	TRANSFER SWITCH DETAILS									
ATS NAME	ATS NAME QTY POLES BYPASS (VOLTS)				CATALOG NUMBER	ACCESSORIES	OUTLINE DRAWING	WIRING DIAGRAM	BOM NUMBER	
	5	0260 / 4 (208V)	N/A	OPEN	J03ATSB30260CGXF	11BE,72EE	1001393-018	1184913	1274116	
	5	0260 / 4 (480V)	N/A	OPEN	J03ATSB30260NGXF	11BE,72EE	1001393-018	1184913	1320436	
	5	0400 / 4 (480V)	N/A	OPEN	J03ATSB30400NGXF	11BE,72EE	1001393-018	1184913	1190524	
	2	0400 / 4 (208V)	N/A	OPEN	J03ATSB30400CGXF	11BE,72EE	1001393-018	1184913	TO BE ENGINEERED	
	5	0600 / 4 (480V)	N/A	OPEN	J03ATSB30600NGXF	11BE,72EE	1001393-002	978745	1156677	
	2	0600 / 4 (208V)	N/A	OPEN	J03ATSB30600CGXF	11BE,72EE	1001393-002	978745	1200535	
	7	0800 / 4 (480V)	N/A	OPEN	H03ATSB30800NGXF	11BE,72EE	1001394-002	1001657	1372376	
	5	1200 / 4 (480V)	N/A	OPEN	H03ATSB31200NGXM	11BE,72EE	713201-025	1001657	TO BE ENGINEERED	

	Transfer Switch Withstand and Closing Ratings																	
					300, 4000 & 7000 Series													
ATS FRAME		SWITCH RATING AMPS		CURRENT LIMITING FUSES		SPECIFIC BREAKER		TIME BASED				Shoi 480V		Ratings ³ (sec) 600V Max.				
NAME	SIZE	Transfer Switches	Bypass Switches	480V Max.	600V Max.	MAX SIZE, A	CLASS	240V Max.	480V Max.	600V Max.	Time(Sec)	240V Max.	480V Max.	600V Max.	.13 .2	.3 .5	.1 .13	.3 .5
_	J	150, 200, 230,	150, 200, 230,	200kA	200kA	600	J	200kA	200kA	100kA	0.05	65kA	42kA⁵	35kA	7.5kA	-		
	5	260	260	200104	200104	800	L	200104	200104	10010-1	0.00	8	4264	55	7.004			
_	J	600	600	200kA	200kA	800	L	200kA	200kA	100kA	0.05	65kA	42kA⁵	35kA	7.5kA ⁹	-		
	5	000	88	200104	200174	600	J	200174	200104	10010-1	0.00	00	4210-1	55	1.504			
-	н	800 - 1200	800 - 1200	200kA	200kA	1600 ⁴	L	65kA	150kA	65kA	0.05	50kA	50kA	50kA	36kA	-	36kA	· -
_	J	400	400	200kA	200kA	600	J	200kA	200kA	100kA	0.05	65kA	42kA⁵	35kA	7.5kA	_		
	5	-100	-50	200104	200104	800	L	200104	200104	100104	0.00	5017	42.04		1.004			

NOTES:

1) All WCR values indicated are tested in accordance with the requirements of UL 1008, 7th Edition.

2) Application requirements may permit higher WCR for certain switch sizes.

3) Short Time ratings are provided for applications involving circuit breakers that utilize trip delay settings for system selective coordination

4) Max fuse rating is 1200A on front connected H frame switches

5) Switches utilizing overlapping neutral (code "C") have 35kA, 0.050 Sec time-based rating at 480V Max

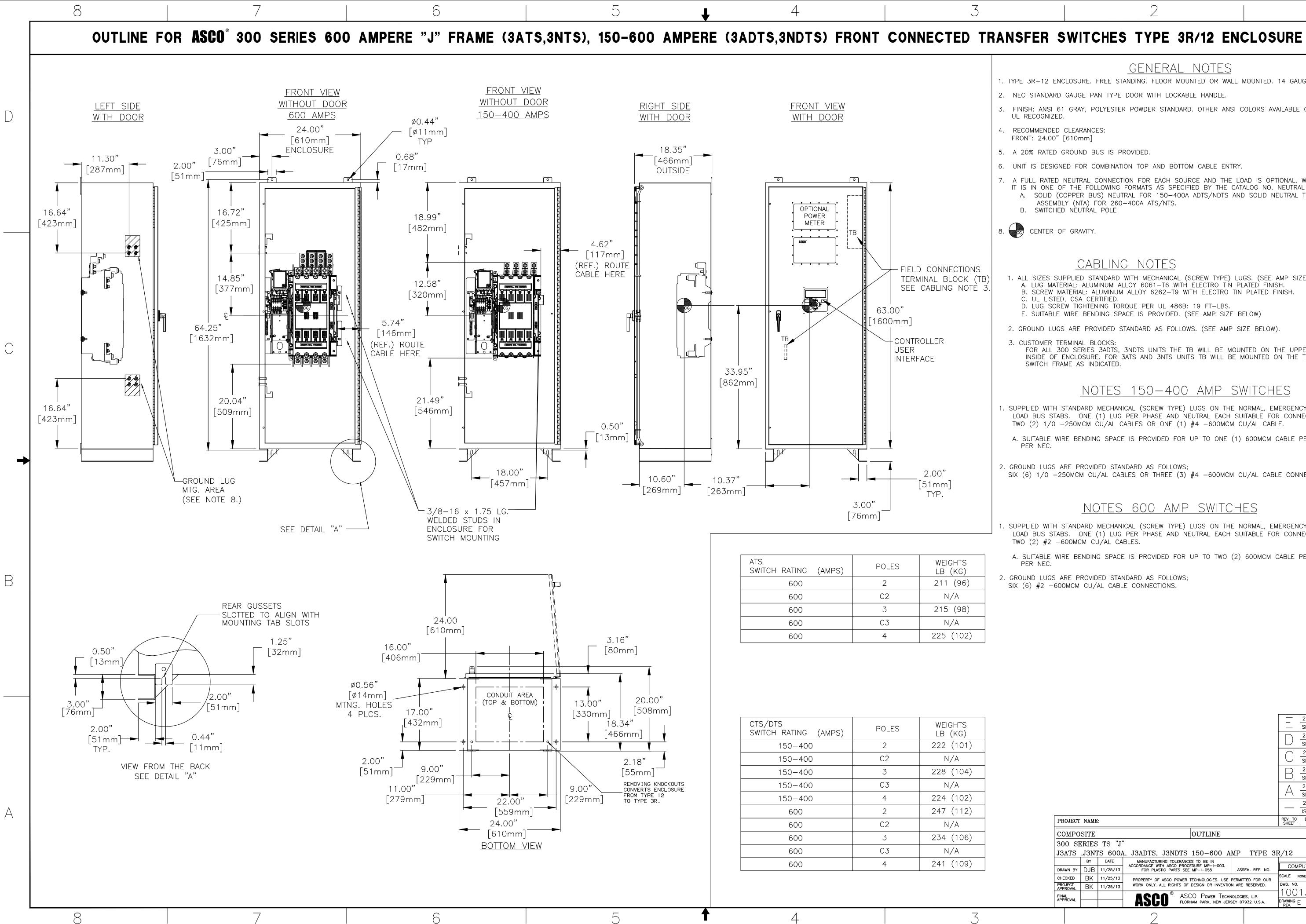
9) Short Time Rating applies to 600A Bypass switch only, the 600A Transfer Switch does not have a Short Time Rating



#6	ATS	5	A	MPS: 0600		QTY: 2
Product	:	Series 300		Catalog Number	:	J03ATSB30600CGXF
Service Vol	tage / Hz :	208V/60Hz		Optional Accessories	:	11BE,72EE
Bypass Isol	ation :	Not Applicable	9	Product Description	:	300 Series, Automatic Open Transition Transfer Switch
No. of Swite	ched Poles: 4 :	4		Neutral Configuration	:	Switched [B]
Withstand F	Rating: :	See WCR Tal	ole Below	No. of Cables & Lug Size	:	See applicable outline drawing
Frame = J,	Switch Rating = 06	00, Series = 300)			
Enclosure	:	3R(F)-UL Typ (See Disclaim	e 3R Enclosure ner 3)	Service	:	Three Phase, 4-wire
Extended W	/arranty :	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	72EE	Quad - Ethernet Module with AES - 128 bit with encryption and (4) RJ - 45s, includes 11BE feature bundle							





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GENERAL NOTES

1. TYPE 3R-12 ENCLOSURE. FREE STANDING. FLOOR MOUNTED OR WALL MOUNTED. 14 GAUGE CONSTRUCTION. 2. NEC STANDARD GAUGE PAN TYPE DOOR WITH LOCKABLE HANDLE

3. FINISH: ANSI 61 GRAY, POLYESTER POWDER STANDARD. OTHER ANSI COLORS AVAILABLE CONSULT FACTORY

4. RECOMMENDED CLEARANCES:

5. A 20% RATED GROUND BUS IS PROVIDED.

6. UNIT IS DESIGNED FOR COMBINATION TOP AND BOTTOM CABLE ENTRY.

7. 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 FOR 150-400A ADTS/NDTS AND SOLID NEUTRAL TERMINAL ASSEMBLY (NTA) FOR 260-400A ATS/NTS. B. SWITCHED NEUTRAL POLE

CENTER OF GRAVITY.

CABLING NOTES

1. 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-T9 WITH ELECTRO TIN PLATED FINISH. C. UL LISTED, CSA CERTIFIED.

D. LUG SCREW TIGHTENING TORQUE PER UL 486B: 19 FT-LBS. E. SUITABLE WIRE BENDING SPACE IS PROVIDED. (SEE AMP SIZE BELOW)

2. GROUND LUGS ARE PROVIDED STANDARD AS FOLLOWS. (SEE AMP SIZE BELOW).

FOR ALL 300 SERIES 3ADTS, 3NDTS UNITS THE TB WILL BE MOUNTED ON THE UPPER RIGHT INSIDE OF ENCLOSURE. FOR 3ATS AND 3NTS UNITS TB WILL BE MOUNTED ON THE TRANSFER SWITCH FRAME AS INDICATED.

NOTES 150-400 AMP SWITCHES

. SUPPLIED WITH STANDARD MECHANICAL (SCREW TYPE) LUGS ON THE NORMAL, EMERGENCY & LOAD BUS STABS. ONE (1) LUG PER PHASE AND NEUTRAL EACH SUITABLE FOR CONNECTION OF TWO (2) 1/0 - 250 MCM CU/AL CABLES OR ONE (1) #4 - 600 MCM CU/AL CABLE.

A. SUITABLE WIRE BENDING SPACE IS PROVIDED FOR UP TO ONE (1) 600MCM CABLE PER TERMINAL

2. GROUND LUGS ARE PROVIDED STANDARD AS FOLLOWS; SIX (6) 1/0 -250MCM CU/AL CABLES OR THREE (3) #4 -600MCM CU/AL CABLE CONNECTIONS.

NOTES 600 AMP SWITCHES

1. SUPPLIED WITH STANDARD MECHANICAL (SCREW TYPE) LUGS ON THE NORMAL, EMERGENCY & LOAD BUS STABS. ONE (1) LUG PER PHASE AND NEUTRAL EACH SUITABLE FOR CONNECTION OF TWO (2) #2 - 600 MCM CU/AL CABLES.

