

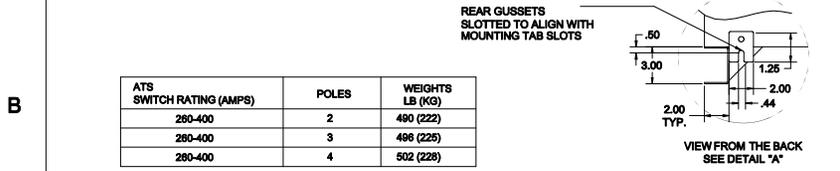
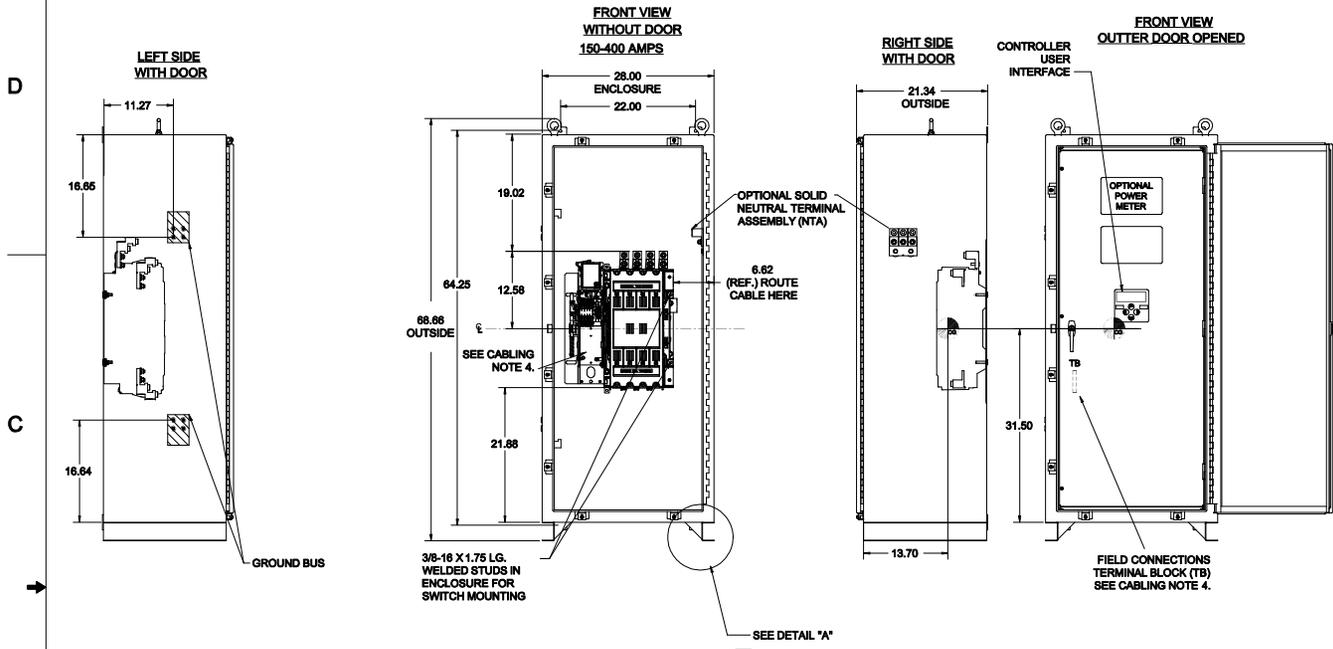
ATS Submittal

Transfer Switch Details

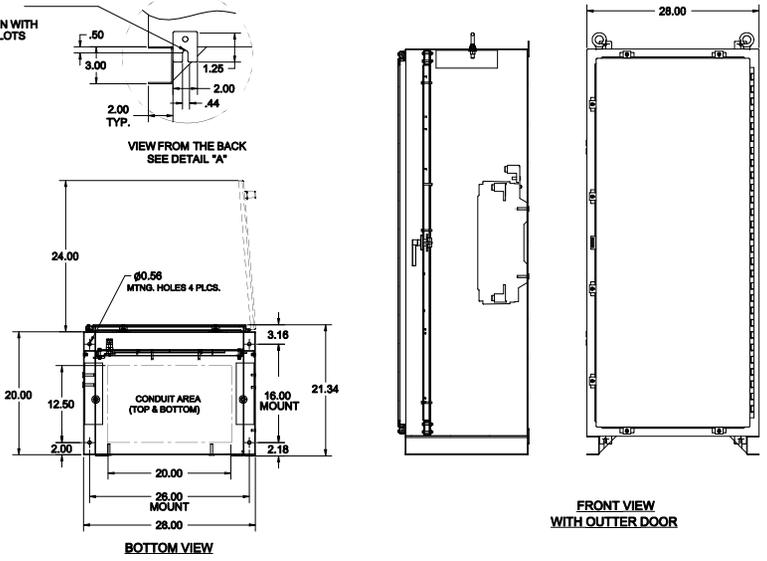
#5	ATS	AMPS: 0400	QTY: 3
Product	: Series 300	Catalog Number	: J03ATSB30400NGXM
Service Voltage / Hz	: 480V/60Hz	Optional Accessories	: 11BE,44G
Bypass Isolation	: Not Applicable	Product Description	: 300 Series, Automatic Open Transition Transfer Switch
No. of Switched Poles: 4	: 4	Neutral Configuration	: Switched [B]
Withstand Rating:	: See WCR Table Below	No. of Cables & Lug Size	: 1, #4 AWG to 600 MCM or (2) 1/0 AWG to 250 MCM
Frame = J, Switch Rating = 0400, 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

