

# THREE PHASE WIRING FOR ASCO 7000 SERIES AUTOMATIC DELAYED TRANSITION TRANSFER SWITCHES TYPE 7ADTS RATED 1000-3200 AMPERES

## FEATURES, SETTINGS, OPERATION, ACCESSORIES & NOTES

THE FOLLOWING FEATURES AND RELATED SETTINGS ARE PART OF THE GROUP 5 CONTROL PANEL'S USER CONFIGURABLE PARAMETERS. FOR DETAILED INFORMATION REGARDING THE CONFIGURATION OF THESE PARAMETERS AND OTHER FEATURES OF THE GROUP 5 CONTROL PANEL, REFER TO THE GROUP 5 CONTROL PANEL FOR ASCO 7000 SERIES AUTOMATIC TRANSFER SWITCHES USER'S GUIDE (PART NO. 381333-126) PROVIDED WITH EVERY 7000 SERIES AUTOMATIC TRANSFER SWITCH.

THE NOMINAL OPERATING VOLTAGE & FREQUENCY IS PRE-PROGRAMMED AT THE FACTORY BASED ON THE NAMEPLATE DATA PRINTED ON THE TRANSFER SWITCH & CONTROL PANEL NAMEPLATES.

### VOLTAGE & FREQUENCY SENSING

THE FOLLOWING SETTINGS ARE EXPRESSED AS A PERCENTAGE OF THE CONTROL PANEL'S NOMINAL VOLTAGE SETTING UNLESS STATED OTHERWISE. ALL SETTINGS ARE ADJUSTABLE IN INCREMENTS OF 1%.

A. RMS VOLTAGE SENSING ON ALL PHASES OF THE NORMAL & EMERGENCY SOURCES.

PARAMETER	RANGE OF SETTINGS	DEFAULT SETTING
NORMAL VOLTAGE DROPOUT	70-98%	85%
NORMAL VOLTAGE PICKUP	85-100%	90%
NORMAL OVER VOLTAGE TRIP	102-115%	OFF
NORMAL VOLTAGE UNBALANCE	YES/NO	NO
NORMAL VOLTAGE UNBALANCE DROPOUT	5-20% OF AVG. NORMAL VOLTAGE	20% (if ON)
NORMAL VOLTAGE UNBALANCE PICKUP	3-18% OF AVG. NORMAL VOLTAGE	10% (if ON)
EMERGENCY VOLTAGE DROPOUT	70-98%	75%
EMERGENCY VOLTAGE PICKUP	85-100%	90%
EMERGENCY OVER VOLTAGE TRIP	102-115%	OFF
EMERGENCY VOLTAGE UNBALANCE	YES/NO	NO
EMERGENCY VOLTAGE UNBALANCE DROPOUT	5-20% OF AVG. EMERGENCY VOLTAGE	20% (if ON)
EMERGENCY VOLTAGE UNBALANCE PICKUP	3-18% OF AVG. EMERGENCY VOLTAGE	10% (if ON)

B. FREQUENCY SENSING OF THE NORMAL & EMERGENCY SOURCES.

PARAMETER	RANGE OF SETTINGS	DEFAULT SETTING
NORMAL FREQUENCY DROPOUT	85-98%	90%
NORMAL FREQUENCY PICKUP	90-100%	95%
NORMAL OVER FREQUENCY TRIP	102-110%	OFF
EMERGENCY FREQUENCY DROPOUT	85-98%	90%
EMERGENCY FREQUENCY PICKUP	90-100%	95%
EMERGENCY OVER FREQUENCY TRIP	102-110%	OFF

### TIME DELAYS

THE FOLLOWING TIME DELAY SETTINGS ALL HAVE AN ADJUSTABLE RANGE OF 0-60 min 59 sec UNLESS STATED OTHERWISE. ADJUSTABLE IN INCREMENTS OF 1 sec.  
NOTE: SOME TIME DELAYS MAY BE EFFECTED BY CUSTOMER REQUESTED ACCESSORIES PROVIDED WITH THE UNIT. REFER TO THE DESCRIPTIONS PROVIDED UNDER THE "ACCESSORIES" NOTES ON THIS PAGE.

FEATURE	NAME	DEFAULT SETTING
1C	NORMAL SOURCE FAILURE TO ENGINE START	1 sec
2B	TRANSFER TO EMERGENCY ON AVAILABILITY OF EMERGENCY SOURCE	0 sec
1F	EMERGENCY SOURCE FAILURE RETRANSFER (NORMAL SOURCE AVAILABLE)	0 sec
2E	ENGINE COOLDOWN FOLLOWING RETRANSFER TO NORMAL	5 min
3A	RETRANSFER TO NORMAL (NORMAL FAILURE MODE)	30 min
3A	RETRANSFER TO NORMAL (TEST MODE)	30 sec
-	DELAYED TRANSFER (LOAD "OFF" TIME), [0-5 min 59 sec]	3 sec

DESCRIPTIONS OF TIME DELAYS:

- FEAT. 1C - DELAY ON NORMAL SOURCE OUTAGE. STARTS ON FAILURE OF NORMAL SOURCE. RESETS IF NORMAL SOURCE IS ACCEPTED BEFORE EXPIRATION. INHIBITS ENGINE STARTING AND AUTOMATIC TRANSFER UNTIL EXPIRATION.
- FEAT. 2B - DELAY PRIOR TO TRANSFER TO THE EMERGENCY SOURCE. DELAY STARTS ON EXPIRATION OF FEAT. 1C AND WHEN THE EMERGENCY SOURCE HAS BEEN ACCEPTED. DELAY RESETS IF THE EMERGENCY SOURCE FAILS PRIOR TO EXPIRATION. ON EXPIRATION, TRANSFER TO EMERGENCY IS INITIATED UNLESS THE NORMAL SOURCE HAS RECOVERED AND THE "COMMIT TO TRANSFER" FEATURE IS SET TO "NO" COMMIT. PROVIDES A PERIOD FOR EMERGENCY SOURCE STABILIZATION OR STAGING OF MULTIPLE TRANSFER SWITCH CONTROLLED LOADS TO THE EMERGENCY SOURCE.
- FEAT. 1F - DELAY ON RETRANSFER TO NORMAL IN THE EVENT OF EMERGENCY SOURCE FAILURE. DELAY BEGINS ON FAILURE OF THE EMERGENCY SOURCE IF THE NORMAL SOURCE IS ACCEPTABLE. ON EXPIRATION, RETRANSFER TO NORMAL WILL BE INITIATED.
- FEAT. 2E - DELAY ON ENGINE SHUTDOWN (ENGINE COOL DOWN PERIOD). DELAY STARTS FOLLOWING RETRANSFER TO THE NORMAL SOURCE. PROVIDES A PERIOD FOR THE ENGINE-GENERATOR SET TO RUN UNLOADED PRIOR TO SHUTDOWN.
- FEAT. 3A - RETRANSFER TO NORMAL DELAY (NORMAL FAILURE MODE)  
DELAY STARTS WHEN NORMAL SOURCE IS ACCEPTED (FOLLOWING IT'S FAILURE) AND WHILE THE LOAD IS CONNECTED TO EMERGENCY. RESETS IF NORMAL FAILS PRIOR TO EXPIRATION OR IF THE EMERGENCY SOURCE FAILS BEFORE EXPIRATION AND FEAT. 1F EXPIRES (AUTOMATIC BYPASS ON EMERGENCY SOURCE FAILURE). PROVIDES A PERIOD FOR THE NORMAL SOURCE TO STABILIZE PRIOR TO RETRANSFER.
- FEAT. 3A - RETRANSFER TO NORMAL DELAY (TEST MODE)  
DELAY STARTS WHEN THE "TRANSFER TEST" SWITCH IS RESET TO "AUTO" (FOLLOWING A USER INITIATED TRANSFER TEST) AND WHILE THE LOAD IS CONNECTED TO EMERGENCY. RESETS IF NORMAL FAILS PRIOR TO EXPIRATION OR IF THE EMERGENCY SOURCE FAILS BEFORE EXPIRATION AND FEAT. 1F EXPIRES (AUTOMATIC BYPASS ON EMERGENCY SOURCE FAILURE).

DELAYED TRANSFER (LOAD "OFF" TIME) - PROVIDES A USER DEFINABLE PERIOD DURING WHICH THE LOAD IS DISCONNECTED FROM BOTH THE NORMAL AND EMERGENCY SOURCES DURING TRANSFER IN EITHER DIRECTION. THE DELAY ("OFF" PERIOD) BEGINS FOLLOWING THE OPENING OF THE SOURCE CONTACTOR, CN OR CE, CONNECTED TO THE SOURCE FROM WHICH TRANSFER IS BEING MADE. UPON EXPIRATION, CLOSURE OF THE OPPOSITE SOURCE CONTACTOR IS INITIATED.

### ENGINE EXERCISER

THE ENGINE EXERCISER FEATURE PROVIDES A MEANS TO PERFORM AUTOMATIC EXERCISING OF THE ENGINE-GENERATOR SET EITHER WITH OR WITHOUT LOAD TRANSFER. THE USER CAN PROGRAM UP TO SEVEN DIFFERENT EXERCISE ROUTINES. EACH ROUTINE INCLUDES:

- ENABLE OR DISABLE THE ROUTINE
- ENABLE OR DISABLE TRANSFER OF THE LOAD DURING THE ROUTINE
- SET START TIME OF ROUTINE -  
- TIME OF DAY  
- DAY OF WEEK  
- WEEK OF MONTH (1st, 2nd, 3rd, 4th, ALTERNATE OR ALL)
- SET THE DURATION OF THE ROUTINE

PARAMETER	RANGE OF SETTING	DEFAULT SETTING
MONTH (CLOCK SET)	JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC	CURRENT DATE
DAY	1-31	
YEAR	00-99	
HOUR	0-23	
MINUTE	0-59	
ENABLE ROUTINE (ROUTINE 1-7)	YES/NO	NO
TRANSFER LOAD	YES/NO	NO
START HOUR	0-23	0
START MINUTE	0-59	0
RUN WEEK	ALL, ALTERNATE, 1st, 2nd, 3rd, 4th, 5th	ALL
RUN DAY	SUN MON TUE WED THU FRI SAT	SUN
DURATION HOURS	0-23	0
DURATION MINUTES	0-59	0

### SIGNALS & AUXILIARIES

A. FEATURES 7 & 8- ENGINE START SIGNAL  
SIGNAL INITIATED BY DROPOUT OF CONTROL PANEL RELAY (NR) FOLLOWING EXPIRATION OF THE FEATURE 1C TIME DELAY (DELAY TO OVERRIDE MOMENTARY NORMAL SOURCE OUTAGES). FEATURE 7 CLOSURES TO SIGNAL ENGINE START. FEATURE 8 OPENS TO SIGNAL ENGINE START. ENGINE STARTING SIGNAL RESETS FOLLOWING RETRANSFER TO THE NORMAL SOURCE AND EXPIRATION OF THE FEATURE 2E (ENGINE COOL DOWN) TIME DELAY. FEATURES 7 & 8 ARE PROVIDED AS A SINGLE FORM C CONTACT CONNECTED TO THE FIELD CONNECTIONS TERMINAL BLOCK (TB). CONTACT RATED 10 AMPS AT 32 VDC/120 VAC RESISTIVE.

B. FEATURES 14AF & 14BF - TRANSFER SWITCH AUXILIARY POSITION INDICATING CONTACTS. SEVEN (7) FORM C CONTACTS TO INDICATE CONNECTION OF THE TRANSFER SWITCH TO NORMAL (14A) AND SEVEN (7) FOR EMERGENCY (14B). CONTACTS CONNECTED TO THE FIELD CONNECTIONS TERMINAL BLOCK (TB). CONTACTS RATED 10 AMPS, 32 VDC, 250 VAC.

C. FEATURE 17 - REMOTE TRANSFER TO EMERGENCY.  
REQUIRES A CUSTOMER SUPPLIED NORMALLY OPEN CONTACT. CLOSING OF THE CONTACT CAUSES ENGINE START AND TRANSFER TO THE EMERGENCY SOURCE. OPENING OF THE CONTACT ACTIVATES THE FEATURE 3A (RETRANSFER TO NORMAL) DELAY PRIOR TO RETRANSFER. IN THE EVENT THE EMERGENCY SOURCE FAILS WHILE THE TRANSFER SWITCH IS CONNECTED TO EMERGENCY AND THE REMOTE CONTACT IS CLOSED, THE TRANSFER SWITCH WILL RETRANSFER TO THE NORMAL SOURCE. CONNECTED TO THE FIELD CONNECTIONS TERMINAL BLOCK (TB).