A. SUITABLE WIRE BENDING SPACE IS PROVIDED FOR UP TO TWO (2) 600MCM CABLE PER TERMINAL

В

А

294689 | TR | MM | 3/24/22

289439 | TR | NS |05/07/21

SEE ECN

2. GROUND LUGS ARE PROVIDED STANDARD AS FOLLOWS; SIX (6) #2 - 600 MCM CU/AL CABLE CONNECTIONS.

							\cup	SEE ECN			
							$\overline{\bigcirc}$	266871	TR	BK	5/2/17S
							\cup	SEE ECN			
							U	263629	BK	TR	10/12/16
							\square	SEE ECN			
							\wedge	249736	TR	WΚ	7/25/14
							A	SEE ECN			
								245551	BK	BK	11/25/13
								ISSUED			
PROJECT	' NAME	:					REV. TO SHEET	ECN NO.	BY	APP.	DATE
СОМРО	SITE			OUTLINE					-		}
300 SH	ERIES	TS "J'	9							HRD	ANGLE
J3ATS	J3N7,	rs 600A	A, J3ADTS, J3NDI	TS 150-600 A	MP	TYPE 3F	2/12				CTION
	BY	DATE	MANUFACTURING TOLER ACCORDANCE WITH ASCO P								
DRAWN BY	DJB	11/25/13	FOR PLASTIC PARTS		ASSEM	I. REF. NO.		UTER GEN			RAWING
CHECKED	BK	11/25/13	PROPERTY OF ASCO POW	ER TECHNOLOGIES. USE	PERMITTED			ONE SIZE	DS		
PROJECT APPROVAL	BK	11/25/13	WORK ONLY. ALL RIGHTS	OF DESIGN OR INVENTIO	ON ARE RE	ESERVED.	DWG. NO. $1 \bigcirc 1$	1 7 0 7	\cap	$\neg \neg$	
FINAL APPROVAL ASCO ® ASCO Power Technologies, l.p. FLORHAM PARK, NEW JERSEY 07932 U.S.A.							100	<u>1393-</u>			HEET
			<u>HJU</u> F	LORHAM PARK, NEW JER	SEY 0793	52 U.S.A.	drawing E rev.	ECN 29	468	9	10F 1
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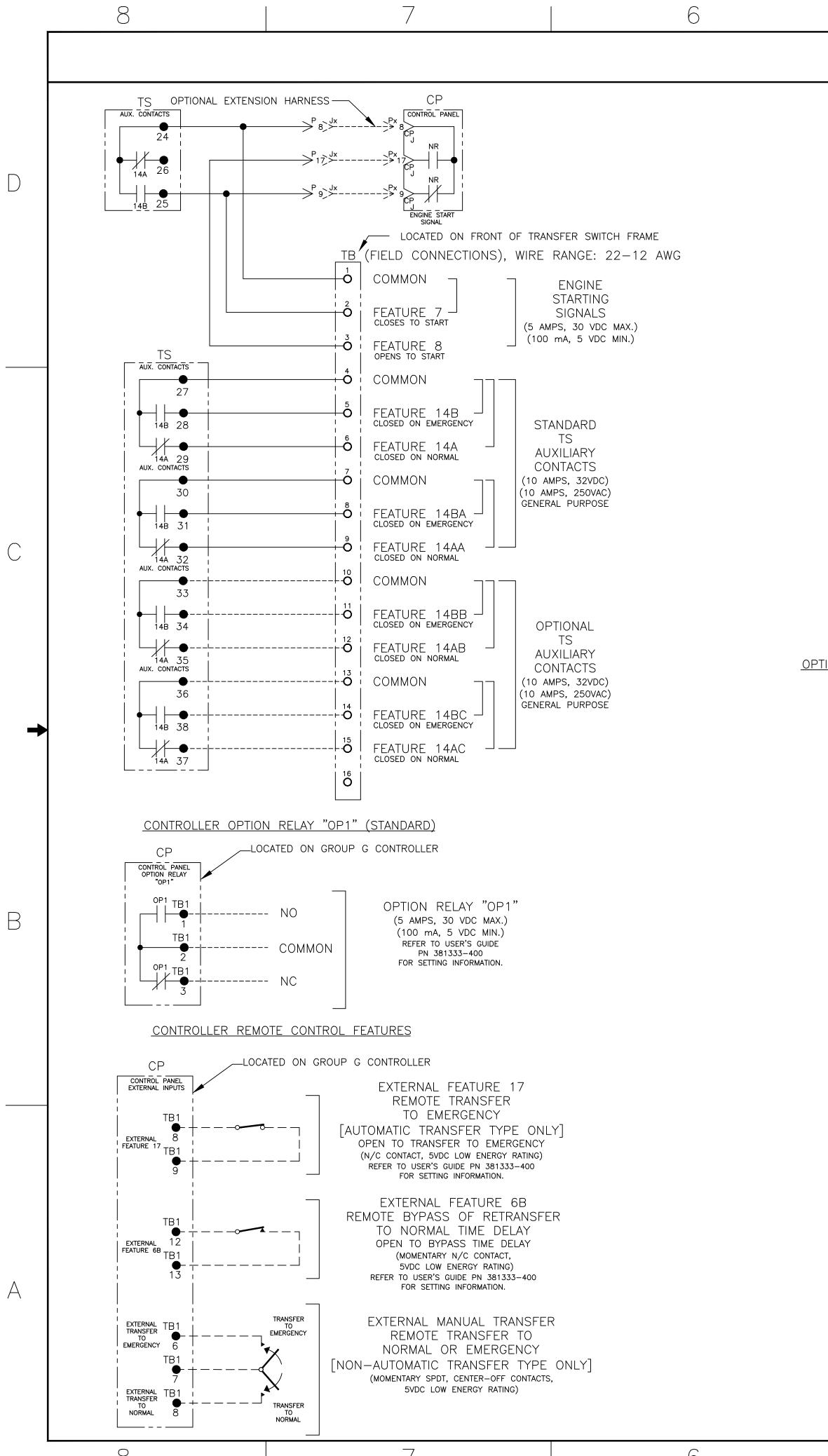
	8		7		6			5		¥	4	-				3
		Т	HREE PHASE	WIRING	FOR ASC	0 ° 300 S	ERIES TRA	ANSFE	R SWIT	CHES (J3AT	S/J3	NTS) 600	AMPER	ES WI
						GE	ENERAL IN	Forma	ATION							
			TCHES THAT UTILIZE THE "J" FRA	ME POWER	СОМ	MON ALARM & NO	T IN AUTO SIGNALING	FEATURES						(MANUAL) O		
	(J3NTS) OPERATION BASED ON	ROVIDES EITHER AUTOM	IATIC (J3ATS) OR NON-AUTOMATIC ACCORDING TO THE CUSTOMER		A SET OF FORM C CON FEATURE SETTING OF "(SIGNAL.		ON THE GROUP G CON O OPERATE THE CONTAC			INITIATED, E TRANSFER	ELECTRICAL OP SWITCH ASSEN	ERATION C IBLY IS PH	DF THE TRA HYSICALLY	NSFER SWITCH	OMATIC OPERATION TO EITHER AVAIL THAT OF THE AUTO	ABLE SOURCE OMATIC TYPE.
	MARKINGS LOCATED ON BOTH		DETERMINED FROM THE PRODUCT SWITCH AND THE COVER OF THI			HIBITED FROM TRANS	HE OUTPUT CONTACTS (FERRING TO THE EMERG SET FOR NON—AUTOMA	ENCY SOURCE	(FEATURE			E USED T	O OPERATE		OPERATION, A CU EMOTE LOCATION.	
	OPTIONAL ACCESSORIES (1UP,	18RX, 23G) ARE PROV	E GROUP G CONTROLLER AND ITS VIDED IN THE USER'S GUIDE, N—AUTOMATIC TRANSFER SWITCHES		CONTACTS CHANGE POS	ALTERNATIVELY SET SITION WHEN A "COM	RE BUNDLE" IS PART OF FOR A "COMMON ALARM MON ALARM" IS NOT PR THE "COMMON ALARM" S	' SIGNAL. THE ESENT AND RE	OUTPUT ESET WHEN A	SWITCH. EA DESCRIBED. EXTERNAL F	CH FUNCTION EACH CONTR FEATURE 17: F	PANEL IN CAN BE II OL CONTAC REMOTE TR	NPUTS PRO MPLEMENTE CT MUST B RANSFER TO	VIDE REMOTE D BY THE CUS E SUITABLE FO D EMERGENCY	CONTROL FUNCTIO STOMER PROVIDING DR A 5 VDC LOW FEATURE (FOR AL	G THE FORM ENERGY CIRC JTOMATIC TRAN
		ATS, 3ADTS, 3NTS & 3	E TRANSFER SWITCH IS PROVIDED 3NDTS, J-DESIGN 150-600 A TR		ADDITIONAL "COMMON A ACCESSORY 18RX (REL ASSEMBLY. OUTPUT CO	AY EXPANSION MODU NTACTS "OP2 AND/O	<u>AUTO" CONTACTS</u> ARE A ILE) IS INCLUDED IN THI R "OP3" WILL PROVIDE OPERATE AS "COMMON	E TRANSFER SV SIGNAL FUNCTIO	WITCH ONS WHEN	CAUSÉS EN ACTIVATES RETRANSFEI CONNECTED	IGINE START AI THE FEATURE R. IN THE EVE TO EMERGEN	ND TRANSF 3A "RETRA NT THAT 1 CY AND TI	FER TO TH ANSFER TO THE EMERG HE CUSTON	E EMERGENCY NORMAL (IF J ENCY SOURCE	SED CONTACT. OF SOURCE. RE-CL UST TEST) TIME E FAILS WHILE THE CONTACT IS OPEN	OSURE OF TH DELAY PRIOR TRANSFER S
	FEATURE 7 & FEATURE 8:				CONTACTS ARE RATED	5 AMPS RESISTIVE A	T 30 VDC MAXIMUM, 10) mA AT 5 VD	C MINIMUM.						TO NORMAL TIME	<u>DELAY</u> – REG
	EXPIRATION OF THE FEATURE 1 RESET ON EXPIRATION OF THE AN AUXILIARY CONTACT THAT IS	IC, OVERRIDE MOMENT/ FEATURE 2E ENGINE S CLOSED WHEN THE	TRANSFER SWITCH IS CONNECTED	TIME DELAY, AND			CONTROLLER FOR AUTOM 3-400 FOR SETTING INF		AUTOMATIC	RETRANSFE	R TO NORMAL	DELAY IF	ACTIVE.		GOF THE CONTAC	
	WHEN THE FEATURE SETTING O	STARTING CONTACTS	ARE AVAILABLE ON THE GROUP (DUTPUT CONTACTS "OP1" IS SET		USE OF AN EXTERNAL CONTROLLER TIME DELA	POWER SUPPLY IS I	ER SUPPLY COMPATIE JSEFUL WHEN REQUIRED NDS;		HE FOLLOWING	SWITCHES,	PART NUMBER	381333–	-400 FOR \$	SETTING INFORM	MATION.	
	"NR2".				FEATURE 1C – OVERRI FEATURE 1F – OVERRI		MAL SOURCE OUTAGES RGENCY SOURCE OUTAGE	S								
\frown	18RX (RELAY EXPANSION MODU	JLE) IS INCLUDED IN T 3" PROVIDE THE ENGIN	NR2" ARE AVAILABLE WHEN OPTIC THE TRANSFER SWITCH ASSEMBLY NE STARTING FUNCTION WHEN THE	. OUTPUT			EFUL WHEN THE TRANSF THE CONTROLLER TO CO									
\bigcirc	CONTACTS ARE RATED 5 AMPS	RESISTIVE AT 30 VDC	MAXIMUM, 100 mA AT 5 VDC M	/INIMUM.	AN EXTERNAL POWER S		DVIDED TO THE CONTROL USE OF;	LER, UNTIL TH	IE NORMAL SOURC	CE						
	REFER TO USER'S GUIDE, ASCO TRANSFER SWITCHES, PART NU		ER FOR AUTOMATIC & NON-AUTO	DMATIC	– AN EXTERNAL 2-	4 VDC POWER SUPP	LY WITH ACCESSORY 18	RX (RELAY EXP	PANSION MODULE)							
						SORY 1UP (UNINTER	RUPTIBLE POWER SUPPI	Y MODULE)								
		ARE PROVIDED ON THI SET TO OPERATE THE	<u>31M, 31N</u> E GROUP G CONTROLLER AS "OF E CONTACTS AS "FEATURE 31", T		18RX (RELAY EXPANSIC CONTACTS "OP2" WILL	POWER SUPPLY MAY N MODULE) IS INCLI PROVIDE EXTERNAL	' BE USED TO POWER T UDED IN THE TRANSFER 24 VDC POWER SUPPLY ITIONALLY, JUMPERS MU	SWITCH ASSEM FUNCTIONALITY	IBLY. OUTPUT 7 WHEN ITS FEATU							
	"OP1" CAN BE SET TO OPERAT SETTINGS ASSOCIATED WITH EAG		DLLOWING FUNCTIONS USING THE	TIME DELAY	, , , , , , , , , , , , , , , , , , ,		JLE) TO ENABLE THIS FI	JNCTION AS FO	DLLOWS;							
→	31F – NORMAL TO EMERGENC ^N 31G – EMERGENCY TO NORMA				REMOVE JUMPERS "J1" CONNECT JUMPERS "J1											
	31M – NORMAL TO EMERGENC 31N – EMERGENCY TO NORMA	Y POST-TRANSFER SIC L POST TRANSFER SIG	GNAL NAL		SOURCE IS AVAILABLE	AND RESET WHEN N	WHEN EITHER THE NORM EITHER SOURCE IS AVAIL FROM THE EXTERNAL PO	ABLE. THE "OP	2" N/C CONTACT							
			LOWING EACH OF THE ABOVE TIN				CONTROLLER FOR AUTON R SETTING INFORMATION.	IATIC & NON-I	AUTOMATIC TRANS	FER						
	18RX (RELAY EXPANSION MODU	JLE) IS INCLUDED IN T "WILL PROVIDE LOAD	THE TRANSFER SWITCH ASSEMBLY DISCONNECT FUNCTIONS WHEN T	. OUTPUT	ACCESSORY 1UP (UNIN WHEN OPTIONAL ACCES	TERRUPTIBLE POWER SORY 1UP IS INCLU	<u>SUPPLY):</u> DED IN THE TRANSFER S		BLY, THE CONTROI	LLER						
	ALL OUTPUT CONTACTS ("OP1", COMMON TIME DELAY SETTINGS		O OPERATE AS "FEATURE 31", S	HARE THE			R (APPROXIMATELY 3 MIN	NUTES).								
В			MAXIMUM, 100 mA AT 5 VDC N	/INIMUM.		SORY 23GB IS PART	OF THE TRANSFER SWI OR DISPLAY ON THE GR									
D	REFER TO USER'S GUIDE, ASCO TRANSFER SWITCHES, PART NU		ER FOR AUTOMATIC & NON-AUTO DR SETTING INFORMATION.	DITAMC			CONTROLLER FOR AUTON R INFORMATION ON USE.		AUTOMATIC TRANS	FER						
	INPHASE -	TRANSFER FEATUR	E FOR LOAD TRANSFER													
		ISANCE TRIPPING OF D	TRANSFER OF LOADS BETWEEN LI DISTRIBUTION CIRCUIT BREAKERS J JT OF PHASE TRANSFER.				OF THE TRANSFER SWI AVAILABLE TO PERFORM									
	REFER TO USER'S GUIDE, ASCO TRANSFER SWITCHES, PART NU		ER FOR AUTOMATIC & NON-AUTO DR SETTING INFORMATION.	DMATIC	 SERIAL COMMUNICAT PROGRAMMABLE ENG EVENT LOG COMMON ALARM SIG 	INE EXERCISER	GROUP G CONTROLLER	"OP1" OUTPUT.								
	SIGNALS INDICATING THE AVAILA OPTIONAL ACCESSORY 18RX (R	RELAY EXPANSION MOD	L & EMERGENCY SOURCES IS PF ULE) IS INCLUDED IN THE TRANS	FER SWITCH	- (3 PHASE SENSING ON – 3 PHASE EMERGENC – PHASE ROTATION SE	Y SOURCE SENSING. NSING.										
	AVAILABLE) CHANGE POSITION V	WHEN THE SOURCE IS	DURCE AVAILABLE) AND "RL6" (N ACCEPTABLE. MAXIMUM, 100 mA AT 5 VDC N			DE, ASCO GROUP G	NG. CONTROLLER FOR AUTON 3-400 FOR INFORMATIO									
						CATALOG NUMBER S								OG NUMBER CO		
		NOTES			TS CATALOG NEUTRA			ENCLOSURE CODE	NEUTRAL T	YPE VOLTAG	GE CODES 3 OR 4 WIRE)	LANATION	UI CAIAL		RE CODES	
	1. SWITCH SHOWN DE-ENERGIZ		DRMAL SOURCE. DRDANCE WITH NEMA PUB. ICS 1	PART					CODE DESCR			CODE T	IYPE		DESCRIPTION	
	1-101A. 2. ALL WIRING IS #16 AWG, TII	NNED, STRANDED COPI	PER UNLESS OTHERWISE INDICATE			CD			A SOLID B SWITCH	ING		BLANK C		'EN TYPE (NO NERAL PURPOS		
А	3. O INDICATES CÜSTOMER CON 4. ● INDICATES FACTORY CONN 5. CONNECTION POINTS THAT F	VECTION POINTS.	CONNECTIONS AND FACTORY CO	NNECTIONS		E F		F G		C D E	208 220 230	F G	4 INC	00R/OUTDOOR	ROOF, SLEET & IC 2, WATERTIGHT &	DUSTTIGHT
	ARE SHOWN OPEN AS CUST 6. THE TRANSFER UNIT IS MOU THE CONTROL PANEL AND A	OMER CONNECTION PO JNTED ON THE BACK I		URE.	J 3ATS A 3NTS B	3 600 H J K	G X	H L M		F G H J	240 277 380 400		4X TYF 12 INC	PE 4 PLUS CO	ROSION RESISTAI	NCE (STAINLES
	SURFACE OF THE DOOR. 7. AN OPERATOR'S MANUAL IS TRANSFER SWITCH. REFER TO							P Q		K L M	415 440 460	M N	3R ÖU 4 IND	TDOOR, RAINPF OOR/OUTDOOR	ROOF, SLEET & IC 2, WATERTIGHT &	DUSTTIGHT
	OPERATION OF THE SWITCH. 8. GROUND STRAP ON CONTRO AT LOWER LEFT CONTROL PA	DL PANEL IS AFFIXED 1					BLANK	BLANK		N P Q R	480 550* 575* 600*	P Q	4X TYF	PE 4 PLUS CO	RROSION RESISTAI	NCE (STAINLES
							FOR	FOR OPEN TYPE								
	8		7		6			5		1	4	-				3

