

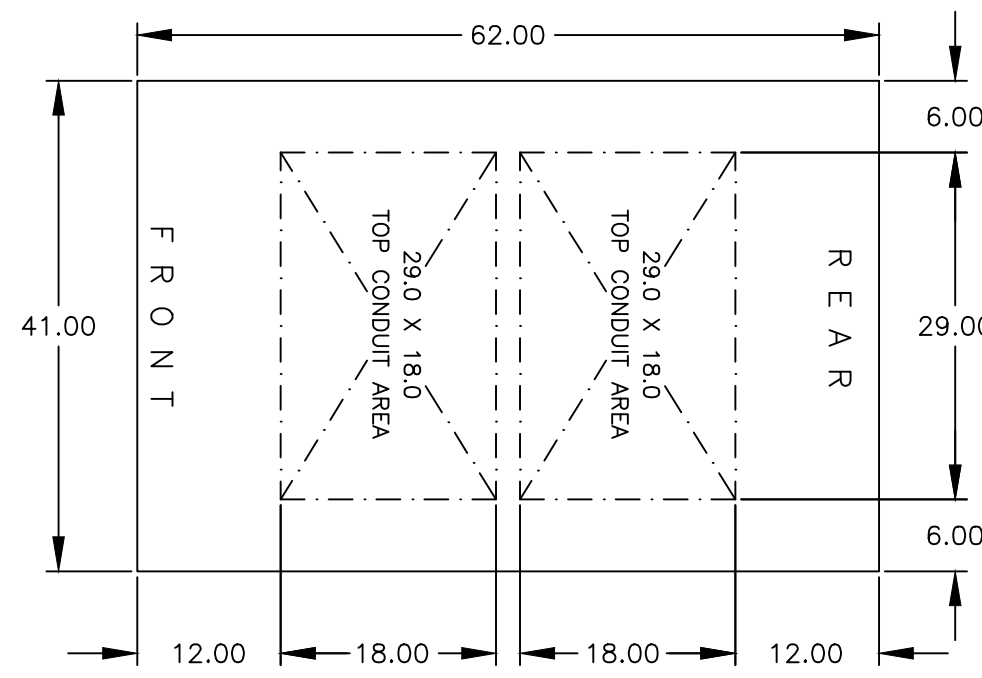
TRANSFER SWITCH DETAILS									
ATS NAME	QTY	AMPS / POLES (VOLTS)	BYPASS	TRANSITION TYPE	CATALOG NUMBER	ACCESSORIES	OUTLINE DRAWING	WIRING DIAGRAM	BOM NUMBER
	2	1600 / 3 (480V)	N/A	OPEN	G03AUSA31600NGXM	11BE,44G	754577-050	1001662, 758574	1024988

AC Rating for Service Entrance Rated Units				
ATS NAME	Catalog Number	ATS Ampacity	Square D Breaker Model (Rating)	Fault Current Rating (480V)
	3AUS	1000-2000A	RJF(1000-2000A)	65kA

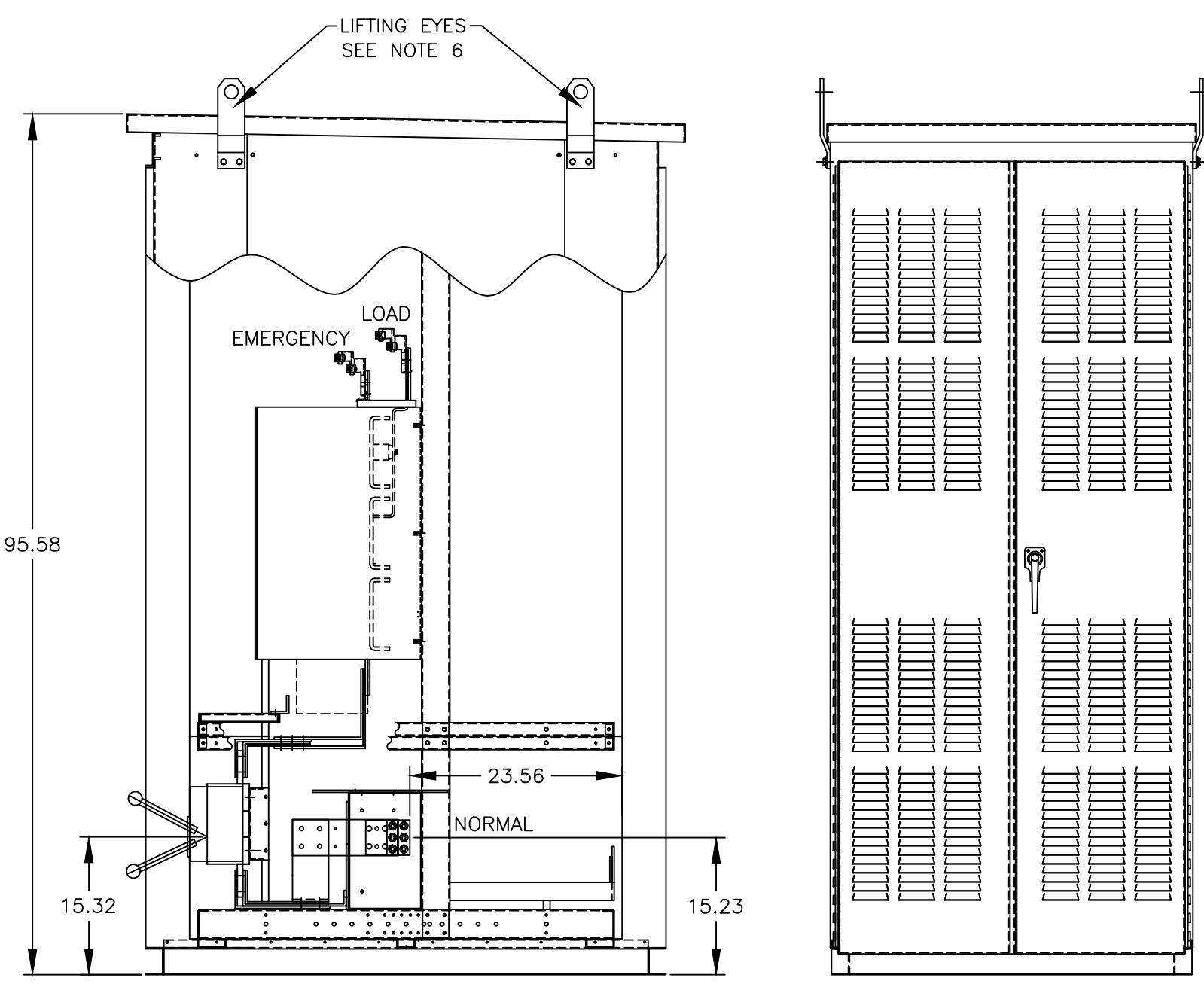
\*For Complete Breaker Details refer to Outline Drawing

#1	ATS	AMPS: 1600	QTY: 2
Product	: Series 300	Catalog Number	: G03AUSA31600NGXM
Service Voltage / Hz	: 480V/60Hz	Optional Accessories	: 11BE,44G
Bypass Isolation	: Not Applicable	Product Description	: 300 Series, Automatic Service Entrance Transfer Switch
No. of Switched Poles: 3	: 3	Neutral Configuration	: Solid [A]
Withstand Rating:	: See WCR Table Below	No. of Cables & Lug Size	: See Applicable Outline Drawing
Frame = G, Switch Rating = 1600, Series = 300			
Enclosure	: 3R(M)-UL Type 3R secure double door enclosure (See Disclaimer 3)	Service	: Three Phase, 4-wire
Extended Warranty	: Not Included	Markings	:

#	ACCESSORY DESCRIPTIONS	
	Accessory Code	Description
1	11BE	Adds the following features to the Group G controller: (1) Serial RS-485 Modbus Communications (2) Multi-Schedule Engine Exerciser (3) a 300 Entry Event Log and (4) a common alarm output function. When applied on 3-phase systems it also enables: (1) 3-Phase Emergency Source VLL sensing (2) Phase Rotation Monitoring (3) Emergency Source VLL Unbalance Monitoring.
2	44G	Strip heater w/ thermostat, wired to load terminals: 208-600 volts

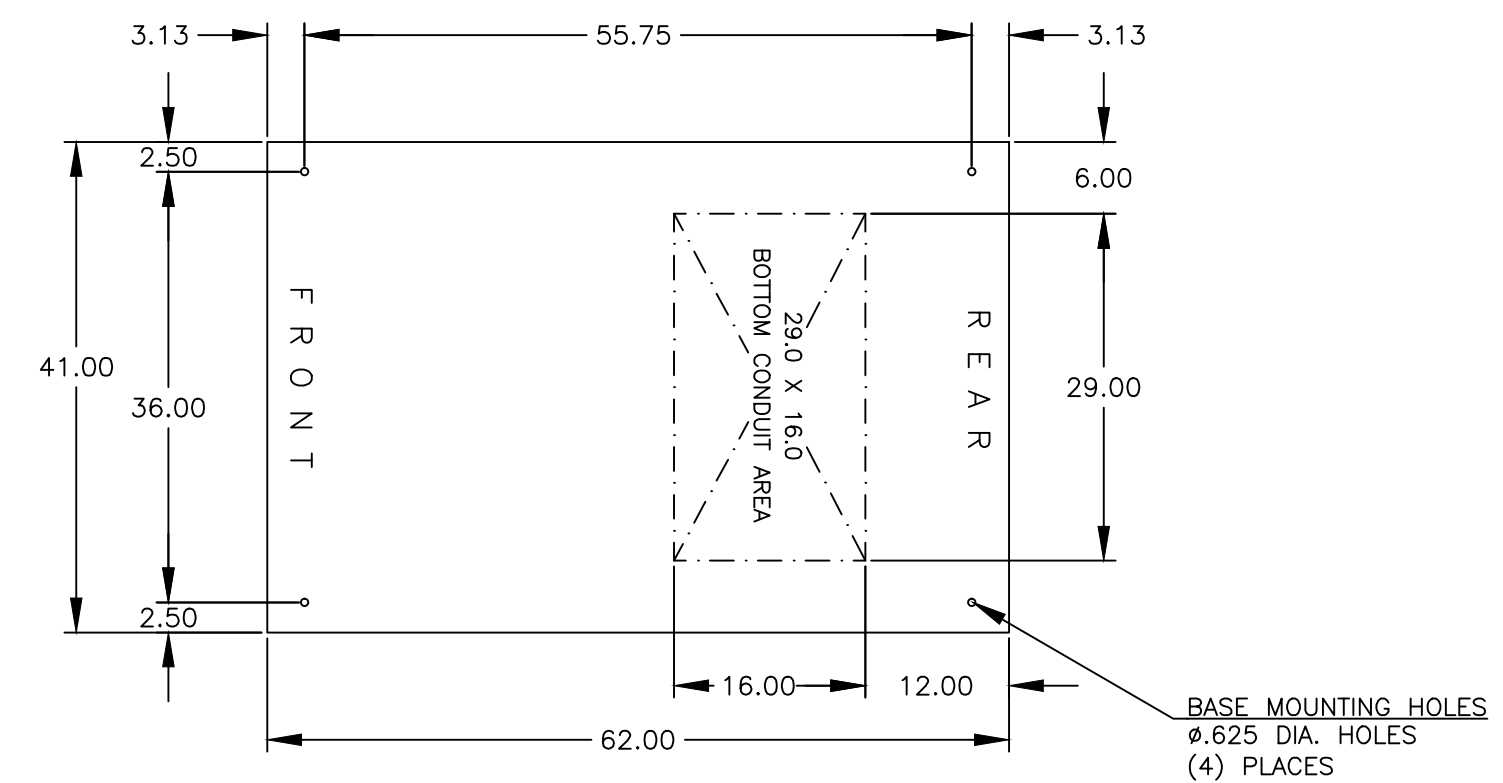


TOP VIEW



RIGHT SIDE VIEW

REAR VIEW



PLAN VIEW

GENERAL NOTES

- FLOOR MOUNTED ENCLOSURE.  
TYPE 3R CONSTRUCTED FROM CODE GAUGE STEEL.  
FINISH: TYPE 3R, ANSI 61 GRAY POLYESTER SEMI GLOSS ELECTROSTATIC POWDER.  
TYPE 3RX EXTERIOR CONSTRUCTED FROM CODE GAUGE STAINLESS STEEL.  
(R) EXTERIOR CONSTRUCTED FROM TYPE 304 STAINLESS STEEL.  
(S) EXTERIOR CONSTRUCTED FROM TYPE 316 STAINLESS STEEL.
- EXTERIOR DOORS HAVE PADLOCKABLE HANDLES WITH 3-POINT LATCH
- DESIGNED FOR FRONT & REAR ACCESS.
- RECOMMENDED CLEARANCES: FRONT: 38" REAR: 36"
- EXTERIOR VENTS:  
1000A - 1600A: NO VENTS.  
2000A: VENTS ARE SUPPLIED WITH POLYESTER DUST FILTERS.
- LIFTING PLATES: SECTIONS ARE SUPPLIED WITH LIFTING PLATES. INSPECT PLATES FOR DAMAGE AND TORQUE BOLTS TO 45 FT LBS BEFORE USE. REFER TO ANSI/NEMA PB 2.1 FOR PROPER HANDLING OF EQUIPMENT. AFTER INSTALLATION OF SECTION, REMOVE LIFTING PLATES. REINSTALL BOLTS INTO EXTERIOR HOLES AND TORQUE TO APPROXIMATELY 20 FT LBS.