### OPERATION

IF THE NORMAL SOURCE FAILS, THE TRANSFER SWITCH INITIATES STARTING OF THE ENGINE-GENERATOR SET. WHEN PROPER VOLTAGE AND FREQUENCY HAVE BEEN ATTAINED, THE LOAD WILL BE TRANSFERRED TO THE EMERGENCY SOURCE BY MEANS OF A DELAYED TRANSITION, (PROGRAMMED LOAD DISCONNECT PERIOD).

DELAYED TRANSITION TRANSFER TO EMERGENCY WILL CAUSE THE NORMAL SOURCE CONTACTOR (CN) TO OPEN. AFTER THE LOAD DISCONNECT DELAY, AS SET VIA THE USER INTERFACE OF THE GROUP 5 CONTROL PANEL, THE EMERGENCY SOURCE CONTACTOR (CE) WILL CLOSE. DURING THE PERIOD THAT BOTH CONTACTORS ARE OPEN AND THE TIME DELAY IS ACTIVE, A "LOAD DISCONNECT ACTIVE" LED WILL BE LIT (AMBER LED).

WHEN THE NORMAL SOURCE IS RESTORED FOR THE DURATION OF THE FEATURE 3A, RETRANSFER TO NORMAL TIME DELAY SETTING, THE LOAD WILL BE RETRANSFERRED TO THE NORMAL SOURCE IN A DELAYED TRANSITION MANNER.

DELAYED TRANSITION RETRANSFER TO NORMAL WILL CAUSE THE EMERGENCY SOURCE CONTACTOR (CE) TO OPEN. AFTER THE LOAD DISCONNECT TIME DELAY EXPIRES, THE NORMAL SOURCE CONTACTOR (CN) WILL CLOSE.

THE ENGINE WILL CONTINUE TO RUN FOR THE ENGINE COOL DOWN PERIOD, FEATURE 2E.

DELAYED TRANSITION TRANSFER WILL ALSO OCCUR DURING TRANSFER TO EMERGENCY BY OPERATING THE TEST SWITCH. RETRANSFER TO NORMAL WILL OCCUR AS PREVIOUSLY DESCRIBED.

### USER CONTROLS AND INDICATIONS

A. FEATURES 5 & 6B - TRANSFER TEST/RETRANSFER TIME DELAY BYPASS CONTROLS.

**TRANSFER TEST:**  
OPERATION CAUSES A NORMAL SOURCE FAILURE SEQUENCE. ACTIVATE AND HOLD FOR AT LEAST 15 SECONDS TO ALLOW TIME FOR THE ENGINE-GENERATOR TO START.

**RETRANSFER TIME DELAY BYPASS:**  
OPERATION WILL BYPASS THE FEATURE 3A (RETRANSFER TO NORMAL DELAY).

B. FEATURES 9A & 9B - TRANSFER SWITCH POSITION INDICATORS.  
FEATURE 9A: TRANSFER SWITCH CLOSED ON NORMAL (GREEN LED)  
FEATURE 9B: TRANSFER SWITCH CLOSED ON EMERGENCY (RED LED)

C. FEATURES 9C & 9D - SOURCE ACCEPTANCE INDICATORS.  
FEATURE 9C: NORMAL SOURCE ACCEPTED (GREEN LED)  
FEATURE 9D: EMERGENCY SOURCE ACCEPTED (RED LED)

D. LOAD DISCONNECT ACTIVE - INDICATES THAT THE TRANSFER SWITCH IS IN THE LOAD DISCONNECTED POSITION (BOTH NORMAL (CN) AND EMERGENCY (CE) CONTACTORS OPEN) (AMBER LED).

### GENERAL NOTES

- SWITCH SHOWN DE-ENERGIZED AND CONNECTED TO THE NORMAL SOURCE.
- DEVICE SYMBOLS AND DESIGNATIONS ARE IN ACCORDANCE WITH NEMA PUBLICATION ICS 1-1983, PART 1-101A.
- ALL WIRING IS #16 AWG, TINNED, STRANDED COPPER UNLESS OTHERWISE INDICATED.
- ON TERMINAL BLOCKS INDICATES AVAILABLE FIELD CONNECTION POINT.
- ON TERMINAL BLOCKS INDICATES FACTORY CONNECTION POINT.
- CONTROL AND ACCESSORY WIRING IS Routed IN ACCORDANCE WITH ASCO ASSEMBLY PROCEDURE GS451261.
- AN OPERATOR'S MANUAL IS FURNISHED WITH EACH AUTOMATIC TRANSFER SWITCH. REFER TO THIS PUBLICATION PRIOR TO INSTALLATION AND OPERATION OF THE UNIT.

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 3 PHASE (3 OR 4 WIRE) 50 OR 60 Hz		ENCLOSURE CODES							
								CODE	DESCRIPTION	CODE	NOMINAL VOLTAGE	CODE	TYPE	DESCRIPTION					
7ADTS	A	3	1000	A	5	X	C	BLANK	NONE	A	115	BLANK		OPEN TYPE (NO ENCLOSURE) GENERAL PURPOSE, INDOOR					
			1200	B			D	A	SOLID	B	120	C	1	INDOOR, WATER & DUST RESISTANT					
			1600	C			E	B	SWITCHING	C	208	E	2	OUTDOOR, RAINPROOF, SLEET & ICE RESISTANT					
			2000	D			F			D	220	F	3R	INDOOR/OUTDOOR, WATERTIGHT & DUSTTIGHT					
			2600	E			G			E	230	G	4	TYPE 4 PLUS CORROSION RESISTANCE (STAINLESS STEEL)					
			3000	F			H			F	240	H	4X	TYPE 4 PLUS CORROSION RESISTANCE (FIBERGLASS)					
			3200	G			J			G	277	J	4X	EXPLOSION PROOF					
				H			K			H	380	K	7	INDOOR, INDUSTRIAL ENVIRONMENTS, OILTIGHT & DUSTTIGHT					
				J			L			I	400	L	12	(SECURE ENCLOSURES)					
				K			M			J	415	M	3R	OUTDOOR, RAINPROOF, SLEET & ICE RESISTANT					
				L			N			K	460	N	4	INDOOR/OUTDOOR, WATERTIGHT & DUSTTIGHT					
				M			P			L	480	P	4X	TYPE 4 PLUS CORROSION RESISTANCE (STAINLESS STEEL)					
				N			Q			M	550	Q	12	INDOOR, INDUSTRIAL ENVIRONMENTS, OILTIGHT & DUSTTIGHT					
				P			R			N	575	R							
				Q						P	600								
				R						Q									
	BLANK FOR NONE						BLANK FOR NONE							BLANK FOR OPEN TYPE					