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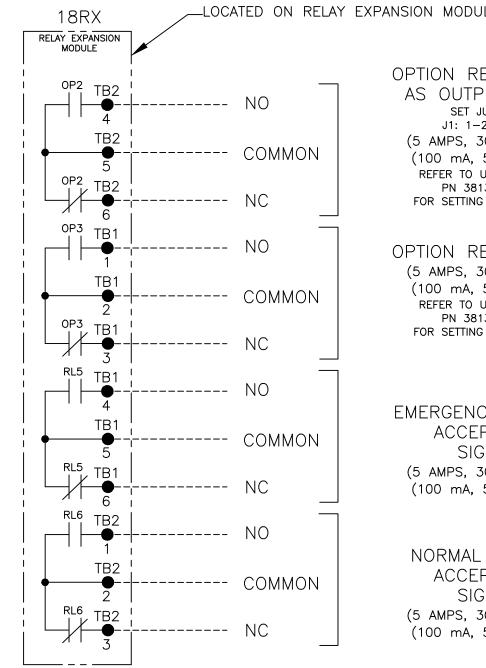
ERIES TRANSFER SWITCH	HES (J3ATS/J3NTS) 600 AMPERES WITH G
NERAL INFORMATION	
IN AUTO SIGNALING FEATURES	NON-AUTOMATIC (MANUAL) OPERATION
ON THE GROUP G CONTROLLER AS "OP1". THE O OPERATE THE CONTACTS AS A "NOT IN AUTO"	TRANSFER SWITCH ASSEMBLIES FACTORY SET FOR NON-AUTOMATIC OPERATION PROVIDE USER INITIATED, ELECTRICAL OPERATION OF THE TRANSFER SWITCH TO EITHER AVAILABLE SOURCE. THE TRANSFER SWITCH ASSEMBLY IS PHYSICALLY IDENTICAL TO THAT OF THE AUTOMATIC TYPE.
HE OUTPUT CONTACTS CHANGE POSITION WHEN THE TERRING TO THE EMERGENCY SOURCE (FEATURE	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.
SET FOR NON-AUTOMATIC (MANUAL) OPERATION.	REMOTE CONTROL FEATURES
RE BUNDLE" IS PART OF THE TRANSFER SWITCH FOR A "COMMON ALARM" SIGNAL. THE OUTPUT MON ALARM" IS NOT PRESENT AND RESET WHEN A HE "COMMON ALARM" SIGNAL CONDITIONS ARE	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 CONTRO DESCRIBED. EACH CONTROL CONTACT MUST BE SUITABLE FOR A 5 VDC LOW ENERGY CIRCUIT.
<u>AUTO" CONTACTS</u> ARE AVAILABLE WHEN OPTIONAL LE) IS INCLUDED IN THE TRANSFER SWITCH R "OP3" WILL PROVIDE SIGNAL FUNCTIONS WHEN OPERATE AS "COMMON ALARM" OR "NOT IN AUTO".	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.
30 VDC MAXIMUM, 100 mA AT 5 VDC MINIMUM.	EXTERNAL FEATURE 6B: REMOTE BYPASS OF RETRANSFER TO NORMAL TIME DELAY - REQUIRES A CUSTOMER SUPPLIED, NORMALLY CLOSED CONTACT. OPENING OF THE CONTACT BYPASSES FEATURE 3
400 FOR SETTING INFORMATION.	RETRANSFER TO NORMAL DELAY IF ACTIVE.
R SUPPLY COMPATIBILITY SEFUL WHEN REQUIRED TO EXTEND THE FOLLOWING NDS;	REFER TO USER'S GUIDE, ASCO GROUP G CONTROLLER FOR AUTOMATIC & NON-AUTOMATIC TRANSFE SWITCHES, PART NUMBER 381333-400 FOR SETTING INFORMATION.
IAL SOURCE OUTAGES GENCY SOURCE OUTAGES	
FUL WHEN THE TRANSFER SWITCH IS USED WITH HE CONTROLLER TO CONTINUE COMMUNICATING.	
VIDED TO THE CONTROLLER, UNTIL THE NORMAL SOURCE USE OF;	
Y WITH ACCESSORY 18RX (RELAY EXPANSION MODULE)	
RUPTIBLE POWER SUPPLY MODULE)	
BE USED TO POWER THE CONTROLLER WHEN ACCESSORY IDED IN THE TRANSFER SWITCH ASSEMBLY. OUTPUT 24 VDC POWER SUPPLY FUNCTIONALITY WHEN ITS FEATURE TIONALLY, JUMPERS MUST BE RECONFIGURED ON LE) TO ENABLE THIS FUNCTION AS FOLLOWS;	
WHEN EITHER THE NORMAL SOURCE OR EMERGENCY THER SOURCE IS AVAILABLE. THE "OP2" N/C CONTACT ROM THE EXTERNAL POWER SUPPLY TO THE CONTROLLER.	
CONTROLLER FOR AUTOMATIC & NON-AUTOMATIC TRANSFER	
<u>SUPPLY):</u> DED IN THE TRANSFER SWITCH ASSEMBLY, THE CONTROLLER (APPROXIMATELY 3 MINUTES).	
RRENT METERING	
OF THE TRANSFER SWITCH ASSEMBLY, THREE PHASE DR DISPLAY ON THE GROUP G CONTROLLER.	
CONTROLLER FOR AUTOMATIC & NON-AUTOMATIC TRANSFER INFORMATION ON USE.	
OF THE TRANSFER SWITCH ASSEMBLY, AN AVAILABLE TO PERFORM THE FOLLOWING FUNCTIONS;	
GROUP G CONTROLLER "OP1" OUTPUT.	
G.	
CONTROLLER FOR AUTOMATIC & NON-AUTOMATIC 3-400 FOR INFORMATION ON THESE FUNCTIONS.	

