

Request for Proposals Clarifications Issued for: **RFP #1509-22C OnPoint Generator Replacement** March 8, 2024

County clarifications to the RFP: None

County answers provided to contractor questions received about the RFP

- 1 Q: There is a new, existing generator pad already in place, with electrical conduits and gas in rough-in provided. What manufacturer provided the spec's for this generator pad? For what brand of generator is this pad intended?
 - A: The transfer switch and generator pad were installed after the building was completed. Attached is a specification sheet for the installation of the transfer switch which appears to indicate that the pad was perhaps designed and poured for a Kohler generator. However, OnPoint is not partial to the Kohler brand and Generac, Cummins or Kohler generator brands are all acceptable for bid provided they will fit on the existing pad and are compatible with the existing transfer switch. If work on the pad or transfer switch are needed to support the proposed generator, please describe and include any additional costs.
- 2 Q: There is a new, existing transfer switch already in place. The RFP mentions furnishing an automatic transfer switch. Are we to assume the existing transfer switch will remain and be utilized?

A:

The installtion/replacement of the existing transfer switch was included in error as it is the desire of OnPoint to use the existing transfer switch with the new generator. The specifications of the current transfer switch are attached. It is assumed that the generator proposed for installation by bidders will be compatible with the existing transfer switch without having to modify or replace it and its replacement can be omitted from bids. However, if the proposed generator is not compatible, bidders should include the cost of replacing/upgrading the transfer switch in their bid.

- 3 Q: The new generator shall be sufficient to provide power to all systems and outlets, except cooling. Include BACnet or Modbus connection to BAS. 1. Are we to assume that the generator will communicate through the BACnet or Modbus so the BMS will disable cooling during a power outage? 2. Are we to provide pricing for the BMS programming required to disable the cooling or will Allegan County handle that portion?
 - A: OnPoint is looking for a turnkey solution and it is up to the bidder to identify and propose a solution for providing generator power to all systems and outlets, except cooling (assuming there is one). The existing HVAC controls were installed by Control Solutions and it is suggested that bidders reach out to this company to discuss the current control system and how it could be configured to enable a shut-off of cooling equipment if the generator is running. Any costs for control work by bidder or any subcontractor such as Control Solutions for additional controls or programming work should be itemized separately and included in the bid. The Control Solutions point of contact for OnPoint is:

Tim Kerkstra Service Projects Engineer Control Solutions Office: 616-2478-9422 Cell: 269-207-4292 Email: tkerkstra@controlyourbuilding.com



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- 4 Q: Main Electrical Service and transfer switch have 600 amp over current protection. Are there currently any plans for consumers energy to up-size the metering at the building? Consumers is currently metering this with a 320 amp meter socket. Existing Feeder conductors are only 400 amp rated.
 - A: There are no current plans for Consumers Energy to up-size the metering at the building. If your bid requires this or the current meter limits present challenges, please provide some explanation so OnPoint can investigate with Consumers Energy or identify and include these costs in your bid.
- 5 Q: Is there an electrical one line drawing available for this site?
 - A: The entire construction plan set has been uploaded to the Bidding Opportunities website.
- 6 Q: Are specifications available for the transfer switch in place?
 - A: Transfer switch specifications are attached.
- 7 Q: Are there going to be any additional construction documents issued showing required conduit and wire sizing from the generator to the automatic transfer switch? If not, can this information be provided?
 - A: Bidders should base their bid on the assumption that appropriately sized conduit has been installed between the building and the generator pad through which they can run wiring. Wire sizing should be determined by the bidder as appropriate for connecting their proposed generator to the transfer switch.
- 8 Q: Are there going to be any additional construction documents issued showing the specific requirements (specifications) for the generator? The available options for generators vary and can greatly affect the cost depending on what is required. Additional information on what is required would help to ensure all parties are providing pricing on similar generators.
 - A: No additional construction documents are available or to be issued. OnPoint belives sufficient information is provided in the orignal RFP and through these clarifications to allow bidders to determine and propose an appropriate generator for installation.
- 9 Q: Under "2. Scope Of Services" in the RFP it states that the generator is to be sufficient to provide power to all systems and outlets except cooling systems. The current transfer switch is designed to feed all loads in the building. How are we to isolate the cooling system loads so they are not powered by the generator?
 - A: See OnPoint response to Question #3.



