

Woodstock D-Frame & J-Frame Stock

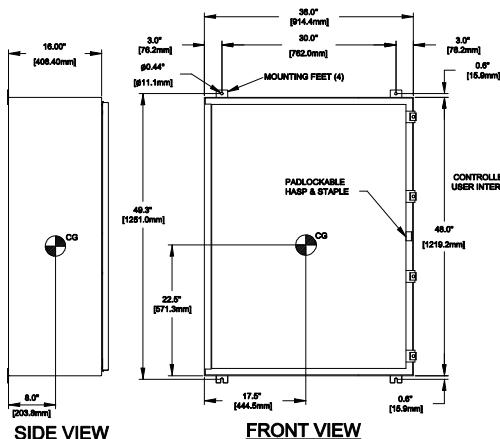
Transfer Switch Details

#3	ATS	AMPS: 0200	QTY: 2
Product	: Series 300	Catalog Number	: D03AUSB30200CGXM
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 = D, Switch Rating = 0200, 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	:

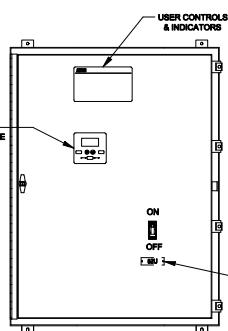
#	ACCESSORY DESCRIPTIONS	
	Accessory Code	Description
1	11BE	Adds the following features to the Group G controller: (1) Serial RS-485 Modbus Communications (2) Multi-Schedule Engine Exerciser (3) a 300 Entry Event Log and (4) a common alarm output function. When applied on 3-phase systems it also enables: (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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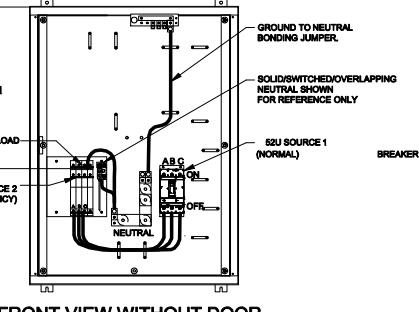
D



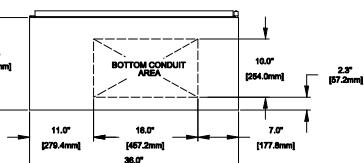
FRONT VIEW



TOP VIEW

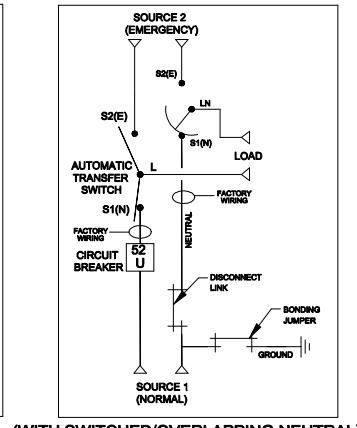
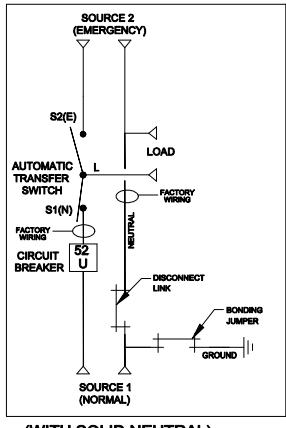


BREAKER



BOTTOM VIEW

ONE LINE DIAGRAMS



SEE TABLE 1 FOR METRIC TERMINATIONS

TABLE 1	
#14 AWG	2.5mm ²
#6 AWG	16mm ²
#4 AWG	25mm ²
1/0 AWG	50mm ²
2/0 AWG	70mm ²
3/0 AWG	95mm ²
4/0 AWG	120mm ²
250 MCM	120mm ²
300 MCM	150mm ²
350 MCM	185mm ²
400 MCM	240mm ²
500 MCM	300mm ²
600 MCM	400mm ²
750 MCM	400mm ²

GENERAL NOTES

- WALL MOUNTED ENCLOSURE.
- TYPE 3R (M) CONSTRUCTED FROM CODE GAUGE STEEL.
- TYPE 12 (C) CONSTRUCTED FROM CODE GAUGE STEEL.
- FINISH: ANSI 61 GRAY POLYESTER SEMI GLOSS ELECTROSTATIC POWDER.
- EXTERIOR DOOR HAVE PADLOCKABLE HASP & STAPLE.
- DESIGNED FOR FRONT ACCESS.
- RECOMMENDED CLEARANCES: FRONT: 36 (914.4) REAR: NONE.
- APPROXIMATE SHIPPING WEIGHT: 275 LB (125 KG).
- ENTER OF GRAVITY

SPECIFICATIONS

- SYSTEM RATING: 70 AMPS - 225 AMPS.
- SHORT CIRCUIT RATING: SOURCE 1 (NORMAL)