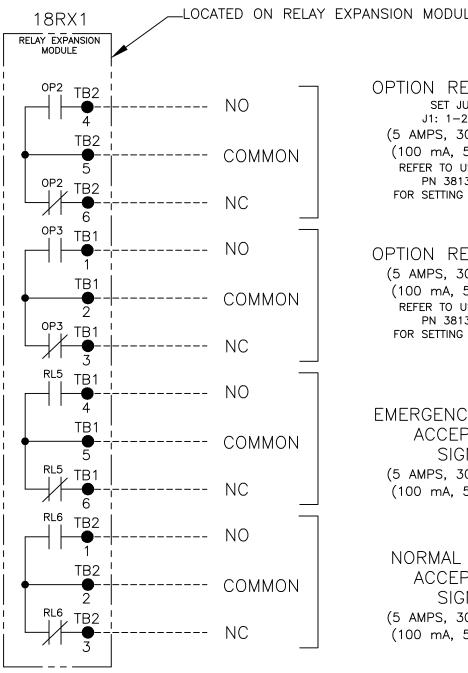
SL	IFFIXES				EXPLANATION OF CATALOG NUMBER CODES								
DLT DDE	CONTROLLER	OPTIONAL ACCESSORY	ENCLOSURE CODE	NE	UTRAL TYPE	VOLTAGE 3 PHASE (3 50 OR	E CODES or 4 wire) 60 hz		ENCLOSURE CODES				
				CODE	DESCRIPTION	CODE	NOMINAL VOLTAGE	CODE	TYPE	DESCRIPTION			
CDEFGHJKLMNPQR	G	X BLANK FOR NONE	C F G H L M P Q BLANK FOR OPEN TYPE	AB	SOLID SWITCHING	C D H F G H J K L M Z P Q R	208 220 230 240 277 380 400 415 440 460 480 550* 575* 600*	BLANK C F G H L M N P Q	1 3R 4 4X 12 3R 4 4X 12	OPEN TYPE (NO ENCLOSURE) GENERAL PURPOSE, INDOOR OUTDOOR, RAINPROOF, SLEET & ICE RESISTANT INDOOR/OUTDOOR, WATERTIGHT & DUSTTIGHT TYPE 4 PLUS CORROSION RESISTANCE (STAINLESS STEEL) INDOOR, INDUSTRIAL ENVIRONMENTS, OILTIGHT & DUSTTIGHT (SECURE ENCLOSURES) OUTDOOR, RAINPROOF, SLEET & ICE RESISTANT INDOOR/OUTDOOR, WATERTIGHT & DUSTTIGHT TYPE 4 PLUS CORROSION RESISTANCE (STAINLESS STEEL) INDOOR, INDUSTRIAL ENVIRONMENTS, OILTIGHT & DUSTTIGHT			
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		B
		278589 TR BK 05/03/19 SEE ECN 275211 TR BK 10/16/18
		SEE ECN 266495 MKA JPB 04/10/17 SEE ECN
	CATALOG NUMBER	251210 AJ MM 10/17/14 SEE ECN 247770 SDH SDH 4/14/14
	ASCO ^{® CERTIFIED TO} s.o.	246325 AE BK 01/16/14 SEE ECN SEE ECN
	BY DATE	242580 SDH SDH 5/30/13 SEE ECN 242255 SDH SDH 5/6/13
	FORM REV G PROJECT NAME:	ISSUE REV. TO ECN NO. BY APP. DATE
ΗT	WIRING DIAGRAM 300 SERIES J3ATS/J3NTS, THREE PHASE 600 AMPS "J" FRAME, GROUP G CONTROLS	THIRD ANGLE PROJECTION
ΗT	BY DATE MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-I-003.	SEM. REF. NO.
	PROPERTY OF ASCO POWER TECHNOLOGIES. USE PERMI WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE APPROVAL SDH 5/6/13 ASCO POWER TECHNOLOG FLORHAM PARK, NEW JERSEY O	DWG. NO. 978745
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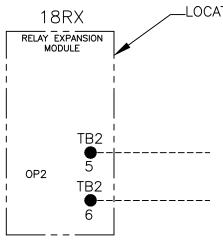
	5	↓ 4	3	2	1
<u>0</u>	PTIONAL ACCESSORY 18RX (RELAY EXPA 18RXLOCATED ON RELAY EX	·	18RX RELAY EXPANSION MODULE	LOCATED ON RELAY EXPANSION MODULE OPTION RELAY "OP2"	
	RELAY EXPANSION MODULE	OPTION RELAY "OP2" AS OUTPUT RELAY	"OP2" OPTIONAL	AS EXTERNAL POWER SUPPLY INPUT "1G" set jumpers as follows;	
	H H H NO 4 H H H 1 TB2 H H 5 H H H	SET JUMPERS J1: 1-2 & 3-4 (5 AMPS, 30 VDC MAX.) (100 mA, 5 VDC MIN.)	USES	+ 24 VDC REMOVE JUMPERS "J1" 1-2 & "J1" 3-4 CONNECT JUMPERS "J1" 5-7 & "J1" 6-8 (24 VDC NOM., 15 W MAX.)	
	OP2 TB2 OP2 TB2 OP3 TB1 OP3 TB1	REFER TO USER'S GUIDE PN 381333-400 FOR SETTING INFORMATION.		COMMON REFER TO USER'S GUIDE PN 381333-400 FOR SETTING INFORMATION.	
	TB1	OPTION RELAY "OP3" (5 AMPS, 30 VDC MAX.) (100 mA, 5 VDC MIN.) REFER TO USER'S GUIDE		RS485 SERIAL COMMUNICATIONS OPTION AVAILABLE WITH OPTIONAL ACCESSORY 11BE: ADVANCED-FUNCTION SOFTWAF REFER TO USER'S GUIDE PN 381333-400 FOR SETTING INFORMATION.	E BUNDLE
	$\begin{array}{c c} OP3 & TB1 \\ \hline & & \\ &$	PN 381333-400 FOR SETTING INFORMATION.	CP RS485 SERIAL COMMUNICATIONS OPTION (ACC. 11BE)	LOCATED ON GROUP G CONTROLLER	
	TB1 COMMON	EMERGENCY SOURCE ACCEPTABLE SIGNAL	СОМ ТВ2 СОМ Ф 5 ТВ2 	2. FIELD	GROUND SHIELD AT HOST DEVICE ONLY. WIRING: USE UL LISTED, STRANDED,
	$\begin{bmatrix} RL5 & TB1 \\ 0 & 0 \\ 0 & 0 \\ RL6 & TB2 \\ 0 & 0 \\ 0 $	(5 AMPS, 30 VDC MAX.) (100 mA, 5 VDC MIN.)	1 1 1B2	TO OTHER ASCO SERIAL AA 	D PAIRS, OVERALL FOIL SHIELD WITH DED DRAIN WIRE SUITABLE FOR RS422 LENT TO: 80°C) BELDEN 9842 OR 9829
	NO 1 TB2 COMMON	NORMAL SOURCE ACCEPTABLE SIGNAL	TB2		6202C OR 6222C
	RL6 TB2	(5 AMPS, 30 VDC MAX.) (100 mA, 5 VDC MIN.)			
PTION	AL ACCESSORY 18RX1 (SECOND RELAY 18RX1LOCATED ON RELAY E>	<i>T</i>			
	RELAY EXPANSION MODULE	OPTION RELAY "OP2"			-
	TB2 / COMMON	SET JUMPERS J1: 1-2 & 3-4 (5 AMPS, 30 VDC MAX.) (100 mA, 5 VDC MIN.)			
	OP2 TB2 OP2 TB2 OP3 TB1	REFER TO USER'S GUIDE PN 381333-400 FOR SETTING INFORMATION.			
	TB1	OPTION RELAY "OP3" (5 AMPS, 30 VDC MAX.) (100 mA, 5 VDC MIN.) REFER TO USER'S GUIDE			
	OP3 TB1 RL5 TB1 RL5 TB1	PN 381333-400 FOR SETTING INFORMATION.			B
	TB1 5	EMERGENCY SOURCE ACCEPTABLE SIGNAL			
	RL5 TB1 6 RL6 TB2	(5 AMPS, 30 VDC MAX.) (100 mA, 5 VDC MIN.)			
	NO 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	NORMAL SOURCE ACCEPTABLE SIGNAL			G 278589 TR BK 05/03/19 SEE ECN
	RL6 TB2	(5 AMPS, 30 VDC MAX.) (100 mA, 5 VDC MIN.)			275211 TR BK 10/16/18 SEE ECN 266495 MKA JPB 04/10/17 SEE ECN
					251210 AJ MM 10/17/14 SEE ECN 247770 SDH SDH 4/14/14 SEE ECN
					246325 AE BK 01/16/14 SEE ECN A 242580 SDH SDH 5/30/13 SEE ECN
				PROJECT NAME:	242255 SDH SDH 5/6/13 ISSUE REV. TO SHEET ECN NO. BY APP. DATE
				WIRING DIAGRAM 300 SERIES J3ATS/J3NTS, THREE PHASE 600 AMP "J" FRAME, GROUP G CONTROLS BY DATE MANUFACTURING TOLERANCES TO BE IN	S THIRD ANGLE PROJECTION
				DRAWN BY SDH 5/6/13 ACCORDANCE WITH ASCO PROCEDURE MP-I-003. FOR PLASTIC PARTS SEE MP-I-055 // CHECKED PROPERTY OF ASCO POWER TECHNOLOGIES. USE PER WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION A	RE RESERVED. DWG. NO. 978745
	5	1 4	3	FINAL APPROVAL SDH 5/6/13 ASCO Power Technological Image: Constraint of the second seco	GIES, L.F.

