

ATS Submittal

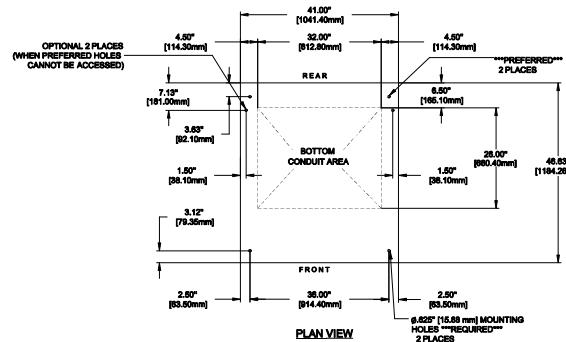
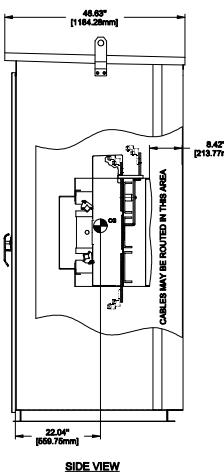
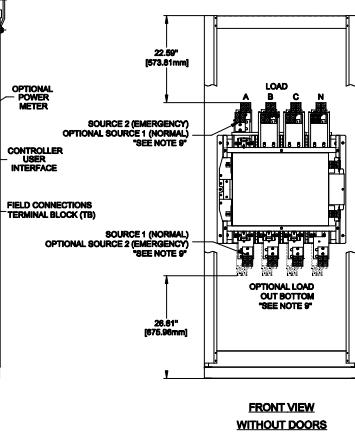
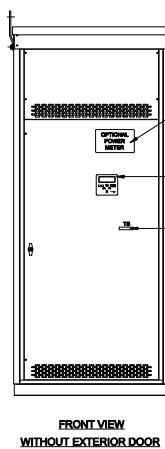
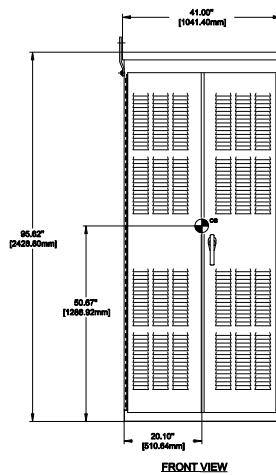
Transfer Switch Details

#10	ATS	AMPS: 2000	QTY: 2
Product	: Series 300	Catalog Number	: G03ATSB32000CGXM
Service Voltage / Hz	: 208V/60Hz	Optional Accessories	: 11BE,44G
Bypass Isolation	: Not Applicable	Product Description	: 300 Series, Automatic Open Transition Transfer Switch
No. of Switched Poles: 4	: 4	Neutral Configuration	: Switched [B]
Withstand Rating:	: See WCR Table Below	No. of Cables & Lug Size	: 6, 1/0 AWG to 600 MCM
Frame = G, Switch Rating = 2000, 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

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GENERAL NOTES

1. FLOOR MOUNTED ENCLOSURE. TYPE 3R (M) CONSTRUCTED FROM CODE GAUGE STEEL. FINISH TYPE: ANSI 61 GRAY POLYESTER SEMI GLOSS ELECTROSTATIC POWDER. TYPE 3RX (R) EXTERIOR CONSTRUCTED FROM CODE GAUGE TYPE 304 STAINLESS STEEL. TYPE 3RX (S) EXTERIOR CONSTRUCTED FROM CODE GAUGE TYPE 316 STAINLESS STEEL.
2. EXTERIOR DOOR HAVE PADLOCKABLE HANDLES WITH 3-POINT LATCH
3. DESIGNED FOR FRONT ACCESS.
4. RECOMMENDED CLEARANCES: FRONT: 36" [914.40mm] REAR: NONE.
5. EXTERIOR VENTS ARE SUPPLIED WITH POLYESTER DUST FILTERS.
6. LIFTING PLATES: SECTIONS ARE SUPPLIED WITH LIFTING PLATES. INSPECT PLATES FOR DAMAGE AND TORQUE BOLTS TO 45 FT LBS [61 N m] 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 [27 N m].
7. CENTER OF GRAVITY
8. APPROXIMATE SHIPPING WEIGHT: 1675 LB [760 KG].
9. ACCESSORY 40, OPTIONAL LOAD AND SOURCE LOCATIONS IS AVAILABLE ON SERIES 7000 ONLY.