OUTLINE FOR ASCO SERIES 260-400 AMPERE "J" FRAME (3ATS,3NTS) FRONT CONNECTED TRANSFER SWITCHES TYPE 3R/4X/12 SECURE ENCLOSURE



ATS SWITCH RATING (AMPS)	POLES	WEIGHTS LB (KG)
260-400	2	490 (222)
280-400	3	496 (225)
280-400	4	502 (228)



- ### GENERAL NOTES
- TYPE 3R/4X/12 ENCLOSURE. FREE STANDING, FLOOR OR WALL MOUNTABLE. 14 GAUGE CONSTRUCTION.
 - DOOR HINGED ON RIGHT SIDE. LOCKABLE HASP ON LEFT SIDE, DOOR CLAMPS LEFT, TOP, AND BOTTOM.
 - FINISH: TYPE 3R/4X/12: ANSI #1 GRAY POLYESTER SEMI GLOSS ELECTROSTATIC POWDER.
TYPE 4X (V): EXTERIOR CONSTRUCTED OF CODE GAUGE TYPE 304 STAINLESS STEEL.
TYPE 4X (V): EXTERIOR CONSTRUCTED OF CODE GAUGE TYPE 316 STAINLESS STEEL.
OTHER ANSI COLOR CODES AVAILABLE CONSULT FACTORY UL RECOGNIZED.
 - RECOMMENDED CLEARANCES:
FRONT: 24 INCHES
 - A 20 % RATED GROUND BUS IS PROVIDED.
 - UNIT IS DESIGNED FOR COMBINATION TOP AND BOTTOM CABLE ENTRY. THE STANDARD SWITCH CONFIGURATION IS FOR TOP LUGS EMERGENCY AND LOAD AND BOTTOM LUGS NORMAL.
 - A FULL RATED NEUTRAL CONNECTION FOR EACH SOURCE AND THE LOAD IS OPTIONAL. WHEN PROVIDED IT IS IN ONE OF THE FOLLOWING FORMATS AS SPECIFIED BY THE CATALOG NO. NEUTRAL TYPE:
A. SOLID COPPER BUS NEUTRAL
B. SWITCHED NEUTRAL POLE
 - CENTER OF GRAVITY.
 - WHEN INSTALLING GROUND LUGS TO TYPE 4 ENCLOSURE, REMOVE HARDWARE FROM STUDS AND REMOVE MASKING PLATES TO EXPOSE UNPAINTED SURFACE.

- ### CABLING NOTES
- ALL SIZES SUPPLIED STANDARD WITH MECHANICAL (SCREW TYPE) LUGS. (SEE AMP SIZE BELOW)
A. LUG MATERIAL: ALUMINUM ALLOY 6061-T6 WITH ELECTRO TIN PLATED FINISH.
B. SCREW MATERIAL: ALUMINUM ALLOY 6262-T6 WITH ELECTRO TIN PLATED FINISH.
C. UL LISTED, CSA CERTIFIED.
D. LUG SCREW TIGHTENING TORQUE PER UL 489B: 19 FT.-LBS.
E. SUITABLE WIRE BENDING SPACE IS PROVIDED. (SEE AMP SIZE BELOW)
 - CONSULT FACTORY FOR OTHER TERMINATION REQUIREMENTS.
 - GROUND LUGS ARE PROVIDED STANDARD AS FOLLOWS. (SEE AMP SIZE BELOW)
 - CUSTOMER TERMINAL BLOCKS:
THE TB WILL BE MOUNTED ON THE TRANSFER SWITCH FRAME AS INDICATED

- ### NOTES 260-400 AMP SWITCHES
- SUPPLIED WITH STANDARD MECHANICAL (SCREW TYPE) LUGS ON THE NORMAL, EMERGENCY & LOAD BUS STAYS. ONE (1) LUG PER PHASE AND NEUTRAL EACH SUITABLE FOR CONNECTION OF TWO (2) 1/0 -250MCM CU/AL CABLES OR ONE (1) #4 -800MCM CU/AL CABLE.
A. SUITABLE WIRE BENDING SPACE IS PROVIDED FOR UP TO ONE (1) 800MCM CABLE PER TERMINAL PER NEC.
 - GROUND LUGS ARE PROVIDED STANDARD AS FOLLOWS:
8X6 (8) 1/0 -250MCM CU/AL CABLES OR THREE (3) #4 -800MCM CU/AL CABLE CONNECTIONS.