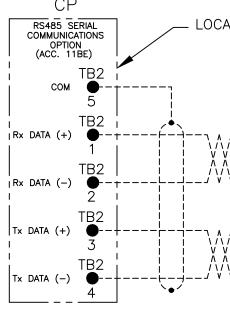


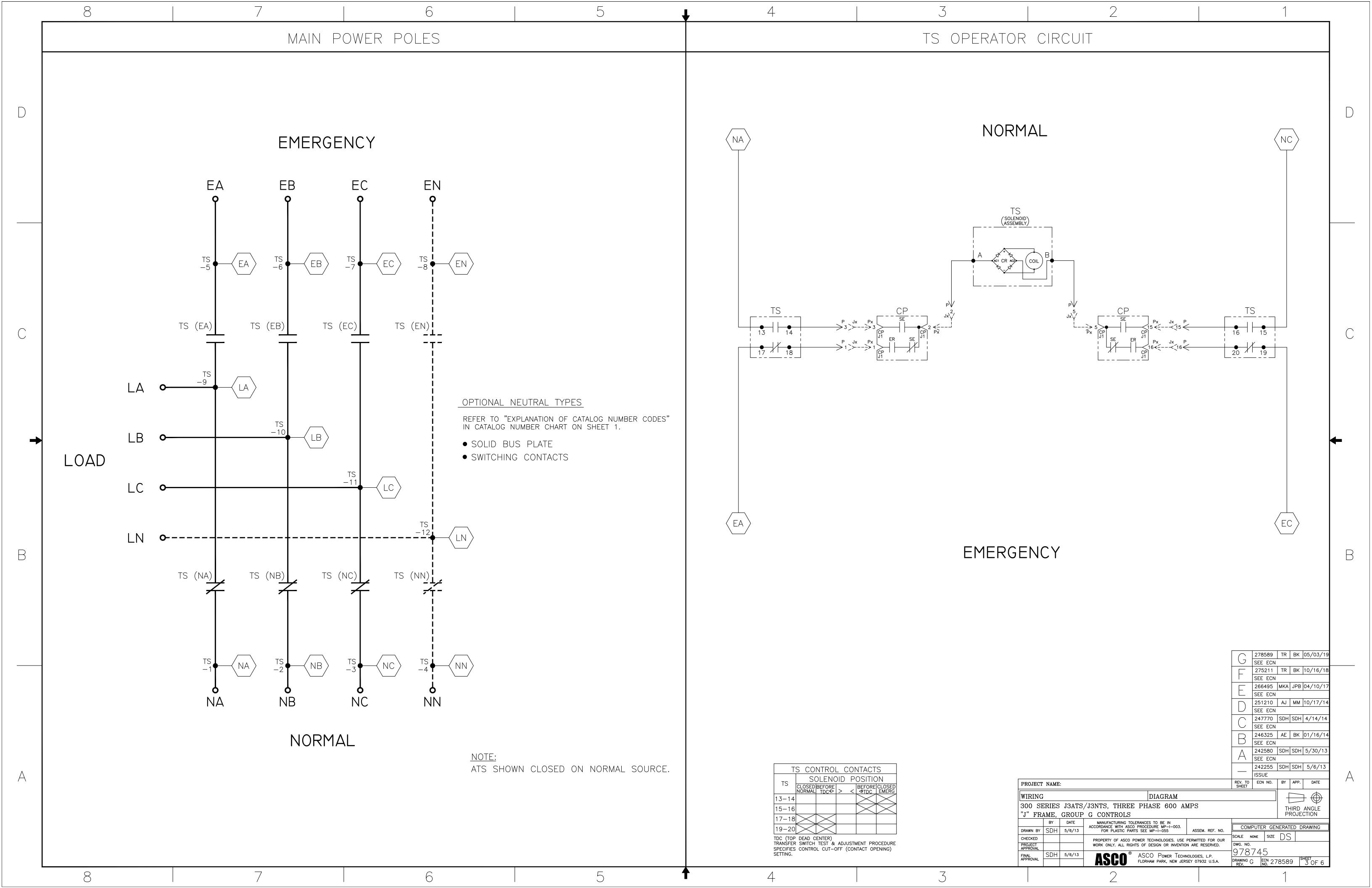


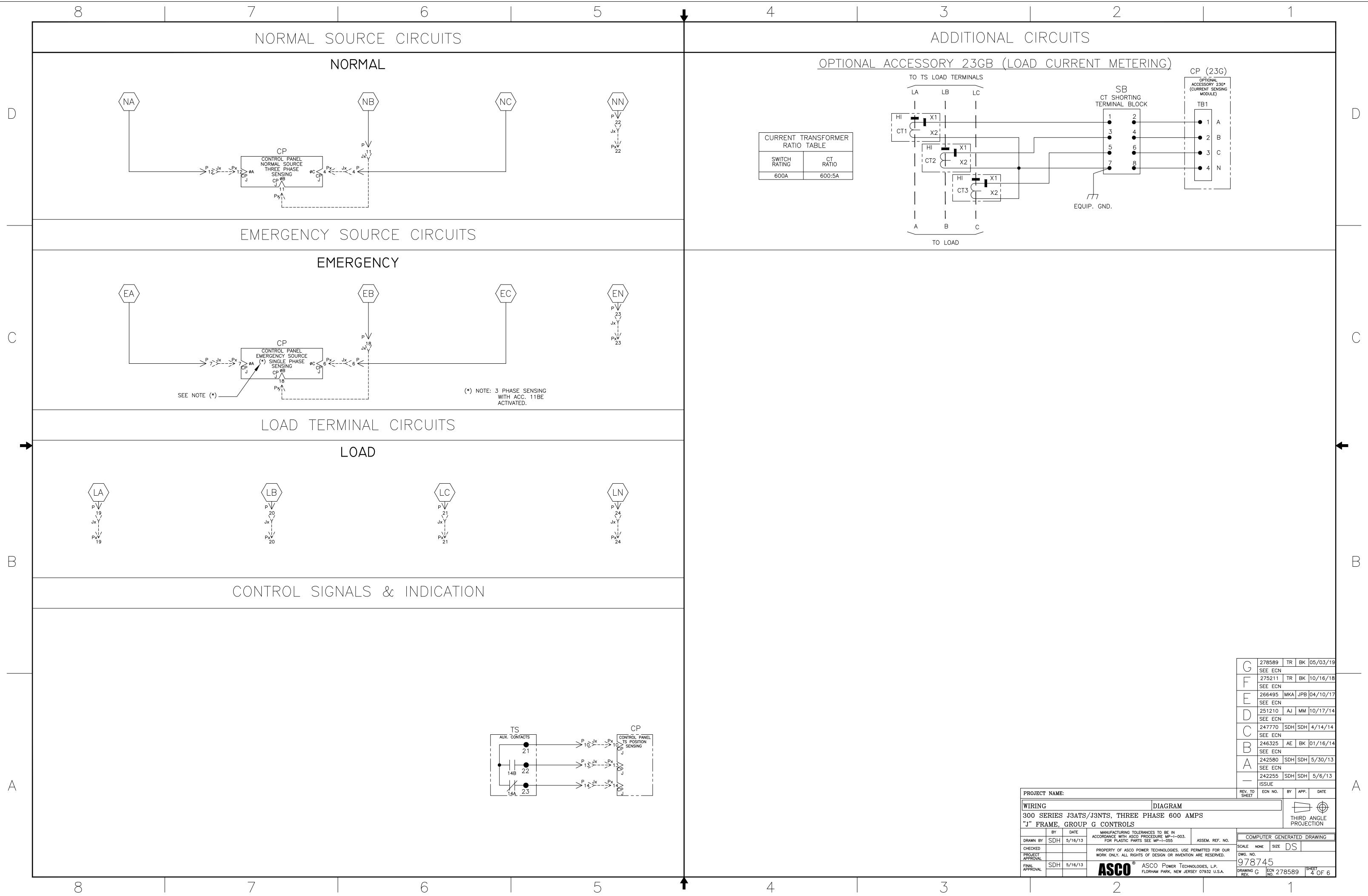
PTION RELAY "OP2"
SET JUMPERS
J1: 1-2 & 3-4
(5 AMPS, 30 VDC MAX.)
(100 mA, 5 VDC MIN.)
REFER TO USER'S GUIDE
PN 381333-400
FOR SETTING INFORMATION.

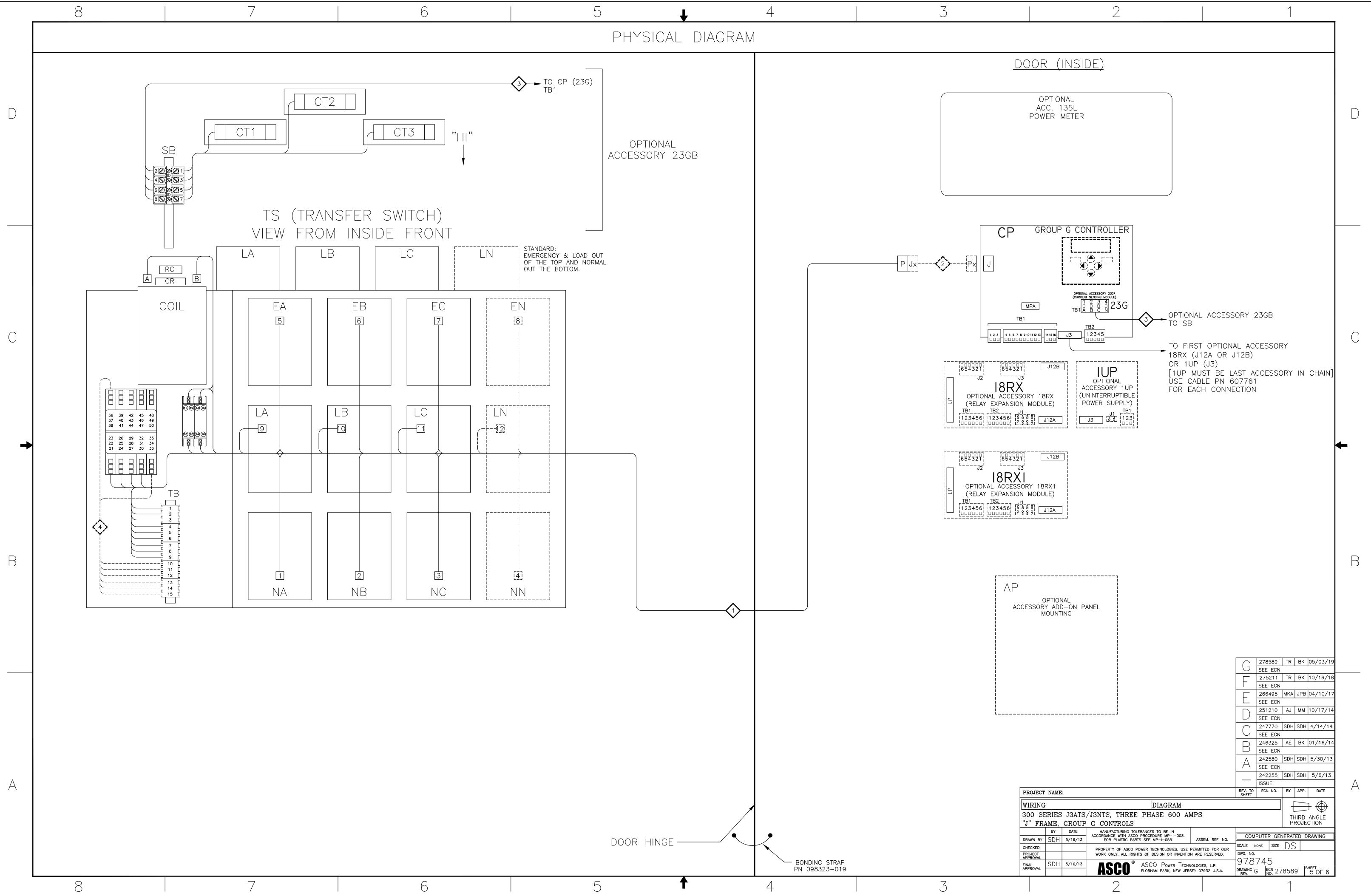












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	HARNESS LOCATOR		
WIRE No.	HARNESS 781247 (P) MAIN TS	CLR	AWG
1	P-1,TS-18		18
2	P-2,TS-A		
3	P-3,TS-14 P-4,TS-3		
4	P-4,TS-3 TS-3,TS-15		
5	P-5,TS-B		
6	P-6,TS-7		
6	TS-7,TS-19		
7	P-7,TS-5		
8	TS-5,TS-17 P-8,TS-24		
8	TS-24,TB-1		
9	P-9,TS-25		
9	TS-25,TB-2		
10	P-10,TS-21		
12	P-11,TS-2 P-12,TS-1		
12	TS-1,TS-13		
13	P-13,TS-22		
14	P-14,TS-23		
15	P-15,TS-16		
16	P-16,TS-20 P-17,TB-3		
18	P-18,TS-6		
19	P-19,TS-9		
20	P-20,TS-10		
21	P-21,TS-11 P-22,TS-4		
23	P-23,TS-8		
24	P-24,TS-12		
25	TS-27,TB-4		
26	TS-28,TB-5		
27	TS-29,TB-6 TS-30 TB-7		
32	TS-30,TB-7 TS-31,TB-8 TS-32,TB-9		
33	TS-32,TB-9		
	REMOVE WIRES		
	ADD WIRES		