TRANSFER SWITCH

1. G FRAME AUTOMATIC TRANSFER SWITCH.
2. TRANSFER SWITCH RATING: 2000 AMPS
WITHSTAND AND CLOSING RATING WHEN PROTECTED BY A CIRCUIT BREAKER WITHOUT AN ADJUSTABLE SHORT TIME RESPONSE, MAXIMUM 0.05 SECONDS: 85,000 RMS SYM @ 240V, 480V, 600V.
WITHSTAND AND CLOSING RATING WHEN PROTECTED BY A CIRCUIT BREAKER WITH AN ADJUSTABLE SHORT TIME RESPONSE, MAXIMUM 0.30 SECONDS, 42,000 RMS SYM @ 240V, 480V.
MAXIMUM 0.50 SECONDS, 36,000 RMS SYM @ 240V, 480V.
3. 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 (NOT AVAILABLE ON ADTS & ACTS UNITS)
4. UL 1008 OR CSA C22.2 No. 178.1

TERMINATIONS 2000A

1. MECHANICAL (SCREW TYPE) LUGS FOR CU/AL CABLE.
SOURCE 1 (NORMAL): (8) 1/0-600MCM [50-300mm²] PER PHASE & NEUTRAL.
LOAD: (6) 1/0-600MCM [50-300mm²] PER PHASE & NEUTRAL.
SOURCE 2 (EMERGENCY): (6) 1/0-600MCM [50-300mm²] PER PHASE & NEUTRAL.
GROUND: (18) 1/0-600MCM [50-300mm²].
2. SUITABLE WIRE BENDING SPACE IS PROVIDED AS PER NEC.
3. SWITCH MAY BE SUPPLIED WITHOUT LUGS.
4. OPTIONAL LUGS MAY BE SUPPLIED (MAY AFFECT ENCLOSURE SIZE).

WIRING/CABLING

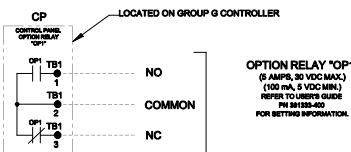
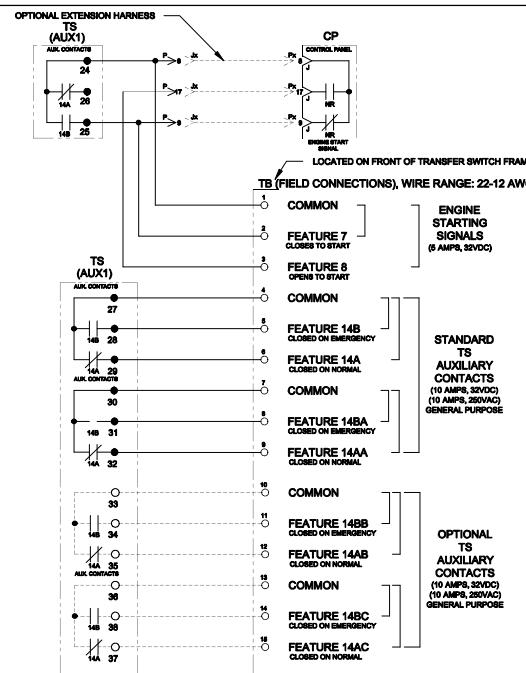
1. USE 90°C MINIMUM CU/AL WIRE FOR POWER CABLES.
2. WIRE SIZE TO BE BASED ON AMPACITY OF 75°C WIRE.
3. USE 60°C MINIMUM CU WIRE FOR CONTROLS.