PROJECT NAME:		260322 (SAC) BK 0703/17	
COMPOSITE:		OUTLINE	
300 SERIES TS "J"		THIRD ANGLE PROJECTION	
260-400 AMP 3R/4X/12 SECURED		COMPUTER GENERATED DRAWING	
DESIGNED BY:	DATE:	MANUFACTURING TOLERANCES TO BE ACCORDANCE WITH ASME Y14.5M-2018.	ASME REF. NO.:
CHECKED BY:	DATE:	PROPERTY OF ASCO POWER TECHNOLOGIES, INC. ALL RIGHTS RESERVED. NO PARTS TO BE REPRODUCED WITHOUT WRITTEN PERMISSION.	SCALE:
APPROVED BY:	DATE:	ASCOS P OVER TECHNOLOGIES, L.P.	1001393-022
DATE:		REV. NO. 1	
DATE:		REV. NO. 2	
DATE:		REV. NO. 3	
DATE:		REV. NO. 4	
DATE:		REV. NO. 5	
DATE:		REV. NO. 6	
DATE:		REV. NO. 7	
DATE:		REV. NO. 8	

THREE PHASE WIRING FOR ASCO 300 SERIES TRANSFER SWITCHES (J3ATS/J3NTS) 260 & 400 AMPERES WITH GROUP G CONTROLS

GENERAL INFORMATION

D

THIS WIRING APPLIES TO 300 SERIES TRANSFER SWITCHES THAT UTILIZE THE "J" FRAME POWER TRANSFER SWITCH RATED 260 & 400 AMPERES.

THE GROUP G CONTROLLER PROVIDES EITHER AUTOMATIC (ASATS) OR NON-AUTOMATIC (MANUAL) (ASNTS) 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 (11P, 11RX, 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 SNTS, SNTS, SNTS & SNTS, J-DESIGN 150-800 A TRANSFER SWITCHES, PART NUMBER 381333-404.

C

ENGINE CONTROL CONTACTS

FEATURE 7 & FEATURE 8:
ONE SET OF FORM C CONTACTS "NR" (FEAT. 7 NC, FEAT. 8 NO) 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 NC 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 "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" WILL PROVIDE LOAD DISCONNECT FUNCTIONS 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.

B

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 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, OPTIONAL 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.

A

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 "RLY" (EMERGENCY SOURCE AVAILABLE) AND "RLN" (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 34B) 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 BE 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 11P (UNINTERRUPTIBLE POWER SUPPLY MODULE)

EXTERNAL 24 VDC POWER SUPPLY 11P:
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 "1C". 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" 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.

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.

(3 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 ASSEMBLY 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 8B: 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.

NOTES

- SWITCH SHOWN DE-ENERGIZED CONNECTED TO NORMAL SOURCE.
- DEVICE SYMBOLS AND DESIGNATIONS ARE IN ACCORDANCE WITH NEMA PUB. ICS 1, PART 1-101A.
- ALL WIRING IS #16 AWG, TINNED, STRANDED COPPER UNLESS OTHERWISE INDICATED.
- INDICATES CUSTOMER CONNECTION POINTS.
- INDICATES FACTORY CONNECTION POINTS.
- CONNECTION POINTS THAT HAVE BOTH CUSTOMER CONNECTIONS AND FACTORY CONNECTIONS ARE SHOWN OPEN AS CUSTOMER CONNECTION POINTS.
- 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.
- AN OPERATOR'S MANUAL IS FURNISHED WITH EACH AUTOMATIC TRANSFER SWITCH. REFER TO THIS PUBLICATION PRIOR TO INSTALLATION AND OPERATION OF THE SWITCH.
- GROUND STRAP ON CONTROL PANEL IS AFFIXED TO CHASSIS (ENCLOSURE) AT LOWER LEFT CONTROL PANEL MOUNTING STUD.

