Woodstock STOCK ORDER 1 2025

Transfer Switch Details

#5	ATS	AMPS: 2000	QTY: 3

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: Frame = G, Switch Rating = 2000, Series = 300	:	See WCR Table Below	No. of Cables & Lug Size	:	See Applicable Outline Drawing
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.

THREE PHASE WIRING FOR ASCO 300 SERIES TRANSFER SWITCHES (G3ATS/G3NTS) 1000-3200 AMPERES WITH GROUP G CONTROLS

GENERAL INFORMATION

THIS WIRING APPLIES TO 300 SERIES TRANSFER SWITCHES THAT UTILIZE THE "G" FRAME POWER TRANSFER SWITCH RATED 1000-3200 AMPERES.

THE GROUP G CONTROLLER PROVIDES EITHER AUTOMATIC (G3ATS) OR NON-AUTOMATIC (MANUAL) (G3NTS) OPERATION BASED ON ITS FACTORY SETTING ACCORDING TO THE CUSTOMER ORDER REQUIREMENTS.

THE TYPE OF TRANSFER SWITCH PROVIDED CAN BE DETERMINED FROM THE PRODUCT IDENTIFICATION MARKINGS LOCATED ON BOTH THE POWER TRANSFER SWITCH AND THE COVER OF THE GROUP G CONTROLLER.

ALL OPERATIONAL SETTINGS AND SEQUENCES OF THE GROUP G CONTROLLER AND ITS RELATED OPTIONAL ACCESSORIES (1UP, 16RX, 23G) ARE PROVIDED IN THE USER'S GUIDE, ASCO GROUP G CONTROLLER FOR AUTOMATIC & NON-AUTOMATIC TRANSFER SWITCHES, PART NUMBER 381333-400.

INFORMATION FOR INSTALLATION AND TESTING OF THE TRANSFER SWITCH IS PROVIDED IN THE INSTALLATION MANUAL, ASCO 3ATS & 3NTS, G-DESIGN 1600-3200 A TRANSFER SWITCHES, PART NUMBER 381333-406.

ENGINE CONTROL CONTACTS

FEATURE 7 & FEATURE 8:
ONE SET OF FORM C CONTACTS "NR" (FEAT. 7 N/C, FEAT 8 N/O) THAT CHANGE POSITION ON EXPIRATION OF THE FEATURE 1C, OVERRIDE MOMENTARY NORMAL SOURCE OUTAGES TIME DELAY, AND RESET ON EXPIRATION OF THE FEATURE 2E ENGINE COOLDOWN TIME DELAY.
AN AUXILIARY CONTACT THAT IS CLOSED WHEN THE TRANSFER SWITCH IS CONNECTED TO THE EMERGENCY SOURCE, IS CONNECTED ACROSS THE N/C CONTACT (FEATURE 7).

ADDITIONAL SET OF ENGINE STARTING CONTACTS ARE AVAILABLE ON THE GROUP G CONTROLLER WHEN THE FEATURE SETTING OF THE CONTROLLER OUTPUT CONTACTS "OP1" IS SET TO OPERATE AS "NR2".

ADDITIONAL, OPTIONAL ENGINE STARTING CONTACTS "NR2" ARE AVAILABLE WHEN OPTIONAL ACCESSORY 16RX (RELAY EXPANSION MODULE) IS INCLUDED IN THE TRANSFER SWITCH ASSEMBLY. OUTPUT CONTACTS "OP2" AND/OR "OP3" PROVIDE THE ENGINE STARTING FUNCTION WHEN THE FEATURE SETTING OF EACH IS SET TO OPERATE AS "NR2".

CONTACTS ARE RATED 5 AMPS RESISTIVE AT 30 VDC MAXIMUM, 100 mA AT 5 VDC MINIMUM.

REFER TO USER'S GUIDE, ASCO GROUP G CONTROLLER FOR AUTOMATIC & NON-AUTOMATIC TRANSFER SWITCHES, PART NUMBER 381333-400 FOR SETTING INFORMATION.

LOAD DISCONNECT FEATURE

FEATURE 31: INCLUDES SUB-FEATURES 31F, 31G, 31M, 31N
A SET OF FORM C CONTACTS ARE PROVIDED ON THE GROUP G CONTROLLER AS "OP1". WHEN THE FEATURE SETTING OF "OP1" IS SET TO OPERATE THE CONTACTS AS "FEATURE 31", THE TIME DELAY SETTINGS OF THE SUB-FEATURES ARE AVAILABLE.

"OP1" CAN BE SET TO OPERATE TO PROVIDE THE FOLLOWING FUNCTIONS USING THE TIME DELAY SETTINGS ASSOCIATED WITH EACH SUB-FEATURE:

31F - NORMAL TO EMERGENCY PRE-TRANSFER SIGNAL
31G - EMERGENCY TO NORMAL PRE-TRANSFER SIGNAL
31M - NORMAL TO EMERGENCY POST-TRANSFER SIGNAL
31N - EMERGENCY TO NORMAL POST TRANSFER SIGNAL

THE "OP1" OUTPUT CONTACTS CHANGE POSITION FOLLOWING EACH OF THE ABOVE TIME DELAYS.

ADDITIONAL LOAD DISCONNECT CONTACTS, "FEATURE 31" ARE AVAILABLE WHEN OPTIONAL ACCESSORY 16RX (RELAY EXPANSION MODULE) IS INCLUDED IN THE TRANSFER SWITCH ASSEMBLY. OUTPUT CONTACTS "OP2 AND/OR "OP3" WILL PROVIDE LOAD DISCONNECT FUNCTIONS WHEN THE FEATURE SETTING OF EACH IS SET TO OPERATE AS "FEATURE 31"

ALL OUTPUT CONTACTS ("OP1", "OP2", "OP3") SET TO OPERATE AS "FEATURE 31", SHARE THE COMMON TIME DELAY SETTINGS OF SUB-FEATURES 31F 31G, 31M, AND 31N.

CONTACTS ARE RATED 5 AMPS RESISTIVE AT 30 VDC MAXIMUM, 100 mA AT 5 VDC MINIMUM.

REFER TO USER'S GUIDE, ASCO GROUP G CONTROLLER FOR AUTOMATIC & NON-AUTOMATIC TRANSFER SWITCHES, PART NUMBER 381333-400 FOR SETTING INFORMATION.

INPHASE TRANSFER FEATURE FOR LOAD TRANSFER

INPHASE TRANSFER CONTROL INITIATES AN INPHASE TRANSFER OF LOADS BETWEEN LIVE SOURCES. THIS IS USED TO PREVENT NUISANCE TRIPPING OF DISTRIBUTION CIRCUIT BREAKERS AND POSSIBLE DAMAGE TO MECHANICAL LOADS ASSOCIATED WITH OUT OF PHASE TRANSFER.

REFER TO USER'S GUIDE, ASCO GROUP G CONTROLLER FOR AUTOMATIC & NON-AUTOMATIC TRANSFER SWITCHES, PART NUMBER 381333-400 FOR SETTING INFORMATION.

SOURCE AVAILABILITY SIGNALS

SIGNALS INDICATING THE AVAILABILITY OF THE NORMAL & EMERGENCY SOURCES IS PROVIDED WHEN OPTIONAL ACCESSORY 16RX (RELAY EXPANSION MODULE) IS INCLUDED IN THE TRANSFER SWITCH ASSEMBLY. OUTPUT CONTACTS "RL6" (EMERGENCY SOURCE AVAILABLE) AND "RL6" (NORMAL SOURCE AVAILABLE) CHANGE POSITION WHEN THE SOURCE IS ACCEPTABLE.

CONTACTS ARE RATED 5 AMPS RESISTIVE AT 30 VDC MAXIMUM, 100 mA AT 5 VDC MINIMUM.

COMMON ALARM & NOT IN AUTO SIGNALING FEATURES

A SET OF FORM C CONTACTS IS PROVIDED ON THE GROUP G CONTROLLER AS "OP1". THE FEATURE SETTING OF "OP1" CAN BE SET TO OPERATE THE CONTACTS AS A "NOT IN AUTO" SIGNAL.

WHEN "OP1" IS SET FOR "NOT IN AUTO", THE OUTPUT CONTACTS CHANGE POSITION WHEN THE TRANSFER IS BEING INHIBITED FROM TRANSFERRING TO THE EMERGENCY SOURCE (FEATURE 3B) OR THE TRANSFER SWITCH HAS BEEN SET FOR NON-AUTOMATIC (MANUAL) OPERATION.