AMP	CIRCUIT BREAKER TYPE	240V MAX.	480V MAX.	600V MAX.
70A-150A	HL	125A	65A	25A
175A-225A	JL	125A	65A	140A

- SHORT CIRCUIT RATING: SOURCE 2 (EMERGENCY)

AMP	240V MAX.	480V MAX.	600V MAX.
70A-200A	10KA	10KA	10KA
230A	10KA	-	-

SOURCE 2 (EMERGENCY) SHORT CIRCUIT RATING MAY BE INCREASED BY UTILIZING A SPECIFIC OVERCURRENT PROTECTIVE DEVICE AS LISTED ON THE TRANSFER SWITCH.

- ALL BUS IS SILVER-PLATED COPPER, BASED ON 1000A PER SQ. IN. DENSITY.
- GROUND: AS PER NEC.
- NEUTRAL: 100% RATED.
- APPLICABLE LABEL(S): UL. 1008, SUITABLE ONLY FOR USE AS SERVICE ENTRANCE EQUIPMENT.

TRANSFER SWITCH

- D FRAME AUTOMATIC/NON-AUTOMATIC TRANSFER SWITCH.
- TRANSFER SWITCH RATING: 70 AMPS, 100 AMPS, 150 AMPS, 200 AMPS, 230 AMPS.
- A FULL RATED NEUTRAL CONNECTION FOR EACH SOURCE AND THE LOAD IS OPTIONAL. WHEN PROVIDED IT IS ONE OF THE FOLLOWING FORMATS.
- A. SOLID NEUTRAL
- B. SWITCHED NEUTRAL POLE
4. UL 1008 OR CSA C22.2 NO.178.1

TERMINATIONS 70A-175A

- SUPPLIED WITH MECHANICAL (SCREW TYPE) LUGS FOR CU/AL CABLE.
- SOURCE 1 (NORMAL) 100A-150A: (1) #30 - 30 PER PHASE PHASE & NEUTRAL
- SOURCE 2 (EMERGENCY) 100A-150A: (1) #14 - 40 PER PHASE PHASE & NEUTRAL
- SOURCE 1 (NORMAL) 175A: (1) #14 - 40 PER PHASE PHASE & NEUTRAL
- SOURCE 2 (EMERGENCY) 175A: (1) #14 - 40 PER PHASE PHASE & NEUTRAL
- LOAD: (1) #14 - 40 PER PHASE & NEUTRAL
- GROUND: (3) #14 - 10
- A. SUITABLE WIRE BENDING SPACE IS PROVIDED AS PER NEC.

TERMINATIONS 200A-225A (COPPER CABLE ONLY)

- SUPPLIED WITH MECHANICAL (SCREW TYPE) LUGS FOR CU CABLE.
- SOURCE 1 (NORMAL): (1) 30 - 250 MCM PER PHASE PHASE & NEUTRAL
- SOURCE 2 (EMERGENCY): (1) #14 - 40 PER PHASE PHASE & NEUTRAL
- LOAD: (1) #14 - 40 PER PHASE & NEUTRAL
- GROUND: (3) #14 - 10
- A. SUITABLE WIRE BENDING SPACE IS PROVIDED AS PER NEC.

CIRCUIT BREAKER: ITEM 52U

- SQUARE D, 80% RATED, TYPE HL, 150AF/70AT, 150AF/80AT, 150AF/100AT, 150AF/110AT, 150AF/125AT, 150AF/150AT
- TYPE JL, 250AF/175AT, 250AF/200AT, 250AF/225AT
- MANUALLY OPERATED, THERMAL MAGNETIC TRIP SETTINGS.
- OPTIONAL 100% RATED AVAILABLE UPON REQUEST.
3. U.L. 489

WIRING/CABLING

- FOR 100% RATED BREAKER - USE 90°C MINIMUM CU/AL WIRE FOR POWER CABLES.
- FOR 80% RATED BREAKER - USE 75°C MINIMUM CU/AL WIRE FOR POWER CABLES.
- WIRE SIZE TO BE BASED ON AMPACITY OF 75°C WIRE.
- USE 60°C MINIMUM CU WIRE FOR CONTROLS.