C	309865	90	MCV 120/200
B	262061	TR BK	0529/15
A	247048	TR BK	0304/14
-	246007	TR	12/27/13
REVISION	001450	BY	DATE
			THIRD ANGLE PROJECTION

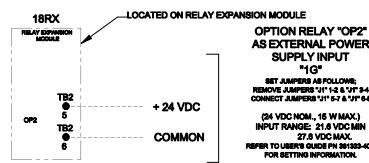
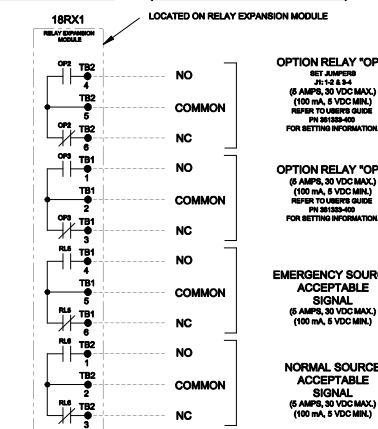
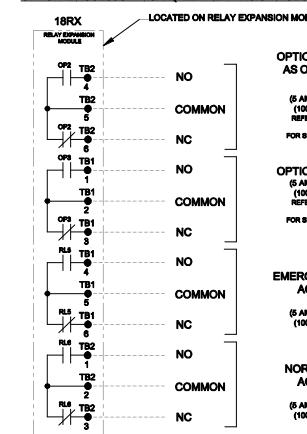
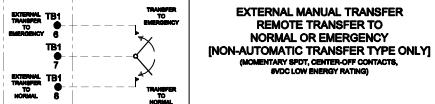
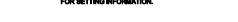
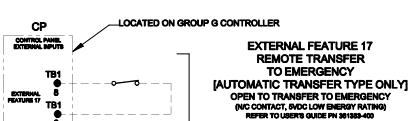
PROJECT NAME:		MOUNTING	
OUTLINE		DIMENSIONS TOLERANCES TO 1/16 IN. FOR PLASTIC PARTS SEE SP-0405	
G3ATS 2000 AMPS FRONT CONNECTED, LIFTING EYES TYPE 3R/3RX SECURE 98 X 41 X 47		AMEND. REF. NO.	
DRAWN BY	TR	10/07/10	
DESIGNED BY	BK	10/07/10	
REVIEWED BY			
APPROVED BY	SK	10/07/10	
COMPUTER GENERATED DRAWING			
ASCO P.O. BOX 1000, FLORIDA PARK, NEW JERSEY 07054 U.S.A.			
DRAWN BY: TR DATE: 10/07/10 APPROVAL: SK DRAWN NO: 1001395-002 DRAWN C DATE: 10/06/05 1 OF 1			

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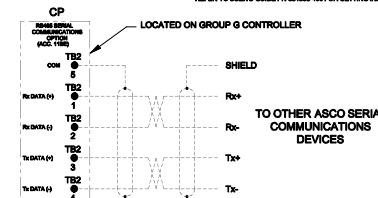
FIELD CONNECTIONS



CONTROLLER REMOTE CONTROL FEATURES



RS485 SERIAL COMMUNICATIONS OPTION
AVAILABLE WITH OPTIONAL ACCESSORY 11BE: ADVANCED-FUNCTION SOFTWARE BUNDLE
REFER TO USER'S GUIDE PN 2813334-400 FOR SETTING INFORMATION.



NOTES:

- 1. EARTH GROUND SHIELD AT HOST DEVICE ONLY.**
- 2. FIBER WIRING: USE UL LISTED, STRANDED, TWISTED PAIRS, OVERALL FOIL SHIELD WITH STRANDED DRAIN WIRE SUITABLE FOR R8422 EQUIVALENT TO:**

(STANDARD 80°C) BELDEN 9842 OR 9829
OR ALPHA 6220C OR 6222C

(PLUMERIUM RATED) BELDEN 69729 OR 62729
OR ALPHA 68802

8 7 6 5 4 3 2 1 1000 FLOWING SPRINGS, NEW JERSEY 07023 U.S.A. REC'D J NO. 2/2/51

PROJECT NAME		DIAGRAM		REV. TO	REV. NO.	BY	APP.	DATE
WIRING								
300 SERIES (3GAT3003T) 3PH 1000-3200 AMPS "G" FRAME, GROUP G CONTROLS								
BY	DATE	MANUFACTURING TOOLS/NAMES TO BE USED		ACCORDING TO ASCO PROCEDURES, SPANS, AND		ARSEN. INST. NO.	COMPUTER GENERATED DRAWING	
DRAWN BY	DJB	ACCORDING TO ASCO PROCEDURES, SPANS,		AND				
CHECKED BY	BBK	ACCORDING TO ASCO PROCEDURES, SPANS,		AND		REV. NO.	DS	
APPROVED BY	BBK	ACCORDING TO ASCO PROCEDURES, SPANS,		AND		DRW. NO.	1001662	
PRINTED BY	BBK	ACCORDING TO ASCO PROCEDURES, SPANS,		AND		DESIGN NO.	1001662	
 ASCO P ower T echnology, L.P.								