WHEN OPTIONAL ACCESSORY 11BE "SOFTWARE BUNDLE" IS PART OF THE TRANSFER SWITCH ASSEMBLY, "OP1" MAY ALTERNATIVELY SET FOR A "COMMON ALARM" SIGNAL. THE OUTPUT CONTACTS CHANGE POSITION WHEN A "COMMON ALARM" IS NOT PRESENT AND RESET WHEN A "COMMON ALARM" CONDITION IS PRESENT. THE "COMMON ALARM" SIGNAL CONDITIONS ARE SELECTABLE.

ADDITIONAL "COMMON ALARM" AND "NOT IN AUTO" CONTACTS ARE AVAILABLE WHEN OPTIONAL ACCESSORY 16RX (RELAY EXPANSION MODULE) IS INCLUDED IN THE TRANSFER SWITCH ASSEMBLY. OUTPUT CONTACTS "OP2 AND/OR "OP3" WILL PROVIDE SIGNAL FUNCTIONS WHEN THE FEATURE SETTING OF EACH IS SET TO OPERATE AS "COMMON ALARM" OR "NOT IN AUTO".

CONTACTS ARE RATED 5 AMPS RESISTIVE AT 30 VDC MAXIMUM, 100 mA AT 5 VDC MINIMUM.

REFER TO USER'S GUIDE, ASCO GROUP G CONTROLLER FOR AUTOMATIC & NON-AUTOMATIC TRANSFER SWITCHES, PART NUMBER 381333-400 FOR SETTING INFORMATION.

EXTERNAL POWER SUPPLY COMPATIBILITY

USE OF AN EXTERNAL POWER SUPPLY IS USEFUL WHEN REQUIRED TO EXTEND THE FOLLOWING CONTROLLER TIME DELAYS BEYOND 8 SECONDS;

FEATURE 1C - OVERRIDE MOMENTARY NORMAL SOURCE OUTAGES
FEATURE 1F - OVERRIDE MOMENTARY EMERGENCY SOURCE OUTAGES

AN EXTERNAL POWER SUPPLY IS ALSO USEFUL WHEN THE TRANSFER SWITCH IS USED WITH COMMUNICATIONS FEATURES BY ENABLING THE CONTROLLER TO CONTINUE COMMUNICATING.

AN EXTERNAL POWER SOURCE MAY BE PROVIDED TO THE CONTROLLER, UNTIL THE NORMAL SOURCE OR EMERGENCY SOURCE IS AVAILABLE, BY USE OF:

- AN EXTERNAL 24 VDC POWER SUPPLY WITH ACCESSORY 16RX (RELAY EXPANSION MODULE)
  OR
- OPTIONAL ACCESSORY 1UP (UNINTERRUPTIBLE POWER SUPPLY MODULE)

EXTERNAL 24 VDC POWER SUPPLY "1G":
AN EXTERNAL 24 VDC POWER SUPPLY MAY BE USED TO POWER THE CONTROLLER WHEN ACCESSORY 16RX (RELAY EXPANSION MODULE) IS INCLUDED IN THE TRANSFER SWITCH ASSEMBLY. OUTPUT CONTACTS "OP2" WILL PROVIDE EXTERNAL 24 VDC POWER SUPPLY FUNCTIONALITY WHEN ITS FEATURE SETTING IS SET TO OPERATE AS "1G". ADDITIONALLY, JUMPERS MUST BE RECONFIGURED ON ACCESSORY 16RX (RELAY EXPANSION MODULE) TO ENABLE THIS FUNCTION AS FOLLOWS;

REMOVE JUMPERS "J1" 1-2 & "J1" 3-4
CONNECT JUMPERS "J1" 5-7 & "J1" 6-8

THE OUTPUT CONTACTS CHANGE POSITION WHEN EITHER THE NORMAL SOURCE OR EMERGENCY SOURCE IS AVAILABLE AND RESET WHEN NEITHER SOURCE IS AVAILABLE. THE "OP2" N/C CONTACT SWITCHES CUSTOMER PROVIDED +24 VDC FROM THE EXTERNAL POWER SUPPLY TO THE CONTROLLER.

REFER TO USER'S GUIDE, ASCO GROUP G CONTROLLER FOR AUTOMATIC & NON-AUTOMATIC TRANSFER SWITCHES, PART NUMBER 381333-400 FOR SETTING INFORMATION.

ACCESSORY 1UP (UNINTERRUPTIBLE POWER SUPPLY):
WHEN OPTIONAL ACCESSORY 1UP IS INCLUDED IN THE TRANSFER SWITCH ASSEMBLY, THE CONTROLLER IS PROVIDED WITH LIMITED RESERVE POWER (APPROXIMATELY 3 MINUTES).

LOAD CURRENT METERING

WHEN OPTIONAL ACCESSORY 23GB IS PART OF THE TRANSFER SWITCH ASSEMBLY, THREE PHASE CURRENT MEASUREMENTS ARE AVAILABLE FOR DISPLAY ON THE GROUP G CONTROLLER.

REFER TO USER'S GUIDE, ASCO GROUP G CONTROLLER FOR AUTOMATIC & NON-AUTOMATIC TRANSFER SWITCHES, PART NUMBER 381333-400 FOR INFORMATION ON USE.

ADVANCED-FUNCTION SOFTWARE BUNDLE

WHEN OPTIONAL ACCESSORY 11BE IS PART OF THE TRANSFER SWITCH ASSEMBLY, AN ADVANCED-FUNCTION SOFTWARE BUNDLE IS AVAILABLE TO PERFORM THE FOLLOWING FUNCTIONS:

-SERIAL COMMUNICATIONS (RS-485)
-PROGRAMMABLE ENGINE EXERCISER
-EVENT LOG
-COMMON ALARM SIGNAL CAPABILITY ON GROUP G CONTROLLER "OP1" OUTPUT.

(1 PHASE SENSING ONLY)
-3 PHASE EMERGENCY SOURCE SENSING.
-PHASE ROTATION SENSING.
-EMERGENCY VOLTAGE UNBALANCE SENSING.

REFER TO USER'S GUIDE, ASCO GROUP G CONTROLLER FOR AUTOMATIC & NON-AUTOMATIC TRANSFER SWITCHES, PART NUMBER 381333-400 FOR INFORMATION ON THESE FUNCTIONS.

NON-AUTOMATIC (MANUAL) OPERATION

TRANSFER SWITCH ASSEMBLIES FACTORY SET FOR NON-AUTOMATIC OPERATION PROVIDE USER INITIATED, ELECTRICAL OPERATION OF THE TRANSFER SWITCH TO EITHER AVAILABLE SOURCE. THE TRANSFER SWITCH ASSEMBLY IS PHYSICALLY IDENTICAL TO THAT OF THE AUTOMATIC TYPE.

WHEN THE TRANSFER SWITCH IS SET FOR NON-AUTOMATIC OPERATION, A CUSTOMER PROVIDED SELECTOR SWITCH MAY BE USED TO OPERATE IT FROM A REMOTE LOCATION.

REMOTE CONTROL FEATURES

THE FOLLOWING CONTROL PANEL INPUTS PROVIDE REMOTE CONTROL FUNCTIONS FOR THE TRANSFER SWITCH. EACH FUNCTION CAN BE IMPLEMENTED BY THE CUSTOMER PROVIDING THE FORM OF CONTROL DESCRIBED. EACH CONTROL CONTACT MUST BE SUITABLE FOR A 5 VDC LOW ENERGY CIRCUIT.

EXTERNAL FEATURE 17: REMOTE TRANSFER TO EMERGENCY FEATURE (FOR AUTOMATIC TRANSFER TYPE ONLY) - REQUIRES A CUSTOMER SUPPLIED, NORMALLY CLOSED CONTACT. OPENING OF THE CONTACT CAUSES ENGINE START AND TRANSFER TO THE EMERGENCY SOURCE. RE-CLOSURE OF THE CONTACT ACTIVATES THE FEATURE 3A "RETRANSFER TO NORMAL (IF JUST TEST) TIME DELAY PRIOR TO RETRANSFER. IN THE EVENT THAT THE EMERGENCY SOURCE FAILS WHILE THE TRANSFER SWITCH IS CONNECTED TO EMERGENCY AND THE CUSTOMER SUPPLIED CONTACT IS OPEN, THE TRANSFER SWITCH WILL AUTOMATICALLY RETRANSFER TO THE NORMAL SOURCE.

EXTERNAL FEATURE 6B: REMOTE BYPASS OF RETRANSFER TO NORMAL TIME DELAY - REQUIRES A CUSTOMER SUPPLIED, NORMALLY CLOSED CONTACT. OPENING OF THE CONTACT BYPASSES FEATURE 3A RETRANSFER TO NORMAL DELAY IF ACTIVE.

REFER TO USER'S GUIDE, ASCO GROUP G CONTROLLER FOR AUTOMATIC & NON-AUTOMATIC TRANSFER SWITCHES, PART NUMBER 381333-400 FOR SETTING INFORMATION.