CATALOG NUMBER SUFFIXES										EXPLANATION OF CATALOG NUMBER CODES										
TS	CATALOG	NEUTRAL	PHASE	AMPS	VOLT	CONTROLLER	OPTIONAL	ENCLOSURE												
FRAME	TYPE	TYPE	POLES	CODE	CODE	CODE	ACCESSORY	CODE												
									NEUTRAL TYPE		VOLTAGE CODES		ENCLOSURE CODES							
									CODE	DESCRIPTION	CODE	NOMINAL VOLTAGE	CODE	TYPE	DESCRIPTION					
									A	SOLID SWITCHING	BLANK		OPEN TYPE (NO ENCLOSURE) GENERAL PURPOSE, INDOOR							
									B	SOLID SWITCHING	C	208	F	3R	OUTDOOR, RAINPROOF, SLEET & ICE RESISTANT INDOOR/OUTDOOR, WATERTIGHT & DUSTTIGHT					
											D	220	G	4	INDOOR, INDUSTRIAL ENVIRONMENTS, OILTIGHT & DUSTTIGHT					
											E	230	H	4X	(SECURE ENCLOSURES)					
											F	240	I	4X	OUTDOOR, RAINPROOF, SLEET & ICE RESISTANT INDOOR/OUTDOOR, WATERTIGHT & DUSTTIGHT					
											G	277	L	12	INDOOR, INDUSTRIAL ENVIRONMENTS, OILTIGHT & DUSTTIGHT					
											H	380								
											J	400								
											K	415	M	3R	OUTDOOR, RAINPROOF, SLEET & ICE RESISTANT INDOOR/OUTDOOR, WATERTIGHT & DUSTTIGHT					
											L	440	N	4	INDOOR, INDUSTRIAL ENVIRONMENTS, OILTIGHT & DUSTTIGHT					
											M	460	P	4X	TYPE 4 PLUS CORROSION RESISTANCE (STAINLESS STEEL)					
											N	480	Q	12	INDOOR, INDUSTRIAL ENVIRONMENTS, OILTIGHT & DUSTTIGHT					
											P	500*								
											Q	575*								
											R	600*								

CATALOG NUMBER _____
 ASCO S.O. _____
 CERTIFIED TO _____
 BY _____
 DATE _____

B 27855 TR BK 090118
 SEE ECH

A 27821 TR BK 101818
 SEE ECH

28005 NEMA JPS 080717
 ISSUE

REL TO: _____
 REV. BY: _____
 DATE: _____

FORM REV B

PROJECT NAME: _____

WIRING _____ DIAGRAM _____

300 SERIES J3ATS/J3NTS, THREE PHASE 260 & 400 AMPERS
 "J" FRAME, GROUP G CONTROLS

THIRD ANGLE PROJECTION

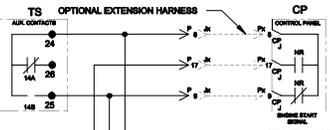
MANUFACTURING TO PROCEED TO BE IN ACCORDANCE WITH ASCO PRODUCTION POLICY FOR CUSTOMER ORDERING.

DATE: 11/18/2013
 SCALE: _____
 SHEET: _____
 OF: _____

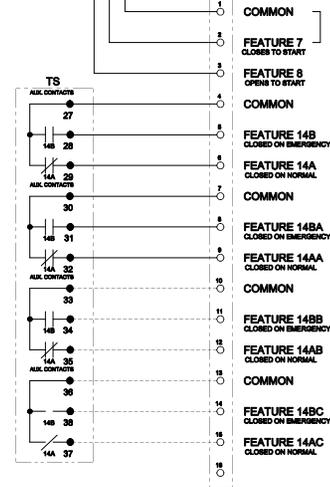
ASCOTEC INC. 278555
 ASCO P. OVER TECHNOLOGIES, L.P.
 FORTWORTH, TEXAS 76104

1184913
 278555

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OPTIONAL EXTENSION HARNESS



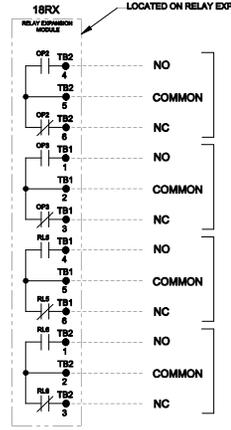
LOCATED ON FRONT OF TRANSFER SWITCH FRAME

ENGINE STARTING SIGNALS
(5 AMPS, 30 VDC MAX.)
(100 mA, 5 VDC MIN.)

STANDARD TS AUXILIARY CONTACTS
(10 AMPS, 250VDC)
(10 AMPS, 250VAC)
GENERAL PURPOSE

OPTIONAL TS AUXILIARY CONTACTS
(10 AMPS, 250VDC)
(10 AMPS, 250VAC)
GENERAL PURPOSE

OPTIONAL ACCESSORY 1BRX (RELAY EXPANSION MODULE)



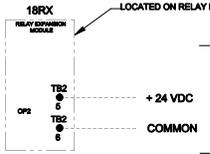
LOCATED ON RELAY EXPANSION MODULE

OPTION RELAY "OP2" AS OUTPUT RELAY
SET JAMPS
J1: 1-2 & 3-4
(5 AMPS, 30 VDC MAX.)
(100 mA, 5 VDC MIN.)
REFER TO USER'S GUIDE
PH 881383-403
FOR SETTING INFORMATION.