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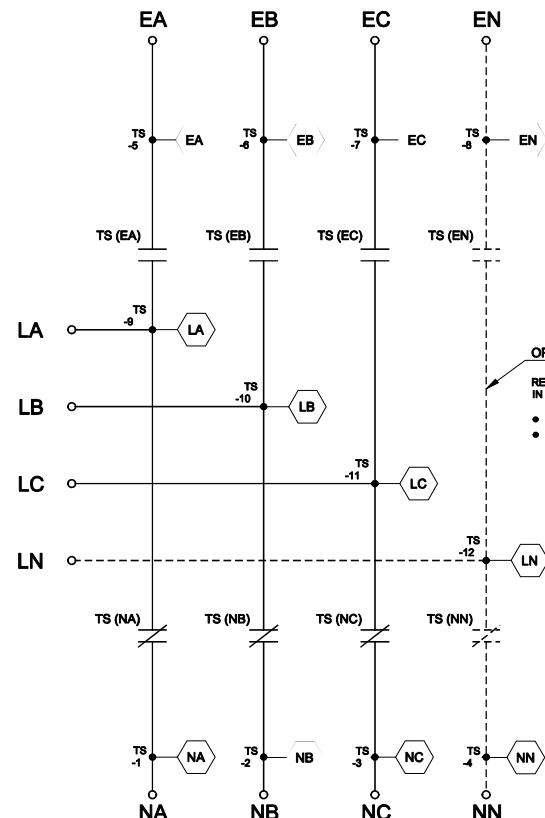
MAIN POWER POLES

TS OPERATOR CIRCUIT

D

D

EMERGENCY



LOAD

B

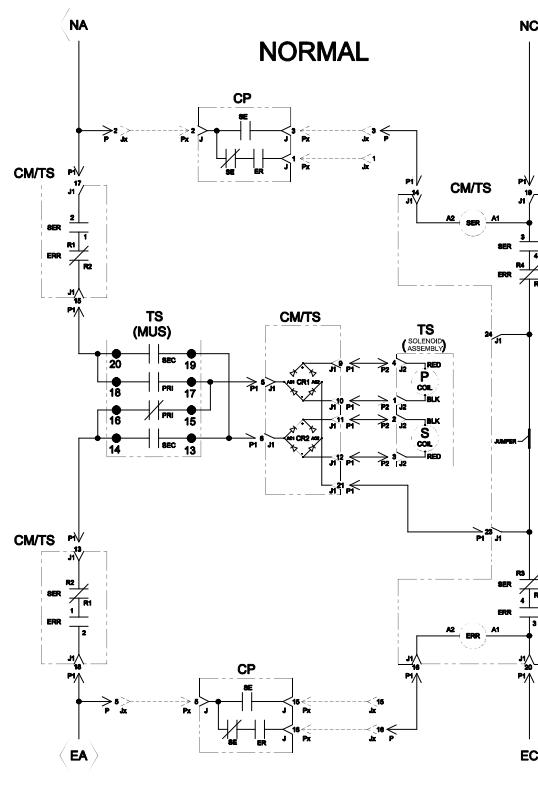
C

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

- SOLID BUS PLATE
- SWITCHING

NORMAL

NOTE:
ATS/NTS SHOWN CLOSED ON NORMAL SOURCE.



NORMAL

EMERGENCY

MUS	TS (MUS) CONTACTS SOLENOID POSITION			
	NORM	>	<	EMER
13-14	XX	XX	XX	XX
15-16	XX	XX	XX	XX
17-18	XX	XX	XX	XX
19-20	XX	XX	XX	XX

* AFTER SOLENOID PASSES THROUGH
TOP DEAD CENTER POSITION.