SYSTEM NOTES

- SYSTEM RATING: 1000 AMPS, 1200 AMPS, 1600 AMPS, 2000 AMPS, 3 $\phi$ , 4W OR 1 $\phi$  3W.  
SHORT CIRCUIT RATING: 65,000 RMS SYM AMPERES @ 480V.  
THE EMERGENCY SOURCE INPUT MUST BE PROTECTED BY A REMOTE OVERCURRENT PROTECTION DEVICE AS LISTED ON THE MARKINGS ON THE TRANSFER SWITCH.
- ALL BUS IS SILVER-PLATED COPPER, BASED ON 1000A PER SQ. IN. DENSITY.
- GROUND: 20% RATED.
- NEUTRAL: 100% RATED.
- APPLICABLE LABEL(S): U.L. 891, SUITABLE ONLY FOR USE AS SERVICE EQUIPMENT.

TRANSFER SWITCH

- G FRAME AUTOMATIC TRANSFER SWITCH.
- TRANSFER SWITCH RATING: 1000 AMPS, 1200 AMPS, 1600 AMPS AND 2000 AMPS.  
SHORT CIRCUIT RATING WHEN PROTECTED BY A CIRCUIT BREAKER  
TIME RESPONSE, MAXIMUM 0.05 SECONDS: 65,000 RMS SYM @ 480V.
- A FULL RATED NEUTRAL CONNECTION FOR EACH SOURCE AND THE LOAD IS OPTIONAL.  
WHEN PROVIDED IT IS IN ONE OF THE FOLLOWING FORMATS.  
A. SOLID NEUTRAL  
B. SWITCHED NEUTRAL POLE  
C. OVERLAPPING NEUTRAL POLE
- UL 1008

TERMINATIONS 1000A - 1200A

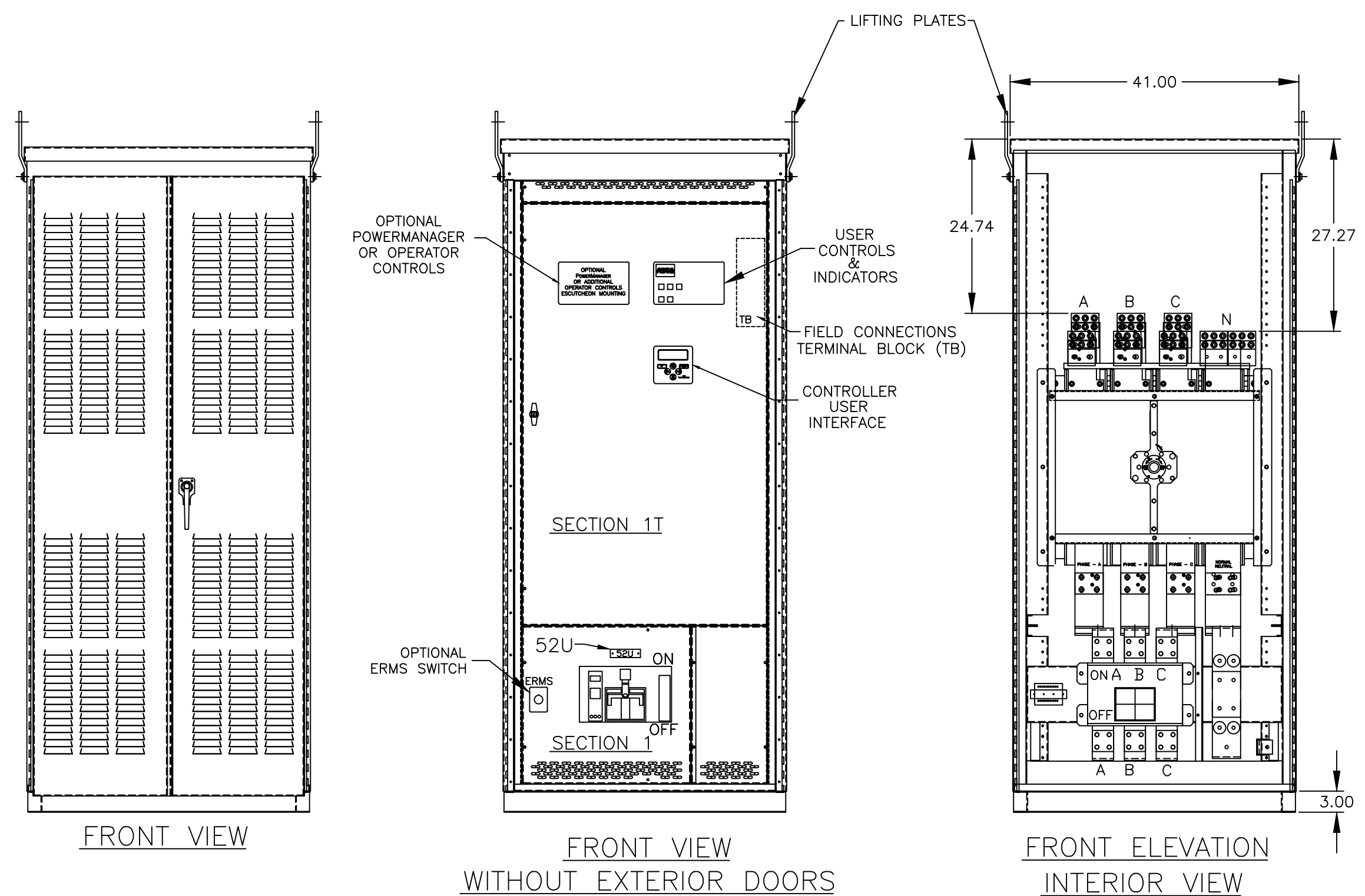
- SUPPLIED WITH MECHANICAL (SCREW TYPE) LUGS FOR CU/AL CABLE.  
NORMAL: (4) 1/0 - 600MCM PER PHASE & NEUTRAL  
LOAD: (4) 1/0 - 600MCM PER PHASE & NEUTRAL  
EMERGENCY: (4) 1/0 - 600MCM PER PHASE & NEUTRAL  
GROUND: (12) 1/0 - 600MCM  
A. SUITABLE WIRE BENDING SPACE IS PROVIDED AS PER NEC.
- OPTIONAL LUGS MAY BE SUPPLIED.

TERMINATIONS 1600A - 2000A

- SUPPLIED WITH MECHANICAL (SCREW TYPE) LUGS FOR CU/AL CABLE.  
NORMAL: (6) 1/0 - 600MCM PER PHASE & NEUTRAL  
LOAD: (6) 1/0 - 600MCM PER PHASE & NEUTRAL  
EMERGENCY: (6) 1/0 - 600MCM PER PHASE & NEUTRAL  
GROUND: (18) 1/0 - 600MCM  
A. SUITABLE WIRE BENDING SPACE IS PROVIDED AS PER NEC.
- OPTIONAL LUGS MAY BE SUPPLIED.

CIRCUIT BREAKER: ITEM 52U

- SQUARE "D" 80% RATED, TYPE "R" 3000AF/1000AT, 3000AF/1200AT, 3000AF/1600AT (P/N RJF36160U44A) OR 3000AF/2000AT (P/N RJF36200U44A) STATIONARY MOUNTED, MANUALLY OPERATED BREAKER WITH LONG DELAY, SHORT DELAY, INSTANTANEOUS AND GROUND FAULT TRIP SETTINGS.  
SHORT CIRCUIT RATING: AIC 65,000 RMS SYS @ 480V.
- OPTIONAL 100% RATED BREAKER MAY BE SUPPLIED.
- OPTIONAL ENERGY REDUCTION MAINTENECSE SETTING MAY BE SUPPLIED
- U.L. 489

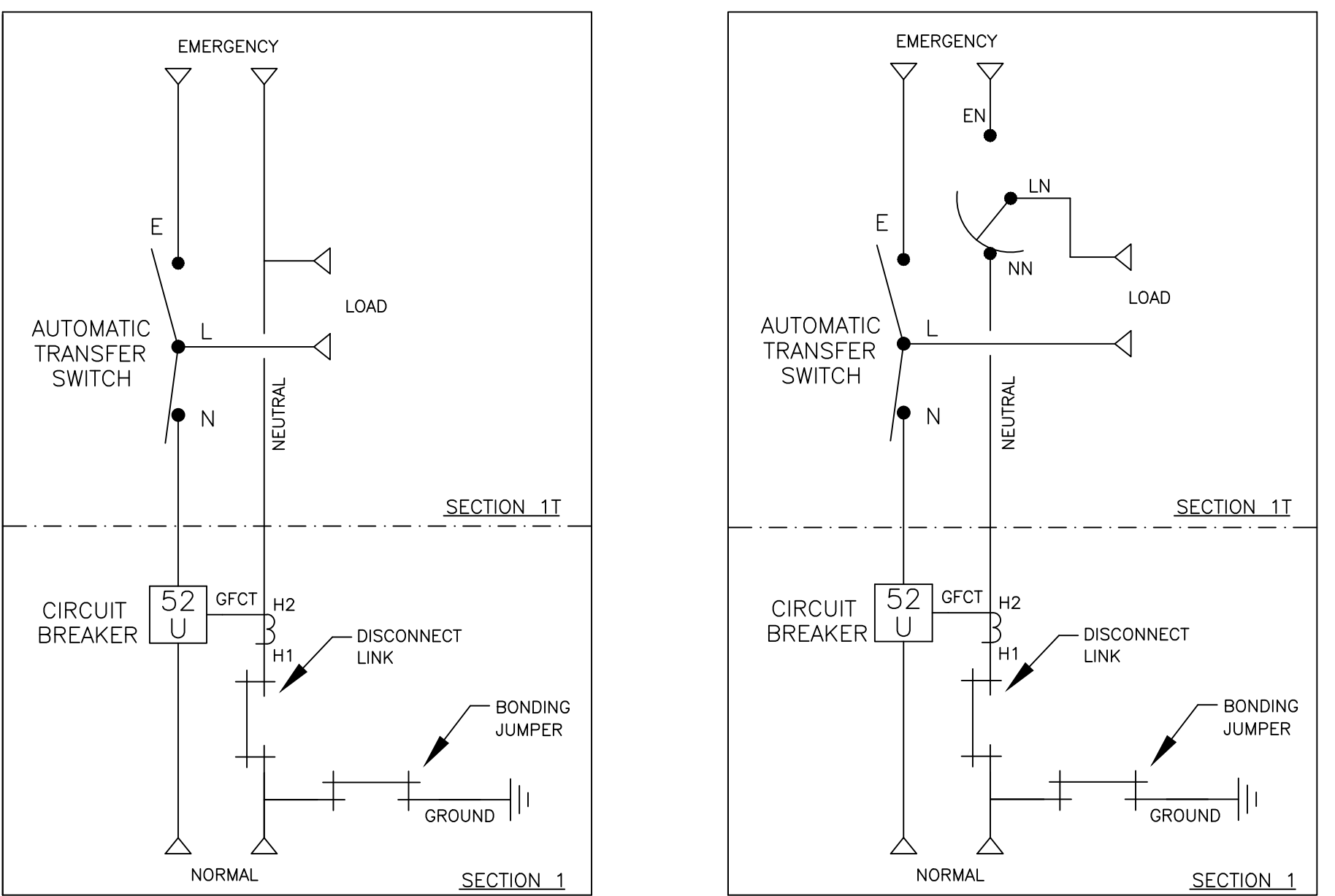


FRONT VIEW

FRONT VIEW WITHOUT EXTERIOR DOORS

FRONT ELEVATION INTERIOR VIEW

ONE LINE DIAGRAMS



(WITH SOLID NEUTRAL)

(WITH SWITCHED/OVERLAPPING NEUTRAL)

L	282074	BG	RN	02/18/20
	SEE ECN			
K	261842	RG	RN	07/05/16
	SEE ECN			
J	258022	BS	RN	11/13/15
	SEE ECN			
H	255006	RN		5-27-15
	SEE ECN			
G	252571	AE	RN	1/08/15
	SEE ECN			
F	248105	VAK	RN	
	SEE ECN			
E	240309	RBR	RN	12/18/12
	NEW ISSUE			
D	231836	LK	RN	05/03/11
	SEE ECN			
C	221423	DP	RN	1/15/09
	ADDED "80% RATED"			
B	218103	AE	WK	04/23/08
	SEE ECN			
A	213080	RN		4-25-07
	SEE ECN			

PROJECT NAME:		REV. TO SHEET	ECN NO.	BY	APP.	DATE
OUTLINE		MOUNTING				
GAUS 1000A - 2000A, RJF SE BREAKER						
TYPE 3R/3RX 95.5 X 41 X 62 SECTION 1 & 1T						
DRAWN BY	SG	DATE	12/26/13	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	RN			PROPERTY OF ASCO POWER TECHNOLOGIES. USE PERMITTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.		SCALE: NONE SIZE DS
PROJECT APPROVAL						DWG. NO. 754577-050
FINAL APPROVAL						DRIVING L ECN NO. 282074 SHEET 1 OF 1

# THREE PHASE WIRING FOR ASCO® 7000 SERIES AUTOMATIC TRANSFER SWITCHES TYPE 7ATS 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).
- MOTOR LOAD TRANSFER FEATURE**
- FEAT. 27 - INPHASE TRANSFER CONTROL LOGIC TO INITIATE AN INPHASE TRANSFER OF LOADS BETWEEN LIVE SOURCES. USED TO PREVENT NUISANCE TRIPPING OF CIRCUIT BREAKERS AND POSSIBLE DAMAGE TO MECHANICAL LOADS CAUSED BY OUT OF PHASE TRANSFER. ACTIVATED VIA THE GROUP 5 CONTROL PANEL USER INTERFACE (TRANSFER CONTROL CENTER) BY SELECTING "IN-PHASE MONITOR ENABLE" = YES. AN ADJUSTABLE DELAY (0.0-3.0 sec, FACTORY SET TO 1.5 sec, IN INCREMENTS OF 0.1 sec) DELAYS SENSING TO PERMIT STABILIZATION OF THE SOURCES PRIOR TO SENSING. FACTORY SETTING IS DISABLED UNLESS SPECIFIED TO BE FACTORY ACTIVATED AT THE TIME OF ORDER.