ACCESSORIES

ACC. 119M 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

CUSTOMER SUPPLIED 120VAC OR (OPTIONAL 24VDC)

*** WHEN NEEDED
POWER SUPPLY PROVIDED TO CONVERT 120VAC TO 24VDC FOR ERMS I/O MODULE

SEE SUPPLEMENTARY WIRING 800079-107 FOR ERMS CONNECTIONS.

NOTES

1. SWITCH SHOWN DE-ENERGIZED CONNECTED TO NORMAL SOURCE.
2. DEVICE SYMBOLS AND DESIGNATIONS ARE IN ACCORDANCE WITH NEMA PUB. ICS 1, PART 1-101A.
3. ALL WIRING IS #18 AWG, TINNED, STRANDED COPPER UNLESS OTHERWISE INDICATED.
4. INDICATES CUSTOMER CONNECTION POINTS.
5. INDICATES FACTORY CONNECTION POINTS.
6. CONNECTION POINTS THAT HAVE BOTH CUSTOMER CONNECTIONS AND FACTORY CONNECTIONS ARE SHOWN OPEN AS CUSTOMER CONNECTION POINTS.
7. THE TRANSFER UNIT IS MOUNTED ON THE BACK INSIDE SURFACE OF THE ENCLOSURE. THE CONTROL PANEL AND ANY OPTIONAL ACCESSORIES ARE MOUNTED ON THE INSIDE SURFACE OF THE DOOR.
8. AN OPERATOR'S MANUAL IS FURNISHED WITH EACH AUTOMATIC TRANSFER SWITCH. REFER TO THIS PUBLICATION PRIOR TO INSTALLATION AND OPERATION OF THE SWITCH.
9. GROUND STRAP ON CONTROL PANEL IS AFFIXED TO CHASSIS (ENCLOSURE) AT LOWER LEFT CONTROL PANEL MOUNTING STUD.

CATALOG NUMBER SUFFIXES

TS FRAME	CATALOG TYPE	NEUTRAL TYPE	PHASE POLES	AMPS	VOLT CODE	CONTROLLER	OPTIONAL ACCESSORY	ENCLOSURE CODE
					C			
					D			
					E			
					F			C
					G			F
				1000	H			G
				1200	J			H
G	3ATS	A	3	1600	K	G	X	L
	3NTS	B		2000	L			M
				2600	M			N
				3000	N			P
				3200	P			Q
					Q			
					R		BLANK	BLANK

EXPLANATION OF CATALOG NUMBER CODES

NEUTRAL TYPE CODE	NEUTRAL TYPE DESCRIPTION
A	SOLID
B	SWITCHING

VOLTAGE CODES 3 PHASE (3 OR 4 WIRE) 50 OR 60 HZ CODE	NOMINAL VOLTAGE
C	208
D	220
E	230
F	240
G	277
H	380
J	400
K	415
L	440
M	460
N	480
P	550
Q	575
R	600

ENCLOSURE CODES CODE	TYPE	DESCRIPTION
BLANK		OPEN TYPE (NO ENCLOSURE)
C	1	GENERAL PURPOSE, INDOOR
F	3R	OUTDOOR, RAINPROOF, SLEET & ICE RESISTANT
G	4	INDOOR/OUTDOOR, WATERTIGHT & DUSTTIGHT
H	4X	TYPE 4 PLUS CORROSION RESISTANCE (STAINLESS STEEL)
L	12	INDOOR, INDUSTRIAL ENVIRONMENTS, OIL TIGHT & DUSTTIGHT
		(SECURE ENCLOSURES)
M	3R	OUTDOOR, RAINPROOF, SLEET & ICE RESISTANT
N	4	INDOOR/OUTDOOR, WATERTIGHT & DUSTTIGHT
P	4X	TYPE 4 PLUS CORROSION RESISTANCE (STAINLESS STEEL)
Q	12	INDOOR, INDUSTRIAL ENVIRONMENTS, OIL TIGHT & DUSTTIGHT

CATALOG NUMBER

ASCO * CERTIFIED TO S.O.

BY _____ DATE _____

FORM REV J

PROJECT NAME:

WIRING DIAGRAM

300 SERIES (G3ATS/G3NTS) 3PH 1000-3200 AMPS
"G" FRAME, GROUP G CONTROLS

THIRD ANGLE PROJECTION

REV.	DATE	DESCRIPTION
A	275710	VDG HSL 11/12/16
	SEE ECN	
--	268702	DR HSL 06/23/17
	ISSUE	

REV. TO SHEET	SCH NO.	BY	APP.	DATE

	BY	DATE
DRAWN BY	DR	06/23/17
CHECKED	HSL	06/23/17
PROJECT APPROVAL	BK	06/23/17
ENGR. APPROVAL		

MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP1-003, FOR PLASTIC PARTS SEE MP1-006

ASSOC. REF. NO.

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COMPUTER GENERATED DRAWING

SCALE NONE SIZE D

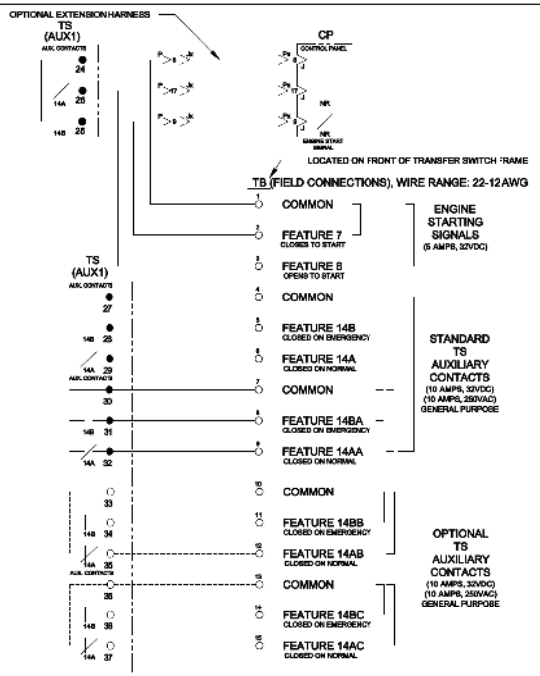
DWG. NO. 1001662-025

DRAWING A REV. A

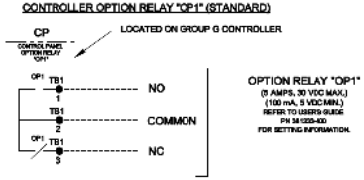
REV. ECO 275710

SHEET 1 OF 7

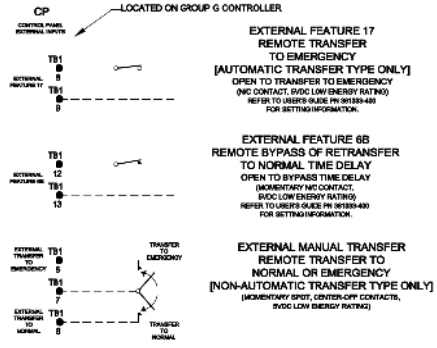
FIELD CONNECTIONS



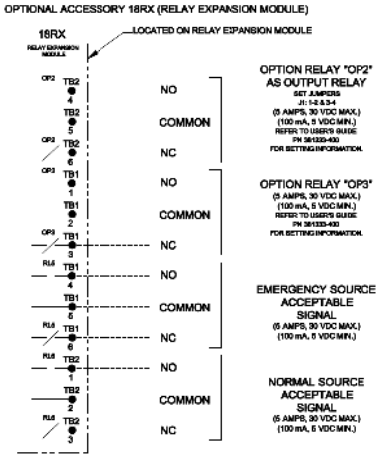
CONTROLLER OPTION RELAY "CP1" (STANDARD)



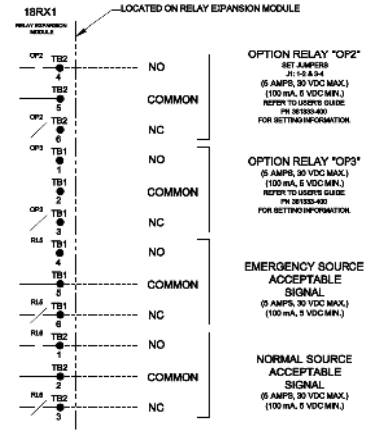
CONTROLLER REMOTE CONTROL FEATURES



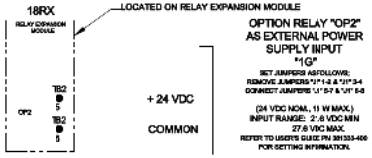
OPTIONAL ACCESSORY 18RX (RELAY EXPANSION MODULE)