PROJECT NAME:		WIRING		DIAGRAM	
300 SERIES (G3ATS/G3NTS) 3PH 1000-3200 AMPS "G" FRAME, GROUP D CONTROLS		MANUFACTURED TO DRAWING 10-08-01 ACCURACY OF 0.005" (0.127 MM) FOR PLASTIC PARTS SEE SP-0405		ASME REF. NO.:	
DRAWN BY	DJS	REVIEWED BY		APPROVED BY	
DESIGNED BY		DESIGNED BY		DESIGNED BY	
RECHECKED BY		RECHECKED BY		RECHECKED BY	
REVIEWED BY		REVIEWED BY		REVIEWED BY	
APPROVED BY		APPROVED BY		APPROVED BY	
COMPUTER GENERATED DRAWING					
ASCO P.O. BOX 1001662 FLORINA PARK, NEW JERSEY 07021					

8 7 6 5 4 3 2 1

A

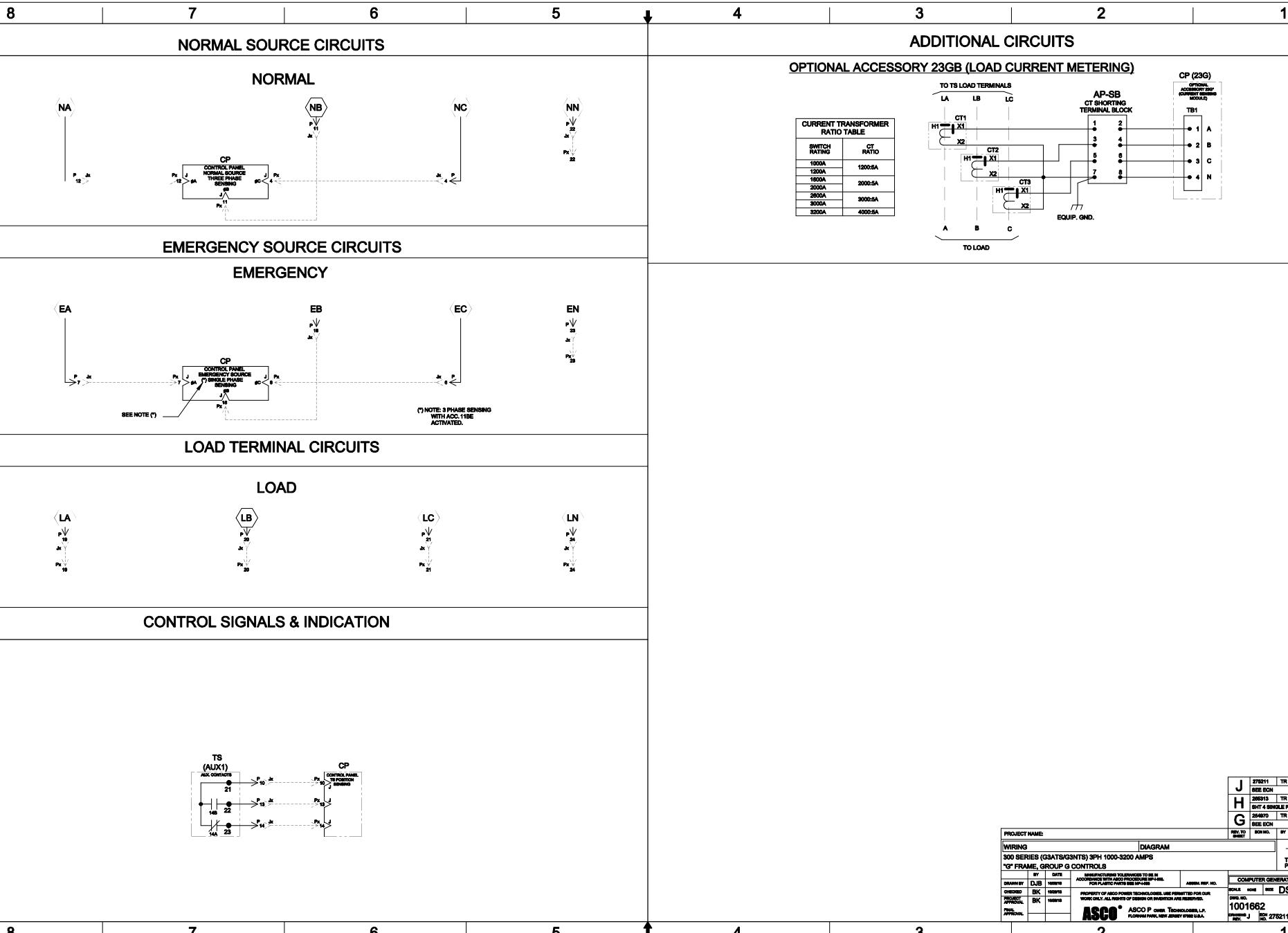
D

B

A

J 278211 TR BK 10191919
SEE ECR
H 269519 TR BK 101917
BHT 4 BOTTLE PHASE EMGR.
G 264670 TR BK 052918
SEE ECR
P/N 1001662
REV. 10 ECR 1001662 BY APPL. DATE
THIRD ANGLE PROJECTION

