

# ATS Submittal

## Transfer Switch Details

#4	ATS	AMPS: 2000	QTY: 2
Product	: Series 300	Catalog Number	: G03AUSB32000NGXM
Service Voltage / Hz	: 480V/60Hz	Optional Accessories	: 11BE,44G,119M1
Bypass Isolation	: Not Applicable	Product Description	: 300 Series, Automatic Service Entrance Transfer Switch
No. of Switched Poles: 4	: 4	Neutral Configuration	: Switched [B]
Withstand Rating:	: See WCR Table Below	No. of Cables & Lug Size	: See Applicable Outline Drawing
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
3	119M1	Internally powered Energy Reducing Maintenance Switch (ERMS) ERMS lowers the instantaneous pickup setting, utilizes a faster acting instantaneous trip function, or activates an alternate set of trip settings on a breaker to provide reduced arc flash incident energy. To be used on service entrance rated switches containing Square D breakers with MicroLogic 5.0/6.0 P/H trip units Customer is responsible for all trip unit settings.

8 7 6 5 4 3 2 1

D

C

B

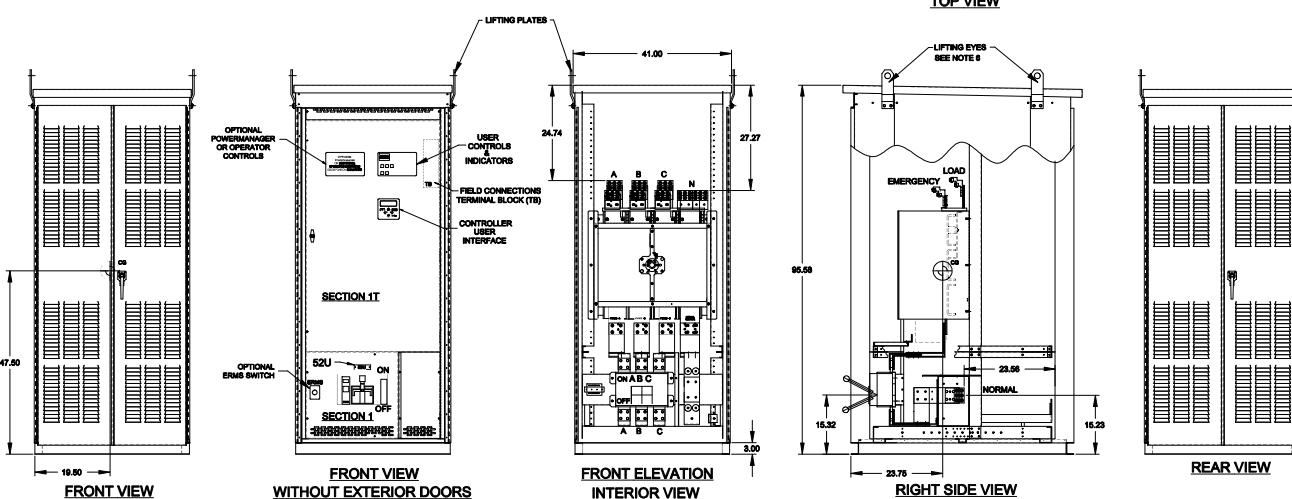
A

D

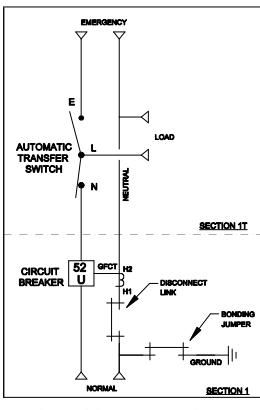
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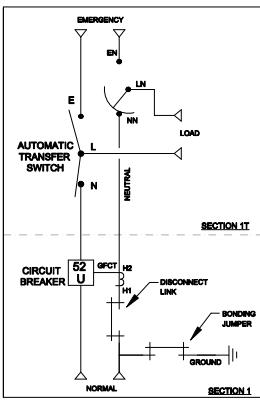
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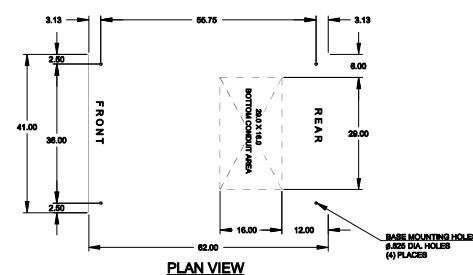
ONE LINE DIAGRAMS