OPTIONAL ACCESSORY 18RX1 (SECOND RELAY EXPANSION MODULE)

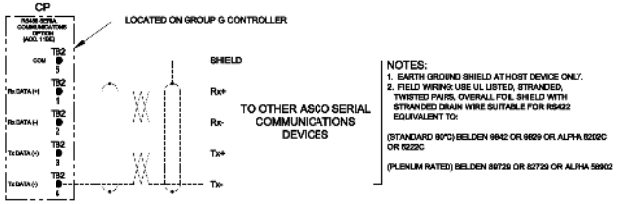


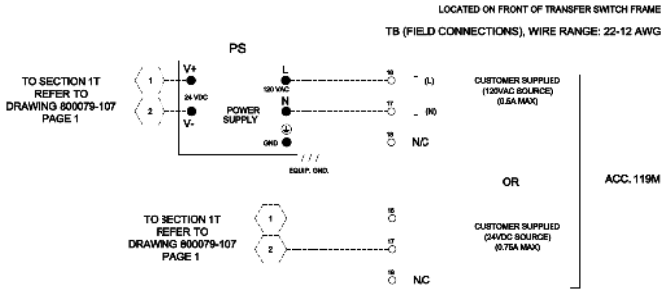
"OP2" OPTIONAL USES



RS485 SERIAL COMMUNICATIONS OPTION

AVAILABLE WITH OPTIONAL ACCESSORY 119E: ADVANCED-FUNCTION SOFTWARE BUNDLE
REFER TO USER'S GUIDE PN 381333-400 FOR SETTING INFORMATION.





REV	ECN/ECR	DESCRIPTION	BY	DATE
A	275710	VDI HSL 11/12/16		
	SEE ECN			
	288702	DR HSL 06/23/17		
-	ISSUE			

PROJECT NAME:

WIRING | DIAGRAM

300 SERIES (G3ATS/G3NTS) 3PH 1600-3200 AMPS

"G" FRAME, GROUP G CONTROLS

THIRD ANGLE PROJECTION

	BY	DATE
DRAWN BY	DR	06/23/17
CHECKED	HSL	06/29/17
PROJECT APPROVAL	BK	06/29/17
ENGR. APPROVAL		

MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP1-003. FOR PLASTIC PARTS SEE MP1-004.

ASSOC. REF. NO.

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COMPUTER GENERATED DRAWING

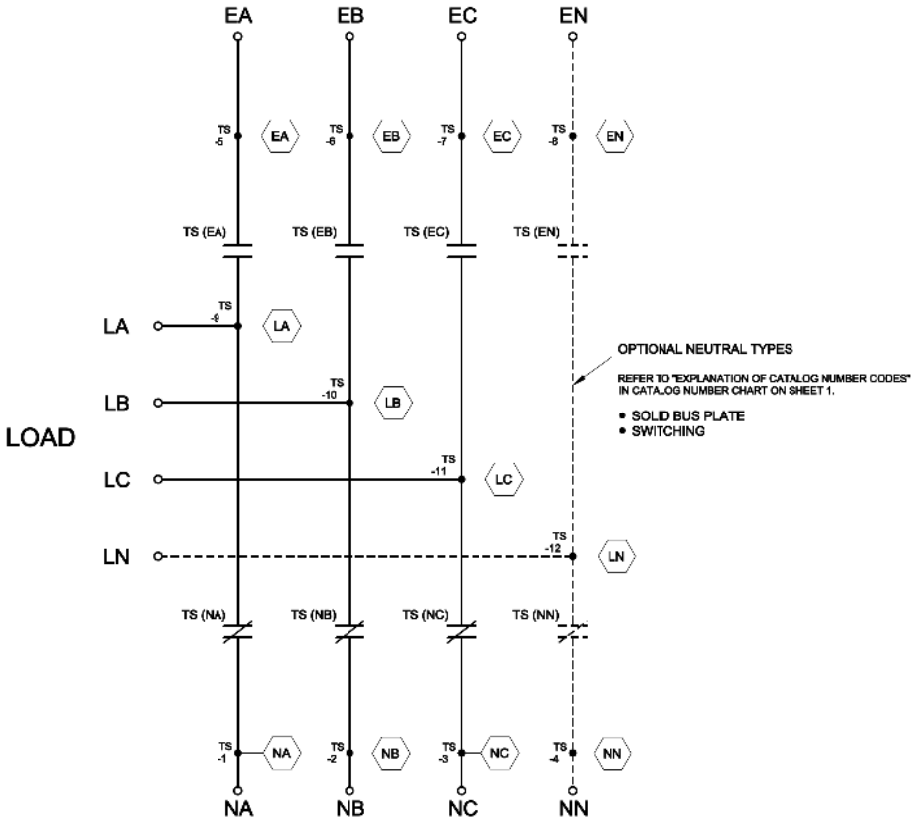
SCALE: NONE | SIZE: D/S

DWG. NO. 1001662-025

DRAWING A REV. A | REV. 275710 | SHEET 2 OF 7

MAIN POWER POLES

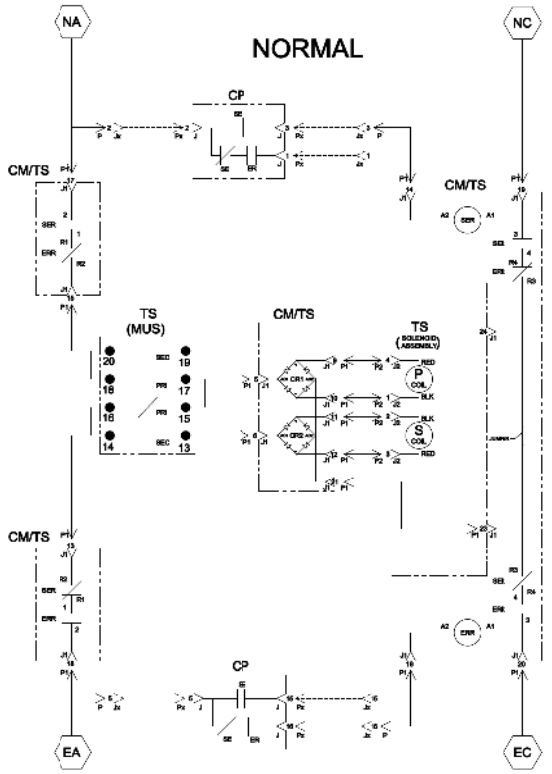
EMERGENCY



NORMAL

NOTE:
ATS/NTS SHOWN CLOSED ON NORMAL SOURCE.

TS OPERATOR CIRCUIT



EMERGENCY

TS (MUS) CONTACTS SOLENOID POSITION

MUS	NORM	>	AFTER TDO *	<	EMER
15-14					
16-15					
17-18					
19-20					

*AFTER SOLENOID PASSES THROUGH TOP DEAD CENTER POSITION.

A	275710	VDI HSL	11/12/16
–	SEE ECN		
	268702	DR HSL	06/23/17
	ISSUE		

PROJECT NAME:

WIRING DIAGRAM

300 SERIES (G3ATS/G3NTS) 3PH 1100-3200 AMPS
"G" FRAME, GROUP G CONTROLS

THIRD ANGLE PROJECTION

COMPUTER GENERATED DRAWING

DRAWN BY DR 06/23/17
CHECKED HSL 06/29/17
PROJECT APPROVAL BK 06/29/17
FINAL APPROVAL

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

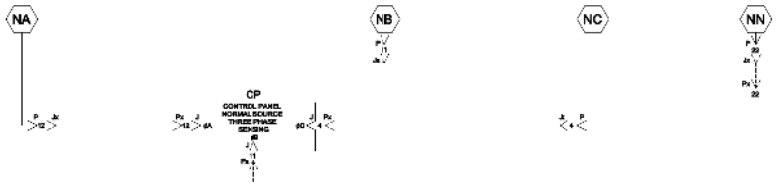
SCALE NONE SIZE DS

DWG NO. 1001662-025

DRAWING A REV A | REV LTR A | ECN 275710 | SHEET 3 OF 7

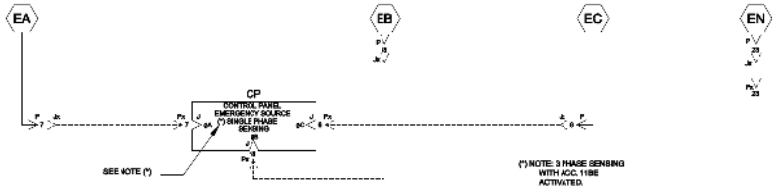
NORMAL SOURCE CIRCUITS

NORMAL



EMERGENCY SOURCE CIRCUITS

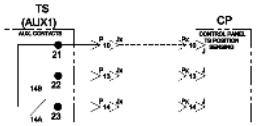
EMERGENCY



LOAD TERMINAL CIRCUITS

LOAD

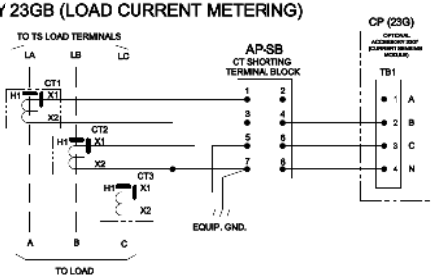
CONTROL SIGNALS & INDICATION



ADDITIONAL CIRCUITS

OPTIONAL ACCESSORY 23GB (LOAD CURRENT METERING)

