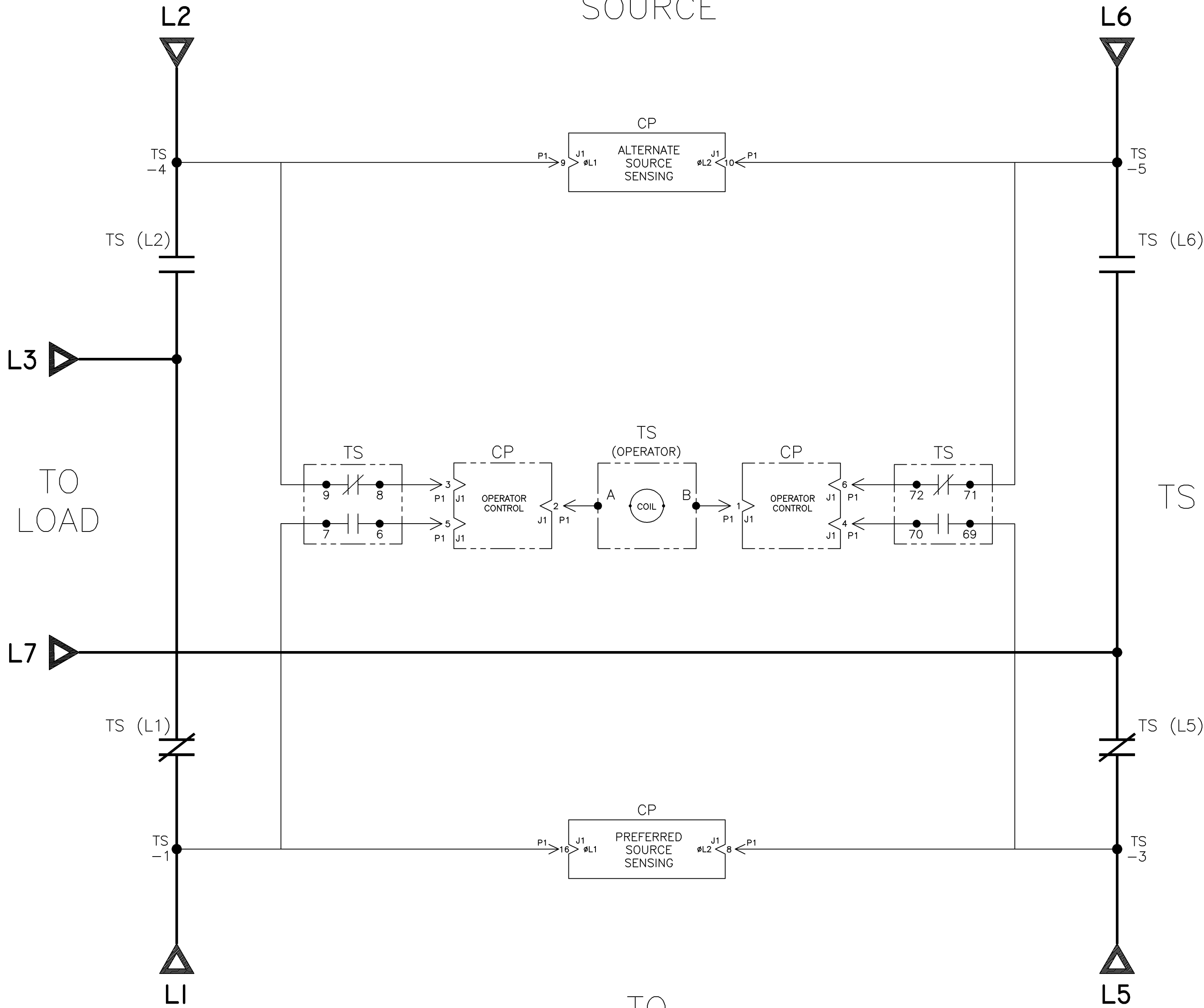
TRANSFER SWITCH POWER POLES, OPERATOR, AND SENSING

PHYSICAL DIAGRAM AND WIRING



NEUTRAL
TERMINAL
ASSEMBLY
ALTERNATE &
PREFERRED SOURCES
AND LOAD

TO
ALTERNATE
SOURCE