C2> HARNESS LOCATOR Jummess is I WIRE HARNESS 309320-005 CLR AWG 1 Px-1,Jx-1 I I 2 Px-2,Jx-2 I I 3 Px-3,Jx-3 I I 4 Px-4,Jx-4 I I 5 Px-5,Jx-5 I I 6 Px-6,Jx-6 I I 7 Px-3,Jx-7 I I 9 Px-9,Jx-9 I I 10 Px-11,Jx-11 I I 12 Px-13,Jx-13 I I 14 Px-14,Jx-14 I I 15 Px-16,Jx-16 I I 26 Px-19,Jx-20 I I 27 Px-22,Jx-22 I I 28 Px-21,Jx-21 I I 29 Px-22,Jx-23 I I 31 Px-24,Jx-24 I I I I I I I I Px-24,Jx-24 I<		HARNESS LOCATOR	
1 Px-1, Jx-1 16 2 Px-2, Jx-2		MODIFIED	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		(Px,Jx) OPTIONAL 8" EXTENSION HARNESS Px = 1 $Jx = 1$	
4 $Px-4, Jx-4$ 5 $Px-5, Jx-5$ 6 $Px-6, Jx-6$ 7 $Px-7, Jx-7$ 8 $Px-9, Jx-9$ 10 $Px-10, Jx-10$ 11 $Px-11, Jx-11$ 12 $Px-12, Jx-12$ 13 $Px-13, Jx-13$ 14 $Px-14, Jx-14$ 15 $Px-15, Jx-15$ 16 $Px-16, Jx-16$ 24 $Px-17, Jx-17$ 25 $Px-18, Jx-18$ 26 $Px-20, Jx-20$ 28 $Px-21, Jx-21$ 29 $Px-22, Jx-22$ 30 $Px-23, Jx-23$ 31 $Px-24, Jx-24$ 9 $Px-20, Jx-20$ 9 $Px-20, Jx-20$ 9 $Px-24, Jx-24$	2	Px-2,Jx-2	10
5 Px-5, Jx-5 6 Px-6, Jx-6 7 Px-7, Jx-7 8 Px-8, Jx-8 9 Px-9, Jx-9 10 Px-10, Jx-10 11 Px-12, Jx-12 13 Px-13, Jx-13 14 Px-14, Jx-14 15 Px-16, Jx-15 16 Px-17, Jx-17 25 Px-18, Jx-18 26 Px-19, Jx-20 28 Px-21, Jx-21 29 Px-22, Jx-22 30 Px-23, Jx-23 31 Px-24, Jx-24			
6 Px-6, Jx-6 7 Px-7, Jx-7 8 Px-8, Jx-8 9 Px-9, Jx-9 10 Px-10, Jx-10 11 Px-11, Jx-11 12 Px-12, Jx-12 13 Px-13, Jx-13 14 Px-15, Jx-15 16 Px-16, Jx-16 24 Px-17, Jx-17 25 Px-18, Jx-18 26 Px-19, Jx-20 27 Px-20, Jx-20 28 Px-21, Jx-21 29 Px-22, Jx-22 30 Px-23, Jx-23 31 Px-24, Jx-24	5		
8 Px-8, Jx-8 9 Px-9, Jx-9 10 Px-10, Jx-10 11 Px-11, Jx-11 12 Px-12, Jx-12 13 Px-13, Jx-13 14 Px-14, Jx-14 15 Px-15, Jx-15 16 Px-17, Jx-17 25 Px-18, Jx-18 26 Px-19, Jx-19 27 Px-20, Jx-20 28 Px-21, Jx-21 29 Px-22, Jx-22 30 Px-23, Jx-23 31 Px-24, Jx-24 Image: State St	6	Px-6,Jx-6	
9 Px-9, Jx-9 10 Px-10, Jx-10 11 Px-11, Jx-11 12 Px-12, Jx-12 13 Px-13, Jx-13 14 Px-14, Jx-14 15 Px-15, Jx-15 16 Px-16, Jx-16 24 Px-17, Jx-17 25 Px-18, Jx-18 26 Px-20, Jx-20 28 Px-21, Jx-21 29 Px-22, Jx-22 30 Px-23, Jx-23 31 Px-24, Jx-24 9 Px-24, Jx-24 9 Px-24, Jx-24 9 Px-24, Jx-24			
11 Px-11, Jx-11 12 Px-12, Jx-12 13 Px-13, Jx-13 14 Px-14, Jx-14 15 Px-15, Jx-15 16 Px-17, Jx-17 25 Px-18, Jx-18 26 Px-20, Jx-20 28 Px-21, Jx-21 29 Px-22, Jx-22 30 Px-23, Jx-23 31 Px-24, Jx-24 REMOVE WIRES			
12 Px-12, Jx-12 13 Px-13, Jx-13 14 Px-14, Jx-14 15 Px-15, Jx-15 16 Px-17, Jx-17 25 Px-18, Jx-18 26 Px-19, Jx-20 28 Px-21, Jx-21 29 Px-22, Jx-22 30 Px-23, Jx-23 31 Px-24, Jx-24		Px-10,Jx-10	
13 Px-13, Jx-13 14 Px-14, Jx-14 15 Px-15, Jx-15 16 Px-17, Jx-17 25 Px-18, Jx-18 26 Px-19, Jx-19 27 Px-20, Jx-20 28 Px-21, Jx-21 29 Px-23, Jx-23 30 Px-24, Jx-24			
15 Px-15, Jx-15 16 Px-16, Jx-16 24 Px-17, Jx-17 25 Px-18, Jx-18 26 Px-19, Jx-19 27 Px-20, Jx-20 28 Px-21, Jx-21 29 Px-23, Jx-23 30 Px-24, Jx-24	13	Px-13,Jx-13	
16 Px-16, Jx-16 24 Px-17, Jx-17 25 Px-18, Jx-18 26 Px-20, Jx-20 28 Px-21, Jx-21 29 Px-23, Jx-23 30 Px-24, Jx-24 9 Px-24,		Px - 14, Jx - 14 Px - 15, Jx - 15	
25 Px-18, Jx-18 26 Px-19, Jx-19 27 Px-20, Jx-20 28 Px-21, Jx-21 29 Px-23, Jx-23 30 Px-24, Jx-24 20 Px-24, Jx-24 21 Px-24, Jx-24 22 Px-24, Jx-24 23 Px-24, Jx-24 24 Px-24, Jx-24 25 Px-24, Jx-24 26 Px-24, Jx-24 27 Px-24, Jx-24 28 Px-24, Jx-24 29 Px-24, Jx-24 20 Px-24, Jx-24 21 Px-24, Jx-24 22 Px-24, Jx-24 23 Px-24, Jx-24 24 Px-24, Jx-24 25 Px-24, Jx-24 26 Px-24, Jx-24 27 Px-24, Jx-24 26 Px-24, Jx-24 27 Px-24, Jx-24 27 Px-24, Jx-24 28 Px-24, Jx-24 29 Px-24, Jx-24 29 Px-24, Jx-24 20 Px-24, Jx-24	16	Px-16,Jx-16	
26 Px-19, Jx-19 27 Px-20, Jx-20 28 Px-21, Jx-21 29 Px-22, Jx-22 30 Px-23, Jx-23 31 Px-24, Jx-24			
27 Px-20, Jx-20 28 Px-21, Jx-21 29 Px-22, Jx-22 30 Px-23, Jx-23 31 Px-24, Jx-24	26	Px-19,Jx-19	
29 Px-22, Jx-22 30 Px-23, Jx-23 31 Px-24, Jx-24		Px-20,Jx-20	
30 Px-23, Jx-23 31 Px-24, Jx-24			
Image: Second	30	Px-23,Jx-23	
	31	Px-24,Jx-24	
		REMOVE WIRES	
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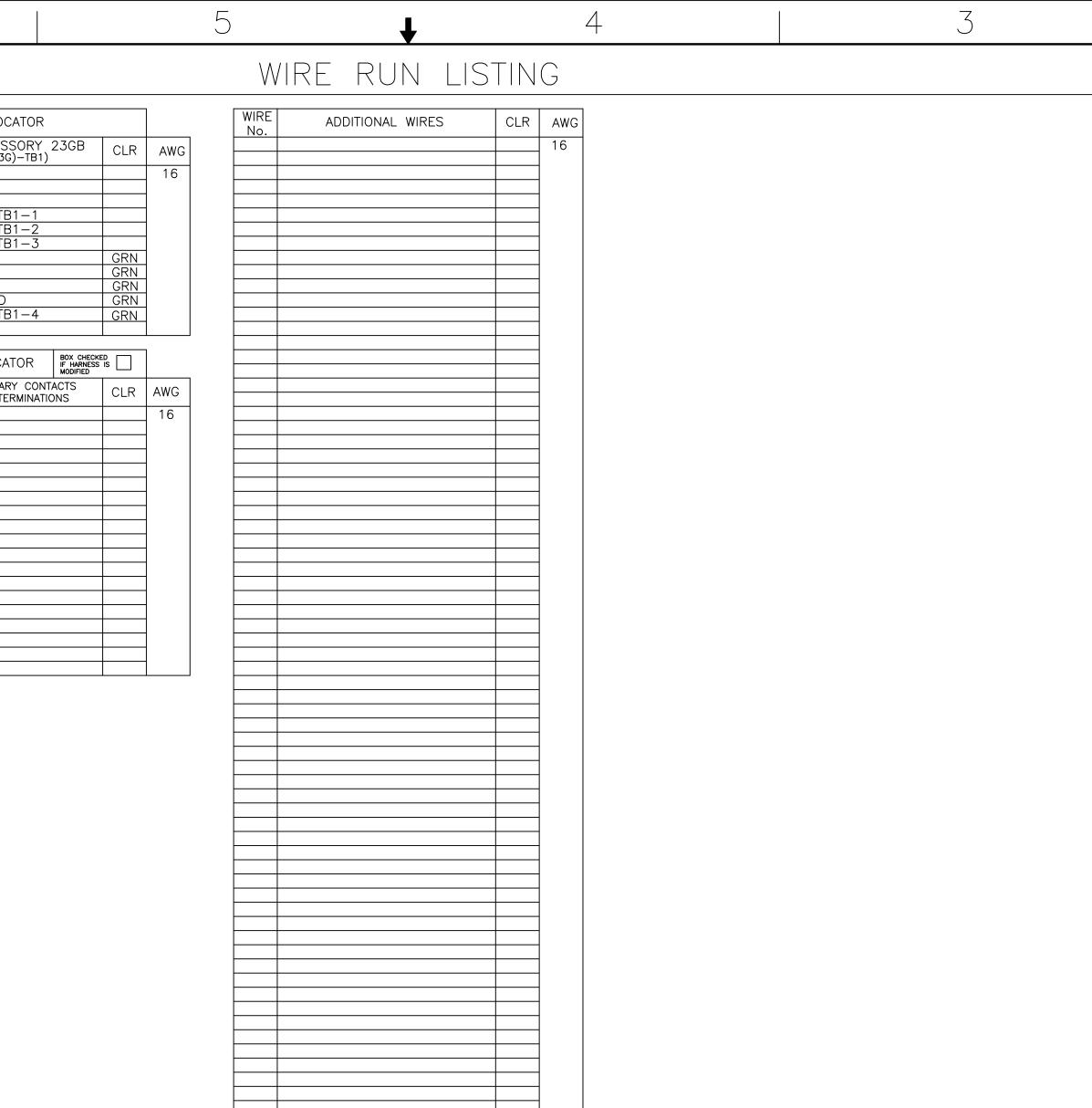
3-	- HARNESS LOCA
WIRE	OPTIONAL ACCESS((CT,SB,CP(23G)-
<u>No.</u> 300	CT1-X1,SB-1
301 302 300 301	CT2-X1,SB-3
302	CT3-X1,SB-5
300	SB-2,CP(23G)-TB1
301	SB-4,CP(23G)-TB1
	SB-6,CP(23G)-TB1
303	CT1-X2,CT2-X2 CT2-X2,CT3-X2
303 303 303 303 303	CT2-X2,CT3-X2 CT3-X2,SB-7
303	SB-7,EQUIP-GND
303	SB-8,CP(23G)-TB1
4-	-HARNESS LOCATO
WIRE	OPTIONAL AUXILIARY
No.	(TS,TB) FIELD TERM
35	TS-33,TB-10
36 37 38	TS-34,TB-11 TS-35,TB-12 TS-36,TB-13
3/	15-33,18-12 TS_36 TB_13
40	TS-35,TB-12 TS-36,TB-13 TS-37,TB-15
39	TS-38,TB-14