CURRENT TRANSFORMER RATIO TABLE	
SWITCH RATING	CT RATIO
1000A	1200:5A
1200A	1200:5A
1600A	2000:5A
2000A	2000:5A
2600A	3000:5A
3000A	3000:5A
3200A	4000:5A



REV.	ECN NO.	BY	APP.	DATE
A	275710	VDI	HSL	11/12/16
-	SEE ECN			
	268702	DR	HSL	06/23/17
	ISSUE			

PROJECT NAME:

WIRING DIAGRAM

300 SERIES (G3ATS/G3NTS) 3PH 1100-3200 AMPS

"G" FRAME, GROUP G CONTROLS

THIRD ANGLE PROJECTION

	BY	DATE
DRAWN BY	DR	06/23/17
CHECKED	HSL	06/29/17
PROJECT APPROVAL	BK	06/29/17
ENGL APPROVAL		

MANUFACTURED TO A PROCESS TO REF IN ACCORDANCE WITH ASCO PROCEDURE MP1-1600, FOR PLASTIC PARTS SEE MP1-1600

ASSOC. REF. NO.

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COMPUTER GENERATED DRAWING

SCALE NONE SIZE D/S

DWG. NO. 1001662-025

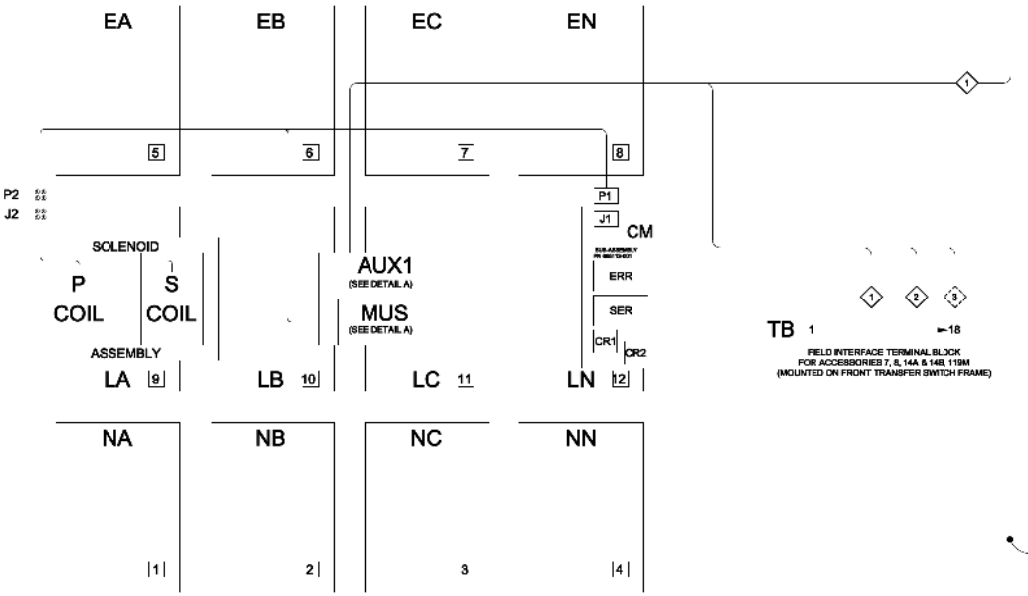
ASCO ASCO POWER TECHNOLOGIES L.P. FLORHAM PARK, NEW JERSEY 07932, U.S.A.

DRAWING A REV. A | ECN NO. 275710 | SHEET 4 OF 7

PHYSICAL DIAGRAM

ENCLOSURE

TS (TRANSFER SWITCH)

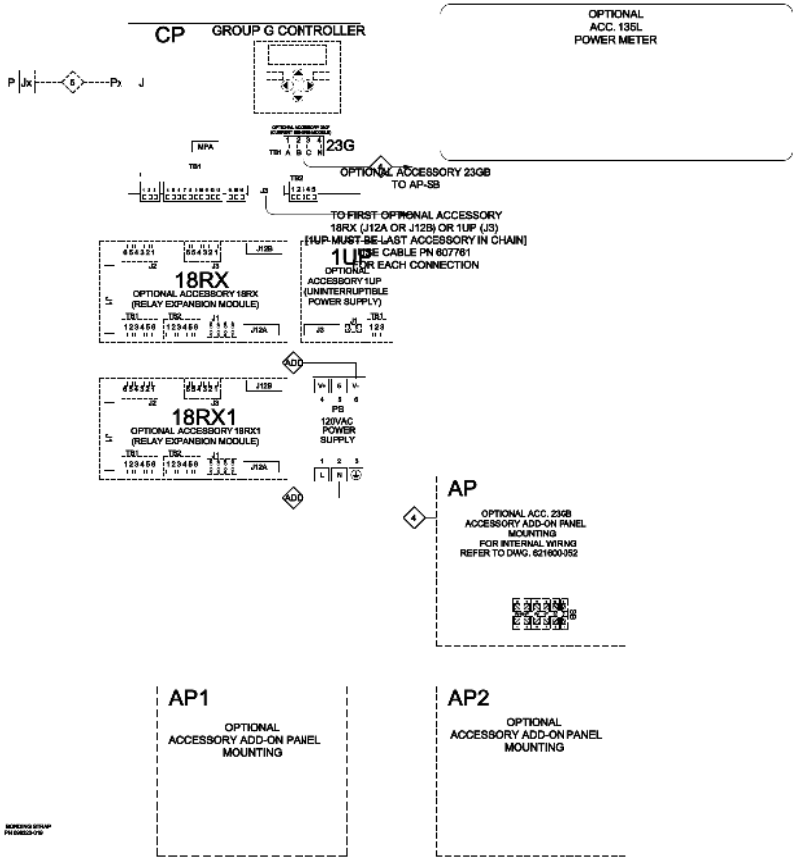


TB 1 ⟶18

FIELD INTERFACE TERMINAL BLOCK
FOR ACCESSORIES 7, 8, 14A & 14B, 119M
(MOUNTED ON FRONT TRANSFER SWITCH FRAME)

DETAIL A
MUS & AUX1
TOP VIEW

DOOR, INSIDE



NOTE: PHYSICAL DIAGRAM MAY VARY BASED ON
THE ENCLOSURE USED.

REV.	ECN NO.	BY	APP.	DATE
A	275710	VDI	HSL	11/12/16
–	SEE ECN			
	268702	DR	HSL	06/23/17
	ISSUE			

PROJECT NAME:

WIRING DIAGRAM

300 SERIES (G3ATS/G3NTS) 3PH 1100-3200 AMPS
"G" FRAME, GROUP G CONTROLS

THIRD ANGLE PROJECTION

	BY	DATE
DRAWN BY	DR	06/23/17
CHECKED	HSL	06/23/17
PRODUCT APPROVAL	BK	06/23/17
ENGL APPROVAL		

MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP1-003, FOR PLASTIC PARTS SEE MP1-008

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FLORHAM PARK, NEW JERSEY 07932 U.S.A.

