

Transfer Switch Details

#1	ATS	AMPS: 1200	QTY: 1
Product	: Series 300	Catalog Number	: H03AUSB31200CGXM
Service Voltage / Hz	: 208V/60Hz	Optional Accessories	: 11BE,44G
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 = H, Switch Rating = 1200, 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

8 7 6 5 4 3 2 1

GENERAL NOTES

- FLOOR MOUNTED ENCLOSURE.
TYPE 3R CONSTRUCTED FROM CODE GAUGE STEEL.
FINISH: TYPE 3R, ANSI #1 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: 36" REAR: 30"
- EXTERIOR 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 ANSINEMA 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.
- EXTERIOR VENTS:
1000A: NO VENTS.
1200A: VENTS ARE SUPPLIED WITH POLYESTER DUST FILTERS.
- CENTER OF GRAVITY
- APPROXIMATE WEIGHT : 2050 lbs

SYSTEM NOTES

- SYSTEM RATING: 1000 AMPS, 1200 AMPS.
SHORT CIRCUIT RATING: 50,000 RMS SYM @ 480V.
THE EMERGENCY SOURCE 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

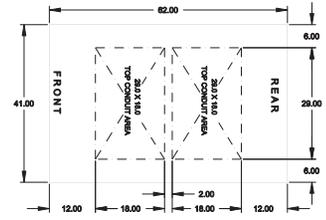
- H FRAME AUTOMATIC TRANSFER SWITCH 1000A - 1200A.
- TRANSFER SWITCH RATING: 1000 AMPS, 1200 AMPS.
SHORT CIRCUIT RATING WHEN PROTECTED BY A CIRCUIT BREAKER
TIME RESPONSE, MAXIMUM 0.05 SECONDS: 50,000 RMS SYM @ 480V.
SPECIFIC BREAKER RATINGS: 65,000 RMS SYM @ 480V.
- A FULL RATED NEUTRAL CONNECTION FOR 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
- U.L. 1008

TERMINATIONS 1000A-1200A

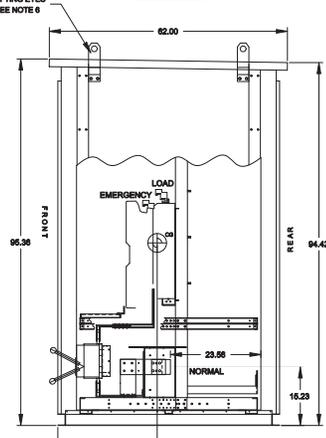
- SUPPLIED WITH MECHANICAL (SCREW TYPE) LUGS FOR CUAL CABLE.
NORMAL: (4) 1/0 - 600MCM PER PHASE & NEUTRAL
LOAD: (4) 1/0 - 600MCM PER PHASE & NEUTRAL
EMERGENCY: (4) 1/0 - 600MCM PER PHASE & NEUTRAL
GROUND: (12) 1/0 - 600MCM
A. SUITABLE WIRE BENDING SPACE IS PROVIDED AS PER NEC.
- OPTIONAL LUGS MAY BE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

CIRCUIT BREAKER: ITEM 52U

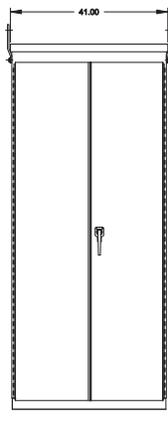
- SQUARE "D" 80% RATED TYPE "RUF", 3000AF/1000AT, 3000AF/1200AT, STATIONARY MOUNTED, MANUALLY OPERATED, WITH LONG DELAY, SHORT DELAY, INSTANTANEOUS AND GROUND FAULT TRIP SETTINGS.
SHORT CIRCUIT RATING: 40,000 RMS SYM @ 480V.
- OPTIONAL ENERGY REDUCTION MAINTENANCE SETTING SYSTEM MAY BE SUPPLIED.
- OPTIONAL 100% RATED
- U.L. 489