(WITH SOLID NEUTRAL)



(WITH SWITCHED/OVERLAPPING NEUTRAL)



## GENERAL NOTES

1. FLOOR MOUNTED ENCLOSURE.
2. TYPE 3R CONSTRUCTED FROM CODE GAUGE STEEL.
3. FINISH: TYPE 3R, ANSI 61 GRAY POLYESTER SEMI GLOSS ELECTROSTATIC POWDER.
4. TYPE 3RX EXTERIOR CONSTRUCTED FROM CODE GAUGE STAINLESS STEEL.
5. (R) EXTERIOR CONSTRUCTED FROM TYPE 304 STAINLESS STEEL.
6. (S) EXTERIOR CONSTRUCTED FROM TYPE 316 STAINLESS STEEL.
7. EXTERIOR DOORS HAVE PADLOCKABLE HANDLES WITH 3-POINT LATCH
8. DESIGNED FOR FRONT & REAR ACCESS.
9. RECOMMENDED CLEARANCES: FRONT: 36" REAR: 36"
10. EXTERIOR VENTS: 1000A - 1600A: NO VENTS.
11. 2000A: VENTS ARE SUPPLIED WITH POLYESTER DUST FILTERS.
12. 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.
13. CENTER OF GRAVITY
14. APPROXIMATE WEIGHT : 2400 lbs

## SYSTEM NOTES

1. SYSTEM RATING: 1000 AMPS, 1200 AMPS, 1600 AMPS, 2000 AMPS, 3g, 4W OR 18W.
2. SHORT CIRCUIT RATING: 65,000 RMS SYM AMPERES @ 480V.
3. THE EMERGENCY SOURCE INPUT MUST BE PROTECTED BY A REMOTE OVERCURRENT PROTECTION DEVICE AS LISTED ON THE MARKINGS ON THE TRANSFER SWITCH.
4. ALL BUS IS SILVER-PLATED COPPER, BASED ON 1000A PER SC. IN. DENSITY.
5. GROUND: 20% RATED.
6. NEUTRAL: 100% RATED.
7. APPLICABLE LABEL(S): UL 891, SUITABLE ONLY FOR USE AS SERVICE EQUIPMENT.

## TRANSFER SWITCH

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

## TERMINATIONS 1000A - 1200A

1. SUPPLIED WITH MECHANICAL (SCREW TYPE) LUGS FOR CUAL CABLE.
2. NORMAL: (4) 10 - 800MCM PER PHASE & NEUTRAL
3. LOAD: (4) 10 - 800MCM PER PHASE & NEUTRAL
4. EMERGENCY: (4) 10 - 800MCM PER PHASE & NEUTRAL
5. GROUND: (12) 10 - 800MCM
6. A. SUITABLE WIRE BENDING SPACE IS PROVIDED AS PER NEC.
7. 2. OPTIONAL LUGS MAY BE SUPPLIED.

## TERMINATIONS 1600A - 2000A

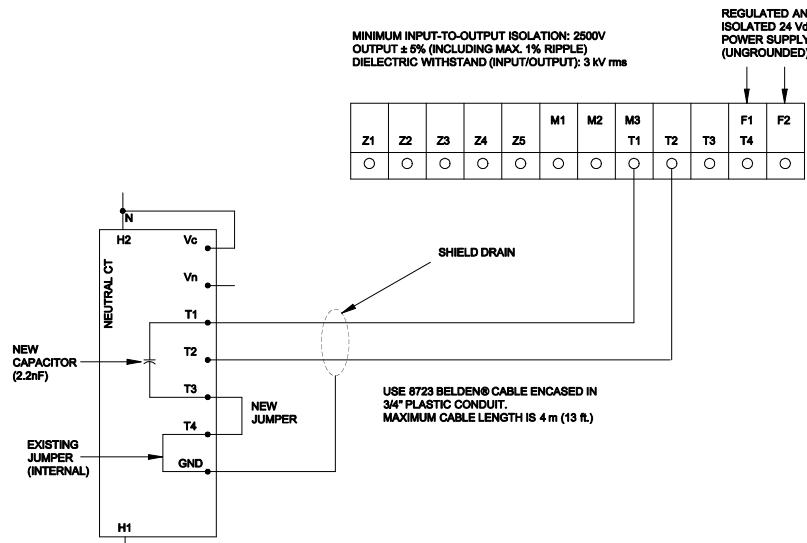
1. SUPPLIED WITH MECHANICAL (SCREW TYPE) LUGS FOR CUAL CABLE.
2. NORMAL: (6) 10 - 800MCM PER PHASE & NEUTRAL
3. LOAD: (6) 10 - 800MCM PER PHASE & NEUTRAL
4. EMERGENCY: (6) 10 - 800MCM PER PHASE & NEUTRAL
5. GROUND: (18) 10 - 800MCM
6. A. SUITABLE WIRE BENDING SPACE IS PROVIDED AS PER NEC.
7. 2. OPTIONAL LUGS MAY BE SUPPLIED.