D	316015 MCH 8-27-08
C	SEE ECN TAN 8-27-08
B	SEE ECN LAM MCH 09/09/02
A	305785 NIK MCH 10/05/02
-	305885 RP MCH 09-11-03
	SEE ECN
PROJECT NAME: DAUS 70-225A HL/JL SERVICE ENTRANCE BREAKER ON SOURCE 1(NORM)	
OUTLINE: TYPE 3R/12 48 X 36 X 16	
BY	DATE
MANUFACTURER: ASCO	MANUFACTURER'S TOLERANCES TO BE IN ACCORDANCE WITH ASME B8.1-02
DRAWN BY: NIK	ASME REF. NO.:
DESIGNED BY: MCH	PROPERTY OF ASCO POWER TECHNOLOGIES, INC. USE RESTRICTED FOR OUR INTERNAL USE ONLY
APPROVED:	ENV. NO. DS
APPROVAL:	ENV. NO. DS
COMPUTER GENERATED DRAWING	
ASCO®	ASCO P. O. BOX 1000, FLORON PARK, NEW JERSEY 07020 U.S.A.
DRAWN BY: NIK	ENV. NO. DS
DESIGNED BY: MCH	ENV. NO. DS
APPROVED:	ENV. NO. DS
APPROVAL:	ENV. NO. DS
THIRD ANGLE PROJECTION	

8 7 6 5 4 3 2 1

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D	316513	MCH	6-27-28
C	316513	TAA	6-2-28
B	300881	LAM MCH	0900294
A	300785	MHC MCH	1000228
-	300880	RP MCH	10-11-28

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THREE PHASE WIRING FOR **ASCO** 300 SERIES TRANSFER SWITCHES (D3ATS/D3NTS) 30, 70, 104, 150, 200, & 230 AMPERES WITH GROUP G CONTROLS

GENERAL INFORMATION

THIS WIRING APPLIES TO 300 SERIES TRANSFER SWITCHES THAT UTILIZE THE "D" FRAME POWER TRANSFER SWITCH RATED 30 - 230 AMPERES.

THE GROUP G CONTROLLER PROVIDES EITHER AUTOMATIC (D3ATS) OR NON-AUTOMATIC (MANUAL) (D3NTS) 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 (18RX, 18P, 18C, 25G) 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, D-DESIGN 30-230 TRANSFER SWITCHES, PART NUMBER 381333-402.

ENGINE CONTROL CONTACTS

FEATURE 7 & FEATURE 8: ONE SET OF FORM C CONTACTS ("NC", "TR", "MC", "FEAT. 8 AND 9") THAT CHANGE POSITION ON OVERRIDE OF THE SOURCE TIME DELAY. OVERRIDE MOMENTARY NORMAL SOURCE OUTAGES TIME DELAY, AND RESET OR EXPIRATION OF THE FEATURE 7C ENGINE COOLDOWN TIME DELAY.

AN AUXILIARY CONTACT THAT IS CLOSED WHEN THE TRANSFER SWITCH IS CONNECTED TO THE EMERGENCY SOURCE, IS CONNECTED ACROSS THE MC CONTACT (FEATURE 7).

AN 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 "NWC".

ADDITIONAL OPTIONAL ENGINE STARTING CONTACTS "NWC" ARE AVAILABLE WHEN OPTIONAL ACCESSORY 18RX (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 "NWC".

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 18RX (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 18P (RELAY EXPANSION MODULE) IS INCLUDED IN THE TRANSFER SWITCH ASSEMBLY. OUTPUT CONTACT "PULF" (NORMAL SOURCE AVAILABLE) AND "TRU" (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.

NOTES

1. SWITCH SHOWN DE-ENERGIZED CONNECTED TO NORMAL SOURCE.
2. DEVICE SYMBOLS AND DESIGNATIONS ARE IN ACCORDANCE WITH NEMA PRACTICE PART 1-1974.
3. ALL WIRING IS #16 AWG, TINNED, STRANDED COPPER UNLESS OTHERWISE INDICATED.
4. * INDICATES CUSTOMER CONNECTION POINTS.
5. CONNECTION POINTS THAT HAVE BOTH CUSTOMER CONNECTIONS AND FACTORY CONNECTIONS ARE SHOWN OPEN AS CUSTOMER CONNECTION POINTS.
6. THE TRANSFER UNIT IS MOUNTED ON THE BACK INSIDE SURFACE OF THE ENCLOSURE. THE ENCLOSURE AND ANY OPTIONAL ACCESSORIES ARE MOUNTED ON THE INSIDE SURFACE OF THE DOOR.
7. AN OPERATOR'S MANUAL IS FURNISHED WITH EACH AUTOMATIC TRANSFER SWITCH. REFER TO THIS PUBLICATION PRIOR TO INSTALLATION AND OPERATION.
8. GROUND STRAP ON CONTROL PANEL IS AFFIXED TO CHASSIS (ENCLOSURE) AT LOWER LEFT CONTROL PANEL MOUNTING STUD.

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 34B) OR THE TRANSFER SWITCH HAS BEEN SET FOR NON-AUTOMATIC (MANUAL) OPERATION.