OPTION RELAY "OP3"
(5 AMPS, 30 VDC MAX.)
(100 mA, 5 VDC MIN.)
REFER TO USER'S GUIDE
PH 881383-403
FOR SETTING INFORMATION.

EMERGENCY SOURCE ACCEPTABLE SIGNAL
(5 AMPS, 30 VDC MAX.)
(100 mA, 5 VDC MIN.)

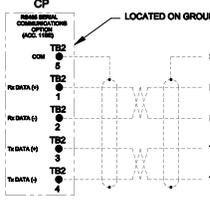
NORMAL SOURCE ACCEPTABLE SIGNAL
(5 AMPS, 30 VDC MAX.)
(100 mA, 5 VDC MIN.)



LOCATED ON RELAY EXPANSION MODULE

OPTION RELAY "OP2" AS EXTERNAL POWER SUPPLY INPUT
"IG"
SET JAMPS AS FOLLOWS:
REMOVE JAMPS "J1" & 2 "J2" & 3-4
CONNECT JAMPS "J1" & 1 & 2 "J1-2"
(24 VDC MAX., 15 W MAX.)
INPUT RANGE: 21 & VDC MIN
27 & VDC MAX.
REFER TO USER'S GUIDE PH 881383-403
FOR SETTING INFORMATION.

RS485 SERIAL COMMUNICATIONS OPTION
AVAILABLE WITH OPTIONAL ACCESSORY 11BRX ADVANCED-FUNCTION SOFTWARE MODULE
REFER TO USER'S GUIDE PH 881383-403 FOR SETTING INFORMATION.

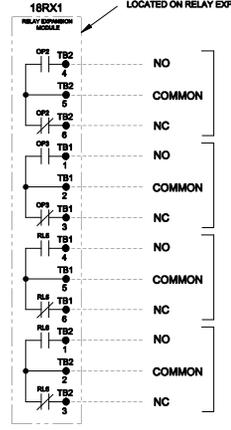


LOCATED ON GROUP G CONTROLLER

TO OTHER ASCO SERIAL COMMUNICATIONS DEVICES

- NOTES:**
- EARTH GROUND SHIELD AT HOST DEVICE ONLY.
 - FIELD WIRING: USE UL LISTED, STRANDED, TWISTED PAIRS, OVERALL FOIL SHIELD WITH STRANDED DRAIN WIRE SUITABLE FOR RS422 EQUIVALENT TO:
(STANDARD 90°C) BELDEN 9842 OR 9829 OR ALPHA 6222C OR 6222C
(PLENUM RATED) BELDEN 98729 OR 82729 OR ALPHA 9892

OPTIONAL ACCESSORY 1BRX1 (SECOND RELAY EXPANSION MODULE)



LOCATED ON RELAY EXPANSION MODULE

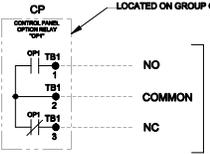
OPTION RELAY "OP2"
SET JAMPS
J1: 1-2 & 3-4
(5 AMPS, 30 VDC MAX.)
(100 mA, 5 VDC MIN.)
REFER TO USER'S GUIDE
PH 881383-403
FOR SETTING INFORMATION.

OPTION RELAY "OP3"
(5 AMPS, 30 VDC MAX.)
(100 mA, 5 VDC MIN.)
REFER TO USER'S GUIDE
PH 881383-403
FOR SETTING INFORMATION.

EMERGENCY SOURCE ACCEPTABLE SIGNAL
(5 AMPS, 30 VDC MAX.)
(100 mA, 5 VDC MIN.)

NORMAL SOURCE ACCEPTABLE SIGNAL
(5 AMPS, 30 VDC MAX.)
(100 mA, 5 VDC MIN.)

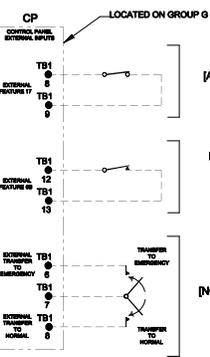
CONTROLLER OPTION RELAY "OP1" (STANDARD)



LOCATED ON GROUP G CONTROLLER

OPTION RELAY "OP1"
(5 AMPS, 30 VDC MAX.)
(100 mA, 5 VDC MIN.)
REFER TO USER'S GUIDE
PH 881383-403
FOR SETTING INFORMATION.

CONTROLLER REMOTE CONTROL FEATURES



LOCATED ON GROUP G CONTROLLER

EXTERNAL FEATURE 17 REMOTE TRANSFER TO EMERGENCY (AUTOMATIC TRANSFER TYPE ONLY)
OPEN TO TRANSFER TO EMERGENCY (N/C CONTACT, 500VDC LOW ENERGY RATING)
REFER TO USER'S GUIDE PH 881383-403 FOR SETTING INFORMATION.