CATALOG NUMBER \_\_\_\_\_  
**ASCO** CERTIFIED TO  
 S.O. \_\_\_\_\_  
 BY \_\_\_\_\_  
 DATE \_\_\_\_\_

FORM REV N \_\_\_\_\_

REV.	ECN NO.	BY	APP.	DATE
P	215011	WK	BK	08/06/07
N	202977	CC	WK	01/05
M	166908	SDH	SDH	04/28/04
L	161899	SDH	SDH	10/08/02
K	160160	BK	WK	03/07/02
J	159798	WK	WK	01/25/02
H	157978	WK	BK	6/15/01
G	157620	BWM	BK	5/23/01

PROJECT NAME: \_\_\_\_\_

**WIRING** \_\_\_\_\_ **DIAGRAM** \_\_\_\_\_

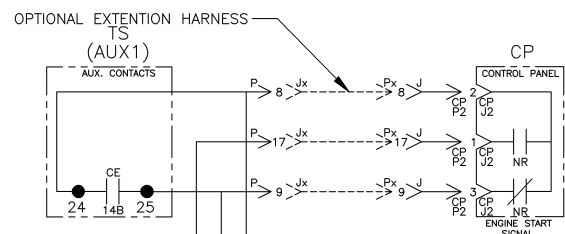
7000 SERIES (G7ADTS) 3PH 1000-3200 AMPS  
 "G" FRAME, GROUP 5 CONTROLS

THIRD ANGLE PROJECTION

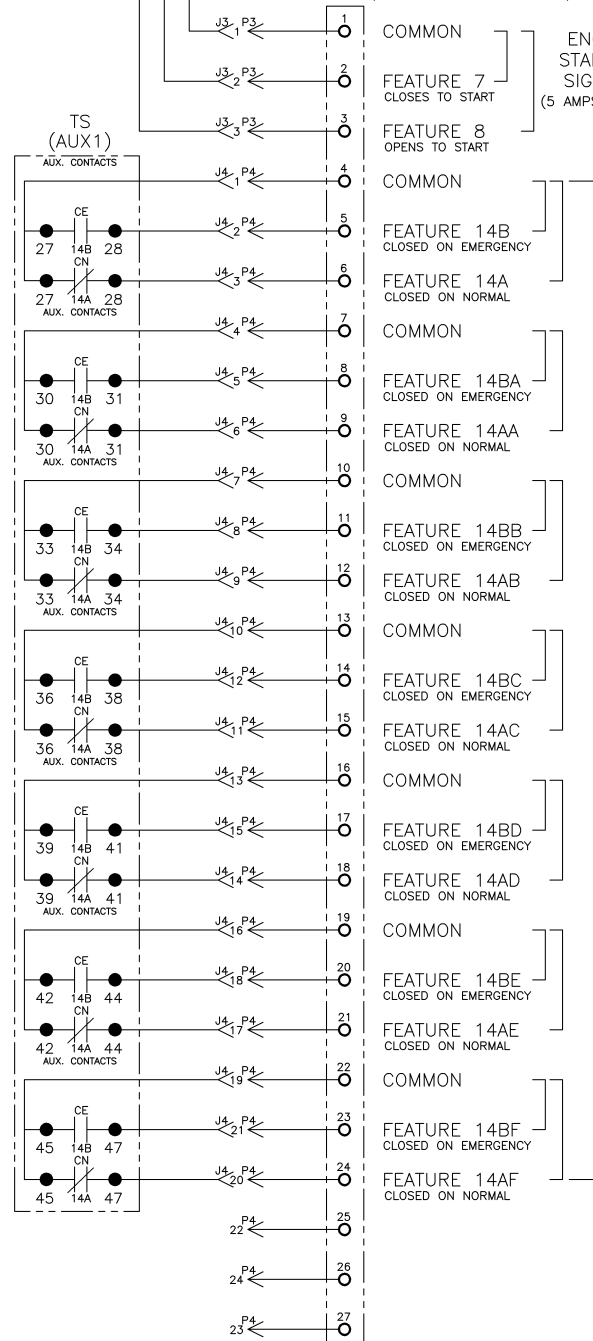
BY	DATE	MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-1-003. FOR PLASTIC PARTS SEE MP-1-005	ASSEM. REF. NO.	COMPUTER GENERATED DRAWING
YZ	11/97			
CHECKED		PROPERTY OF ASCO POWER TECHNOLOGIES. USE PERMITTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.		SCALE 1:1 SIZE DS
PROJECT APPROVAL				DWG. NO. 617417
FINAL APPROVAL	SDH	11/97		ASCO POWER TECHNOLOGIES, L.P. FLORHAM PARK, NEW JERSEY 07932 U.S.A.