### 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:

1. ENABLE OR DISABLE THE ROUTINE
2. ENABLE OR DISABLE TRANSFER OF THE LOAD DURING THE ROUTINE
3. SET START TIME OF ROUTINE -  
- TIME OF DAY  
- DAY OF WEEK  
- WEEK OF MONTH (1st, 2nd, 3rd, 4th, ALTERNATE OR ALL)
4. 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	1-31
YEAR	00-99	00-99
HOUR	0-23	0-23
MINUTE	0-59	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 5 AMPS AT 32 VDC/120VAC RESISTIVE.

#### B. FEATURES 14A & 14B - TRANSFER SWITCH AUXILIARY POSITION INDICATING CONTACTS.

EIGHT (8) FORM C CONTACTS TO INDICATE CONNECTION OF THE TRANSFER SWITCH TO NORMAL (14A) AND EIGHT (8) 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.

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.

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

### 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)

### GENERAL NOTES

1. SWITCH SHOWN DE-ENERGIZED AND CONNECTED TO THE NORMAL SOURCE.
2. DEVICE SYMBOLS AND DESIGNATIONS ARE IN ACCORDANCE WITH NEMA PUBLICATION ICS 1-1983, PART 1-101A.
3. ALL WIRING IS #16 AWG, TINNED, STRANDED COPPER UNLESS OTHERWISE INDICATED.
4. ○ ON TERMINAL BLOCKS INDICATES AVAILABLE FIELD CONNECTION POINT.
5. ● ON TERMINAL BLOCKS INDICATES FACTORY CONNECTION POINT.
6. CONTROL AND ACCESSORY WIRING IS ROUTED IN ACCORDANCE WITH ASCO ASSEMBLY PROCEDURE GS451261.
7. 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			
7ATS	A	3	1000	A	5	X	C	BLANK	NONE	A	115	BLANK		OPEN TYPE (NO ENCLOSURE)			
	B		1200	B			E	A	SOLID	B	120	C	1	GENERAL PURPOSE, INDOOR			
	C		1600	C			F	B	SWITCHING	C	208	E	2	INDOOR, WATER & DUST RESISTANT			
			2000	D			G	C	OVERLAPPING	D	220	F	3R	OUTDOOR, RAINPROOF, SLEET & ICE RESISTANT			
			2600	E			H			E	230	G	4	INDOOR/OUTDOOR, WATERTIGHT & DUSTTIGHT			
			3000	F			I			F	240	H	4X	TYPE 4 PLUS CORROSION RESISTANCE (STAINLESS STEEL)			
			3200	G			J			G	277	J	4X	TYPE 4 PLUS CORROSION RESISTANCE (FIBERGLASS)			
				H			K			H	380	K	7	EXPLOSION PROOF			
				I			L			I	400	L	12	INDOOR, INDUSTRIAL ENVIRONMENTS, OILTIGHT & DUSTTIGHT			
				J			M			J	415			(SECURE ENCLOSURES)			
				K			N			K	440	M	3R	OUTDOOR, RAINPROOF, SLEET & ICE RESISTANT			
				L			O			L	480	N	4	INDOOR/OUTDOOR, WATERTIGHT & DUSTTIGHT			
				M			P			M	550	P	4X	TYPE 4 PLUS CORROSION RESISTANCE (STAINLESS STEEL)			
				N			Q			N	575	Q	12	INDOOR, INDUSTRIAL ENVIRONMENTS, OILTIGHT & DUSTTIGHT			
				O			R			O	600	R					
	BLANK FOR NONE			P						P							
				Q						Q							
				R						R							

CATALOG NUMBER \_\_\_\_\_

**ASCO**® CERTIFIED TO S.O. \_\_\_\_\_

BY \_\_\_\_\_

DATE \_\_\_\_\_

FORM REV K

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

WIRING \_\_\_\_\_

7000 SERIES (G7ATS) 3PH 1000-3200 AMPS

"G" FRAME, GROUP 5 CONTROLS

THIRD ANGLE PROJECTION

DRAWN BY JPB 12/97

CHECKED \_\_\_\_\_

PROJECT APPROVAL \_\_\_\_\_

FINAL APPROVAL \_\_\_\_\_

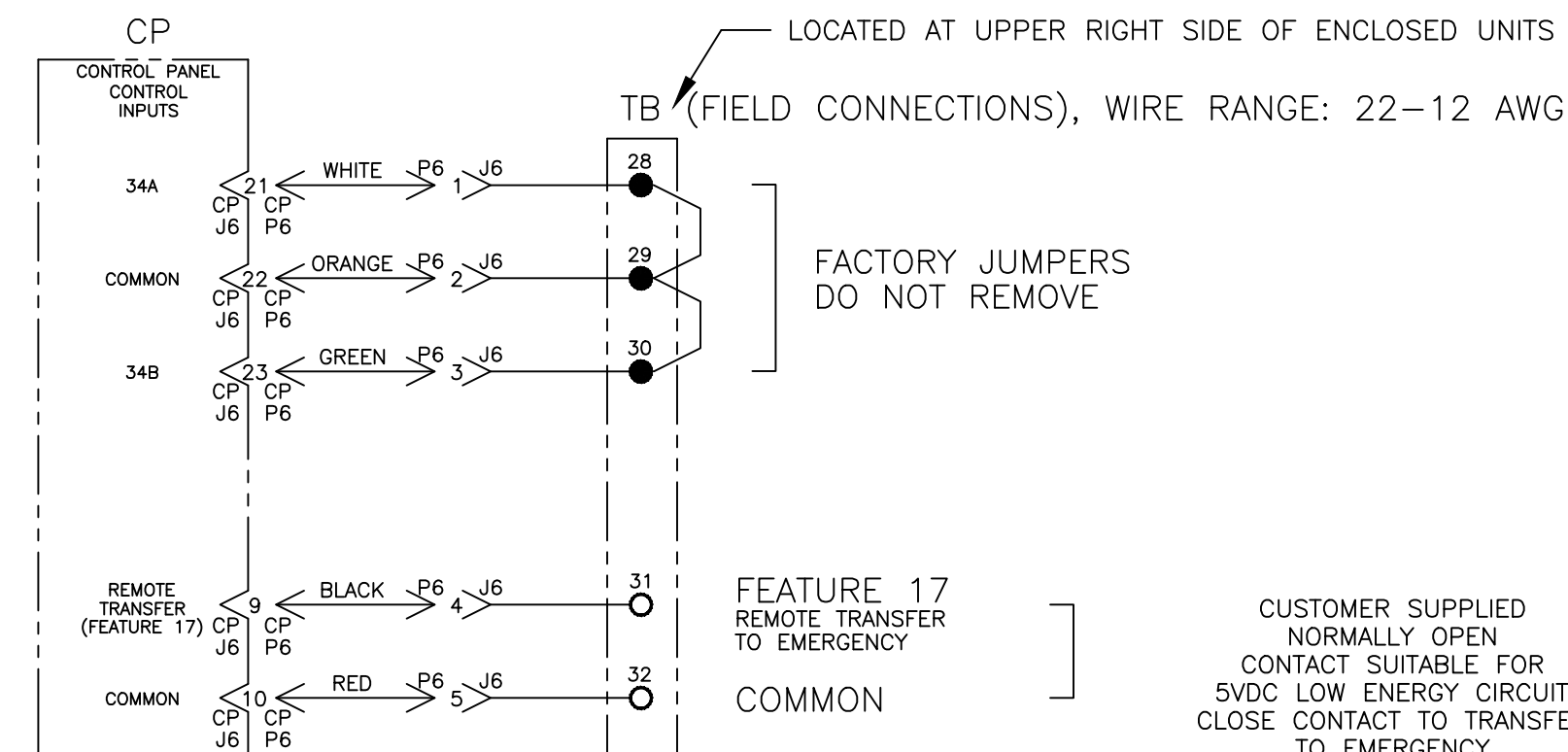
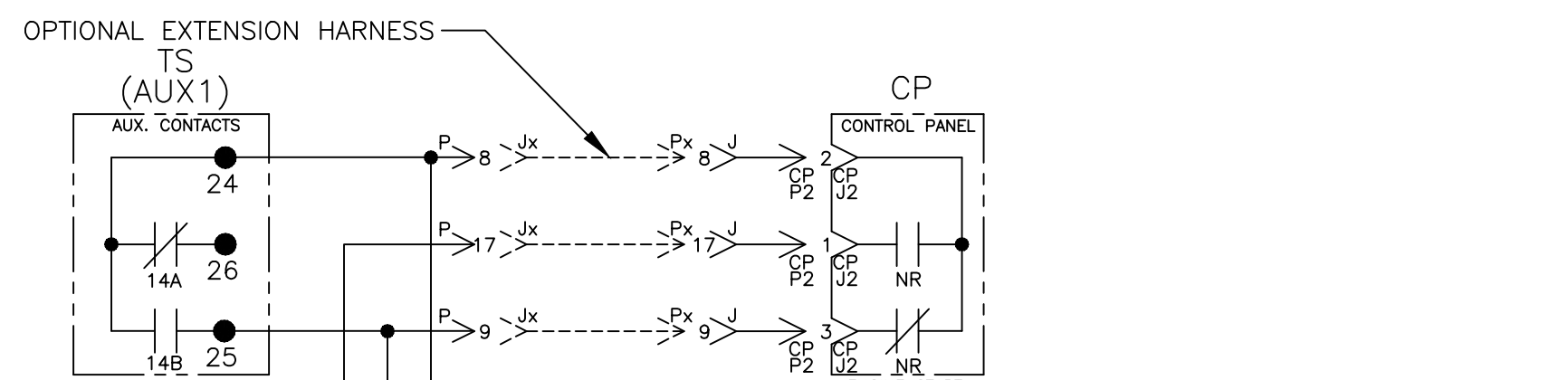
ASCO® ASCO POWER TECHNOLOGIES, L.P. FLORHAM PARK, NEW JERSEY 07932 U.S.A.