WHEN OPTIONAL ACCESSORY 18BE "SOFTWARE BUNDLE" IS PART OF THE TRANSFER SWITCH ASSEMBLY, "OP1" MAY ALTERNATELY SET FOR A "COMMON ALARM" SIGNAL. THE OUTPUT CONTACTS CHANGE POSITION WHEN THE TRANSFER SWITCH IS PROVIDED WITH A SIGNAL 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 18RX (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 4 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 ONE OF:

- AN EXTERNAL 24 VDC POWER SUPPLY WITH ACCESSORY 18RX (RELAY EXPANSION MODULE)
OR
- OPTIONAL ACCESSORY 1UP (UNINTERRUPTIBLE POWER SUPPLY MODULE)

EXTERNAL 24 VDC POWER SUPPLY "1C":

OPTIONAL ACCESSORY 1UP (UNINTERRUPTIBLE POWER SUPPLY):
THE EXTERNAL POWER SOURCE MAY BE USED TO POWER THE CONTROLLER WHEN ACCESSORY 18RX (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 "OP1". ADDITIONALLY, JUMPERS MUST BE RECONFIGURED ON ACCESSORY 18RX (RELAY EXPANSION MODULE) TO ENABLE THIS FUNCTION AS FOLLOWS:

REMOVE JUMPERS "J1" & "J2" & "J3" & "J4"
CONNECT JUMPERS "J1" & "J2" & "J3" & "J4"

THE OUTPUT CONTACTS CHANGE POSITION WHEN EITHER THE NORMAL SOURCE OR EMERGENCY SOURCE IS AVAILABLE AND RESET WHEN NEITHER SOURCE IS AVAILABLE. THE "OP2" NC 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 230B 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 18BE 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.

(3 PHASE SENSING ONLY)
- PHASE TO GND 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 ASSEMBLY IS SET FOR NON-AUTOMATIC OPERATION PROVIDED USER INITIATED ELECTRICAL OPERATION OF THE TRANSFER SWITCH FROM ANOTHER 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 PROVIDED THE FORM OF CONTROL. 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 TRANSFER TO NORMAL SOURCE. RETRANSFER TO NORMAL SOURCE IS AUTOMATIC. 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 18: 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.

CATALOG NUMBER SUFFIXES

TS CATALOG NUMBER SUFFIXES

FRAME TYPE NEUTRAL PHASE POLES AMPS VOLT CODE CONTROLLER OPTIONAL ACCESSORY ENCLOSURE CODE

D 3ATS A 3 30 70 104 150 200* 230* G X C F G H I L M N P Q R

BLANK FOR NONE

BLANK FOR OPEN TYPE

EXPLANATION OF CATALOG NUMBER CODES

NEUTRAL TYPE

VOLTAGE CODES & PHASES

ENCLOSURE CODES

CODE DESCRIPTION

CODE NOMINAL VOLTAGE

CODE TYPE

DESCRIPTION

CATALOG NUMBER

ASCO • CERTIFIED TO

S.O.

BY

DATE

FORM REV H

PROJECT NAME

WIRING

DIAGRAM

300 SERIES D3ATS/D3NTS, THREE PHASE 30-230 AMPS

"D" FRAME, GROUP G CONTROLS

BY DATE

MANUFACTURER TOLERANCES TO BE IN

ACCORDING TO ASME B8.1-1994

ASME B8.1-1994

PROPERTIES AND POWER CHARACTERISTICS ARE PROVIDED FOR OUR

MANUFACTURED EQUIPMENT. THE INFORMATION IS FOR

GENERAL INFORMATION PURPOSES ONLY.