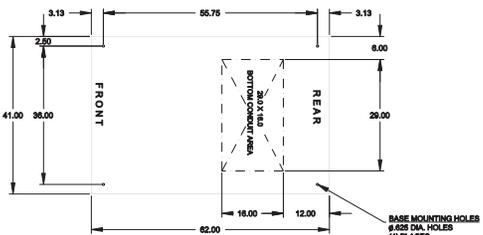
TOP VIEW



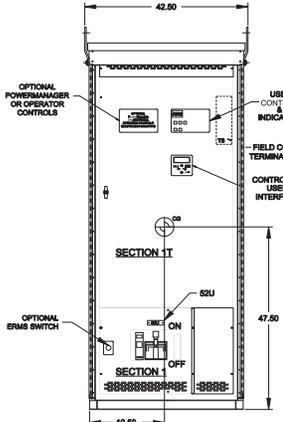
RIGHT SIDE VIEW



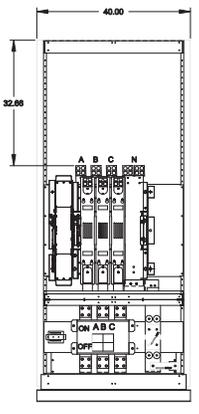
FRONT & REAR VIEW



PLAN VIEW

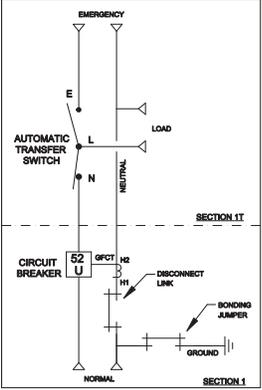


FRONT VIEW

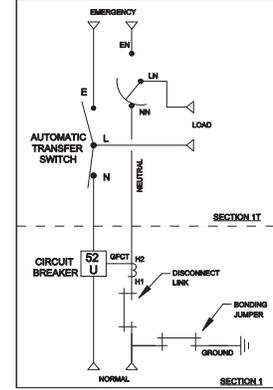


FRONT VIEW WITHOUT COVER

ONE LINE DIAGRAMS



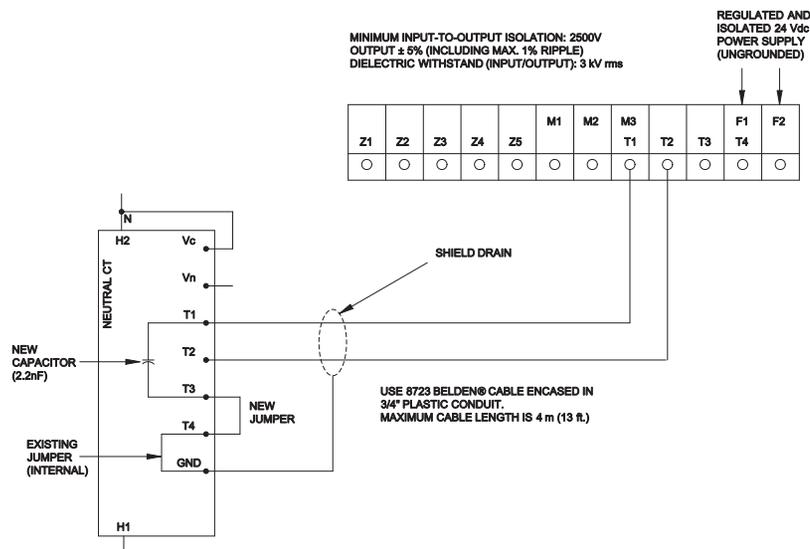
(WITH SOLID NEUTRAL)