K	290845	SRS	HSL	08/13/21
J	214830	WK	BK	08/23/07
H	166908	SDH	SDH	04/28/04
G	161899	SDH	SDH	10/08/02
F	159796	WK	WK	01/15/02
E	157978	WK	BK	6/15/01
D	156602	BWM	BK	4/9/01
C	151282	JPB	JPB	3/30/99
B	147462	JPB	JPB	3/98
A	147012	JPB	JPB	2/98
-	146480	JPB	SDH	12/97

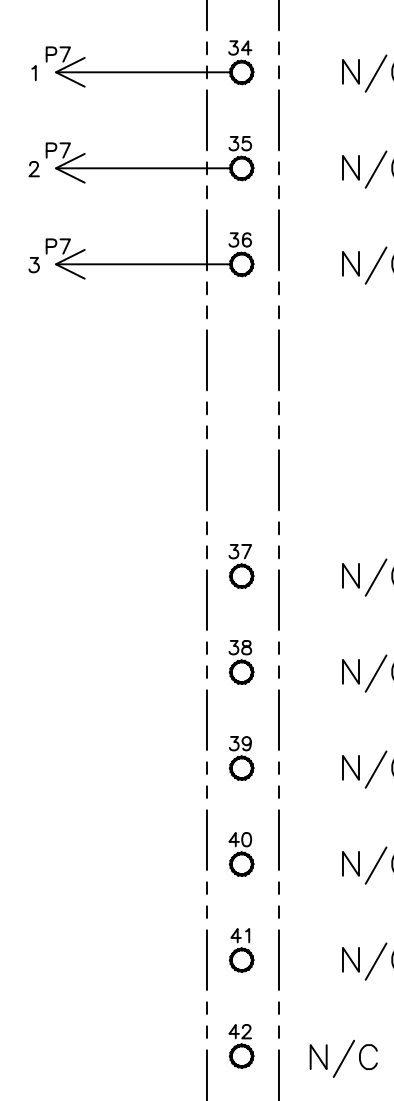
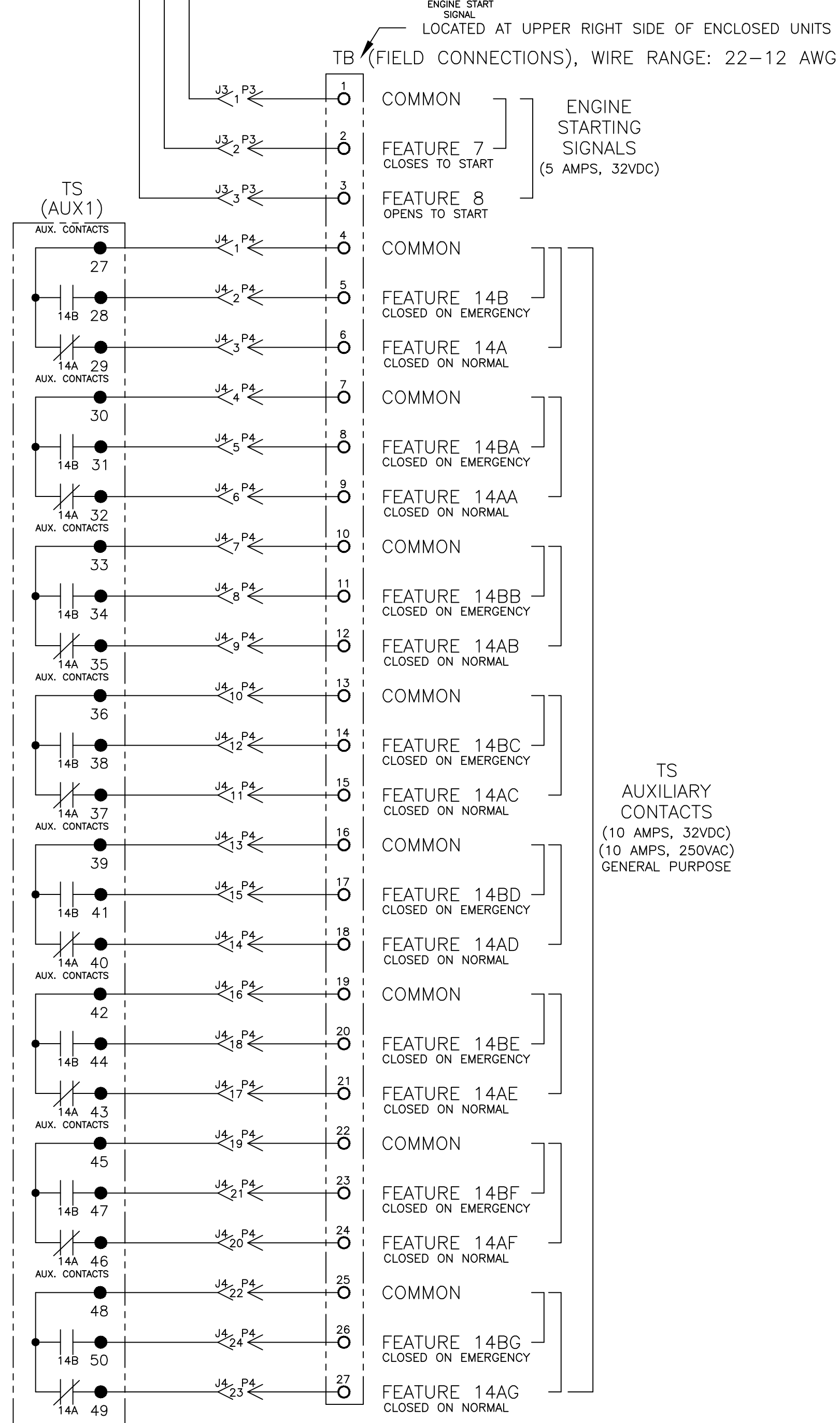
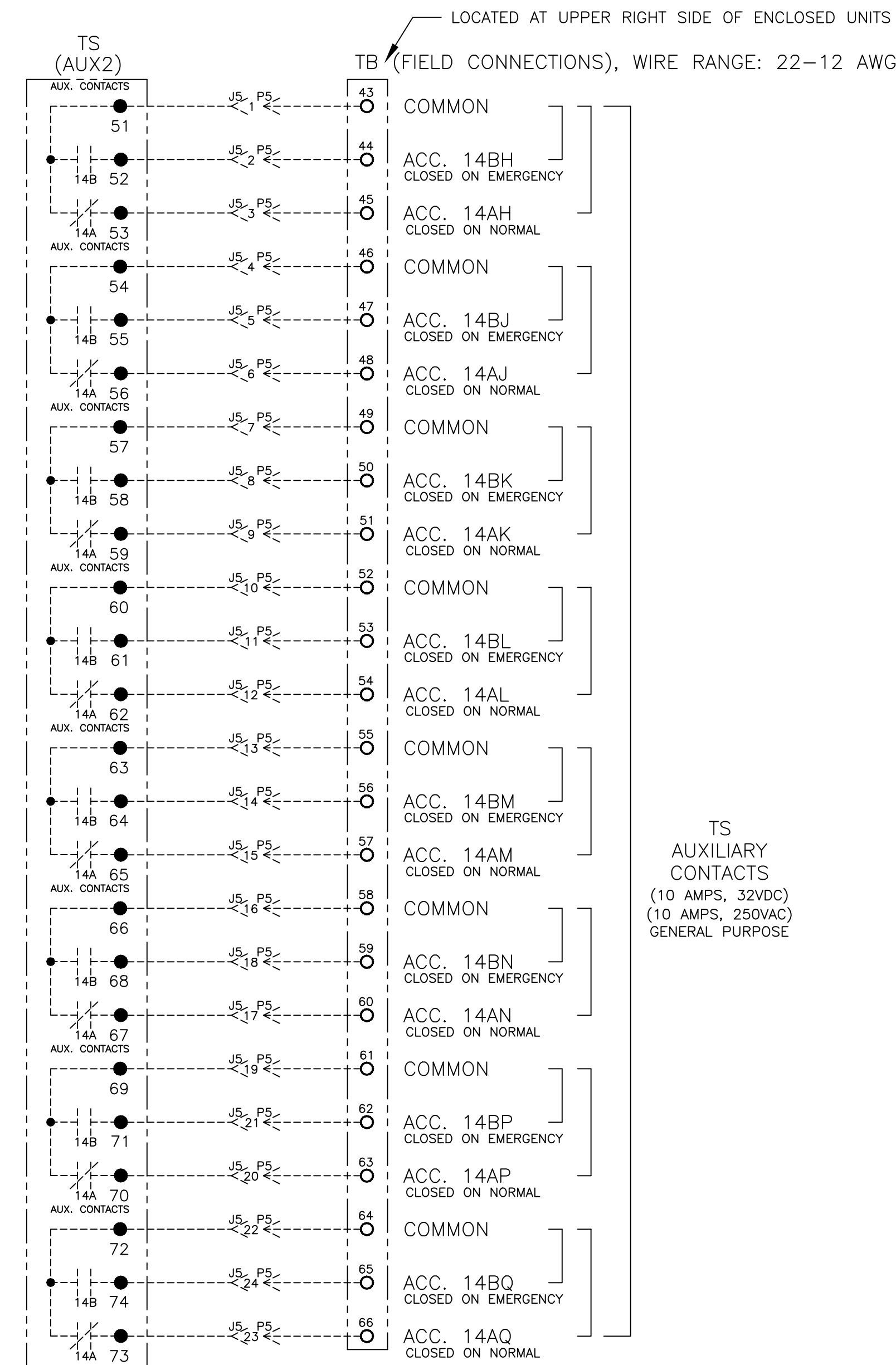
REV. TO SHEET	ECN NO.	BY	APP.	DATE

COMPUTER GENERATED DRAWING		SCALE	NO.	SIZE	DS
DWG. NO.	617409				
DRAWING REV.	K				
ECN NO.	290845				
SHEET	1				
TOTAL	6				

# FIELD CONNECTIONS



## OPTIONAL ACCESSORY (ACC.) AUXILIARY CONTACTS



K	290845	SRS	HSL	08/13/21
J	214830	WK	BK	08/23/07
H	166908	SDH	SDH	04/28/04

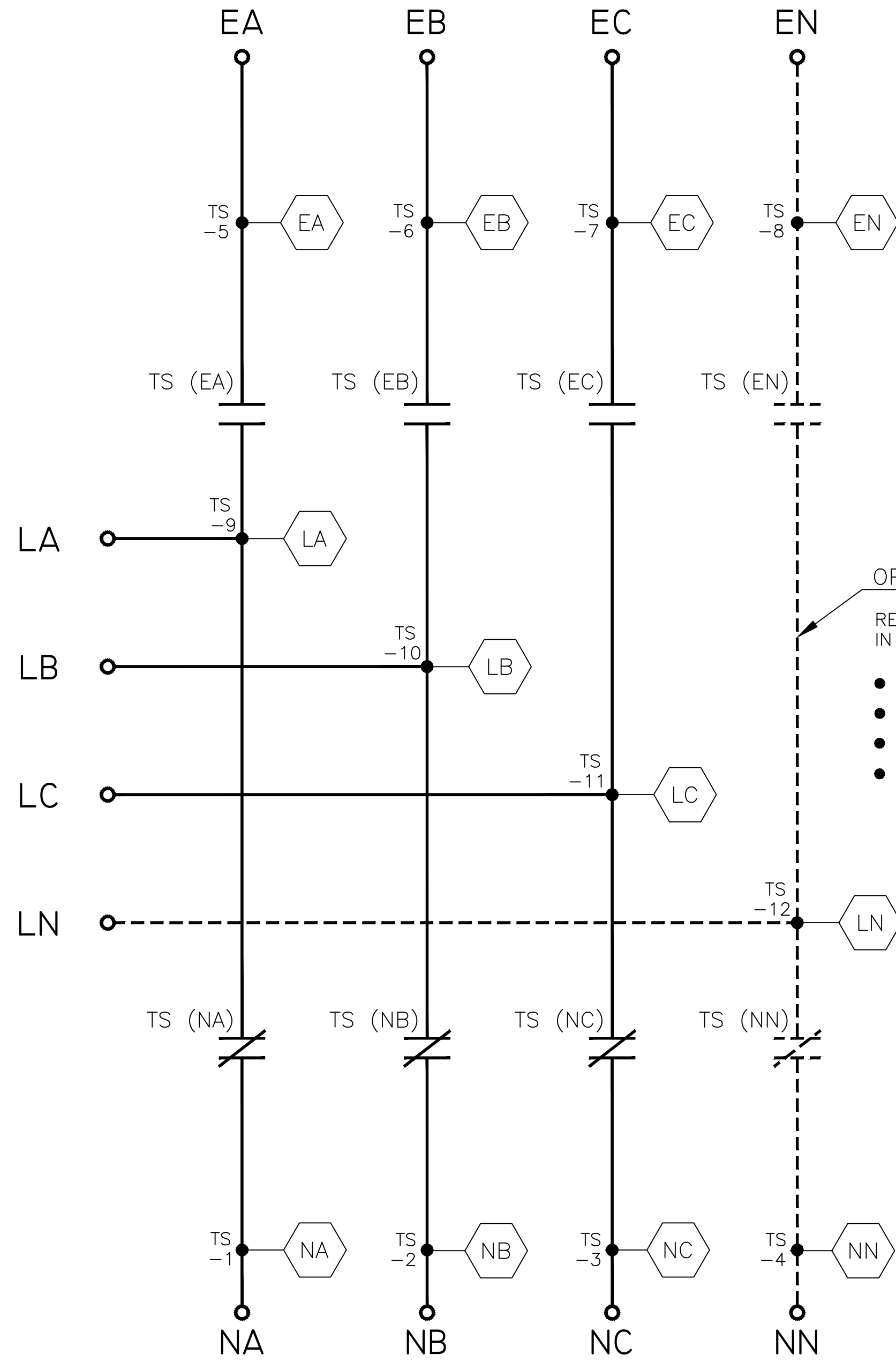
PROJECT NAME:		DIAGRAM	
7000 SERIES (G7ATS) 3PH 1000-3200 AMPS			
"G" FRAME, GROUP 5 CONTROLS			
BY	DATE	MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-1-003. FOR PLASTIC PARTS SEE MP-1-055	ASSEM. REF. NO.
JPB	12/97		
CHECKED		PROPERTY OF ASCO POWER TECHNOLOGIES. USE PERMITTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.	SCALE NONE SIZE DS
PROJECT APPROVAL			617409
FINAL APPROVAL	SDH 12/97	ASCO POWER TECHNOLOGIES, LP. FLORENCE PARK, NEW JERSEY 07932 U.S.A.	DRAWING REV. K ECN NO. 290845 SHEET 2 OF 6