ASME B8.1-1994

COMPUTER GENERATED DRAWING

PRINTED ON 06/10/2014

DS

ASCO

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PHONE: 908-466-1000

FAX: 908-466-1010

WEBSITE: www.asco.com

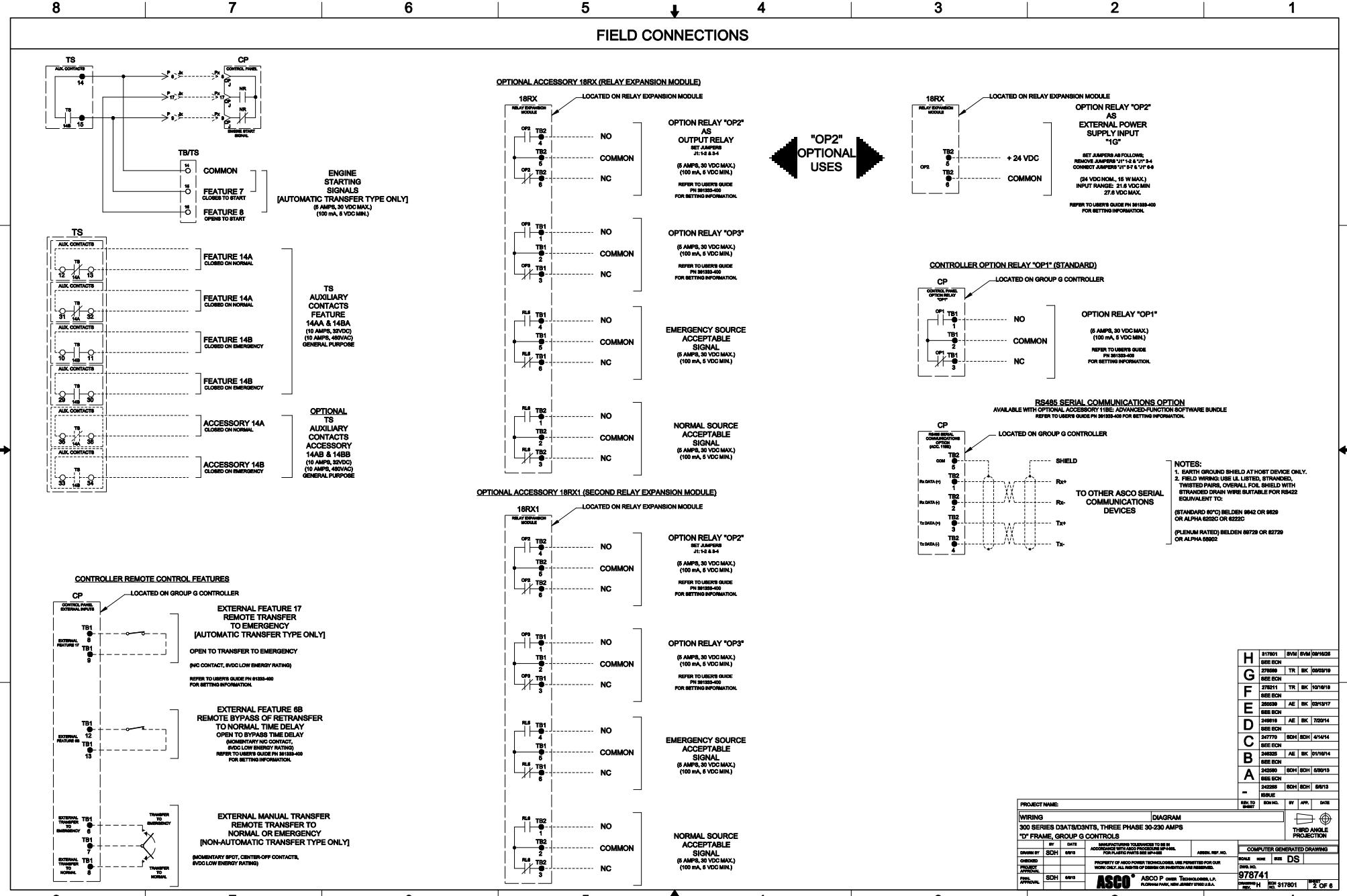
E-mail: info@asco.com

TELEFAX: 908-466-1010

TELEPHONE: 908-466-1000

TELEFAX: 908-466-1010

TELEPHONE: 908-46



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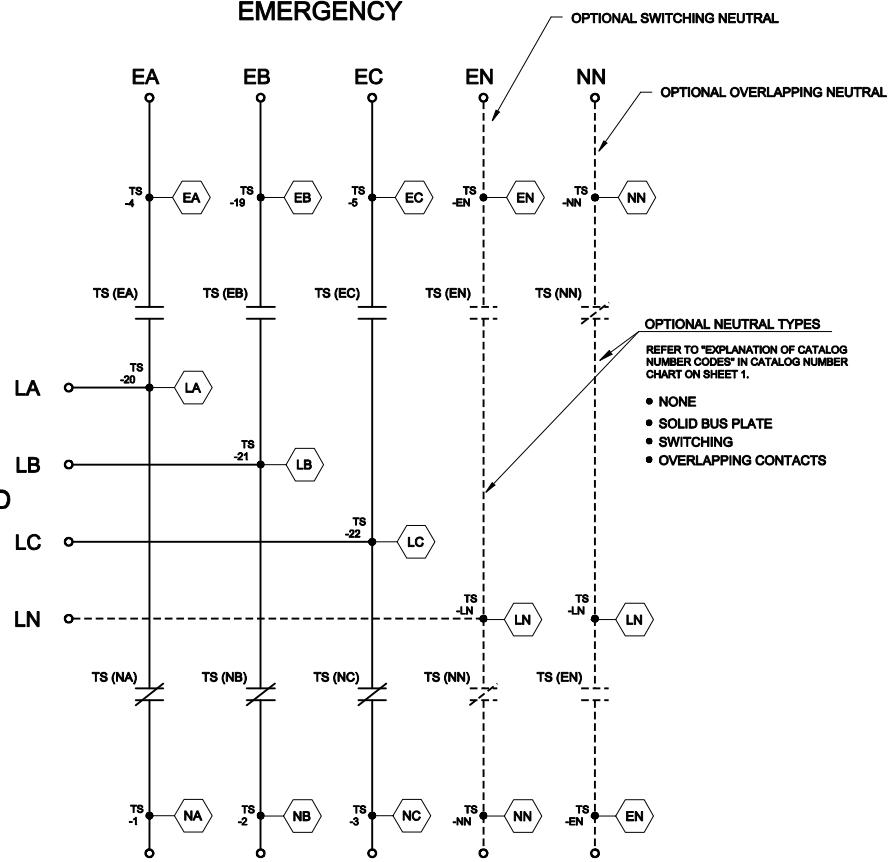
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MAIN POWER POLES