EXTERNAL FEATURE 6B REMOTE BYPASS OF RETRANSFER TO NORMAL TIME DELAY
OPEN TO BYPASS TIME DELAY (N/C CONTACT, 500VDC LOW ENERGY RATING)
REFER TO USER'S GUIDE PH 881383-403 FOR SETTING INFORMATION.

EXTERNAL MANUAL TRANSFER REMOTE TRANSFER TO NORMAL OR EMERGENCY (NON-AUTOMATIC TRANSFER TYPE ONLY)
BINARY CONTACT, 500VDC LOW ENERGY RATING

B	27855	TR	IK	05/01/18
	SEE ECH			
A	278211	TR	IK	10/15/18
	SEE ECH			
	28055	UKA	JPN	03/27/17
	ISSUE			

PROJECT NAME:		DIAGRAM	
300 SERIES JSATS/JINTS, THREE PHASE 200 & 400 AMPS			
"J" FRAME, GROUP G CONTROLS			
BY	DATE	MANUFACTURING TO BE USED TO BE ACCORDANCE WITH ASCO PROCEDURES FOR PLASTIC PARTS SEE 881383-403	ASCO REF. NO.
DESIGNED BY	DATE	PROPERTY OF ASCO POWER TECHNOLOGIES. USE PERMITTED FOR OUR WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.	COMPUTER GENERATED DRAWING
APPROVED	DATE	SCALE	SIZE DS
DATE	DATE	1184913	
		REV. B	NO. 278555

8 7 6 5 4 3 2 1

MAIN POWER POLES

TS OPERATOR CIRCUIT

D
C
B
A

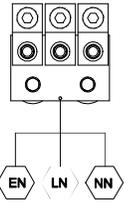
D
C
B
A

EMERGENCY

NORMAL

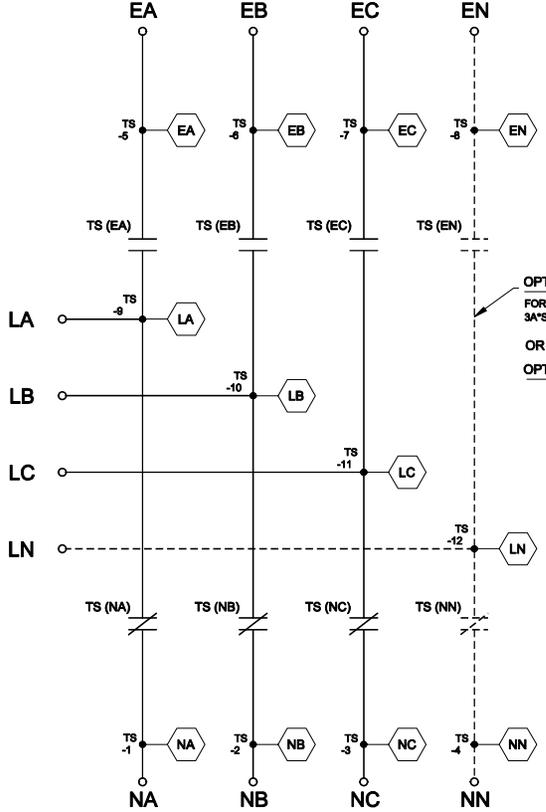
LOAD

OPTIONAL SOLID NEUTRAL
FOR 3ATS AND 3NTS



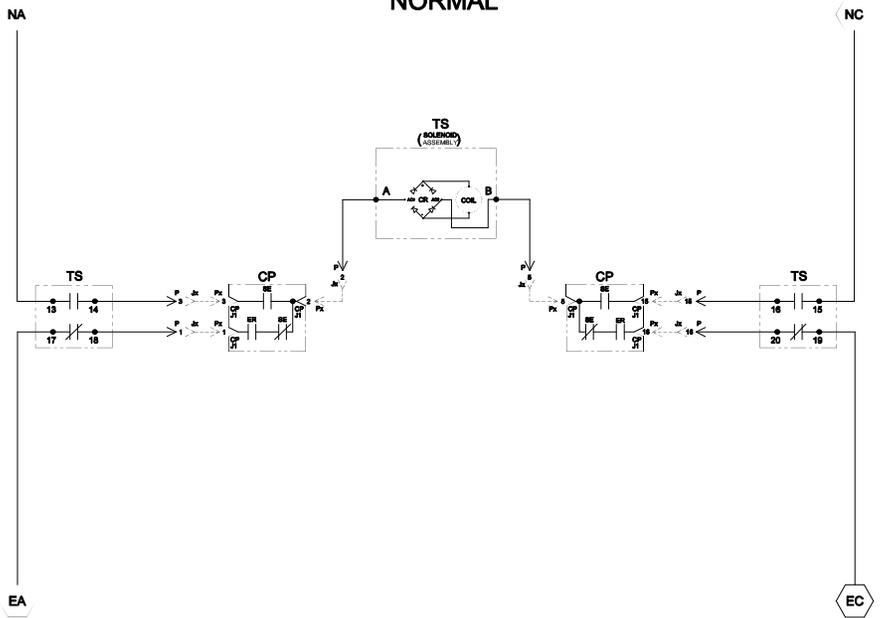
(NTA)

OPTIONAL SOLID NEUTRAL
FOR SERVICE ENTRANCE
3A'S AND 3N'S
OR
OPTIONAL SWITCHING NEUTRAL



NORMAL

NOTE:
ATS SHOWN CLOSED ON NORMAL SOURCE.