DRAWING P. \_\_\_\_\_ ECN NO. 215011 SHEET \_\_\_\_\_ OF 6

# FIELD CONNECTIONS

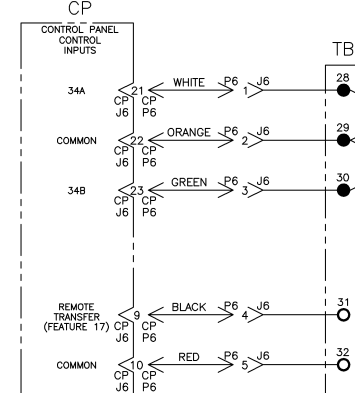


LOCATED AT UPPER RIGHT SIDE OF ENCLOSED UNITS  
TB (FIELD CONNECTIONS), WIRE RANGE: 22-12 AWG



ENGINE STARTING SIGNALS (5 AMPS, 32VDC)

TS AUXILIARY CONTACTS (10 AMPS, 32VDC) (10 AMPS, 250VAC) GENERAL PURPOSE



LOCATED AT UPPER RIGHT SIDE OF ENCLOSED UNITS  
TB (FIELD CONNECTIONS), WIRE RANGE: 22-12 AWG

FACTORY JUMPERS DO NOT REMOVE

CUSTOMER SUPPLIED NORMALLY OPEN CONTACT SUITABLE FOR 5VDC LOW ENERGY CIRCUIT CLOSE CONTACT TO TRANSFER TO EMERGENCY

31 FEATURE 17 REMOTE TRANSFER TO EMERGENCY

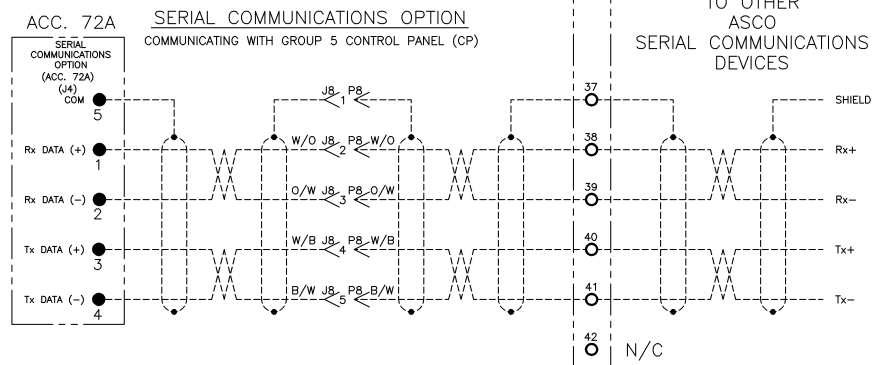
32 COMMON

33 N/C

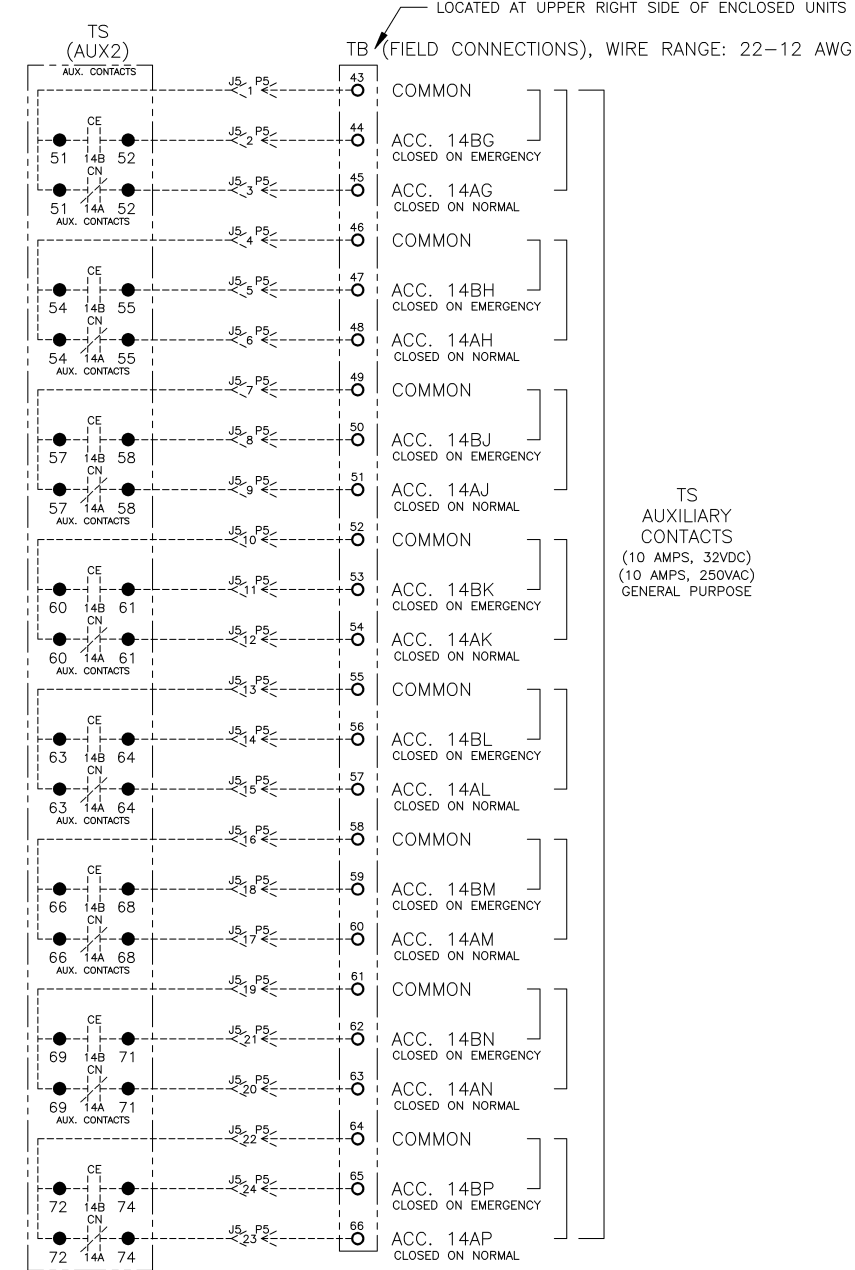
34 N/C

35 N/C

36 N/C



## OPTIONAL ACCESSORY (ACC.) AUXILIARY CONTACTS



TS AUXILIARY CONTACTS (10 AMPS, 32VDC) (10 AMPS, 250VAC) GENERAL PURPOSE

215011 WK BK 08/06/07

PROJECT NAME:		REV. TO SHEET	ECN NO.	BY	APP.	DATE
WIRING DIAGRAM						
7000 SERIES (G7ADTS) 3PH 1000-3200 AMPS						
"G" FRAME, GROUP 5 CONTROLS						
DRAWN BY	YZ	DATE	11/97	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				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	SDH	DATE	11/97			DWG. NO. 617417
FINAL APPROVAL						DRAWING P. NO. 215011 SHEET 2 OF 6