TS OPERATOR CIRCUIT

D

EMERGENCY



LOAD

B

A

NORMAL

NA

NORMAL

NC

EA

EC

TS

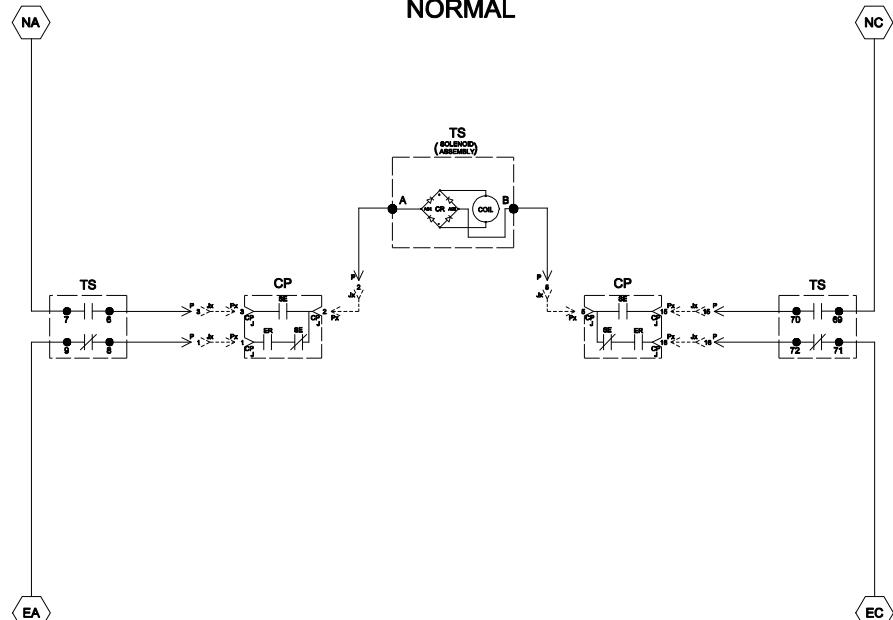
CP

TS

CP

TS

EMERGENCY



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4

3

2

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NOTE:
ATS SHOWN CLOSED ON NORMAL SOURCE.

TS CONTROL CONTACTS	
SOLENOID POSITION	
TS	CLOSED BEFORE NORMAL SOURCE
6-7	BEFORE CLOSED
6-8	OPEN
7-12	CLOSED
TESTING AND CENTER TRANSFER SWITCH TEST & ADJUSTMENT PROCEDURE SPECIFY CONTROL CUT-OFF (CONTACT OPENING) SETTING.	

PROJECT NAME:	WIRING	DIAGRAM
300 SERIES DATS/DSNTS, THREE PHASE 30-230 AMPS		
"D" FRAME, GROUP G CONTROLS		
DRAWN BY: SOH	DATE: 6/9/15	MANUFACTURER TOLERANCES TO BE IN ACCORDANCE WITH ASME Y14.5M-1994
DESIGNED BY: SOH	APPROVED BY: SOH	ASME REF. NO.:
REVIEWED BY: SOH	APPROVED BY: SOH	COMPUTER GENERATED DRAWING
APPROVED BY: SOH	APPROVED BY: SOH	DS
ASCO® ASCO POWER TECHNOLOGIES, LTD. PLUMBERS PARK, NEW JERSEY 07043 U.S.A.		
DRAWN BY: SOH DATE: 6/9/15		

ASCO® ASCO P POWER TECHNOLOGIES, LTD.
PLUMBERS PARK, NEW JERSEY 07043 U.S.A.