1001662
DRAWN BY: DJS
REVIEWED BY: HBT
APPROVED BY: G
DS
3 OF 7

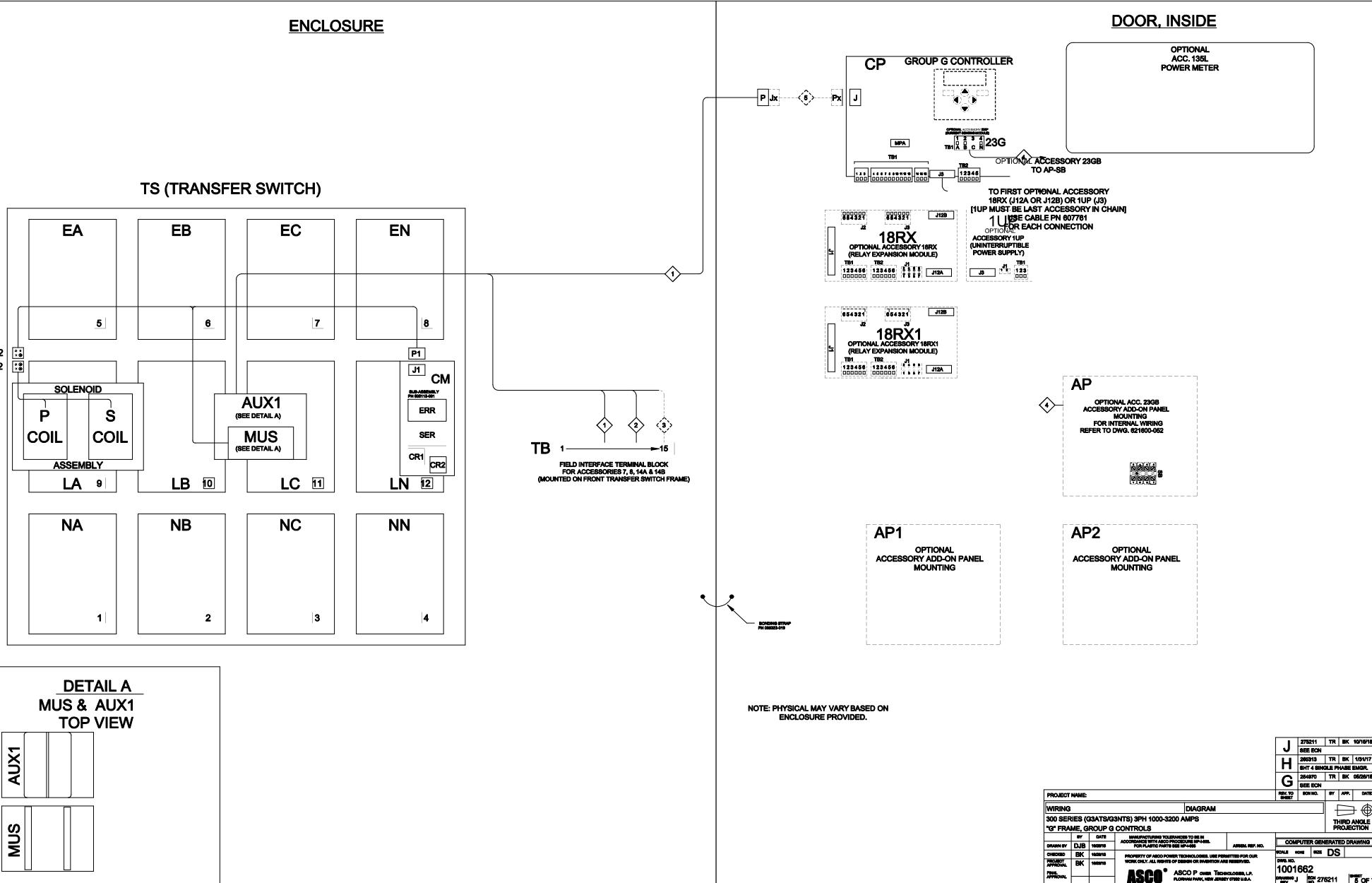


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PHYSICAL DIAGRAM

ENCLOSURE

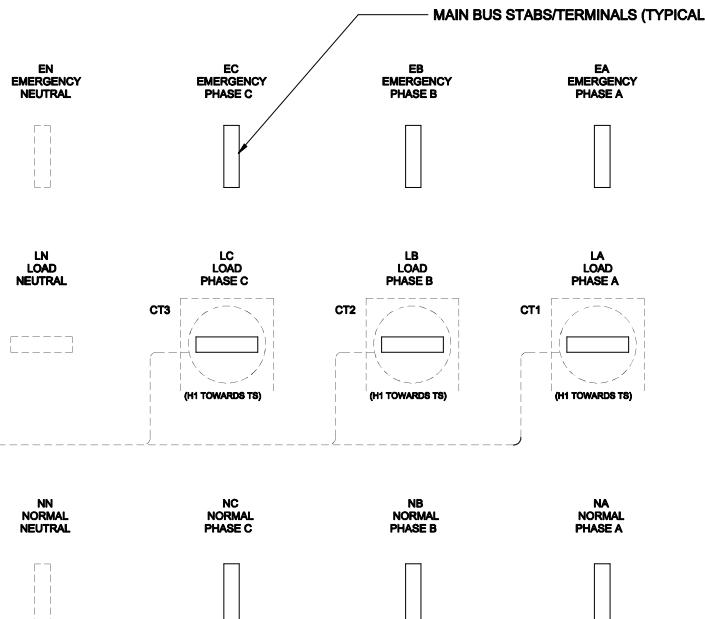
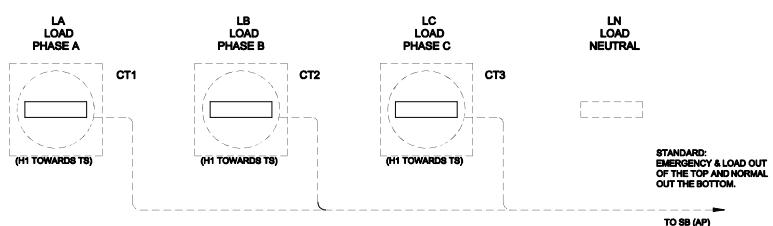
DOOR, INSIDE



NOTE: PHYSICAL MAY VARY BASED ON
ENCLOSURE PROVIDED.