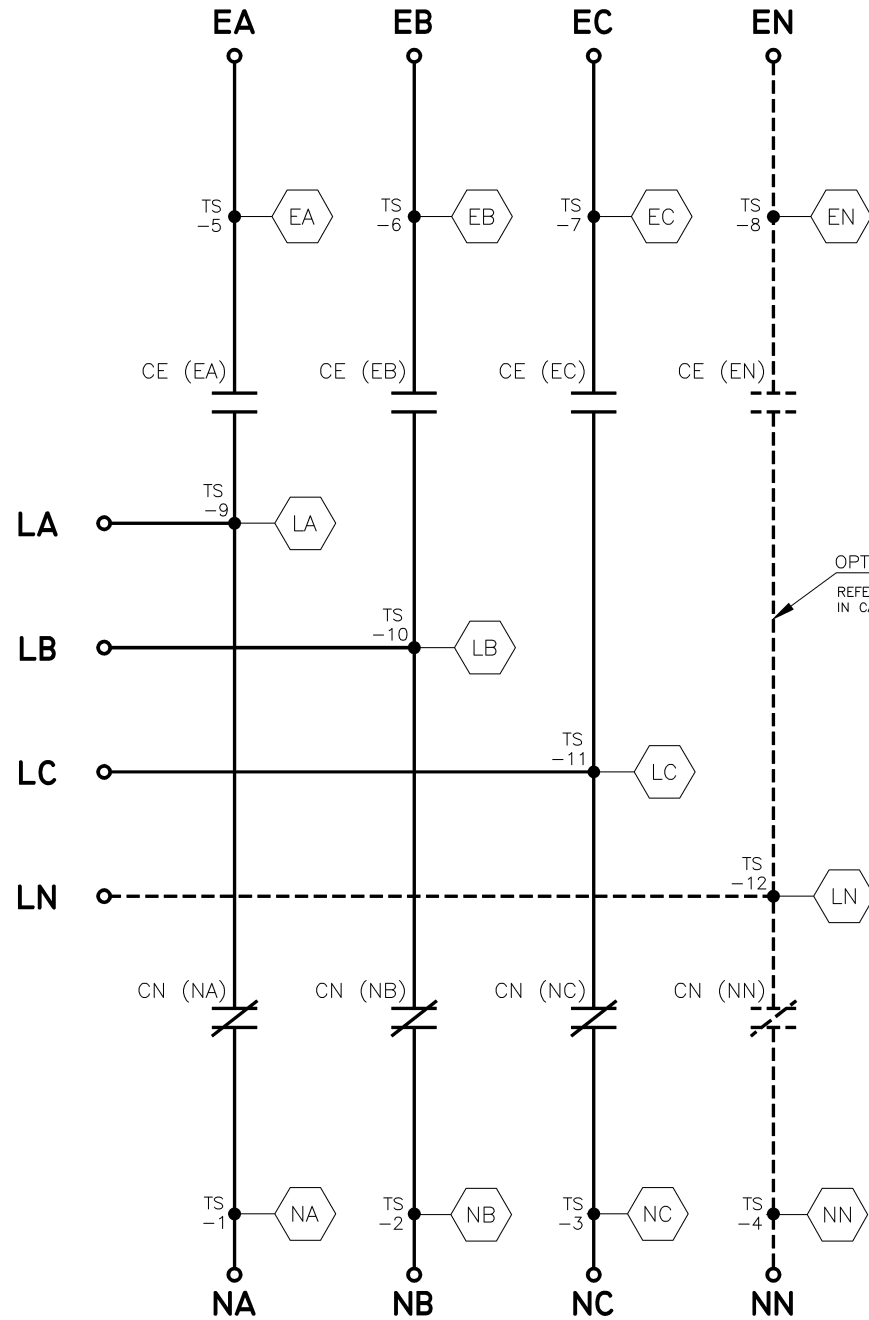


MAIN POWER POLES

TS OPERATOR CIRCUIT

EMERGENCY

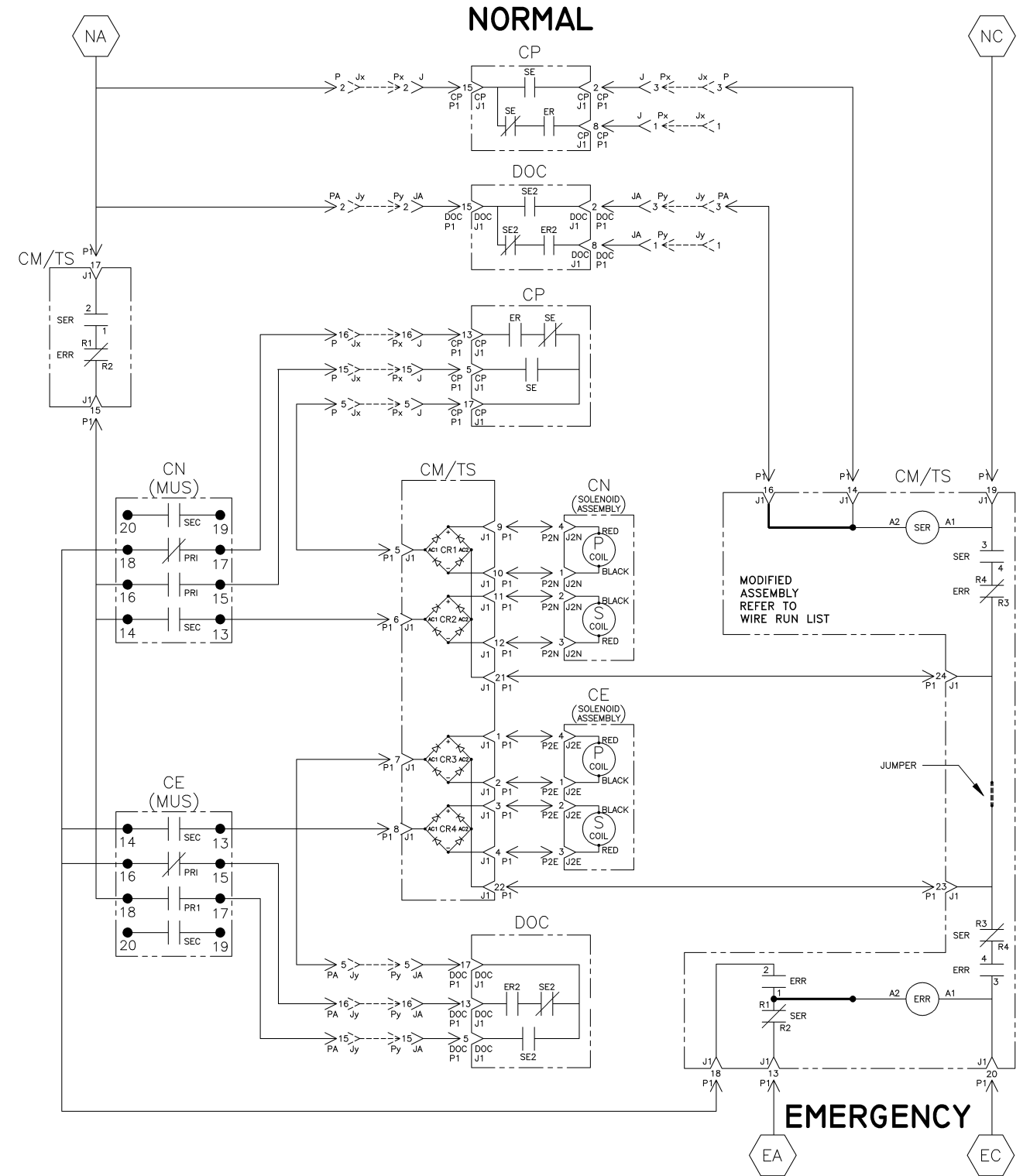
NORMAL



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

- NONE
- SWITCHING
- SOLID BUS PLATE

NOTE:  
ATS SHOWN CLOSED ON NORMAL SOURCE.



CN (MUS) CONTACTS	
MUS	SOLENOID POSITION
	NORM > AFTER TDC * < OPEN
13-14	X
15-16	X
17-18	X
19-20	X

CE (MUS) CONTACTS	
MUS	SOLENOID POSITION
	OPEN > AFTER TDC * < EMER
13-14	X
15-16	X
17-18	X
19-20	X

\* AFTER SOLENOID CORE PASSES THROUGH TOP DEAD CENTER POSITION.

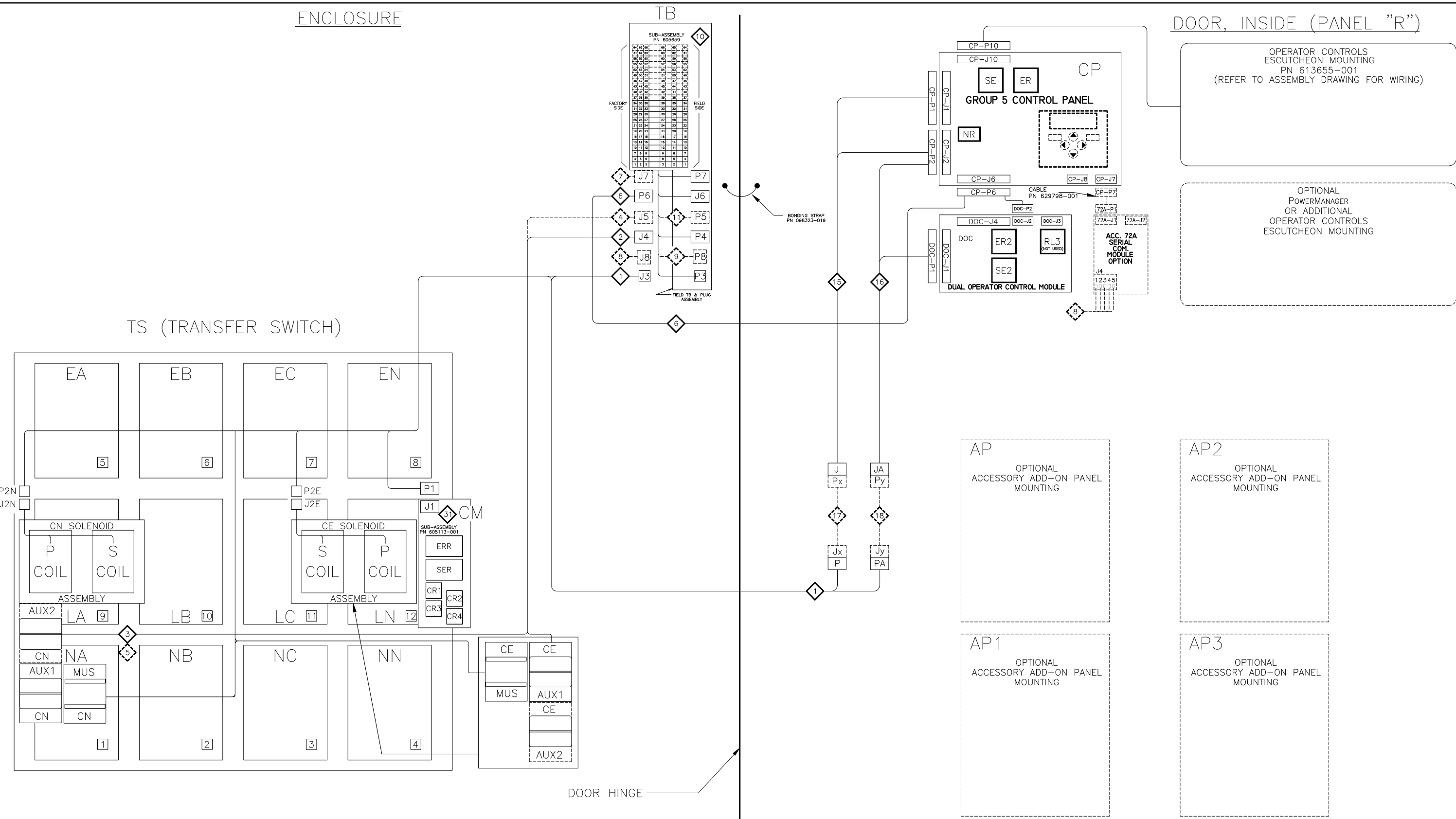
PROJECT NAME: <b>WIRING DIAGRAM</b>		215011 WK BK 08/06/07
7000 SERIES (G7ADTS) 3PH 1000-3200 AMPS "G" FRAME, GROUP 5 CONTROLS		REV. TO SHEET ECN NO. BY APP. DATE
DRAWN BY: YZ	DATE: 11/97	SCALE: 1:1 SIZE: DS
CHECKED:	PROJECT APPROVAL: SDH	COMPUTER GENERATED DRAWING
MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-1-003. FOR PLASTIC PARTS SEE MP-1-005.		DWG. NO. 617417
PROPERTY OF ASCO POWER TECHNOLOGIES, L.P. USE PERMITTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.		ECN NO. 215011 SHEET 3 OF 6
ASCO POWER TECHNOLOGIES, L.P. FLORHAM PARK, NEW JERSEY 07932 U.S.A.		