MAIN POWER POLES

TS OPERATOR CIRCUIT

EMERGENCY

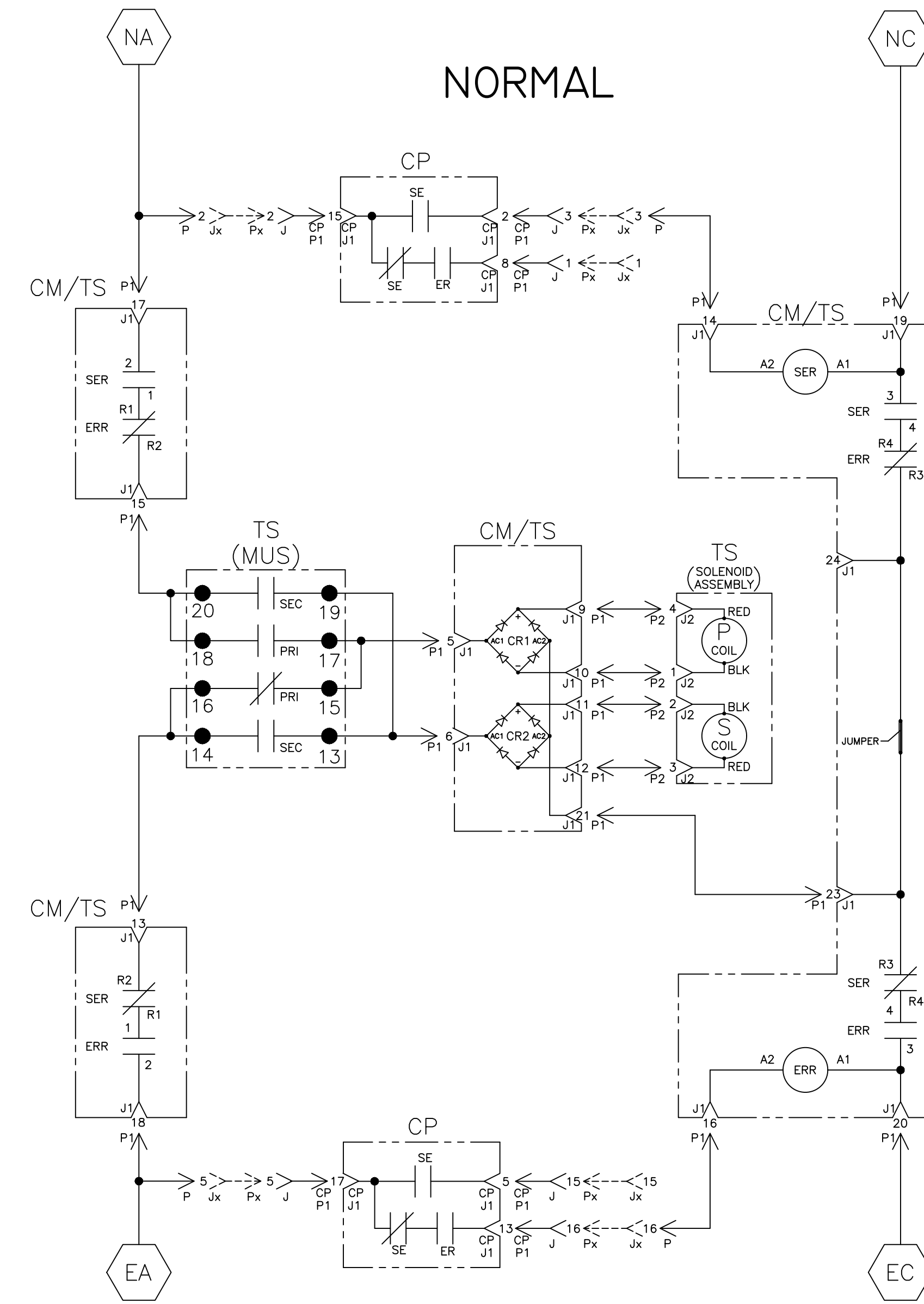
NORMAL



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

- NONE
- SWITCHING
- OVERLAPPING CONTACTS
- SOLID BUS PLATE

NOTE:  
 ATS SHOWN CLOSED ON  
 NORMAL SOURCE.



EMERGENCY

MUS	SOLENOID POSITION				
	NORM	>	AFTER TDC *	<	EMER
13-14					
15-16					
17-18					
19-20					

\* AFTER SOLENOID PASSES THROUGH TOP DEAD CENTER POSITION.

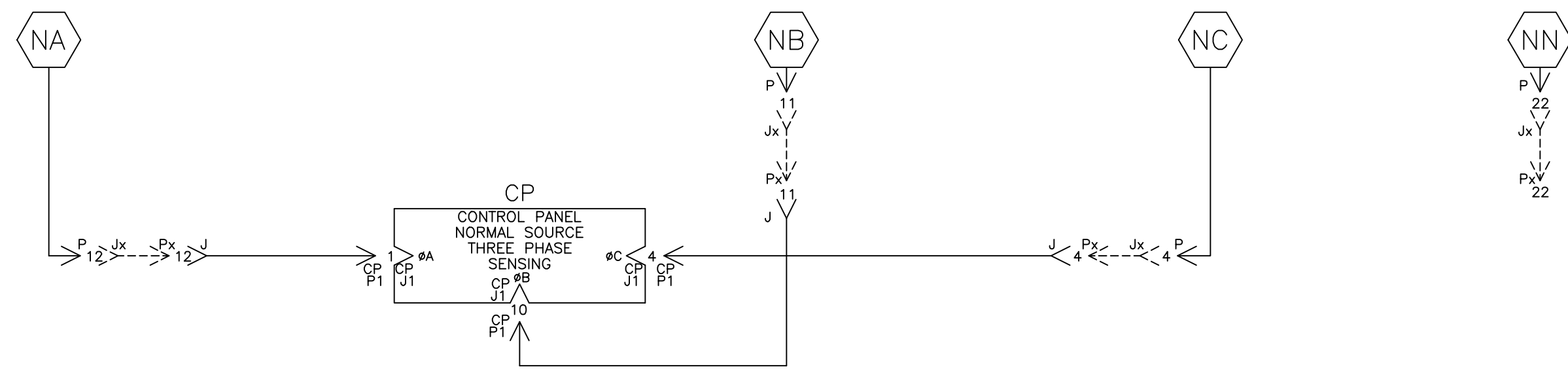
PROJECT NAME:		REV. TO SHEET	ECN NO.	BY	APP.	DATE
WIRING DIAGRAM						
7000 SERIES (G7ATS) 3PH 1000-3200 AMPS						
"G" FRAME, GROUP 5 CONTROLS						
DRAWN BY	DATE	MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-1-003. FOR PLASTIC PARTS SEE MP-1-055	ASSEM. REF. NO.	COMPUTER GENERATED DRAWING		
CHECKED		PROPERTY OF ASCO POWER TECHNOLOGIES. USE PERMITTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.		SCALE	NONE	SIZE DS
PROJECT APPROVAL		ASCO POWER TECHNOLOGIES, LP. FLOHAM PARK, NEW JERSEY 07932 U.S.A.		DWG. NO.	617409	
FINAL APPROVAL	SDH 12/97	ASCO		DRAWING REV.	K	ECN NO. 290845
						SHEET 3 OF 6