COMPUTER GENERATED DRAWING

SCALE NONE SIZE DS

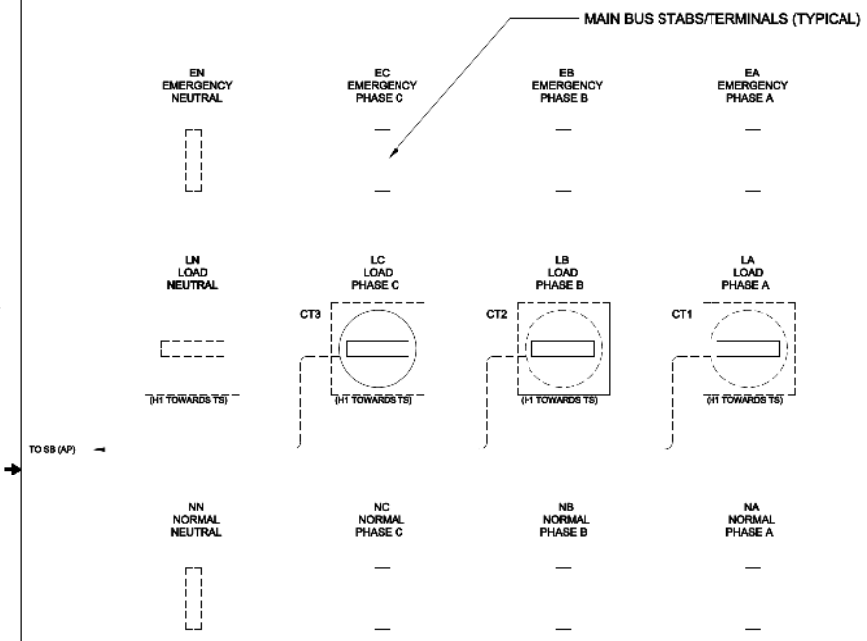
DWG. NO. 1001662-025

DRAWING A REV. A | ECN 275710 | SHEET 5 OF 7

PHYSICAL DIAGRAM (CONTINUED)

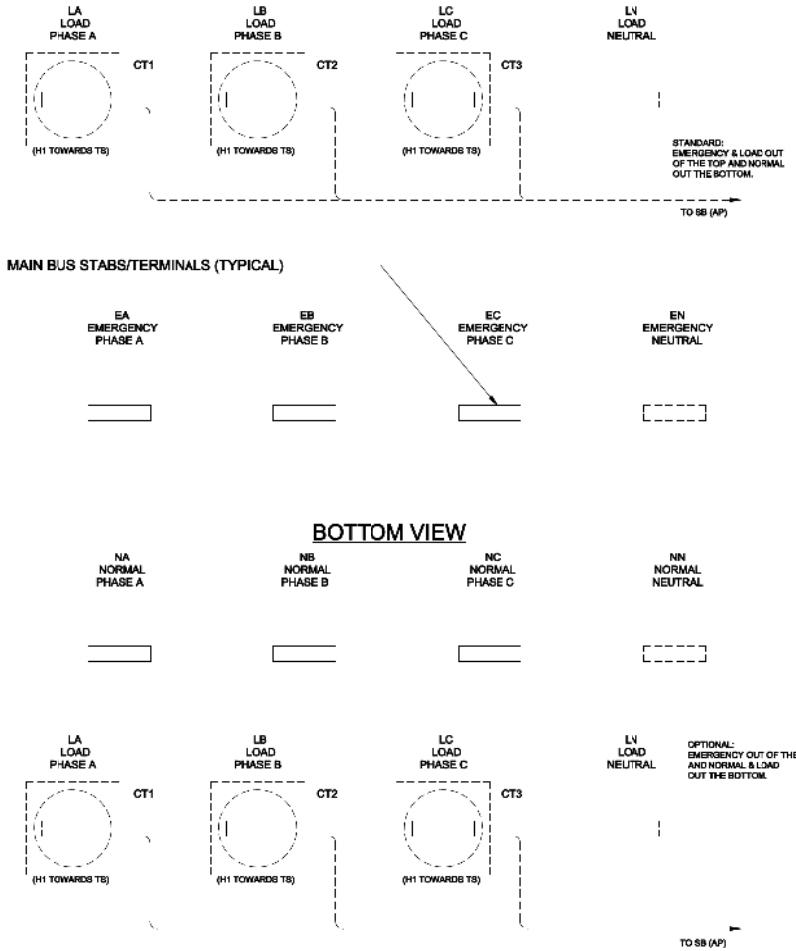
REAR CONNECTED SWITCH
1000 - 3200 AMP. TS REAR VIEW

OPTIONAL ACCESSORY 23GB
(LOAD CURRENT METERING)



FRONT CONNECTED SWITCH
1000 - 2000 AMP. TS TOP VIEW

OPTIONAL ACCESSORY 23GB
(LOAD CURRENT METERING)



REV. TO SHEET	ECN NO.	BY	APP.	DATE
A	275710	VDS	HSL	11/12/16
	SEE ECN			
	268702	DR	HSL	06/23/17
	ISSUE			

PROJECT NAME:

WIRING DIAGRAM

300 SERIES (G3ATS/G3NTS) 3PH 1100-3200 AMPS

"G" FRAME, GROUP G CONTROLS

THIRD ANGLE PROJECTION

	BY	DATE
DRAWN BY	DR	06/23/17
CHECKED	HSL	06/29/17
PROJECT APPROVAL	BK	06/29/17
ENGL APPROVAL		

MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP1-1003, FOR PLASTIC PARTS SEE MP1-1004

ASSOC. REF. NO.

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COMPUTER GENERATED DRAWING

SCALE NONE SIZE D/S

DWG. NO. 1001662-025

DRAWING A REV. A | SCH. NO. 275710 | SHEET 8 OF 7

WIRE RUN LISTING

1 HARNESS LOCATOR

WIRE No.	HARNESS 505454 (P,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-6		
7	P-8,TS(AUX1)-24		
8	TS(AUX1)-24,J3-1		
9	P-9,TS(AUX1)-25		
10	TS(AUX1)-25,J3-2		
11	P-10,TS(AUX1)-21		
12	P-11,TS-2		
13	P-12,TS-1		
14	P-13,TS(AUX1)-22		
15	P-14,TS(AUX1)-23		
16	P-16,P1-16		
17	P-17,J3-3		
18	P-18,TS-8		
19	P-19,TS-9		
20	P-20,TS-10		
21	P-21,TS-11		
22	P-22,TS-4		
23	P-23,TS-6		
24	P-24,TS-12		
25	P1-5,TS(MUS)-17		
26	TS(MUS)-17,TS(MUS)-15		
27	P1-6,TS(MUS)-19		
28	TS(MUS)-19,TS(MUS)-13		
29	P1-9,P2-4		
30	P1-10,P2-1		
	P1-11,P2-2		
	P1-12,P2-3		
	P1-13,TS(MUS)-16		
	TS(MUS)-16,TS(MUS)-14		
	P1-15,TS(MUS)-20		
	TS(MUS)-20,TS(MUS)-18		
	P1-17,TS-1		
	P1-18,TS-5		
	P1-19,TS-3		
	P1-20,TS-7		
	P1-21,P1-23		
	REMOVE WIRES		
8	TS(AUX1)-24,J3-1		
7	TS(AUX1)-25,J3-2		
14	P-17,J3-3		
	ADD WIRES		
8	TS(AUX1)-24,TB-1		
7	TS(AUX1)-25,TB-2		
200	P-1		
14	P-17,TB-3		
222	P-15		

2 HARNESS LOCATOR

WIRE No.	TS STD. AUX. CONTACTS	CLR	AWG
40	TS-4,TS(AUX1)-27		16
41	TS-5,TS(AUX1)-28		
42	TS-8,TS(AUX1)-29		
43	TS-7,TS(AUX1)-30		
44	TS-9,TS(AUX1)-31		
45	TS-9,TS(AUX1)-32		

3 HARNESS LOCATOR

WIRE No.	OPTIONAL AUX. CONTACTS	CLR	AWG
46	TS-10,TS(AUX1)-33		16
47	TS-11,TS(AUX1)-34		
48	TS-12,TS(AUX1)-35		
49	TS-13,TS(AUX1)-36		
50	TS-14,TS(AUX1)-38		
51	TS-10,TS(AUX1)-37		

4 HARNESS LOCATOR

WIRE No.	OPTIONAL ACCESSORY 23GB (CT*,AP-SB,CP(23G)-TB1)	CLR	AWG
230	CT1-X1,AP-SB-1		16
230	AP-SB-2,CP(23G)-TB1-1		
231	CT2-X1,AP-SB-3		
231	AP-SB-4,CP(23G)-TB1-2		
232	CT3-X1,AP-SB-5		
232	AP-SB-6,CP(23G)-TB1-3		
233	CT1-X2,C?2-X2	GRN	
233	CT2-X2,C?3-X2	GRN	
233	CT3-X2,AP-SB-7	GRN	
233	AP-SB-7,EQUIP. GRD.	GRN	
233	AP-SB-8,CP(23G)-TB1-4	GRN	

5 HARNESS LOCATOR

WIRE No.	HARNESS 309320-005 OPTIONAL 8 IN. EXTENSION HARNESS	CLR	AWG
200	J4-1,Px-1		16
1	J4-2,Px-2		
2	J4-3,Px-3		
3	J4-4,Px-4		
4	J4-5,Px-5		
5	J4-6,Px-6		
4	J4-7,Px-7		
6	J4-8,Px-8		
7	J4-9,Px-9		
8	J4-10,Px-10		
9	J4-11,Px-11		
10	J4-12,Px-12		
11	J4-13,Px-13		
12	J4-14,Px-14		
222	J4-15,Px-15		
13	J4-16,Px-16		
14	J4-17,Px-17		
15	J4-18,Px-18		
18	J4-19,Px-19		
17	J4-20,Px-20		
18	J4-21,Px-21		
19	J4-22,Px-22		
20	J4-23,Px-23		
21	J4-24,Px-24		