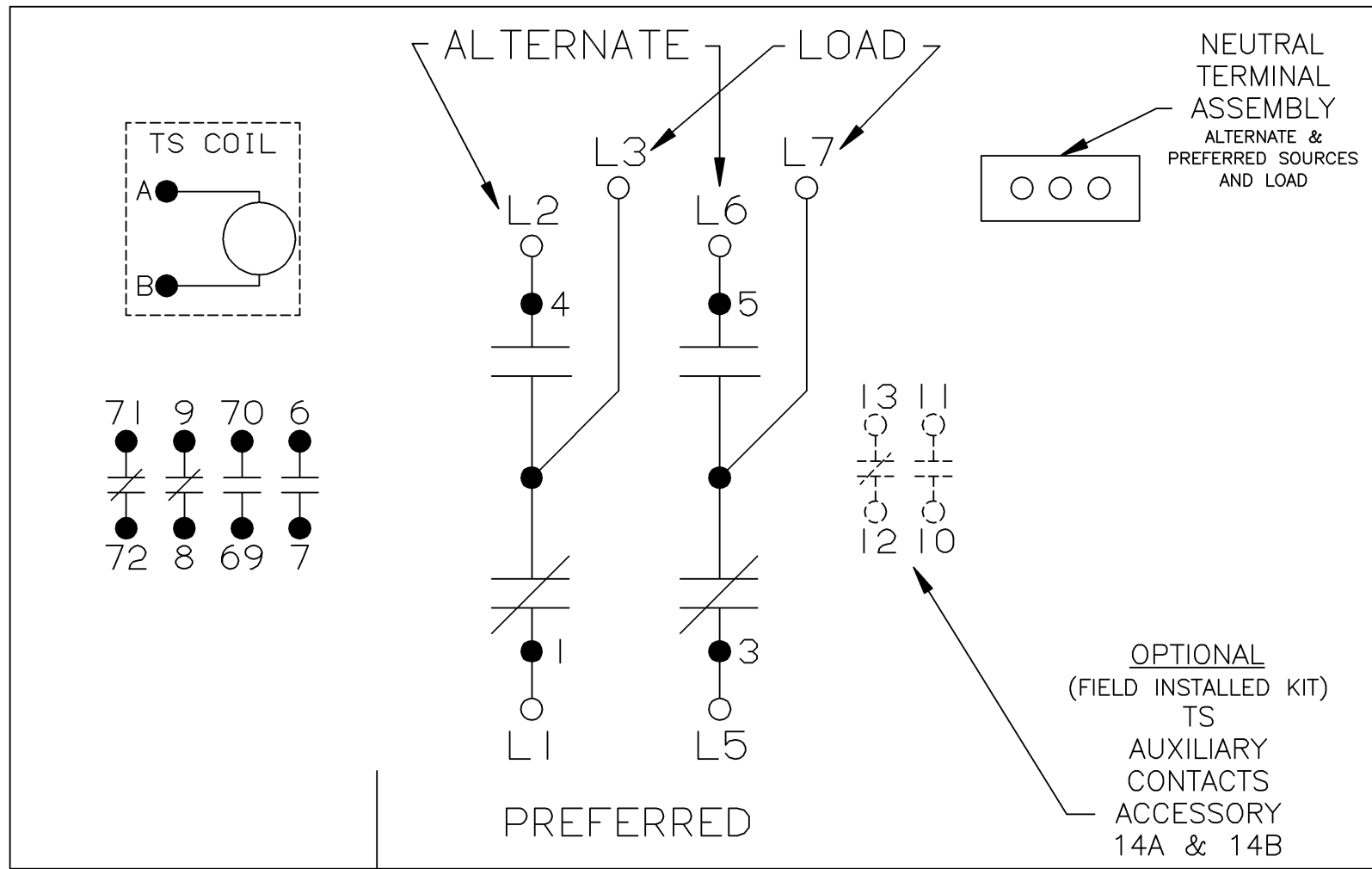


TO
PREFERRED
SOURCE

TS	TS CONTROL CONTACTS				SOLENOID POSITION
	CLOSED BEFORE PEF.	BEFORE TDC	>	<	
6-7					
69-70					
8-9					
71-72					
TDC (TOP DEAD CENTER)					