EMERGENCY

TS	SOLENOID POSITION	
	CLOSED BEFORE	BEFORE CLOSING
13-14	NORMAL	EMERG
15-16	TOCP	EMERG
17-18	TOCP	EMERG
19-20	TOCP	EMERG

TOCP (TOP DEAD CENTER)
TRIPPER SWITCH TEST & ADJUSTMENT PROCEDURE
SPECIFIED CONTROL CUT-OFF (CONTACT OPENING)
SETTING.

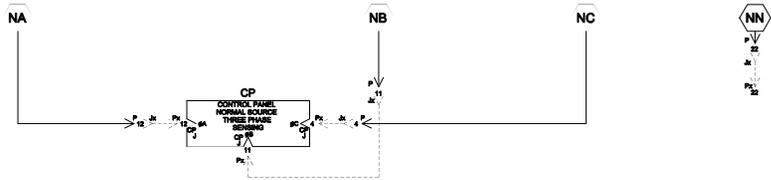
PROJECT NAME:		DIAGRAM	
300 SERIES 3ATS/3NTS, THREE PHASE 200 & 400 AMPS		THIRD ANGLE PROJECTION	
BY	DATE	SCALE	SIZE
CHKD	DATE	ASCO P	DS
APP'D	DATE	1184913	
DATE	DATE	REV	REV
JPS	DEPT	REV	REV

ASCO P OVER TECHNOLOGIES, L.P.
FLORHAM PARK, NEW JERSEY 07938 U.S.A.

8 7 6 5 4 3 2 1

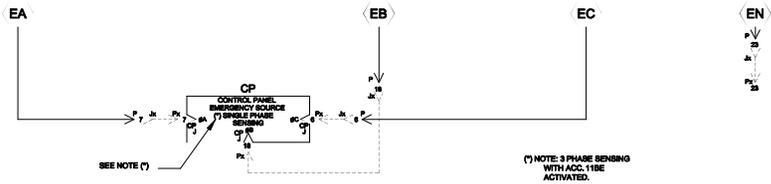
NORMAL SOURCE CIRCUITS

NORMAL



EMERGENCY SOURCE CIRCUITS

EMERGENCY

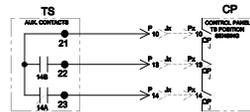


LOAD TERMINAL CIRCUITS

LOAD



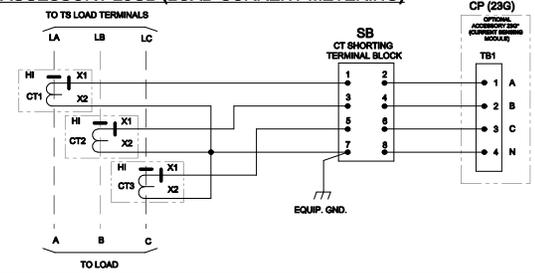
CONTROL SIGNALS & INDICATION



ADDITIONAL CIRCUITS

OPTIONAL ACCESSORY 23GB (LOAD CURRENT METERING)