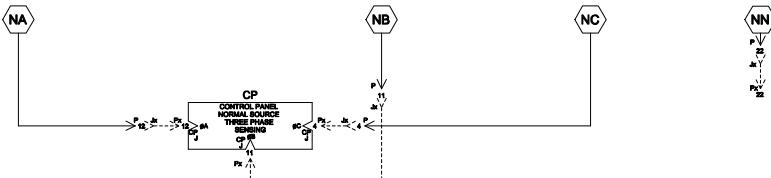
DRAWN BY: SOH DATE: 6/9/15

3 OF 6

8 7 6 5 4 3 2 1

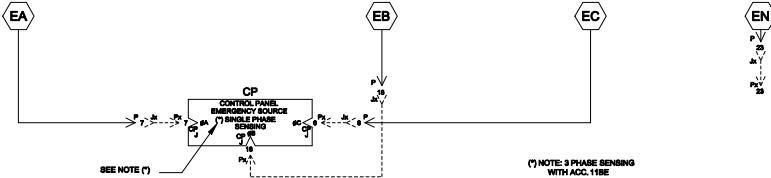
NORMAL SOURCE CIRCUITS

NORMAL



EMERGENCY SOURCE CIRCUITS

EMERGENCY

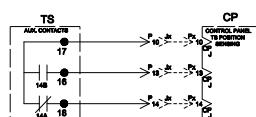


LOAD TERMINAL CIRCUITS

LOAD

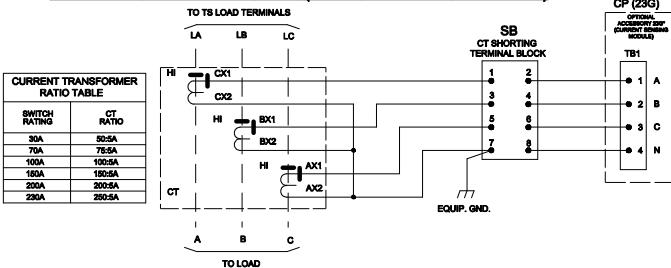


CONTROL SIGNALS & INDICATION



ADDITIONAL CIRCUITS

OPTIONAL ACCESSORY 23GB (LOAD CURRENT METERING)



8 7 6 5 4 3 2 1

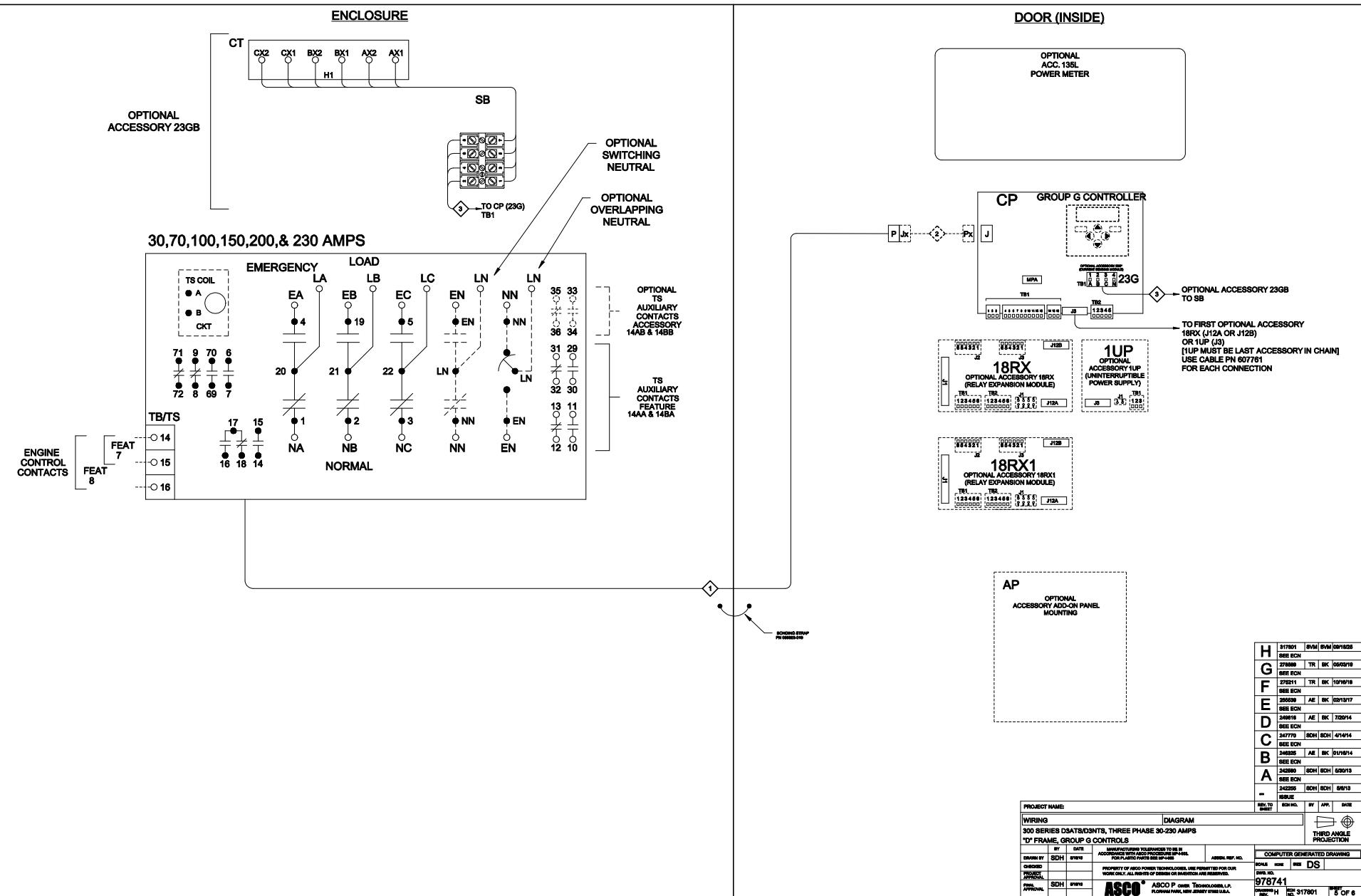
H	317801	SVM	SVM 08/16/05
G	276059	TR	TR 08/09/10
F	276211	TR	TR 10/09/10
E	260339	AE	AE 02/13/17
D	249816	AE	AE 7/29/14
C	249816	BDH	BDH 4/14/16
B	249825	AE	AE 01/09/14
A	242680	BDH	BDH 5/29/13
-	242285	BDH	BDH 5/29/13