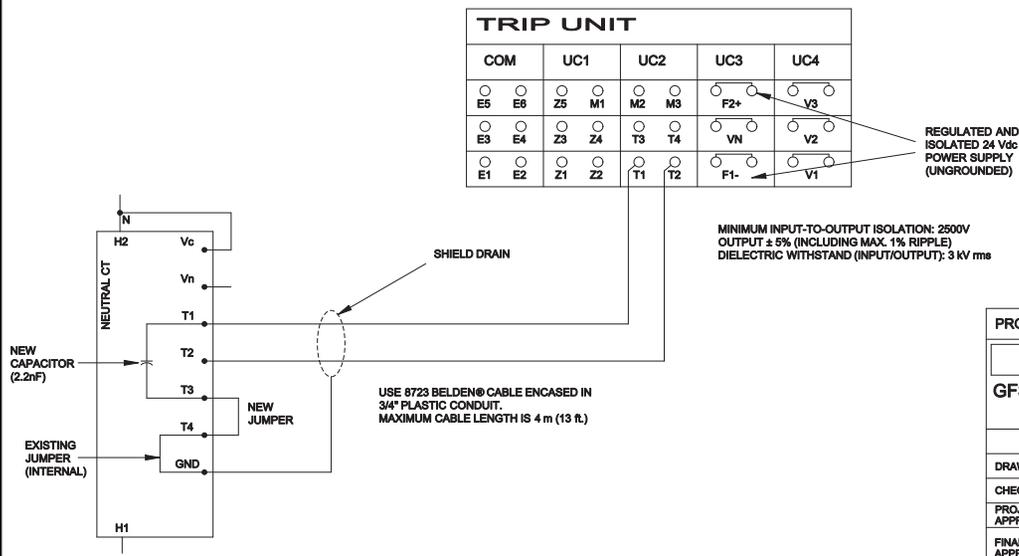
(WITH SWITCHED/OVERLAPPING NEUTRAL)

PROJECT NAME:		MOUNTING		282007	BG	RN	02/11/15
OUTLINE		HAUS, 1000A - 1200A, RUF SE BREAKER ON NORMAL		248040	VAK	RN	
TYPE 3R/3RX, 66 X 41 X 62				248415	RN		11-14-13
BY	DATE	MANUFACTURING TOLERANCES TO BE AS ACCORDANCE WITH ASCO PROCEDURES BY AREA. FOR PLASTIC PARTS SEE 8P-0408	ASCO, INC. NO.:	221263	DP	RN	1/14/09
DESIGNED	RN	PROPERTY OF ASCO POWER TECHNOLOGIES, INC. IS HEREBY FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.		218107	AE	WK	10/24/09
CHECKED				218107	RN		6-10-07
PROJECT APPROVAL				215240	RN		
FINAL APPROVAL				215240	RN		
ASCO		ASCO P. OVER TECHNOLOGIES, L.P.		754578-051			
PLAZA ONE, NEW JERSEY 07093-2444		REV. NO.		REV.	300843		
				THIRD ANGLE PROJECTION		1 OF 1	

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



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



F	257650	TRD	MM	10/23/15
	SEE ECN			
E	227403	TRD	WK	05/13/10
	SEE ECN			
D	226452	AE	BK	03/16/10
	SEE ECN			
C	223197	DAJ	BK	10/20/09
	SEE ECN			
B	211947	MJB	BK	2/7/07
	SEE ECN			
-	167055	CC	BK	05/13/04
	ISSUE			

PROJECT NAME:

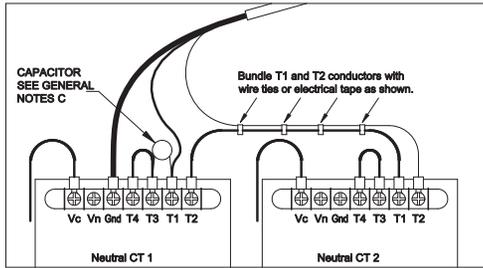
REV. TO SHEET	ECN NO.	BY	APP.	DATE
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GFS CIRCUITRY.