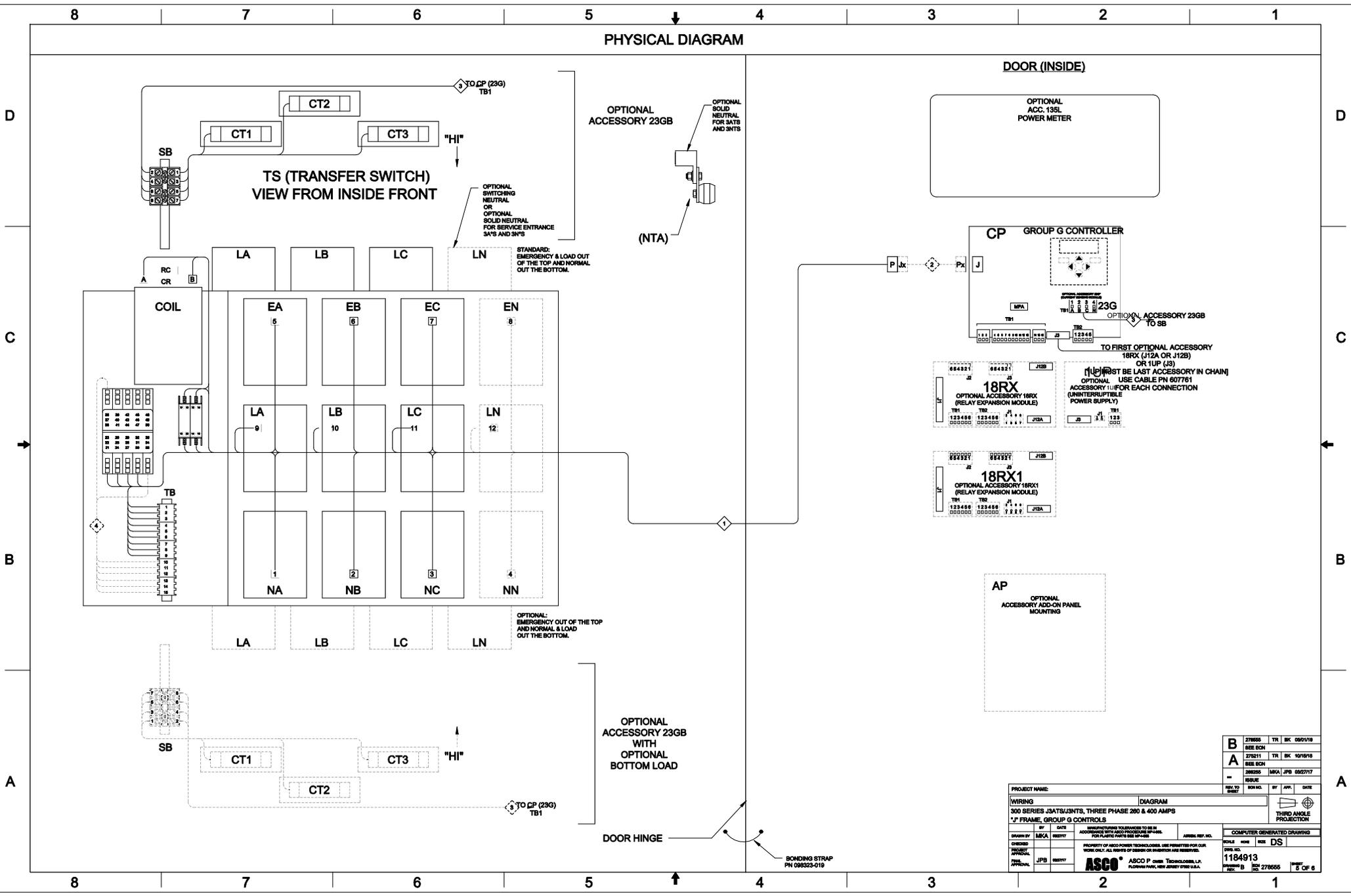
CURRENT TRANSFORMER RATIO TABLE	
SWITCH RATING	CT RATIO
250A	300/5A
400A	400/5A



B	278205	TR	BC	05/01/18
	SEE ECH			
A	278211	TR	BC	10/15/18
	SEE ECH			
	278205	TR	BC	02/27/17
	ISSUE			

PROJECT NAME:		DIAGRAM	
300 SERIES JSATS/JNITS, THREE PHASE 200 & 400 AMPS			
"J" FRAME, GROUP G CONTROLS			
BY	DATE	MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURES. FOR PLASTIC PARTS SEE SPECIFICATIONS.	ASSEMB. REF. NO.
DESIGNED BY	DATE	PROPERTY OF ASCO POWER TECHNOLOGIES, LLC. THIS DRAWING IS LOANED TO YOU FOR YOUR USE ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.	COMPUTER GENERATED DRAWING
CHECKED BY	DATE		SCALE
APPROVAL	DATE		SIZE
DATE	DATE		DS
			DWG. NO.
			1184913
			REV. B
			ISS. DATE: 278555
			SHEET 4 OF 6

PHYSICAL DIAGRAM



B	278056	TR	06/01/18
	SEE ECH		
A	278211	TR	10/15/18
	SEE ECH		
	280005	MPA	JPB 09/27/17
	ISSUE		

PROJECT NAME:		DIAGRAM	
300 SERIES J3ATS/J3NTS, THREE PHASE 200 & 400 AMP			
"J" FRAME, GROUP G CONTROLS			
DESIGNED BY	DATE	MANUFACTURING TO BE USED IN ACCORDANCE WITH ASCO PROCEDURES MANUAL FOR PLASTIC PARTS SEE 9P-0300	ASCO REF. NO.
CHECKED BY	DATE		
APPROVED BY	DATE		
DATE APPROVAL	JPB	09/27/17	
SCALE		DS	
DRAWING NO.		1184913	
ISSUE NO.		B	
REV.		278555	
PAGE		5 OF 6	

ASCO ASCO POWER TECHNOLOGIES, L.P.
 14000 HWY. 100, SUITE 1000, DALLAS, TX 75244