K	290845	SRS	HSL	08/13/21
SEE ECN				
J	214830	WK	BK	08/23/07
SEE ECN				
H	166908	SDH	SDH	04/28/04
SEE ECN				

NORMAL SOURCE CIRCUITS

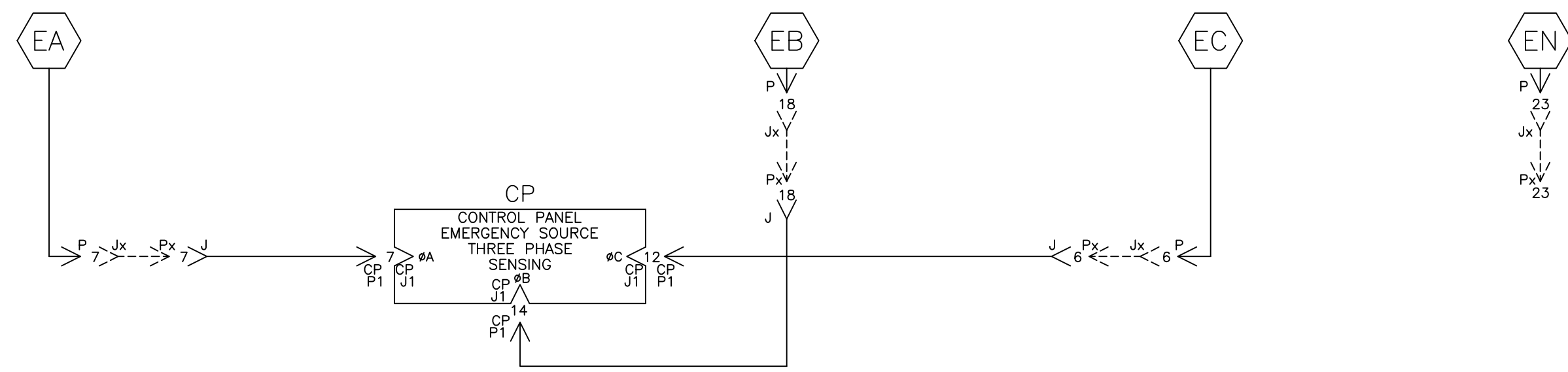
ADDITIONAL CIRCUITS

NORMAL



EMERGENCY SOURCE CIRCUITS

EMERGENCY

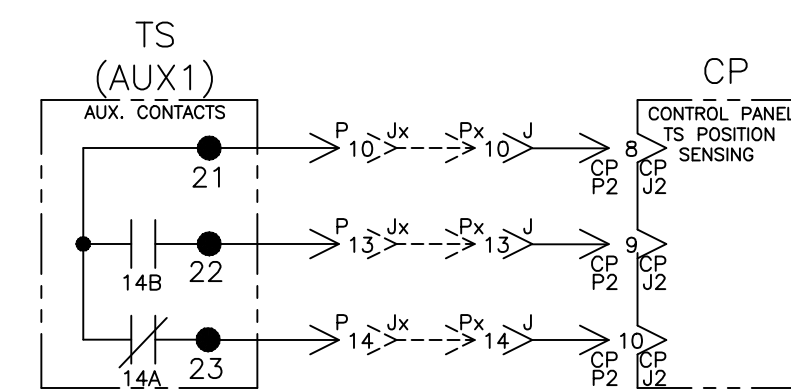


LOAD TERMINAL CIRCUITS

LOAD



CONTROL SIGNALS & INDICATION



K	290845	SRS	HSL	08/13/21
J	214830	WK	BK	08/23/07
H	166908	SDH	SDH	04/28/04

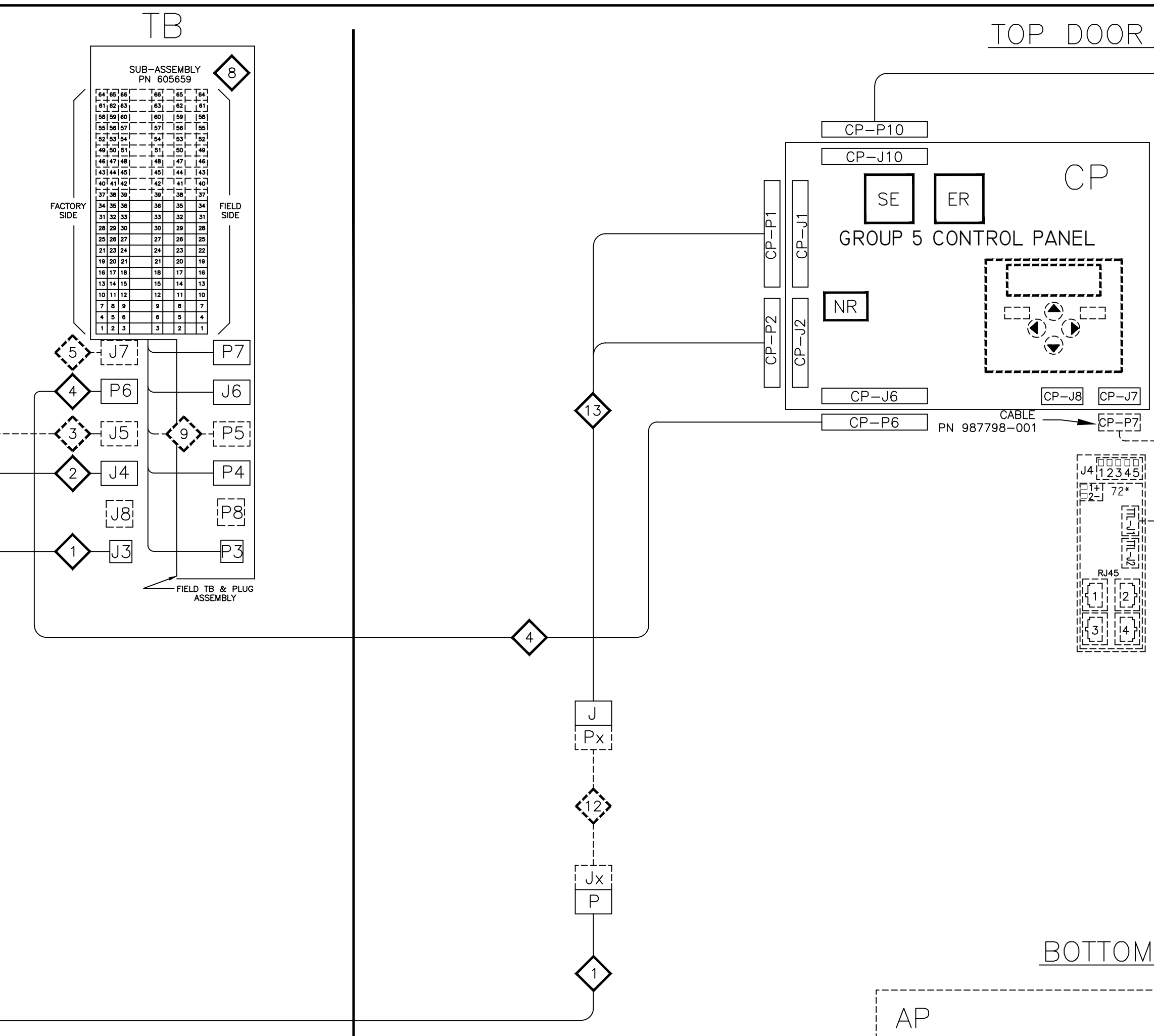
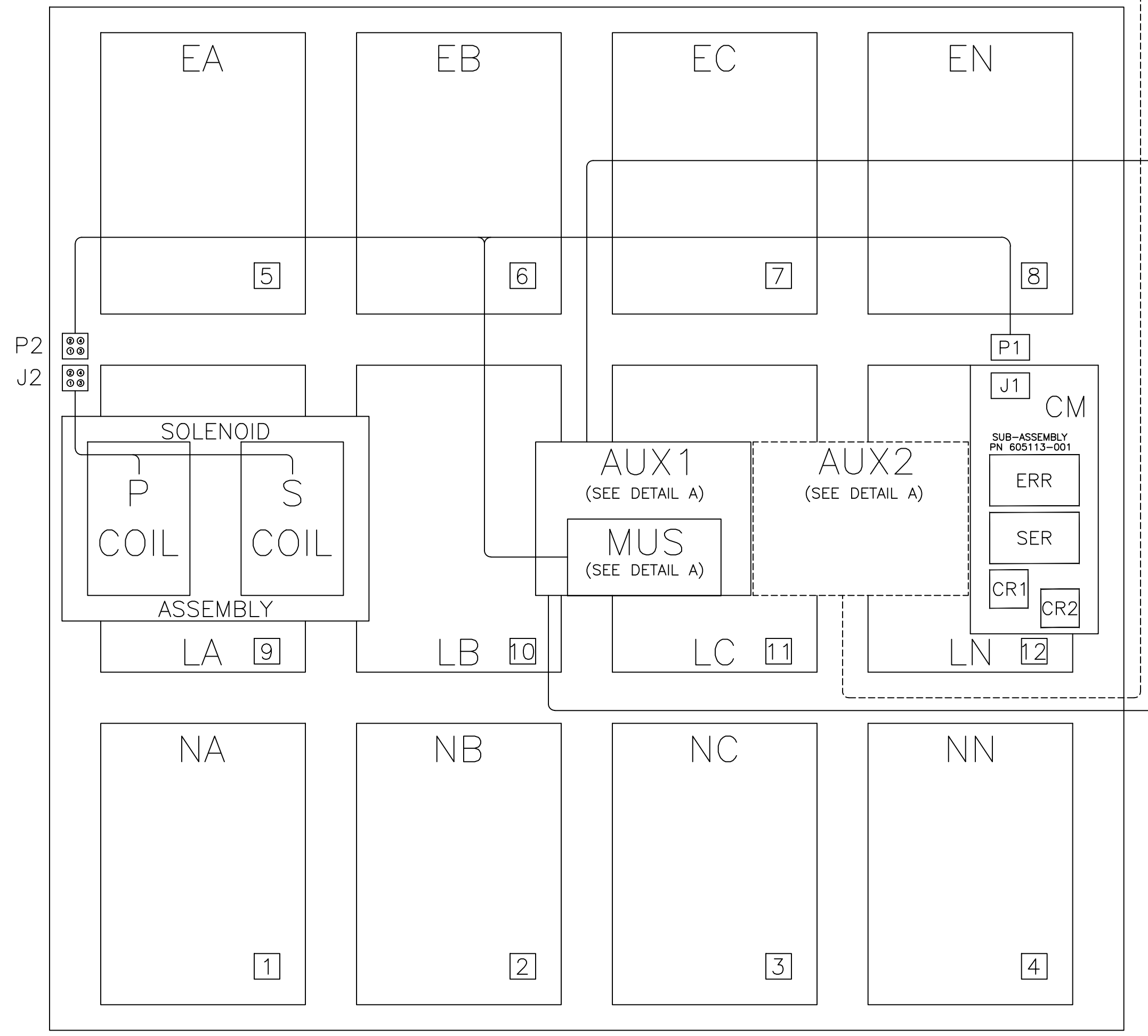
PROJECT NAME:		DIAGRAM		REV. TO SHEET	ECN NO.	BY	APP.	DATE
WIRING		DIAGRAM						
7000 SERIES (G7ATS) 3PH 1000-3200 AMPS								
"G" FRAME, GROUP 5 CONTROLS								
DRAWN BY	JPB	DATE	12/97	MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-1-003. FOR PLASTIC PARTS SEE MP-1-055		ASSEM. REF. NO.		COMPUTER GENERATED DRAWING
CHECKED				PROPERTY OF ASCO POWER TECHNOLOGIES. USE PERMITTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.		SCALE NONE SIZE DS		
PROJECT APPROVAL				DWG. NO. 617409				
FINAL APPROVAL	SDH	12/97		ASCO POWER TECHNOLOGIES, LP. FLORHAM PARK, NEW JERSEY 07932 U.S.A.		DRAWING REV. K		ECN NO. 290845 SHEET 4 OF 6

PHYSICAL DIAGRAM

ENCLOSURE

TOP DOOR (INSIDE)

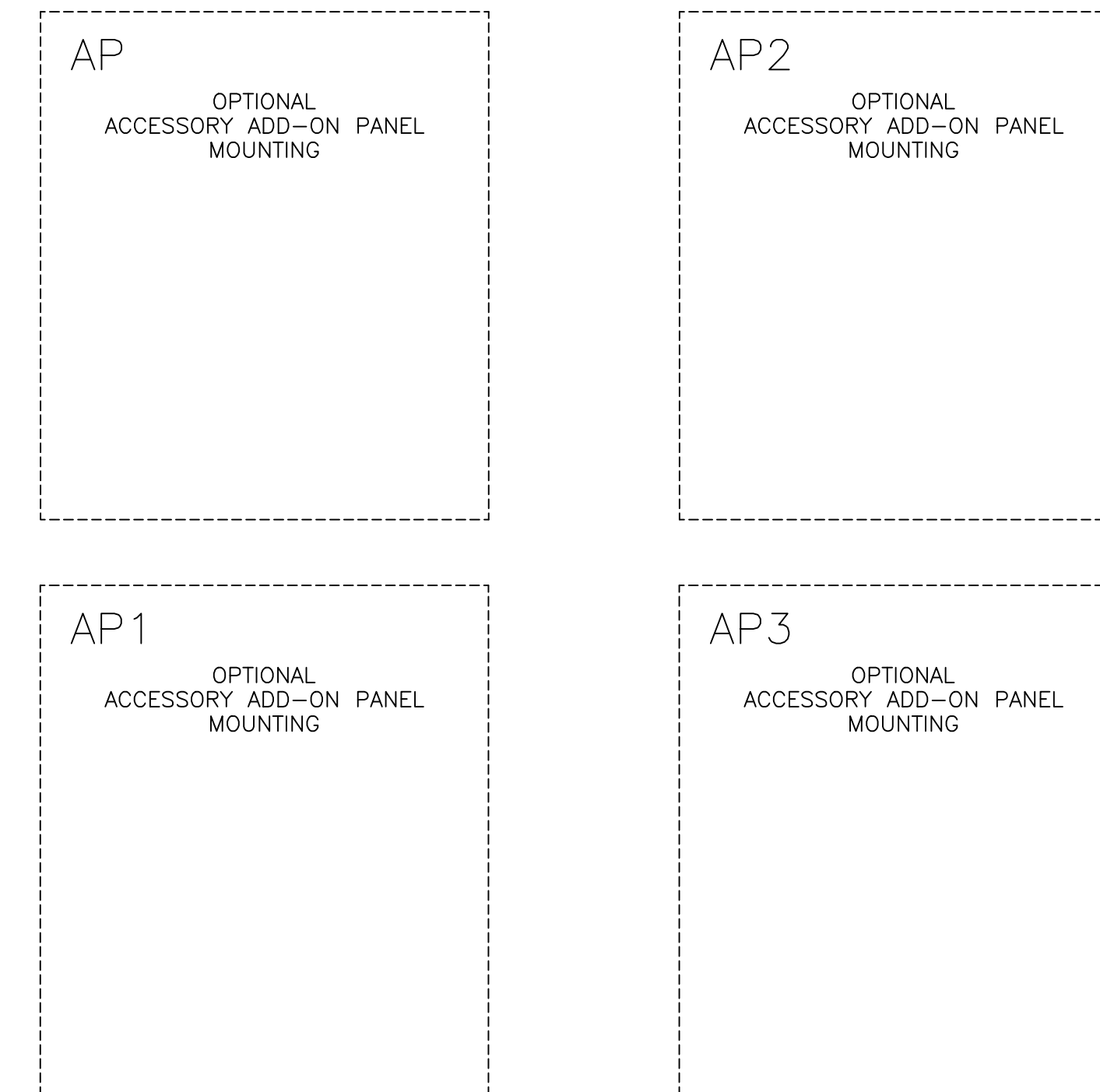
TS (TRANSFER SWITCH)



OPERATOR CONTROLS  
ESCUTCHEON MOUNTING  
PN 613653-001  
(REFER TO ASSEMBLY DRAWING FOR WIRING)

OPTIONAL  
POWERMANAGER  
OR ADDITIONAL  
OPERATOR CONTROLS  
ESCUTCHEON MOUNTING

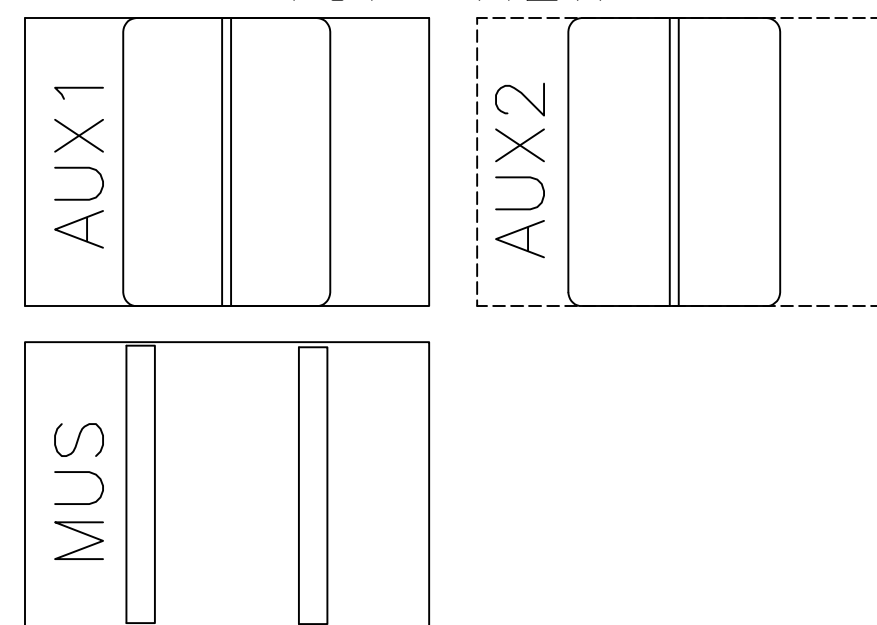
BOTTOM DOOR (INSIDE)



BONDING STRAP  
PN 098323-019

DOOR HINGE

DETAIL A  
MUS, AUX1 & AUX2  
TOP VIEW



NOTE: PHYSICAL MAY VARY BASED ON ENCLOSURE USED.