Architects Project N	umber:	19-127
CCM Job Number:	21527	

Job Name: ACCMHS

Submittal Title: Transfer Switches

Submittal Date: 10/22/22

Subcontractor / Supplier: Circuit Electric

Architect: Schley Nelson Architects 4200 S. 9th Street Oshtemo, MI 49077

Contractor's Stamp

X Reviewed

Rejected

Revise & Resubmit

Furnish As Corrected

Corrections or comments made on the shop drawings during this review do not relieve subcontractors / suppliers from compliance with requirements of the drawings and specifications. This check is only for review of the general conformance with the design concept of the project and general compliance with the information given in the contract documents. The subcontractor / supplier is responsible for confirming and correlating all quantities and dimensions, selecting fabrication processes and techniques of construction, coordinating his or her work with that of all other trades and performing all work in a safe and satisfactory manner.

Cornerstone Construction Management, Inc.

By Brady Zimmerman

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Spec Section: 263500

Submittal No: 55

Revision No:

Sent Date: 10/24/22

Requested Return: 10/28/22

Archi	tect's Stamp
Engin	eer's Stamp
	X No Exception Taken Rejected
	Revise and ResubmitMake Corrections Noted
	Corrections and comments made on the shop drawings during this review do not relieve contractor from
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Date 10/24/22



Submittal For Approval

✓ For Record

Dated: 10/24/2022

- To: Brady Zimmerman Cornerstone Construction
- From: Andrew Clemens

Project: ACCMHS

Spec Section Number: 263600 - Transfer Switches

Submittal Detail:

Manufacture/Supplier: ASCO / Total Energy Systems

Notes:

Byron Center, Michigan Phone: B16.878.4343 Lic. #: 6103083 Kalamazoo, Michigan Phone: 269.870.8270 Lic. #: 6103083 Lakeland, Florida Phone: 863.619.8450 Lic. #: 8C13001185



Total Energy Systems, LLC

SUBMITTAL PACKAGE

Allegan County Community Mental Health Services

CONTRACTOR / INSTALLER: CIRCUIT ELECTRIC, INC

Project Manager: Alexander Tomsheck Mobile: 616-306-9026 Email: atomsheck@totalenergysystems.com

Project Engineer: Trevor Price Mobile: 920-301-0197 Email: tprice@totalenergysystems.com

Sales Specialist: Scott Proux Mobile: 616-612-8186 Email: sproux@totalenergysystems.com



www.totalenergysystems.com





10/20/2022







ALLEGAN COUNTY COMMUNITY MENTAL HEALTH SERVICES

Bill of Materials

Reference Quote: *H1-22--488551-2-4* Sales Order: *TBD*

ATS NAME	QTY	AMPS/ POLES	BYPASS	TRANSITION TYPE	CATALOG NUMBER	ACCESSORIES	OUTLINE DRAWING	WIRING DIAGRAM	BOM NUMBER
-	1	600 / 4	NO	OPEN	J03AUSB30600NGXM	11BE,18RX,44G Activate 6DL Activate 31Z	882678-058	978745	TO BE ENGINEERED

Fault Current Rating for Service Entrance Rated 300 series units

Catalog Number	ATS Ampacity	Square D Breaker Model (Rating)	Fault Current Rating (480V)		
J3AUS/J3ADUS	450-600A	LJL (600A)	65kA		



ALLEGAN MENTAL HEALTH SERVICES Transfer Switch Details

ATS	AMPS: 060	0	QTY: 1				
Product : Series	s 300 Transfer Switches	Catalog Number		:	J03AUSB30600NGXM		
Service Voltage / Hz: 480V/	/60Hz	Optional Accessories : 11BE,18RX,44G Activate 6DL Activate 31Z			11BE,18RX,44G Activate 6DL Activate 31Z		
Bypass Isolation : Not A	pplicable	Product Description :			300 Series, Automatic Service Entrance Transfer Switch		
Switched Poles : 4		Neutral Configuration : Switched [B]			Switched [B]		
Withstand Rating : Pleas Frame	e refer to WCR chart e = J, Switch Rating = 0600	Cables and Lug	Sizes	:	See Outline Diagram		
Enclosure : 3R(M)) Secure 3R	Service		:	Three Phase, 4-wire		
Extended Warranty : Not Inc	cluded	Markings		:			

ACCESSORIES DESCRIPTIONS

ltem	Accessory Code	Description
1	6DL	Retransfer to normal mode. While in manual retransfer mode if an emergency source failure should occur and the normal source is still available manual retransfer will be automatically bypassed. A pilot light indicates manual retransfer mode.
2	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.
3	18RX	REX (Relay Expansion Module) with Normal and Emergency available output contacts (18B & 18G)
4	31Z	Load disconnect contacts, with TD which operate before/after transfer
5	44G	Strip heater w/ thermostat, wired to load terminals: 208-600 volts



GENERAL NOTES

- 1. FLOOR MOUNTED ENCLOSURE.
- 3. DESIGNED FOR FRONT ACCESS ONLY.