## CIRCUIT BREAKER: ITEM 52U

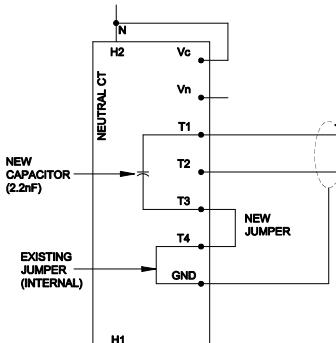
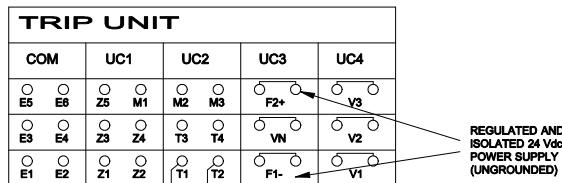
1. SQUARE "D" 80K RATED, TYPE RUF 3000AF/1000AT, 3000AF/1200AT, 3000AF/1600AT (PN RUF36160U44A) OR 3000AF/2000AT (PN RUF36200U44A)
2. STATIONARY MOUNTED, MANUALLY OPERATED BREAKER WITH LONG DELAY, SHORT DELAY, INSTANTANEOUS AND GROUND FAULT TRIP SETTINGS.
3. SHORT CIRCUIT RATING: AIC 65,000 RMS SYH @ 480V.
4. 2. OPTIONAL 100% RATED BREAKER MAY BE SUPPLIED.
5. 3. OPTIONAL ENERGY REDUCTION MAINTENANCE SETTING MAY BE SUPPLIED
6. 4. UL 489

PROJECT NAME		MOUNTING	
OUTLINE		MOUNTING	
Gauss 1000A - 2000A, RJF SE BREAKER			
TYPE 3R/3RX 95.0 X 41.0 X 26 SECTION 1 & IT			
DRAWN BY: SG 10/09/02		DATE: 10/09/02	
DESIGNED BY: RN		MANUFACTURED TO DRAWINGS BY: ASCO INC.	
APPROVED BY: RN		ACCREDITED BY: ASCO INC.	
PROMPTED BY: ASCO INC.		PROVIDED BY: ASCO INC.	
REVIEWED BY: ASCO INC.		REVIEWED BY: ASCO INC.	
APPROVED BY: ASCO INC.		APPROVED BY: ASCO INC.	
COMPUTER GENERATED DRAWING			
ASCO P.O. BOX 1000, PLATINUM PARK, NEW JERSEY 07042 U.S.A.			
DRAWING NO. 754577-050			
DRAFTED BY: SG 10/09/02			
T.O. 1			

### WIRING SCHEMATIC FOR POWERPACT P- & R-FRAME CIRCUIT BREAKERS



### WIRING SCHEMATIC FOR 800-3000 A NT/NW CIRCUIT BREAKERS



PROJECT NAME:

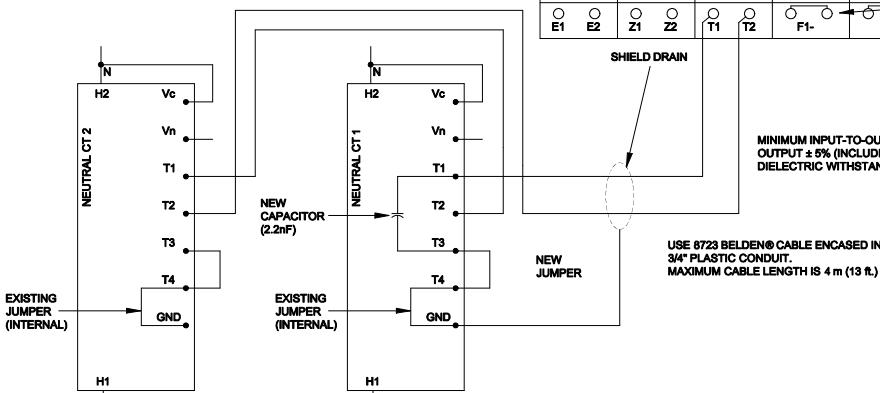
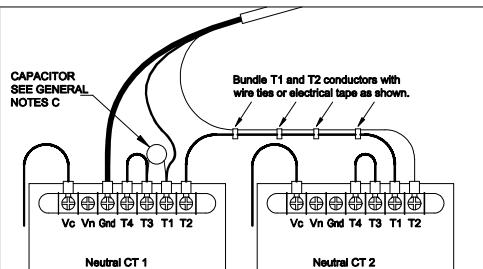
GFS CIRCUITRY.