WIRE No.	ADDITIONAL WIRING ACC 119M WITH POWER SUPPLY PROVIDED	CLR	AWG
105	TB-18,PS-L		16
106	TB-17,PS-N		
216	PS-V(+),TB1-101		
216	PS-V(-),TB1-102		
217	PS-GND, EQUIP. GND GRN		

TB1 LOCATED ON SUPPLEMENTARY WIRING 800079-107 N BREAKER SECTION

WIRE No.	ADDITIONAL WIRING ACC 119M WITHOUT POWER SUPPLY	CLR	AWG
105	TB-16,TB1-101		16
106	TB-17,TB1-102		

TB1 LOCATED IN SECTION 1 ON SUPPLEMENTARY WIRING 800079-107

A	275710	VDI	HSL	11/12/16
	SEE ECN			
–	268702	DR	HSL	06/23/17
	ISSUE			

PROJECT NAME:

WIRING DIAGRAM

300 SERIES (G3ATS/G3NTS) 3PH 1100-3200 AMPS

"C" FRAME, GROUP G CONTROLS

THIRD ANGLE PROJECTION

	BY	DATE
DRAWN BY	DR	06/23/17
CHECKED	HSL	06/29/17
PROJECT APPROVAL	BK	06/30/17
ENGR. APPROVAL		

MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP1-003. FOR PLASTIC PARTS SEE MP1-005

ASSOC. REF. NO.

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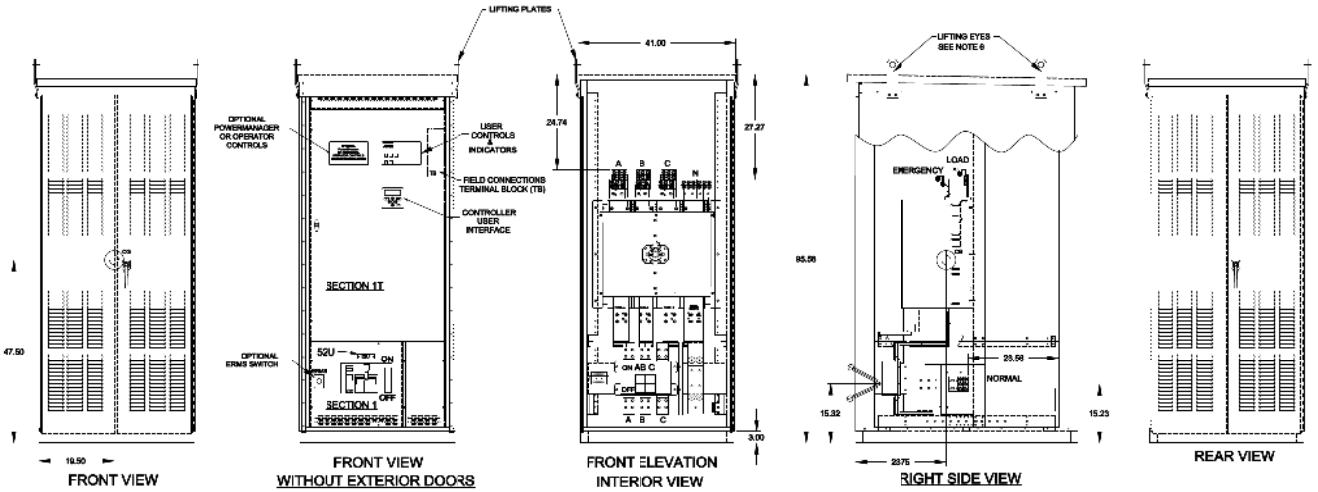
COMPUTER GENERATED DRAWING

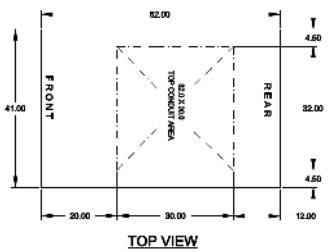
SCALE NONE | SIZE D | DS

DWG. NO. 1001662-025

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

DRAWING A REV. | BOM REV. 275710 | SHEET 7 OF 7





TOP VIEW

GENERAL NOTES

1. 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.
2. EXTERIOR DOORS HAVE PADLOCKABLE HANDLES WITH 3-POINT LATCH
3. DESIGNED FOR FRONT & REAR ACCESS.
4. RECOMMENDED CLEARANCES: FRONT: 36" REAR: 36"
5. EXTERIOR VENTS:
   1000A - 1600A: NO VENTS.
   2000A: 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 BEFORE USE. REFER TO ANSI/NEMA PB 2.1 FOR PROPER HANDLING OF EQUIPMENT. AFTER INSTALLATON OF SECTION, REMOVE LIFTING PLATES. REINSTALL BOLTS INTO EXTERIOR HOLES AND TORQUE TO APPROXIMATELY 20 FT LBS.
7. CG CENTER OF GRAVITY
8. APPROXIMATE WEIGHT : 2400 lbs

SYSTEM NOTES

1. SYSTEM RATING: 1000 AMPS, 1200 AMPS, 1600 AMPS, 2000 AMPS, 3φ, 4W OR 1φ 3W.
   SHORT CIRCUIT RATING: 85,000 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.
2. ALL BUS IS SILVER-PLATED COPPER, BASED ON 1000A PER SQ. IN. DENSITY.
3. GROUND: 20% RATED.
4. NEUTRAL: 100% RATED.
5. APPLICABLE LABEL(S): U.L. 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.
   SHORT CIRCUIT RATING WHEN PROTECTED BY A CIRCUIT BREAKER
   TIME RESPONSE, MAXIMUM 0.05 SECONDS: 85,000 RMS SYM @ 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
4. UL 1008

TERMINATIONS 1000A - 1200A

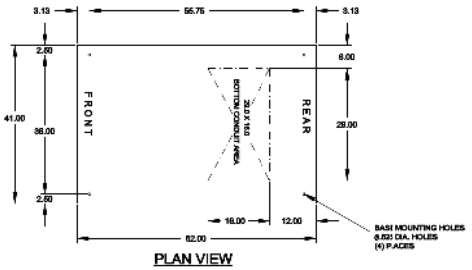
1. SUPPLIED WITH MECHANICAL (SCREW TYPE) LUGS FOR CU/AL CABLE.
   NORMAL: (4) 1/0 - 600MCM PER PHASE & NEITRAL
   LOAD: (4) 1/0 - 600MCM PER PHASE & NEUTRAL
   EMERGENCY: (4) 1/0 - 600MCM PER PHASE & NEUTRAL
   GROUND: (12) 1/0 - 600MCM
   A. SUITABLE WIRE BENDING SPACE IS PROVIDED AS PER NEC.
2. OPTIONAL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

TERMINATIONS 1600A - 2000A

1. 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.
2. OPTIONAL LUGS MAY BE SUPPLIED.

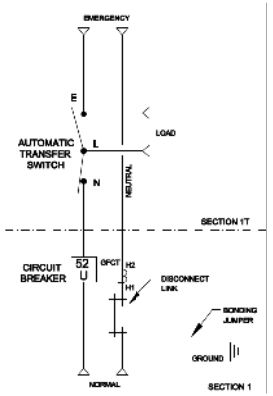
CIRCUIT BREAKER: ITEM 52U

1. SQUARE "D" 80% RATED, TYPE "RJF" 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 85,000 RMS SYS @ 480V.
2. OPTIONAL 100% RATED BREAKER MAY BE SUPPLIED.
3. OPTIONAL ENERGY REDUCTION MAINTENECE SETTING MAY BE SUPPLIED
4. U.L.489

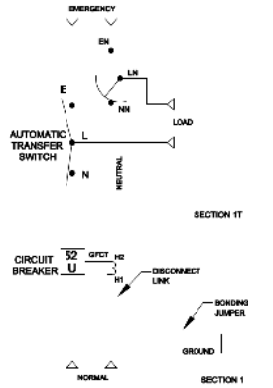


PLAN VIEW

ONE LINE DIAGRAMS



(WITH SOLID NEUTRAL)



(WITH SWITCHED/OVERLAPPING NEUTRAL)

R	307820 SEE ECN	TAA	MCH 2-13-24
N	306943 SEE ECN	SG	MCH 01/10/24
M	304405 SEE ECN	PG	MCH 07/12/23

PROJECT NAME:		REV. TO SHEET	ECN NO.	BY APP. DATE
OUTLINE	MOUNTING			THIRD ANGLE PROJECTION
G4US 1000A - 2000A, RJF SE BREAKER				
TYPE 3R/3RX 95.5 X 41 X 62 SECTION 1 & 1T				

DRAWN BY	SG	10/20/15	
CHECKED	RN		
PRODUCT APPROVAL			
ENGR. APPROVAL			

MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP1-005 FOR PLASTIC PARTS SEE MP1-006

ASSOC. REF. NO.