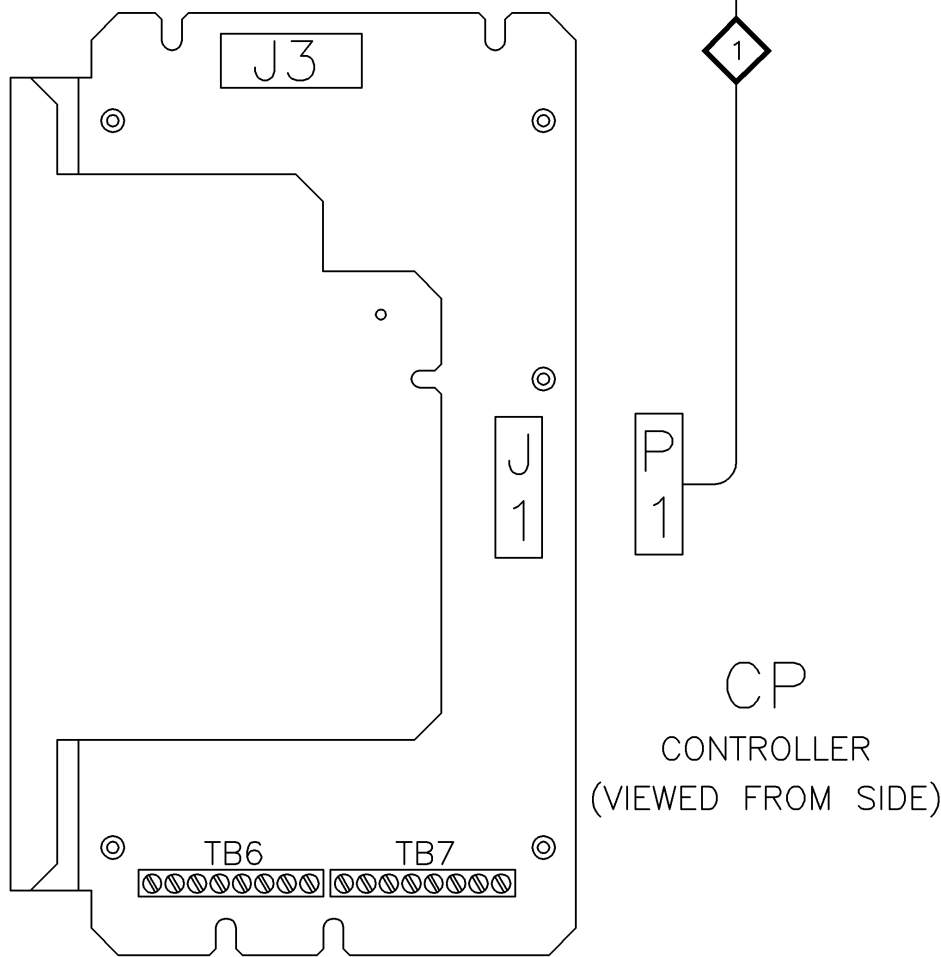
ATS SHOWN CLOSED ON PREFRRED SOURCE

TS
TRANSFER SWITCH



WIRE RUN LISTING

WIRE No.	702645-002 (P1,P2)	MAIN	TS	CLR	AWG
1	TS-8,P1-3				20
2	TS-B,P1-1				
3	TS-6,P1-5				
4	TS-3,P1-8				
5	TS-A,P1-2				
6	TS-5,P1-10				
7	TS-4,P1-9				
8	TS-1,P1-16				
9	TS-70,P1-4				
10	TS-72,P1-6				
11	TS-7,TS-1				
12	TS-69,TS-3				
13	TS-9,TS-4				
14	TS-71,TS-5				



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WIRING								
SERIES 185 ATS, SINGLE PHASE, 3 WIRE								
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CHECKED				PROPERTY OF ASCO POWER TECHNOLOGIES. USE PERMITTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.		COMPUTER GENERATED DRAWING		
PROJECT APPROVAL						SCALE 1:1 SIZE DS		
FINAL APPROVAL	SDH	DATE	7/08			DWG. NO. 844554		
						DRAWING REV. C ECN NO. 224029 SHEET 2 OF 2		

ASCO

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FLOHAM PARK, NEW JERSEY 07832 U.S.A.