PROJECT NAME:		
WIRING	DIAGRAM	THIRD ANGLE PROJECTION
300 SERIES DATS/DSNTS, THREE PHASE 30-230 AMPS		
"D" FRAME, GROUP G CONTROLS		
DRAWN BY: SOH	DATE: 07/09/18	MANUFACTURER'S TOLERANCES TO BE IN ACCORDANCE WITH ASME Y14.5M-1994
DESIGNED BY: SOH	APPROVED BY: SOH	ASME REF. NO.:
REVIEWED BY: SOH	RECHECKED BY: SOH	COMPUTER GENERATED DRAWING
APPROVED BY: SOH	APPROVED BY: SOH	DS
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DRAWN BY: SOH DATE: 07/09/18		
APPROVED BY: SOH DATE: 07/09/18		

8 7 6 5 4 3 2 1

8 | 7 | 6 | 5 | **4** | 3 | 2 | 1

PHYSICAL DIAGRAM



H	317801	B/EW	08/19/2020
E	276888	TR	05/03/19
E	861 ECR		
F	276211	TR	10/19/19
E	861 ECR		
G	260209	AE	02/13/17
D	246101	AE	10/20/14
D	246101	AE	10/20/14
C	247770	SOH	04/14/14
C	246925	AE	01/10/14
B	246925	SOH	02/09/13
B	246925	SOH	02/09/13
-	242265	SOH	06/16/13
REV. TO			
REVIS.	REV. NO.	BY	APR.
THIRD ANGLE PROJECTION			

COMPUTER GENERATED DRAWING

NAME: **DS**

DIV. NO. **DS**

978741

H 317801 **S** 5 OF 6

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6

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WIRE RUN LISTING

HARNESS LOCATOR			
WIRE	OPTIONAL ACCESSORY 2398 No. (CT-CP2398-1)	CLR	AW
300 CT-CX1-BB-1			16
301 CT-BX1-BB-1			
302 CT-CX2-BB-1			
300 BB-2-CP(2398)-TB1-1			
301 BB-4-CP(2398)-TB1-2			
302 BB-6-CP(2398)-TB1-3			
303 CT-AV2-CT-BB-1		GRN	
303 CT-BV2-CT-CX2		GRN	
303 CT-CX2-BB-1		GRN	
303 BB-2-CP(2398)-QHD		GRN	
303 BB-6-CP(2398)-TB1-4		GRN	

H	317801	SWM	(9/9) 09/16/25
SEE ECH			
G	278804	TR	BK 05/05/19
SEE ECH			
F	278211	TR	BK 10/19/18
SEE ECH			
E	278212	AE	BK 02/21/19
SEE ECH			
D	544915	AE	BK 7/20/14
SEE ECH			
C	247770	SDH	BDH 4/14/14
SEE ECH			
B	248263	AE	BK 01/16/14
SEE ECH			
A	242950	SDH	SDH 0/9/13
SEE ECH			
-	242046	SDH	SDH 6/9/13
SEE ECH			
REV TO	REV NO.	BY	APP.
PRINT TO	PRINT NO.	SKID	
THIRD ANGLE PROJECTION			
COMPUTER GENERATED DRAWING			
SCALE	MM	DS	
DRAW. NO.			
978741			
PRINT	H	317801	6 OF 6

8

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