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		278589 TR BK 05/03/19 SEE ECN 275211 TR BK 10/16/18 SEE ECN 266495 MKA JPB 04/10/17 SEE ECN	
		251210 AJ MM 10/17/14 SEE ECN 247770 SDH SDH 4/14/14 SEE ECN B 246325 AE BK 01/16/14 SEE ECN	
		D SEE ECN A 242580 SDH SDH 5/30/13 SEE ECN 242255 SDH SDH 5/6/13 ISSUE	
	300 SERIES J3ATS/J3NTS, THREE PHASE "J" FRAME, GROUP G CONTROLS	PROJECTION	
	BY DATE MANUFACTURING TOLERANCES TO I ACCORDANCE WITH ASCO PROCEDURE FOR PLASTIC PARTS SEE MP-I- CHECKED PROPERTY OF ASCO POWER TECHNOC WORK ONLY. ALL RIGHTS OF DESIGN FINAL APPROVAL SDH 5/6/13	DLOGIES. USE PERMITTED FOR OUR	
3		REV. G NO. 270309 6 0F 6	

EQUIPMENT STORAGE REQUIREMENTS

Equipment provided by Schneider-Electric and/or ASCO Power Technologies that is stored for a short-term duration (i.e., days to weeks) or long-term duration (i.e., months to years), must be kept in a cool, dry, temperature-controlled environment. Storage of equipment in open warehouses, locations without proper temperature and humidity control, and/or outdoor storage is not acceptable without the utilization of heating elements, thermostats, humidistats, and protection from weather and dirt. Failure to comply may result in moisture ingress and/or condensation to form resulting in rusting and or corrosion, component and/or equipment failure and replacement, and/or nullification of any manufacturer warranty.

For General Instructions for Proper Handling, Installation, Operation, and Maintenance of Deadfront Distribution Switchboards Rated 600 Volts or Less, refer to <u>ANSI NEMA PB 2.1-2013</u>

Copies of the following documents should be included on the submittals, depending on the units that are on the proposal:

For ASCO Power Technology's **Switchgear and Switchboards**, refer to Instruction Bulletin **381333-393**. For Schneider-Electric/Square D's **Power Zone 4 (PZ4) Switchgear**, refer to Instruction Bulletin **80298-002-09**. For Schneider-Electric/Square D's **Power Zone 4 (PZ4) NEMA 3R Walk-In Switchgear**, refer to Instruction Bulletin **80298-156-02**.

For Schneider-Electric/Square D's **Quality, Efficient, Delivery**" (QED2) Switchboard, refer to Instruction Bulletin 80043-055-14.

For Schneider-Electric/Square D's **Masterclad Metal-Clad Indoor Switchgear**, refer to Instruction Bulletin **6055-30**.

Limited Warranty

Series 150, 200, 300 and 4000 Power Transfer Switches

This Warranty is given ONLY to purchasers who buy for commercial or industrial use in the ordinary course of each purchaser's business.

General

ASCO Power Technologies, LP products and systems are in our opinion the finest available. We take pride in our products and are pleased that you have chosen them. Under certain circumstances we offer with our products the following Limited Guardian Warranty Against Defects in Material and Workmanship.

Please read your Guardian Warranty carefully. This Warranty sets forth our responsibilities in the unlikely event of defect and tells you how to obtain performance under this Warranty.

Limited Warranty Against Defects in Material and Workmanship:

Product Description	Series	Catalog Code
	150, 200	1ATS, 2ATS
Automatic Transfer Switch	300	3ATS, 3ADTS
	4000	4ATS, 4ADTS, 4ACTS
Non-Automatic Transfer Switch (Electrically Operated)	300	3NTS, 3NDTS
ASCO Lighting Control Panels	4000	4NTS, 4NDTS, 4NCTS
Manual Transfer Switch	300	3MTS, 3MTQ, 3MUQ, 3MPQ, 3MGQ, 3MGDQ, 3MTDQ
Service Entrance Transfer Switch (SEATS)	300	3AUS, 3ADUS, 3APS, 3ARS, 3MUS
Power Transfer Load Center (PTLC)	300	300L
Quick Connect Panels	300	3QCN, 3QCU, 3QCD
Electrically Operated Bypass Switch	4000	4ATE, 4NTE, 4ADTE, 4NDTE

Limited Warranty	ASCO warrants that the ATS will be free from defects in material and workmanship and will conform to ASCO's standard specifications for the ATS for a period of twenty four (24) months from date of product shipment from ASCO (the "Warranty Period"). This Limited Warranty does not extend to subsequent owners of the structure during the Warranty period.
Terms of Warranty	The foregoing Limited Warranty is conditioned upon user's compliance with the following:
	1. The ASCO Power Transfer Switch is installed in accordance with ASCO specifications and state and local codes and standards by an electrician licensed in the state of installation.
	2. The ASCO Power Transfer Switch is maintained in accordance with ASCO instructions and used under normal conditions for the purposes intended by ASCO.
	All warranty field-related repairs, replacements or adjustments must be made by ASCO Services Inc. or its duly authorized representative.
Optional Available Extended Warranty	Optional extended warranty coverage may be purchased from ASCO for a specified fee at the time of the original sale. If purchased, Warranty period shall be extended up to an additional thirty - six (36) months beyond the standard twenty - four (24) months to provide up to five (5) year coverage applicable to the above referenced products, except for 3AUS, 3APS, and 3ARS products where the warranty period for the circuit breaker shall be limited to 24 months from date of shipment from ASCO. The length of optional extended coverage shall be reflected on the ASCO invoice and/or order acknowledgement document.





Warranty Extends To First Purchaser for Use, Non-Transferable	This Warranty is extended to the first person, firm, association, or corporation for whom the ASCO product specified herein is originally installed for use (the "user") in the fifty United States or Canada. This Warranty is not transferable or assignable without the prior written permission of ASCO.
Assignment of Warranties	ASCO assigns to user any warranties which are made by manufacturers and suppliers of components of, or accessories to, the ASCO product and which are assignable, but ASCO makes no representations as to the effectiveness or extent of such warranties, assumes no responsibility for any matters which may be warranted by such manufacturers or suppliers and extends no coverage under this Warranty to such components or accessories.
Drawings, Descriptions	ASCO warrants for the period and on the terms of the Warranty set forth herein that the ASCO product will conform to the descriptions contained in the certified drawings, if any, applicable thereto, to ASCO's final invoices, and to applicable ASCO product brochures and manuals current as of the date of product shipment ("descriptions"). ASCO does not control the use of any ASCO product. Accordingly, it is understood that the descriptions are not Warranties of performance and not Warranties of fitness for a particular purpose.
Warranty Claims Procedure	Within a reasonable time, but in no case to exceed thirty (30) days, after user's discovery of a defect, user shall contact <u>ascopowerwarranty@ascopower.com</u> . Subject to the limitations specified herein, an ASCO Services field service representative will repair the non-conforming ASCO product warranted hereunder, without charge for parts, labor, or travel expenses. Warranty coverage will apply only after ASCO's inspection discloses the claimed defect and shows no signs of treatment or use that would void the coverage of this Warranty . All defective products and component parts replaced under this Warranty become the property of ASCO.
Warranty Performance of Component Manufacturers	It is ASCO's practice, consistent with its desire to remedy Warranty defects in the most prompt and effective manner possible, to cooperate with and utilize the services of component manufacturers and their authorized representatives in the performance of work to correct defects in the product components. Accordingly, ASCO may utilize third parties in the performance of Warranty work, including repair or replacement hereunder, where, in ASCO's opinion, such work can be performed in less time, with less expense, or in closer proximity to the ASCO product.
Items Not Covered By Warranty	This Warranty does not cover damage or defect caused by misuse, improper application, wrong or inadequate electrical current or connection, negligence, inappropriate on site operating conditions, repair by non-ASCO designated personnel, accident in transit, tampering, alterations, a change in location or operating use, exposure to the elements, water, or other corrosive liquids or gases, acts of God, theft or installation contrary to ASCO's recommendations or specifications, or in any event if the ASCO serial number has been altered, defaced, or removed.
	This Warranty does not cover shipping costs, installation costs, external circuit breaker resetting or maintenance or service items and further, except as may be provided herein, does not include labor costs or transportation charges arising from the replacement of the ASCO product or any part thereof or charges to remove or reinstall same at any premises of user.
	Repair or replacement of a defective product or part thereof does not extend the original Warranty period.
	The products listed in this Warranty are not for use in the control area or any reactor connected or safety applications or within the containment area of a nuclear facility or for integration into medical devices.



ASCO Power Technologies"

Limitations This Warranty is in lieu of and excludes all other Warranties, express or implied, including merchantability and fitness for a particular purpose.

User's sole and exclusive remedy is repair or replacement of the ASCO product as set forth herein.

If user's remedy is deemed to fail of its essential purpose by a court of competent jurisdiction, ASCO's responsibility for property loss or damage shall not exceed the net product purchase price.

In no event shall ASCO assume any liability for indirect, special, incidental, consequential or exemplary damages of any kind whatsoever, including without limitation lost profits, business interruption or loss of data, whether any claim is based upon theories of contract, negligence, strict liability, tort, or otherwise.

Miscellaneous No salesperson, employee, or agent of ASCO is authorized to add to or vary the terms of this Warranty. Warranty terms may be modified, if at all, only in writing signed by an ASCO officer.

ASCO obligations under this Warranty are conditioned upon ASCO timely receipt of full payment of the product purchase price and any other amounts due. ASCO reserves the right to supplement or change the terms of this Warranty in any subsequent warranty offering to user or others.

In the event that any provision of this Warranty should be or becomes invalid and/or unenforceable during the Warranty period, the remaining terms and provisions shall continue in full force and effect.

This Warranty shall be governed by, and construed under, the laws of the State of New Jersey, without reference to the conflict of laws principles thereof.

This Warranty represents the entire agreement between ASCO and user with respect to the subject matter herein and supersedes all prior or contemporaneous oral or written communications, representations, understandings, or agreements relating to this subject.





Flexible Power Transfer Solutions for Commercial & Industrial Applications

ASCO Power Technologies™

ASCO SERIES 300 Power Transfer Switches

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ASCO SERIES 300 Automatic Transfer Switches

Power outages impact small and large facilities alike. ASCO SERIES 300 Automatic Transfer Switches offer rugged design and reliable performance to small and mid-size commercial and industrial facilities in packaged solutions that are easy to select, procure, install, and operate.

Every SERIES 300 generator transfer switch is engineered with ASCO's reliability expertise in a package that makes backup power accessible for small and mid-size facilities. Leveraging knowledge derived from a century of critical power transfer experience, each SERIES 300 is backed by the same ASCO technical support and service that solves the most demanding critical power challenges facing facilities today.



ASCO's SERIES 300 lineup offers flexible backup power solutions for businesses of every size.

Product Details

Transfer Switch **Overview**

Designed to Fit Anywhere

The ASCO SERIES 300 product line provides the most compact design of generator power transfer switches in the industry.

Available to mount on walls or floors, all models through 2000 amperes are designed to be completely front-accessible. This permits installation flush against walls while allowing installation of cabling and connections from the front of the switch. Cable entrance plates are standard on 1600 and 2000 amperes units; these allow use of optional side-mounted pull boxes for additional cable bending space.