K	290845	SRS	HSL	08/13/21
J	214830	WK	BK	08/23/07
H	166908	SDH	SDH	04/28/04

PROJECT NAME:		DIAGRAM		REV. TO SHEET	BY	APP.	DATE
WIRING		7000 SERIES (G7ATS) 3PH 1000-3200 AMPS					
DRAWN BY		DATE		MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-1-003. FOR PLASTIC PARTS SEE MP-1-055		ASSEM. REF. NO.	
CHECKED		DATE		PROPERTY OF ASCO POWER TECHNOLOGIES. USE PERMITTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.		SCALE NONE SIZE DS	
PROJECT APPROVAL		DATE		617409		COMPUTER GENERATED DRAWING	
FINAL APPROVAL		DATE		ASCO POWER TECHNOLOGIES, LP.		DRAWING REV. K ECN NO. 290845 SHEET 5 OF 6	



# WIRE RUN LISTING

HARNESS LOCATOR		BOX CHECKED IF HARNESS IS MODIFIED			
WIRE No.	HARNESS 605454 (P1,P2,J3) MAIN TS	CLR	AWG		
1	P-2,TS-1		16		
2	P-3,P1-14				
3	P-4,TS-3				
4	P-5,TS-5				
5	P-6,TS-7				
6	P-7,TS-5				
6	P-8,TS(AUX1)-24				
6	TS(AUX1)-24,J3-1				
7	P-9,TS(AUX1)-25				
7	TS(AUX1)-25,J3-2				
8	P-10,TS(AUX1)-21				
9	P-11,TS-2				
10	P-12,TS-1				
11	P-13,TS(AUX1)-22				
12	P-14,TS(AUX1)-23				
13	P-16,P1-16				
14	P-17,J3-3				
15	P-18,TS-6				
16	P-19,TS-9				
17	P-20,TS-10				
18	P-21,TS-11				
19	P-22,TS-4				
20	P-23,TS-8				
21	P-24,TS-12				
22	P1-5,TS(MUS)-17				
22	TS(MUS)-17,TS(MUS)-15				
23	P1-6,TS(MUS)-19				
23	TS(MUS)-19,TS(MUS)-13				
24	P1-9,P2-4				
25	P1-10,P2-1				
26	P1-11,P2-2				
27	P1-12,P2-3				
28	P1-13,TS(MUS)-16				
28	TS(MUS)-16,TS(MUS)-14				
29	P1-15,TS(MUS)-20				
29	TS(MUS)-20,TS(MUS)-18				
1	P1-17,TS-1				
4	P1-18,TS-5				
3	P1-19,TS-3				
5	P1-20,TS-7				
30	P1-21,P1-23				
ADD WIRES					
200	P-1				
222	P-15				
201	P1-1				
202	P1-2				
203	P1-3				
204	P1-4				
205	P1-7				
206	P1-8				
207	P1-16				
208	P1-22				
209	P1-24				
221	J3-4				

HARNESS LOCATOR		BOX CHECKED IF HARNESS IS MODIFIED			
WIRE No.	HARNESS 605454-001 (J4) STANDARD AUX. CONTACTS	CLR	AWG		
40	J4-1,TS(AUX1)-27		16		
41	J4-2,TS(AUX1)-28				
42	J4-3,TS(AUX1)-29				
43	J4-4,TS(AUX1)-30				
44	J4-5,TS(AUX1)-31				
45	J4-6,TS(AUX1)-32				
46	J4-7,TS(AUX1)-33				
47	J4-8,TS(AUX1)-34				
48	J4-9,TS(AUX1)-35				
49	J4-10,TS(AUX1)-36				
50	J4-11,TS(AUX1)-37				
51	J4-12,TS(AUX1)-38				
52	J4-13,TS(AUX1)-39				
53	J4-14,TS(AUX1)-40				
54	J4-15,TS(AUX1)-41				
55	J4-16,TS(AUX1)-42				
56	J4-17,TS(AUX1)-43				
57	J4-18,TS(AUX1)-44				
58	J4-19,TS(AUX1)-45				
59	J4-20,TS(AUX1)-46				
60	J4-21,TS(AUX1)-47				
61	J4-22,TS(AUX1)-48				
62	J4-23,TS(AUX1)-49				
63	J4-24,TS(AUX1)-50				

HARNESS LOCATOR		BOX CHECKED IF HARNESS IS MODIFIED			
WIRE No.	HARNESS 605454-002 (J5) OPTIONAL AUX. CONTACTS	CLR	AWG		
70	J5-1,TS(AUX2)-51		16		
71	J5-2,TS(AUX2)-52				
72	J5-3,TS(AUX2)-53				
73	J5-4,TS(AUX2)-54				
74	J5-5,TS(AUX2)-55				
75	J5-6,TS(AUX2)-56				
76	J5-7,TS(AUX2)-57				
77	J5-8,TS(AUX2)-58				
78	J5-9,TS(AUX2)-59				
79	J5-10,TS(AUX2)-60				
80	J5-11,TS(AUX2)-61				
81	J5-12,TS(AUX2)-62				
82	J5-13,TS(AUX2)-63				
83	J5-14,TS(AUX2)-64				
84	J5-15,TS(AUX2)-65				
85	J5-16,TS(AUX2)-66				
86	J5-17,TS(AUX2)-67				
87	J5-18,TS(AUX2)-68				
88	J5-19,TS(AUX2)-69				
89	J5-20,TS(AUX2)-70				
90	J5-21,TS(AUX2)-71				
91	J5-22,TS(AUX2)-72				
92	J5-23,TS(AUX2)-73				
93	J5-24,TS(AUX2)-74				

HARNESS LOCATOR		BOX CHECKED IF HARNESS IS MODIFIED			
WIRE No.	HARNESS 619510-005 (P6) FIELD INPUTS	CLR	AWG		
100	P6-1,CP-P6-21	WHT	22 (2 COND)		
101	P6-2,CP-P6-22	ORG			
102	P6-3,CP-P6-23	GRN			
103	P6-4,CP-P6-9	BLK			
104	P6-5,CP-P6-10	RED			
ADD WIRES					
105	P6-6		16		
106	P6-7				
107	P6-8				
108	P6-9				
109	P6-10				
110	P6-11				
111	P6-12				
112	P6-13				
113	P6-14				
114	P6-15				
115	P6-16				
116	P6-17				
117	P6-18				
118	P6-19				
119	P6-20				
120	P6-21				
121	P6-22				
122	P6-23				
123	P6-24				

HARNESS LOCATOR		BOX CHECKED IF HARNESS IS MODIFIED			
WIRE No.	HARNESS (J7) FIELD OUTPUTS	CLR	AWG		
130	J7-1		16		
131	J7-2				
132	J7-3				
133	J7-4				
134	J7-5				
135	J7-6				
136	J7-7				
137	J7-8				
138	J7-9				
139	J7-10				
140	J7-11				
141	J7-12				
142	J7-13				
143	J7-14				
144	J7-15				
145	J7-16				
146	J7-17				
147	J7-18				
148	J7-19				
149	J7-20				
150	J7-21				
151	J7-22				
152	J7-23				
153	J7-24				

HARNESS LOCATOR		BOX CHECKED IF HARNESS IS MODIFIED			
WIRE No.	SUB-ASSEMBLY 605659 (P3,P4,J6,P7,TB) STD. FIELD TB	CLR	AWG		
6	TB-1,P3-1		16		
7	TB-2,P3-2				
14	TB-3,P3-3				
40	TB-4,P4-1				
41	TB-5,P4-2				
42	TB-6,P4-3				
43	TB-7,P4-4				
44	TB-8,P4-5				
45	TB-9,P4-6				
79	TB-10,P4-7				
47	TB-11,P4-8				
48	TB-12,P4-9				
49	TB-13,P4-10				
51	TB-14,P4-12				
50	TB-15,P4-11				
52	TB-16,P4-13				
54	TB-17,P4-15				
53	TB-18,P4-14				
55	TB-19,P4-16				
57	TB-20,P4-18				
56	TB-21,P4-17				
58	TB-22,P4-19				
60	TB-23,P4-21				
59	TB-24,P4-20				
61	TB-25,P4-22				
63	TB-26,P4-24				
62	TB-27,P4-23				
100	TB-28,J6-1				
101	TB-29,J6-2				
102	TB-30,J6-3				
103	TB-31,J6-4				
104	TB-32,J6-5				
130	TB-34,P7-1				
131	TB-35,P7-2				
132	TB-36,P7-3				
JUMPERS					
	TB-28,TB-29				
	TB-29,TB-30				
ADD WIRES					
221	P3-4				
105	J6-6				
106	J6-7				
107	J6-8				
108	J6-9				
109	J6-10				
110	J6-11				
111	J6-12				
112	J6-13				
113	J6-14				
114	J6-15				
115	J6-16				
116	J6-17				
117	J6-18				
118	J6-19				
119	J6-20				
120	J6-21				
121	J6-22				
122	J6-23				
123	J6-24				
133	P7-4				
134	P7-5				
135	P7-6				
136	P7-7				
137	P7-8				
138	P7-9				
139	P7-10				
140	P7-11				
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142	P7-13				
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144	P7-15				
145	P7-16				
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147	P7-18				
148	P7-19				
149	P7-20				
150	P7-21				
151	P7-22				
152	P7-23				
153	P7-24				

HARNESS LOCATOR		BOX CHECKED IF HARNESS IS MODIFIED			
WIRE No.	HARNESS 605454-008 (P5,TB) OPT. AUX. CONTACTS	CLR	AWG		
70	TB-43,P5-1		16		
71	TB-44,P5-2				
72	TB-45,P5-3				
73	TB-46,P5-4				
74	TB-47,P5-5				
75	TB-48,P5-6				
76	TB-49,P5-7				
77	TB-50,P5-8				
78	TB-51,P5-9				
79	TB-52,P5-10				
80	TB-53,P5-11				
81	TB-54,P5-12				
82	TB-55,P5-13				
83	TB-56,P5-14				
84	TB-57,P5-15				
85	TB-58,P5-16				
87	TB-59,P5-18				
86	TB-60,P5-17				
88	TB-61,P5-19				
90	TB-62,P5-21				
89	TB-63,P5-20				
91	TB-64,P5-22				
93	TB-65,P5-24				
92	TB-66,P5-23				

HARNESS LOCATOR		BOX CHECKED IF HARNESS IS MODIFIED			
WIRE No.	HARNESS 309320-005 OPTIONAL 8" EXTENSION HARNESS	CLR	AWG		
200	Jx-1,Px-1		16		
1	Jx-2,Px-2				
2	Jx-3,Px-3				
3	Jx-4,Px-4				
4	Jx-5,Px-5				
5	Jx-6,Px-6				
4	Jx-7,Px-7				
6	Jx-8,Px-8				
7	Jx-9,Px-9				
8	Jx-10,Px-10				
9	Jx-11,Px-11				
10	Jx-12,Px-12				
11	Jx-13,Px-13				
12	Jx-14,Px-14				
222	Jx-15,Px-15				
13	Jx-16,Px-16				
14	Jx-17,Px-17				
15	Jx-18,Px-18				
16	Jx-19,Px-19				
17	Jx-20,Px-20				
18	Jx-21,Px-21				
19	Jx-22,Px-22				
20	Jx-23,Px-23				
21	Jx				



## EQUIPMENT STORAGE REQUIREMENTS

Equipment provided by Schneider-Electric and/or ASCO Power Technologies that is stored for a short-term duration (i.e., days to weeks) or long-term duration (i.e., months to years), must be kept in a cool, dry, temperature-controlled environment. Storage of equipment in open warehouses, locations without proper temperature and humidity control, and/or outdoor storage is not acceptable without the utilization of heating elements, thermostats, humidistats, and protection from weather and dirt. Failure to comply may result in moisture ingress and/or condensation to form resulting in rusting and or corrosion, component and/or equipment failure and replacement, and/or nullification of any manufacturer warranty.

For **General Instructions for Proper Handling, Installation, Operation, and Maintenance of Deadfront Distribution Switchboards Rated 600 Volts or Less**, refer to [ANSI NEMA PB 2.1-2013](#)

Copies of the following documents should be included on the submittals, depending on the units that are on the proposal:

For ASCO Power Technology's **Switchgear and Switchboards**, refer to Instruction Bulletin **381333-393**.

For Schneider-Electric/Square D's **Power Zone 4 (PZ4) Switchgear**, refer to Instruction Bulletin **80298-002-09**.

For Schneider-Electric/Square D's **Power Zone 4 (PZ4) NEMA 3R Walk-In Switchgear**, refer to Instruction Bulletin **80298-156-02**.