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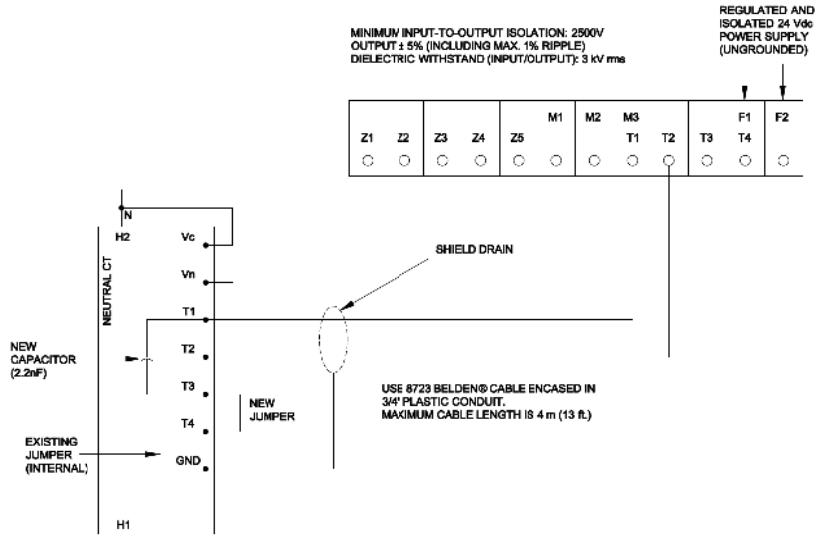
COMPUTER GENERATED DRAWING

SCALE NONE SIZE D

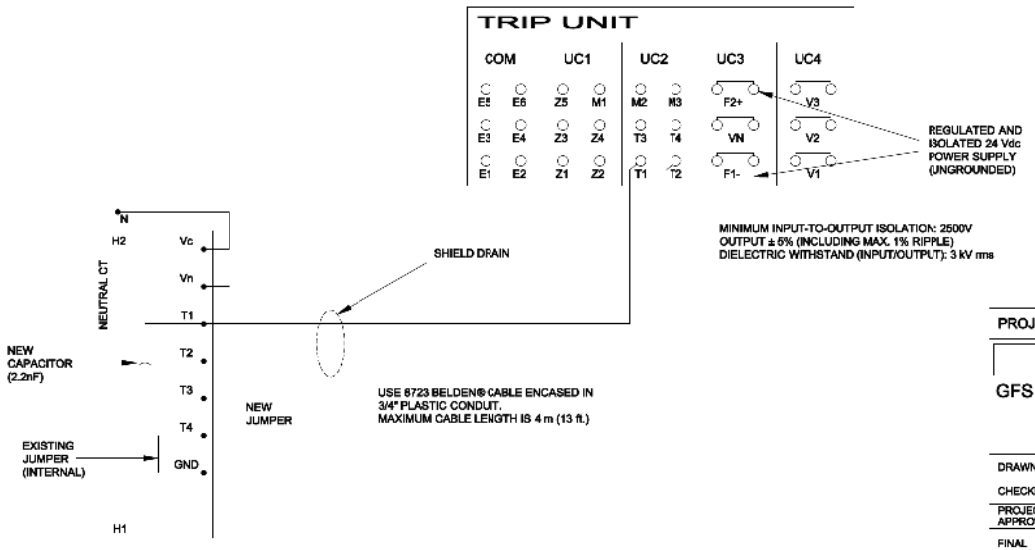
754577-050

DRAWING REV. D ECN NO. 307820 SHEET 1 OF 1

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



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



REV. TO SHEET	ECN NO.	BY	APP.	DATE
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:

GFS CIRCUITRY.

THIRD ANGLE PROJECTION

	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-I-003. FOR PLASTIC PARTS SEE MP-I-055

ASSEM. REF. NO.

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FLORHAM PARK, NEW JERSEY 07932 U.S.A.

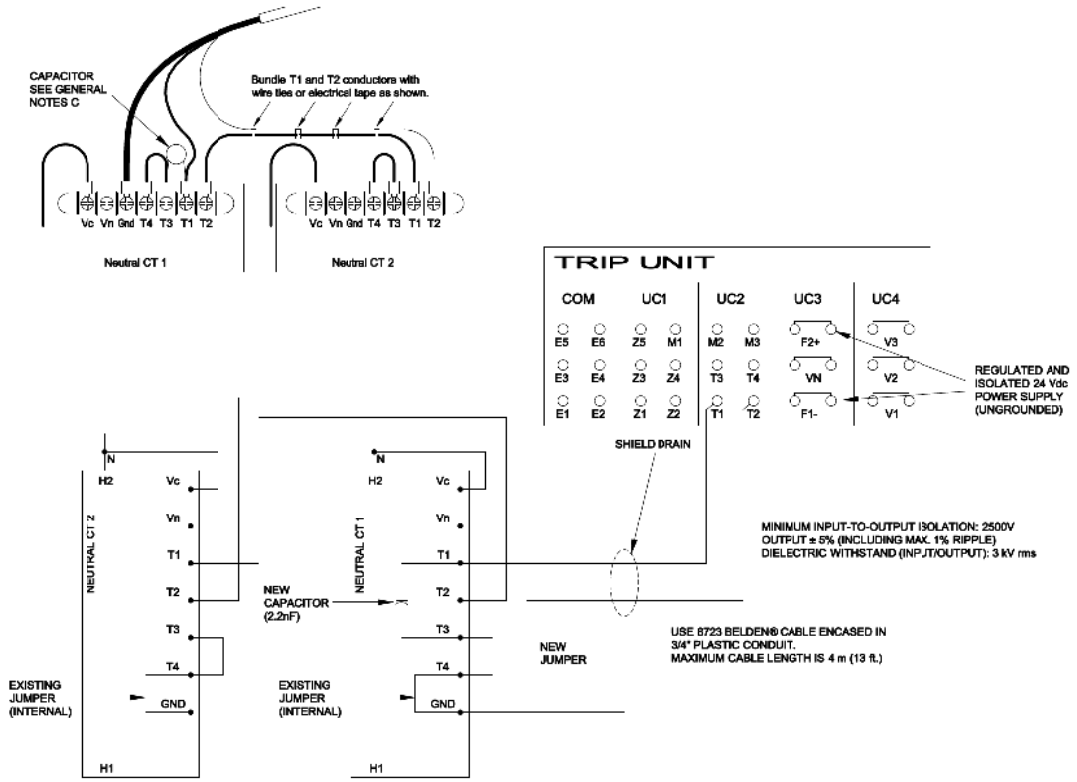
COMPUTER GENERATED DRAWING

SCALE SIZE BS

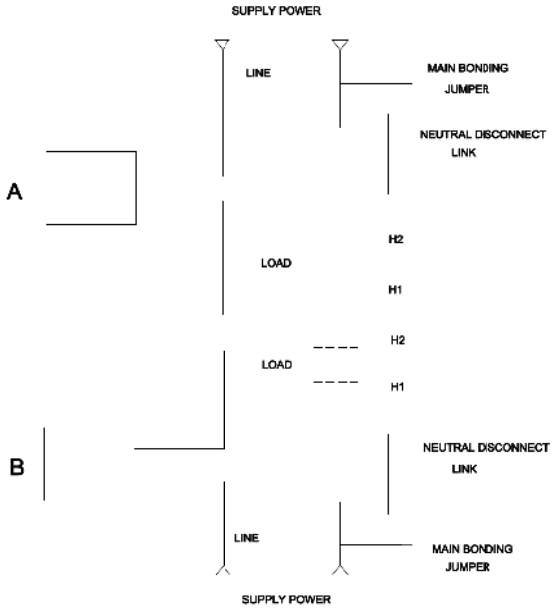
DWG. NO. 758574

DRAWING REV. F ECN NO. 257650 SHEET 1 OF 2

WIRING SCHEMATIC FOR 3200-6000 A NW CIRCUIT BREAKERS



LINE DIAGRAM FOR NW BREAKER



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

THIRD ANGLE PROJECTION

	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-I-003. FOR PLASTIC PARTS SEE MP-I-055

ASSEM. REF. NO.

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