- 30 through 3000 amperes in compact designs
- Up to 600 VAC, single or three phase
- · Listed to UL 1008 Standard for Safety -Transfer Switch Equipment
- True double-throw operation: The single solenoid design is inherently interlocked to prevent simultaneous connections of two power sources.
- · Will not transfer to a dead source single solenoid operator derives power from the destination source
- Easy-to-navigate 128x64 graphical LCD display with keypad provides LED indicators for switch position, source availability, not-inauto mode, and alert conditions.
- · Integrated, multilingual, user interface for configuration and monitoring
- Available Delayed Transition operation
- · Non-automatic operation can be selected without opening enclosure door
- Standard 2 year warranty. Optional 1, 2, and 3 year extensions



- - · Displays statistical ATS monitoring information
 - Built-in diagnostic functions
 - · Password protection to prevent unauthorized actions
- · Adjustable delay feature prevents nuisance transfer due to momentary utility power outages and generator dips
- · Auxiliary contacts signal position of main contacts - two for normal and two for emergency position
- Restriction of Hazardous Substances (RoHS) compliant controller

SERIES 300 Automatic Transfer Switches

- Optional Relay Expansion Module with extra relays for accessory outputs
- · Soft keys for test function and time delay bypass
- · Emergency source failure alert indication
- · Optional Historical Event Log

· Standard solid neutral terminals

Power Knowledge

Basic Automatic Transfer Switch Functions

SERIES 300 Automatic Switching Solutions

Automatic and Non-Automatic Transfer Switching

ASCO Transfer Switches are available in both automatic and non-automatic types. Both are electrically operated. For automatic transfer switches, the controller initiates transfer between power sources . For non-automatic transfer switches, a user initiates transfer using local or remote controls.

SERIES 300 non-automatic transfer switches offer the following features:

- Models range from 30 through 3000 amperes, up to 600V
- Source acceptability lights inform operator when sources are available to accept load

Power

Knowledge

Non-Automatic

and Manual

Applications

Transfer Switches

for Backup Power

- Controller prevents inadvertent operation
 under low voltage conditions
- Standard in-phase monitor for transferring motor loads betweem live sources



400 Amp, Type 1 Enclosure

Open Transition Transfer Switching

ASCO Transfer Switches are available with a standard, 2-position, open transition models that reliably transfer loads in less than 100 milliseconds. Open transition switches are suitable for a wide range of applications.

- 30 to 3000 amps
- Single-operator switching mechanism prevents simultaneous connection of both sources
- Available In-Phase Monitor can be activated for transferring motor loads

Delayed Transition Transfer Switching

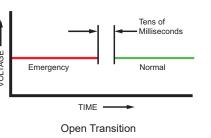
ASCO Delayed Transition Transfer Switches transfer loads between power sources using a timed load disconnect position with an adjustable delay.

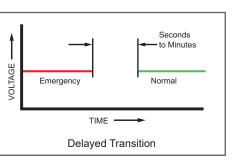
- 150 through 3000 amps
- Reliable, field-proven, dual-solenoid operating mechanism
- Mechanical interlocks to prevent simultaneous connection of both power sources
- Adjustable delay for load disconnect -0 to 5 minutes
- Non-automatic models available in manual operation configuration
- Automatic models available with load shed feature

SERIES 300 Group G Controller

The SERIES 300 Group G Controller is reliable and field-proven. It provides all of the voltage, frequency, control, timing, and diagnostic functions required for most emergency and standby power applications.

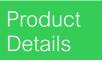








- Touch pad programming
- · Displays active timers
- On-board diagnostics
- Password protection
- Voltage and frequency sensing
- Status and control functions



🔓 <u>Group G Controller</u>

Transfer Switch Communications and Metering

Options to Customize Functionality and Increase Value

Product Details	Remote Annunciation Monitor Power Equipment Status from Anywhere
5300 SERIES Annunciators	Monitoring and control transfer switches from across the room, building, or from Internet. 5310 – LED annunciator – Single ATS 5350 – LED annunciator – up to 8 ATSs





5140 Connectivity <u>Module</u>

Communication

动

Turn Transfer Switches into Power **Information Portals**

5140 Connectivity Module – Makes status and power information from a single switch available to via ModBUS, SNMP, and web pages.

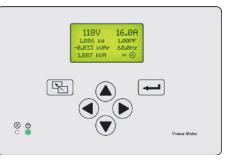




Metering

and Power Events

5210 Power Meter – Provides deeper insight into circuit status and conditions.



Transfer Switches are the Perfect Place to Monitor Power Flow, Power Conditions,

Product Details

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SERIES 300 Optional Accessories

Communic	ations
11BE	 Feature Bundle. Programmable engine exerciser with seven independenct routines run the generator with or without loads, on a daily, weekly, bi-weekly, or monthly basis. Controlled from the user interface keypad. Event log display shows the event number, time and date, type and reason (if applicable). Stores up to 300 events RS485 Communication Port enabled common alarm output contact On three-phase systems, Accessory 11BE enables line-to-line voltage imbalance sensing and three-phase sensing capabilities for the Emergency power source as well as the Phase Rotation checking for both power sources.
18RX	Relay Expansion Module provides accessory relays and includes one Form C contact for normal source availability (18G), and one Form C contact for emergency source availability (18B) (contact rating 5 amperes @ 30 VDC or @ 125 VAC resistive) (100 ma, 4 VDC min) Additional output relay is provided the default is to indicate a common alarm.
72EE	Connectivity module provides remote monitoring and control capabilities and includes accessory 11BE feature bundle
Environme	nt and Power
44A	Strip heater with thermostat for cold environment to prevent internal condensation and icing. External 120-volt AC power source required.
44G	Strip heater with thermostat, wired to load terminals on 208-240, 360-380, 460-480, 550-600 volt models. Contains wiring harnesses for all transfer switch sizes.
1UP	UPS back up power runs controller and LCD display for 30 seconds without AC power
Extension	Harness
37B	Six-foot extension harness for open type units to accommodate customer mounting of controls and switch
37C	Nine-foot extension harness for open type units to accommodate customer mounting of controls and switch
Indicators	
62W	Audible alarm with silencing feature to signal transfers to emergency. (For D-frame models, may require oversize enclosure depending on accessory combination).
Customer	Control Circuits
30A	Load-shed circuit initiated by opening of a customer-supplied contact (Open Transition model only)
30B	Load-shed circuit initiated by removal of customer-supplied control voltage (Open Transition model only)
30AA	Load-shed circuit initiated by opening of a customer-supplied contact (Delayed Transition model only)
30BA	Load-shed circuit initiated by removal of customer-supplied control voltage (Delayed Transition model only)
Surge Prot	tection
73	Surge suppressor rated 65 kA
Metering	
23GA, 23GB	Load Current Metering card measures either single or three-phase load current. Not available with Power Meter option 135L. Use 23GA for Single-Phase, 23GB for Three-Phase.

135L Power Meter on load side (includes shorting block and current transformers). Not available with Load Current Metering options 23GA or 23GB.

Withstand and Closing Ratings

	RATINGS	CURRENT LIMITING FUSES			SPECIFIC BREAKER					
FRAME	AMPERES	480V MAX.	600V MAX.	MAX. SIZE, AMPS	CLASS	240V MAX.	480V MAX.	600V MAX.		
		100kA	-	300	J			10kA		
	30	200kA	35kA	200	J	22kA	22kA			
		35kA	35kA	200	RK1					
	70-100	35kA	35kA	200	RK1	150kA	85kA	25kA		
D	70-100	200kA	35kA	200	J	IJUKA	UJKA	2384		
	150	35kA	35kA	200	RK1	150kA	85kA	25kA		
	150	200kA	35kA	200	J	IJUKA	OJKA			
	200	200kA	35kA	200	J	200kA	85kA	14kA		
	200	35kA	35kA	200	RK1					
	230	100kA	-	300	J	200kA	85kA	14kA		
E	260, 400	200kA	-	600	J	65kA	42kA	22kA		
	150, 200, 260	0 200kA	200kA	600	J	200kA	200kA	42kA		
				800	L					
J	400	400	400	200kA	200kA	600	J	65kA	50kA	42kA
J		20084	20084	800	L	OSKA	SUKA	421/4		
	000	600 200kA 200k	600 200KA	200kA	600	J	65kA 85kA	8544	42kA	
	000	200104	200104	800	L	03104	00104	72107		
Н	800-1200*	200kA	200kA	1200	L	65kA	150kA	65kA		
	1600-2000	200kA	200kA	2500	L	85kA	85kA	85kA		
G	2600-3000	200kA	200kA	4000	L	125kA	125kA	100kA		
	4000	200kA	200kA	5000	L	100kA	100kA	100kA		

Notes:

* Front connection only

All units are RMS Symmetrical Amperes

All Withstand and Closing Rating values are tested in accordance with UL 1008. See <u>ASCO Publication 1128</u> for more information.

Application requirements may permit higher WCR for certain switch sizes.

Field Conversion Kits

Kit No.	Description		
935147	Advanced Function Bundle Retrofit Kit (11BE) - See above accessory 11BE description for details.		
935148	REX Module with Source Availability Contacts (Acc. 18RX)		
935149	PS to allow controller to run for 30 seconds minimum without AC Power (Acc. 1UP)		
935150	1/3 Phase load current sensing card only (Acc. 23GA/GB)		
K613127-001	Strip Heater (125 watt) 120 volt (Acc. 44A)		
K613127-002	Strip Heater (125 watt) 208-480 volt (Acc. 44G)		
948551	Quad-Ethernet Module (Acc. 72EE)		
K609027	Cable Pull Box (1600-2000 amperes)		

Additional SERIES 300 Product Information

Transfer Switches and Panels	Controls	Technical Information
Manual Transfer Switch	Group G Controller	Withstand and Closing Ratings
Manual Transfer Switch with Quick Connects		Weights and Dimensions and Ordering Info
Quick Connect Power Panel		Drawings
Dual Purpose Quick Connect Power Panel		Wiring Diagrams

Power Knowledge

- L 1008 Transfer Switch Withstand and Closing <u>Ratings</u>
- http://www.com/ance/linearcharter/linearchar Testing for Transfer Switches

SERIES 300 Manual Transfer Switching and **Quick Connection Solutions**

ASCO SERIES 300 Manual Transfer Switching and Quick Connection Solutions offer reliable service and application flexibility for a wide range of facilities.

Manual Transfer Switches



Manual Transfer Switches with Quick Connects

100 200

- · Three-position, easy-to-use center-off switch
- Compact design easy to install and maintain
- Designed to handle demands of motors and inrush currents

Power Knowledge

(Differences Between Manual, Non-Automatic, & Automatic Transfer

Switches

Product Details

SERIES 300 Manual Transfer Switch

Quick Connect Panels



Dual-Purpose Manual Transfer Switches with Quick Connects



- Provides both supplemental backup power and load testing connectivity through a single device. · Listed to UL 891 by ETL
- Utilizes standard Series 16 Single Pole quick connect receptacles



- The ASCO SERIES 300 Manual Transfer Switch with Integrated Quick Connects provides a total temporary power connection and transfer solution
 - Enables connection and control of a temporary or portable generator
 - Provides a complete UL 1008-listed solution in a single unit

Product Details

(1) SERIES 300 Manual Transfer Switch with Quick <u>Connects</u>

- · Listed to UL 1008 Transfer Switch Accessory standard
- Utilizes standard Cam-Lok[™] receptacles for quick connections
- Standard Type 3R construction is weatherproof with or without cable
- Utilizes standard Series 16 Single Pole quick connect receptacles

Power Knowledge

(III) NEC Requirement for Permanent Manual Switching Means

Product Details

📩 SERIES 300 Quick Connect Power Panel

Product Details

SERIES 300 Dual Purpose Quick Connect Power <u>Panel</u>