For Schneider-Electric/Square D's **Quality, Efficient, Delivery" (QED2) Switchboard**, refer to Instruction Bulletin **80043-055-14**.

For Schneider-Electric/Square D's **Masterclad Metal-Clad Indoor Switchgear**, refer to Instruction Bulletin **6055-30**.

The ASCO Service Entrance Power Transfer Switch combines automatic power switching with the disconnecting, grounding, and bonding required for use as service entrance equipment. It meets all National Electrical Code® requirements for service entrance use.



ASCO SERIES 300  
SE Rated 800 amperes Type 1 enclosure



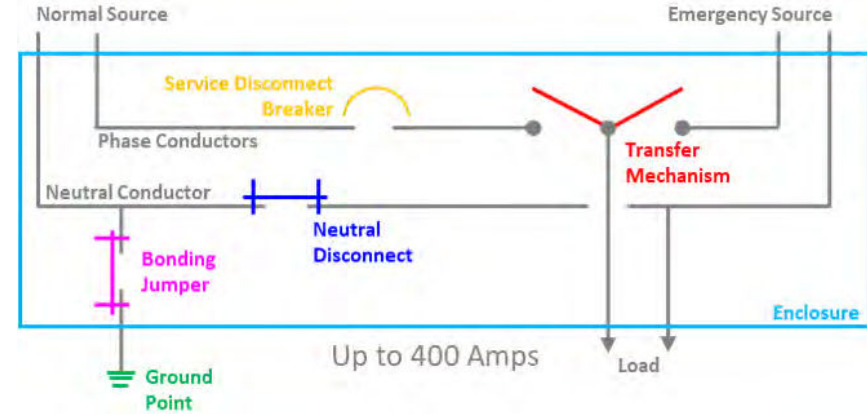
ASCO SERIES 300  
SE Rated 200 amperes in Type 3R enclosure

## Product Features:

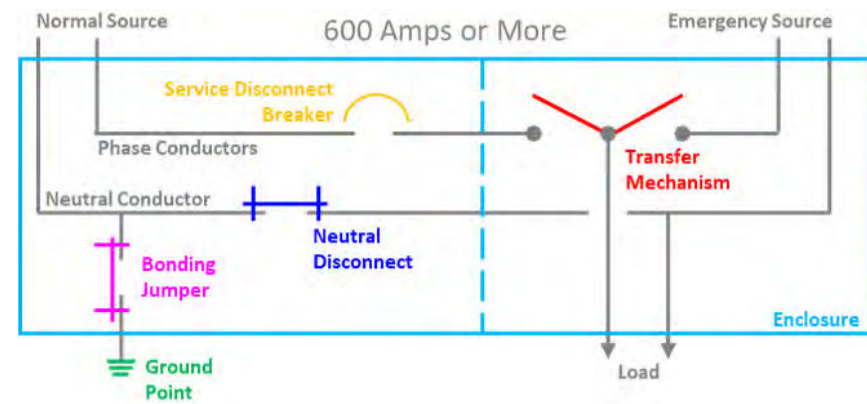
- Sizes available from 70 - 3000 amps, 600 VAC, 50 or 60 Hz, single or 3-phase
- 70 - 400 Ampere listed to UL 1008
- 600 - 3000 Ampere listed to UL 891
- Automatic Transfer Switch is listed to UL 1008 for total system loads
- Silver plated copper ground and neutral bus with solderless screw type terminals
- Ground fault trip protection provided on 1000 amps and above
- Available with solid or switched neutral
- Line side breaker barriers available in compliance with NEC2020

## Construction

Products 400 amperes or less, utilize a single enclosure, including a service disconnect circuit breaker, as well as the transfer switch and grounding and bonding provisions.



Products 600 amperes and above provide a service equipment section containing the service disconnect circuit breaker as well as grounding and bonding provisions. A second section contains the power transfer switch.



For additional detail, see the [interactive 3-D view](#) in the [ASCO Digital Hub](#).

## Order Information

To order an ASCO SERIES 300SE Power Transfer Switch, complete the following catalog number:

J	+	03AUS	+	B	+	3	+	0600	+	N	+	GX	+	C
Frame		Product Type		Neutral Code		Phase Poles		Amperes Continuous Rating		Voltage Code		Controller Code		Enclosure
D = 70 - 225 Amp		03AUS = Automatic		A = Solid Neutral		2		0070, 0100, 0150, 0200,		C = 208 D = 220 E = 230 F = 240 H = 380 J = 400 K = 415 L = 440 M = 460 N = 480 P = 550 Q = 575 R = 600		G = No Optional Accessories		C = Type 1 (Standard) M = Type 3R Secure Double Door N = Type 4 <sup>1</sup> Secure Double Door Q = Type 12 <sup>1</sup> Secure Double Door V = Type 4X <sup>4,5</sup> Secure Double Door 316 SS
J = 150 - 600 Amp 150A - 225A: 3ADUS/3NDUS Only		03NUS = Non-Automatic		B = Switched Neutral		3		0225 <sup>3</sup> , 0250 <sup>3</sup> , 0400, 0600, 0800, 1000, 1200, 1600, 2000 2500, 3000				GX = Optional Accessories		
H = 800 - 1200 Amp		3ADUS = Automatic Delayed Transition												
G = 1600 - 3000 Amp		3NDUS = Non-Automatic, Delayed Transition												

**Notes:**  
 1. Available for 70-1600 amperes, use type 3R for 2000-3000 ampere applications.  
 2. A solid neutral is provided as standard.  
 3. 200, 225 ampere rated switches suitable for use with copper cable only. Refer to paragraph 310.15 of the NEC for additional information.

4. Type 316 stainless steel is the standard. It provides an improved reduction in corrosion of salt and some chemicals. It is the preferred choice for marine environments.  
 5. Available only on switches rated 70 - 1600 amperes.

## Specifications

ASCO SERIES 300SE Power Transfer Switch Dimensions and Shipping Weights

### UL Type 1 Enclosure<sup>4</sup>

Switch Rating Amps	Phase Poles	Neutral Code	Dimensions, In. (mm)			Approx. Shipping Weight Lb. (kg)
			Width	Height	Depth	
70, 100, 150, 200, 225	2	A	36 (914)	48 (1219)	13 (330)	400 (185)
	2	B	36 (914)	48 (1219)	13 (330)	410 (189)
	3	A	36 (914)	48 (1219)	13 (330)	410 (189)
150, 200, 225, SERIES 3ADUS/3NDUS Only	2	A	36 (914)	48 (1219)	13 (330)	400 (185)
	2	B	36 (914)	48 (1219)	13 (330)	408 (188)
	3	A	36 (914)	48 (1219)	13 (330)	408 (188)
2501, 4001	2	A	42 (1067)	48 (1219)	15.5 (394)	420 (193)
	2	B	42 (1067)	48 (1219)	15.5 (394)	430 (198)
	3	A	42 (1067)	48 (1219)	15.5 (394)	430 (198)
6001	2	A	38 (965)	91 (2311)	28 (711)	860 (396)
	2	B	38 (965)	91 (2311)	28 (711)	870 (401)
	3	A	38 (965)	91 (2311)	28 (711)	870 (401)
8001	2	A	38 (965)	91 (2311)	28 (711)	1460 (673)
	2	B	38 (965)	91 (2311)	28 (711)	1470 (677)
	3	A	38 (965)	91 (2311)	28 (711)	1470 (677)
10001, 12001	2	A	38 (965)	91 (2311)	28 (711)	1480 (682)
	2	B	38 (965)	91 (2311)	28 (711)	1470 (677)
	3	A	38 (965)	91 (2311)	28 (711)	1470 (677)
16001, 20001	2	A	38 (965)	91 (2311)	28 (711)	1680 (773)
	2	B	38 (965)	91 (2311)	28 (711)	1680 (773)
	3	A	38 (965)	91 (2311)	28 (711)	1680 (773)
25001, 30001	2	A	38 (965)	91 (2311)	28 (711)	4590 (2111)
	2	B	38 (965)	91 (2311)	28 (711)	4590 (2111)
	3	A	38 (965)	91 (2311)	28 (711)	4590 (2111)

**Notes:**  
 1. Unit is designed for top and bottom cable entry for all services and load.  
 2. Enclosures for 600 - 3000 amps are freestanding.  
 3. A space heater accessory 44G is required with all service entrance (Type 3R) switches to help reduce condensation and protect the circuit breaker. It is recommended when environmental enclosures (Type 4, 12) are ordered for installation outdoors. See Optional Accessories page for space heater options (acc. 44G).  
 4. Dimensional data is approximate and subject to change. Certified dimensions available upon request.

### SERIES 300SE External Power Connections Sizes UL-Listed Solderless Screw-Type Terminals

Switch Rating	Ranges of AL-CU Wire Sizes
70, 100, 150, 200 <sup>2</sup> , 225 <sup>2</sup>	One #14 to 4/0 AWG
150 <sup>3</sup> , 200 <sup>3</sup> , 225 <sup>3</sup> , 250, 400	One #4 AWG to 600 MCM Two 1/0 to 250 MCM
600	Two 1/0 to 600 MCM
800, 1000, 1200	Four 1/0 to 600 MCM
1600, 2000	Six 1/0 to 600 MCM
2500	Twelve 3/0 to 750 MCM
3000	Twelve 3/0 to 750 MCM

**Notes:**  
 1. All SERIES 300 switches default to a solid neutral assembly unless a switched neutral is specified. If no neutral is required, order as solid neutral and left unwired.  
 2. 200 and 225 ampere rated switches for use with copper cable only. Refer to paragraph 310.15 of the NEC for all additional information.  
 3. J 150-225 ampere for SERIES 3ADUS/3NDUS only.  
 4. Use wire rated 75 degrees minimum for all power connections.  
 5. Refer to the outline drawing for maximum power cable connections for circuit breaker.

### UL Type 3R Enclosure<sup>4</sup>

Switch Rating Amps	Phase Poles	Neutral Code	Dimensions, In. (mm)			Approx. Shipping Weight Lb. (kg)
			Width	Height	Depth	
70, 100, 150, 200, 225	2	A	36 (914)	48 (1219)	16 (406)	500 (232)
	2	B	36 (914)	48 (1219)	16 (406)	520 (241)
	3	A	36 (914)	48 (1219)	16 (406)	520 (241)
150, 200, 225, SERIES 3ADUS/3NDUS Only	2	A	41 (1041)	95.5 (2424)	33 (838)	500 (232)
	2	B	41 (1041)	95.5 (2424)	33 (838)	520 (241)
	3	A	41 (1041)	95.5 (2424)	33 (838)	520 (241)
2501, 4001	2	A	42 (1067)	48 (1219)	18 (487)	500 (232)
	2	B	42 (1067)	48 (1219)	18 (487)	520 (241)
	3	A	42 (1067)	48 (1219)	18 (487)	520 (241)
6001	2	A	41 (1041)	95.5 (2425)	33 (838)	1200 (555)
	2	B	41 (1041)	95.5 (2425)	33 (838)	1220 (564)
	3	A	41 (1041)	95.5 (2425)	33 (838)	1220 (564)
8001	2	A	38 (965)	91 (2311)	28 (711)	1520 (703)
	2	B	38 (965)	91 (2311)	28 (711)	1540 (712)
	3	A	38 (965)	91 (2311)	28 (711)	1540 (712)
10001, 12001	2	A	38 (965)	91 (2311)	28 (711)	1580 (731)
	2	B	38 (965)	91 (2311)	28 (711)	1540 (712)
	3	A	38 (965)	91 (2311)	28 (711)	1540 (712)
16001, 20001	2	A	38 (965)	91 (2311)	28 (711)	2200 (1018)
	2	B	38 (965)	91 (2311)	28 (711)	2240 (1036)
	3	A	38 (965)	91 (2311)	28 (711)	2240 (1036)
25001, 30001	2	A	38 (965)	91 (2311)	28 (711)	5280 (2479)
	2	B	38 (965)	91 (2311)	28 (711)	5380 (2475)
	3	A	38 (965)	91 (2311)	28 (711)	5380 (2475)

### Extended Warranties for SERIES 300SE Transfer Switches (3AUS/3NUS/3ADUS/3NDUS)

Description
1 Year Extension (Total of 3 Years)
2 Year Extension (Total of 4 Years)
3 Year Extension (Total of 5 Years)

**Notes:**  
 1. Standard warranty is (24) months, 2 years from date of shipment, extended warranty is in addition to the two years, for a total of 3, 4 or 5 years, except where the warranty period for the circuit breaker shall be limited to 24 months from date of shipment from ASCO.  
 2. Refer to Publication 3223 for warranty terms and conditions.

### SERIES 300SE AIC Breaker Rating<sup>1</sup>

Switch Rating	AIC Rating (kA)	Voltage
70, 100, 150, 200, 225	85	480
150, 200, 225 SERIES 3ADUS/3NDUS Only	85	480
250, 400, 600	85	480
800	65	480
1000, 1200	50	480
1600, 2000	65	480
2500, 3000	100	480