DRAWN BY	CC	DATE	05/13/04	MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-4-003. FOR PLASTIC PARTS SEE MP-4-005.	ASSEM. REF. NO.	COMPUTER GENERATED DRAWING			
CHECKED	BK	DATE	05/13/04			SCALE	SIZE	BS	
PROJECT APPROVAL	BK	DATE	05/13/04	PROPERTY OF ASCO POWER TECHNOLOGIES. USE PERMITTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.			DWG. NO.	758574	
FINAL APPROVAL				ASCO POWER TECHNOLOGIES, L.P. FLORHAM PARK, NEW JERSEY 07932 U.S.A.			DRAWING REV.	ECN NO. 257650	SHEET 1 OF 2

WIRING SCHEMATIC FOR 3200-6000 A NW CIRCUIT BREAKERS

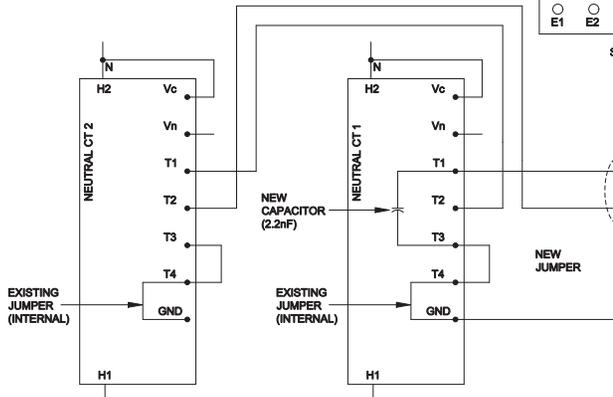


TRIP UNIT									
COM		UC1		UC2		UC3		UC4	
○ E5	○ E8	○ Z5	○ M1	○ M2	○ M3	○ F2+	○ V3	○ V1	○ V2
○ E3	○ E4	○ Z3	○ Z4	○ T3	○ T4	○ VN	○ V2	○ V1	○ V2
○ E1	○ E2	○ Z1	○ Z2	○ T1	○ T2	○ F1-	○ V1	○ V1	○ V2

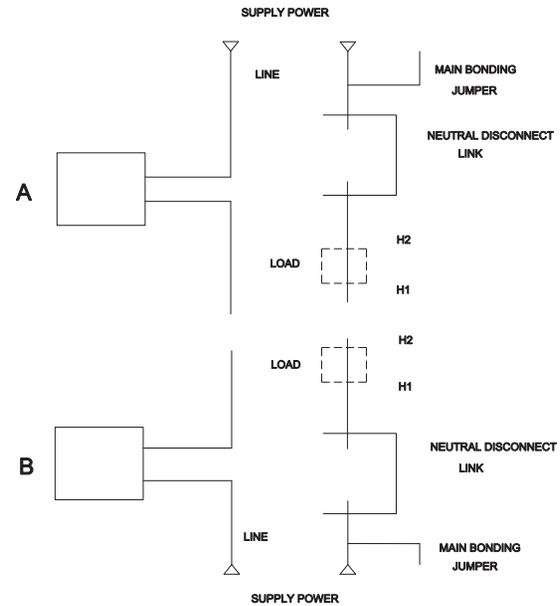
REGULATED AND ISOLATED 24 Vdc POWER SUPPLY (UNGROUNDING)

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

USE 8723 BELDEN® CABLE ENCASED IN 3/4" PLASTIC CONDUIT. MAXIMUM CABLE LENGTH IS 4 m (13 ft.)



LINE DIAGRAM FOR NW BREAKER



F	257650	TRD	MM	10/23/15
	SEE ECN			
E	227403	TRD	WK	05/13/10
	SEE ECN			
D	226452	AE	BK	03/16/10
	SEE ECN			
C	223197	DAJ	BK	10/20/09
	SEE ECN			
B	211947	MJB	BK	2/7/07
	SEE ECN			
-	167055	CC	BK	05/13/04
	ISSUE			

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.

	BY	DATE
DRAWN BY	CC	05/13/04
CHECKED	BK	05/13/04
PROJECT APPROVAL	BK	05/13/04
FINAL APPROVAL		

MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-4-003. FOR PLASTIC PARTS SEE MP-4-055

ASSEM. REF. NO.

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

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	