	BY	DATE	MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-I-003. FOR PLASTIC PARTS SEE MP-I-055.	ASSEM. REF. NO.	COMPUTER GENERATED DRAWING	
DRAWN BY	CC	05/13/04			SCALE	
CHECKED	BK	05/13/04	SIZE		BS	
PROJECT APPROVAL	BK	05/13/04	DWG. NO.		758574	
FINAL APPROVAL			DRAWING F REV. ECN NO. 257650		SHEET 1 OF 2	

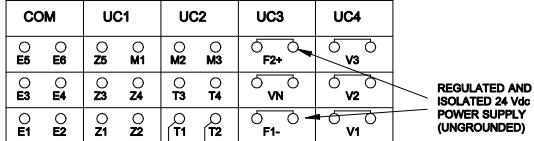
ASCO® ASCO POWER TECHNOLOGIES, L.P.  
FLORHAM PARK, NEW JERSEY 07932 U.S.A.

THIRD ANGLE PROJECTION

### WIRING SCHEMATIC FOR 3200-6000 A NW CIRCUIT BREAKERS

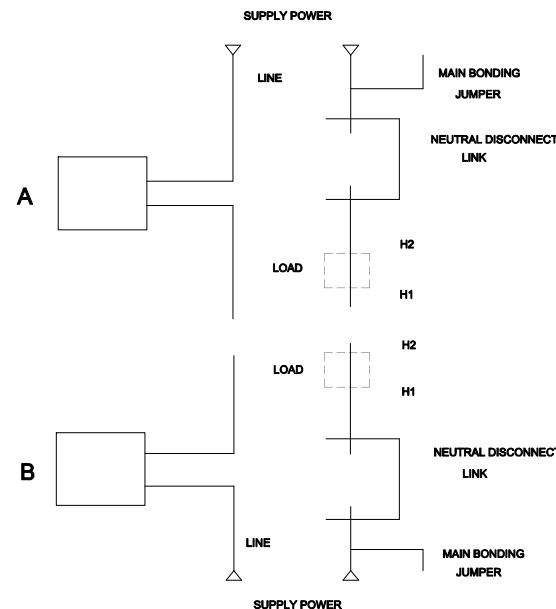


### TRIP UNIT



MINIMUM INPUT-TO-OUTPUT ISOLATION: 2500V  
OUTPUT  $\pm 5\%$  (INCLUDING MAX. 1% RIPPLE)  
DIELECTRIC WITHSTAND (INPUT/OUTPUT): 3 kV rms

### LINE DIAGRAM FOR NW BREAKER



### GENERAL NOTES

- A. IF LOAD IS CONNECTED TO LOWER END OF CIRCUIT BREAKER, CONNECT THE LOAD NEUTRAL TO THE H1 END OF THE NEUTRAL CURRENT TRANSFORMER.
- B. IF SUPPLY POWER IS CONNECTED TO THE LOWER END OF THE CIRCUIT BREAKER, CONNECT THE SUPPLY NEUTRAL TO THE H1 END OF THE NEUTRAL CURRENT TRANSFORMER.
- C. CAPACITOR 2.2nF IS PROVIDED WITH CIRCUIT BREAKER.

PROJECT NAME:

GFS CIRCUITRY.

REV. TO SHEET	ECN NO.	BY APP.	DATE	COMPUTER GENERATED DRAWING	
				SCALE	SIZE BS
				DWG. NO.	758574
				DRAWING REV.	ECN NO. 257650 SHEET 2 OF 2
				ASCO®	ASCO POWER TECHNOLOGIES, L.P. FLORHAM PARK, NEW JERSEY 07932 U.S.A.



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