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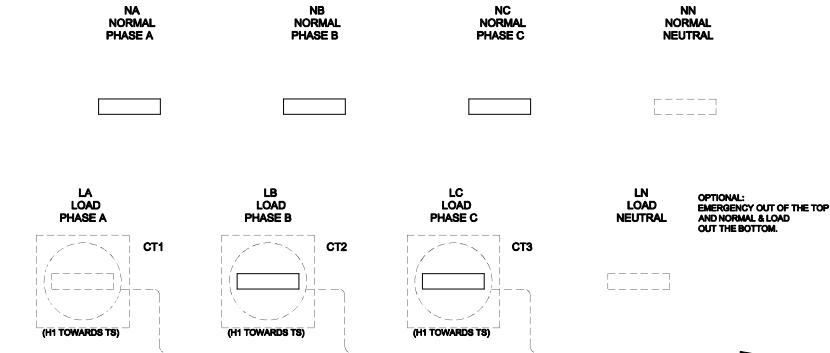
PHYSICAL DIAGRAM (CONTINUED)

REAR CONNECTED SWITCH
1000 - 3200 AMP. TS REAR VIEWOPTIONAL ACCESSORY 23GB
(LOAD CURRENT METERING)FRONT CONNECTED SWITCH
1000 - 2000 AMP. TS TOP VIEWOPTIONAL ACCESSORY 23GB
(LOAD CURRENT METERING)

MAIN BUS STABS/TERMINALS (TYPICAL)