PHYSICAL DIAGRAM

ENCLOSURE

DOOR, INSIDE (PANEL "R")



D

D

C

C

B

B

A

A

P		215011	WK	BK	08/06/07
REV. TO SHEET	ECN NO.	BY	APP.	DATE	
PROJECT NAME:		WIRING DIAGRAM			
7000 SERIES (G7ADTS) 3PH 1000-3200 AMPS					
"G" FRAME, GROUP 5 CONTROLS					
BY	DATE	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	YZ	11/97			SCALE 1:1 SIZE DS
CHECKED			PROPERTY OF ASCO POWER TECHNOLOGIES. USE PERMITTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.		DWG. NO. 617417
PROJECT APPROVAL					DRAWING P. REV.
FINAL APPROVAL	SDH	11/97	ASCO POWER TECHNOLOGIES, L.P. FLORHAM PARK, NEW JERSEY 07932 U.S.A.		ECN NO. 215011 SHEET 5 OF 6

WIRE RUN LISTING

Table 1: HARNESS LOCATOR 619510-026 (P1,P2N,P2E,J3) MAIN TS CLR AWG 16. Lists wires 1-223 with descriptions like P-2, TS-1, PA-2, TS-1, etc.

Table 2: HARNESS LOCATOR 609051-001 (J4) TS STD. AUX. CONTACTS CLR AWG 16. Lists wires 50-73 with descriptions like J4-1, CE(AUX1)-27, etc.

Table 3: HARNESS LOCATOR 619510-005 (P6) FIELD INPUTS CLR AWG 16. Lists wires 100-123 with descriptions like P6-1, CP-P6-21, etc.

Table 4: HARNESS LOCATOR SUB-ASSEMBLY 605659 (P3,P4,J6,P7,TB) STD. FIELD TB CLR AWG 16. Lists wires 6-132 with descriptions like TB-1, P3-1, etc.

Table 5: HARNESS LOCATOR 483763 (J,CP-P1,CP-P2) CONTROL PANEL CLR AWG 18. Lists wires 1-24 with descriptions like J-1, CP-P1-8, etc.

Table 6: HARNESS LOCATOR 309320-005 OPTIONAL 8 IN. EXTENSION HARNESS CLR AWG 16. Lists wires 201-222 with descriptions like Jx-1, Px-1, etc.

Table 7: HARNESS LOCATOR 605113-001 (J1,CM) DUAL SOLENOID UNIT CONTROL MODULE ASSEMBLY CLR AWG 16. Lists wires J1-1 to J1-24 with descriptions like J1-1, CR3-(+), etc.

Table 8: HARNESS LOCATOR 609051-001-A TS STD. AUX. CONTACTS CLR AWG 16. Lists wires 50-8 with descriptions like CE(AUX1)-27, etc.

Table 9: HARNESS LOCATOR 609051-002 (J5) TS OPT. AUX. CONTACTS CLR AWG 16. Lists wires 230-253 with descriptions like J5-1, CE(AUX2)-51, etc.

Table 10: HARNESS LOCATOR 609051-002-A TS OPT. AUX. CONTACTS CLR AWG 16. Lists wires 230-251 with descriptions like CE(AUX2)-51, etc.

Table 11: HARNESS LOCATOR (J7) FIELD OUTPUTS CLR AWG 16. Lists wires 130-153 with descriptions like J7-1, J7-2, etc.

Table 12: HARNESS LOCATOR 605454-005 (J8) OPTIONAL SERIAL I/O CLR AWG 16. Lists wires 160-168 with descriptions like J8-1, 72A-5, etc.

Table 13: HARNESS LOCATOR 605454-007 (P8,TB) OPTIONAL SERIAL I/O CLR AWG 16. Lists wires 160-168 with descriptions like P8-1, TB-37, etc.

Table 14: HARNESS LOCATOR 619385 (JA,CP-P2,CP-P6) CONTROL MODULE CLR AWG 16. Lists wires 1-212 with descriptions like JA-2, DOC-P1-15, etc.

Table 15: HARNESS LOCATOR 605454-008 (P5,TB) OPT. AUX. CONTACTS CLR AWG 16. Lists wires 230-252 with descriptions like TB-43, P5-1, etc.

Table 16: HARNESS LOCATOR 619385 (JA,CP-P2,CP-P6) CONTROL MODULE CLR AWG 16. Lists wires 202-222 with descriptions like JA-2, DOC-P1-15, etc.

Table 17: HARNESS LOCATOR 309320-005 OPTIONAL 8 IN. EXTENSION HARNESS CLR AWG 16. Lists wires 257-261 with descriptions like Jx-1, Px-1, etc.

Table 18: HARNESS LOCATOR 605113-001 (J1,CM) DUAL SOLENOID UNIT CONTROL MODULE ASSEMBLY CLR AWG 16. Lists wires J1-1 to J1-24 with descriptions like J1-1, CR3-(+), etc.

Project information block including PROJECT NAME: WIRING DIAGRAM, 7000 SERIES (G7ADTS) 3PH 1000-3200 AMPS, 'G' FRAME, GROUP 5 CONTROLS. Includes drawing number 617417 and date 08/06/07.