BOTTOM VIEW



PROJECT NAME:		WIRING		DIAGRAM	
300 SERIES (G3ATS/G3NTS) 3PH 1000-3200 AMPS		"G" FRAME, GROUP G CONTROLS		COMPUTER GENERATED DRAWING	
DRAWN BY	D.J.B	DATE	MANUFACTURED TO DRAWING BY	APPROVED BY	DS
DESIGNED BY			ACCURATE TO DRAWING	APPROVAL NO.	
checked			FOR PLASTIC PARTS SEE SP-005		
checked			ONE COPY OF APPROVAL SHEET IS MAILED TO THE BUYER		
checked			ONE COPY OF APPROVAL SHEET OF DRAWING IS MAILED TO THE BUYER		
checked			ONE COPY OF APPROVAL SHEET OF DRAWING IS MAILED TO THE BUYER		
ASCO [®] ASCO P.C. TECHNOLOGIES, L.P.		DRAWN BY DS			
FLORINA PARK, NEW JERSEY 08854 U.S.A.		DRAWN BY DS			
DRAFT NO. 1001662		REV. NO. J			
DRAFT NO. 276211		REV. NO. J			
DRAFT NO. 276211		REV. NO. J			

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WIRE RUN LISTING

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← HARNESS LOCATOR		SEARCH BY PART NUMBER	
WIRE No.	TB STD. OPTIONAL AUX. CONTACTS	CLR	AWG
40 TB-8,TS(AUX)1-27			16
41 TB-8,TS(AUX)1-28			
42 TB-8,TS(AUX)1-29			
43 TB-8,TS(AUX)1-30			
44 TB-8,TS(AUX)1-31			
46 TB-8,TS(AUX)1-32			
← HARNESS LOCATOR		SEARCH BY PART NUMBER	
WIRE No.	OPTIONAL AUXILIARY CONTACTS	CLR	AWG
46 TB-10,TR(AUX)1-33			16
47 TB-11,TR(AUX)1-34			
48 TB-12,TR(AUX)1-35			
49 TB-13,TR(AUX)1-36			
50 TB-14,TR(AUX)1-36			
51 TB-15,TR(AUX)1-37			
← HARNESS LOCATOR			
WIRE No.	OPTIONAL ACCESSORY 29GB (CT) AP-B2CP(2920-781)	CLR	AWG
230 CT1-X1,AP-BB-1			16
231 CT1-X1,AP-BB-2			
231 CT2-X1,AP-BB-1			
231 AP-BB-4,CP(236)-TB1-2			
232 CT1-X2,AP-BB-1			
232 CT1-X2,CP(236)-TB1-3			
233 CT1-X2,CT3-X2		GRN	
233 CT2-X2,CT3-X2		GRN	
233 AP-BB-7,CP(236)-TB1-7		GRN	
233 AP-BB-8,CP(236)-TB1-4		GRN	
← HARNESS LOCATOR			
WIRE No.	HARNESS 300320-005 NO. OF CONTACTS IN EXTENSION HARNESS	CLR	AWG
200 Jk-1Px1			16
1 Jk-1Px1			
2 Jk-3Px3			
3 Jk-4Px4			
4 Jk-5Px5			
5 Jk-6Px6			
6 Jk-7Px7			
6 Jk-8Px8			
7 Jk-9Px9			
8 Jk-10Px10			
9 Jk-11Px11			
10 Jk-12Px12			
11 Jk-13Px13			
12 Jk-14Px14			
222 Jk-1Px15			
13 Jk-16Px16			
14 Jk-17Px17			
15 Jk-18Px18			
16 Jk-19Px19			
17 Jk-20Px20			
18 Jk-21Px21			
19 Jk-22Px22			
20 Jk-23Px23			
21 Jk-24Px24			

5

4

J	Z7B11	TR	IK	10/18/16
H	SEE ECH			
G	260513	TR	IK	10/17/17
	BHT 4 SINGLE PHASE EMGR.			
	254970	TR	IK	06/20/15
	SEE ECH			
REV. TO SHEET	REV. NO.	WT	APP.	DATE
THIRD ANGLE PROJECTION				
COMPUTER GENERATED DRAWING				
SCALE	None	SIZE	DS	
DRAW. NO.				
1001662				
DRAWN BY	J		CHECKED BY	
27/25/21				INSTR. NO. 7 OF 7

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