- 6. SECTION 1 & SECTION 1T SHIP AS 1 UNIT.

SYSTEM NOTES

- 3. GROUND: 20% RATED.
- 4. NEUTRAL: 100% RATED.

TRANSFER SWITCH

- 1. J FRAME AUTOMATIC TRANSFER SWITCH.
- 2. TRANSFER SWITCH RATING: 600 AMPS
- A. SOLID NEUTRAL
 - B. SWITCHED NEUTRAL POLE
- C. OVERLAPPING NEUTRAL POLE
- 4. UL 1008

TERMINATIONS 600A

- GROUND: (6) 1/0 600MCM
- 2. OPTIONAL LUGS MAY BE SUPPLIED.

- 2. U.L. 489

FINAL APPROVAL

 \cap TYPE 3R CONSTRUCTED FROM CODE GAUGE STEEL. FINISH: TYPE 3R, ANSI 61 GRAY POLYESTER SEMI GLOSS ELECTROSTATIC POWDER. TYPE 3RX EXTERIOR CONSTRUCTED FROM CODE GAUGE STAINLESS STEEL. (R) EXTERIOR CONSTRUCTED FROM TYPE 304 STAINLESS STEEL. (S) EXTERIOR CONSTRUCTED FROM TYPE 316 STAINLESS STEEL. 2. EXTERIOR DOORS HAVE PADLOCKABLE HANDLES WITH 3-POINT LATCH \square 4. RECOMMENDED CLEARANCES: FRONT: 38" REAR: NONE. 5. LIFTING PLATES: SECTIONS ARE SUPPLIED WITH LIFTING PLATES. INSPECT PLATES FOR DAMAGE AND TORQUE BOLTS TO 45 FT LBS BEFORE USE. REFER TO ANSI/NEMA PB 2.1 FOR PROPER HANDLING OF EQUIPMENT. AFTER INSTALLATION OF SECTION, REMOVE LIFTING PLATES. REINSTALL BOLTS INTO EXTERIOR HOLES AND TORQUE TO APPROXIMATELY 20 FT LBS. 1. SYSTEM RATING: 600 AMPS, 30, 4W OR 10, 3W. SHORT CIRCUIT RATING: 50,000 RMS SYM @ 480V. THE EMERGENCY SOURCE MUST BE PROTECTED BY A REMOTE OVERCURRENT PROTECTION DEVICE AS LISTED ON THE MARKINGS ON THE TRANSFER SWITCH. 2. ALL BUS IS SILVER-PLATED COPPER, BASED ON 1000A PER SQ. IN. DENSITY. 5. APPLICABLE LABEL(S): U.L. 891, SUITABLE ONLY FOR USE AS SERVICE EQUIPMENT. С SHORT CIRCUIT RATING WHEN PROTECTED BY A CIRCUIT BREAKER TIME RESPONSE, MAXIMUM 0.05 SECONDS: 42,000 RMS SYM @ 480V (SWITCHED AND SOLID NEUTRAL). 35,000 RMS SYM @ 480V (OVERLAPPING NEUTRAL). SPECIFIC BREAKER RATING: 50,000 RMS SYM @ 480V. 3. A FULL RATED NEUTRAL CONNECTION FOR EACH SOURCE AND THE LOAD IS OPTIONAL. WHEN PROVIDED IT IS IN ONE OF THE FOLLOWING FORMATS. В 1. SUPPLIED WITH MECHANICAL (SCREW TYPE) LUGS FOR CU/AL CABLE. NORMAL: (2) 2/0 - 500MCM PER PHASE & NEUTRAL LOAD: (2) #2 - 600 MCM PER PHASE & NEUTRAL EMERGENCY: (2) #2 - 600 MCM PER PHASE & NEUTRAL A. SUITABLE WIRE BENDING SPACE IS PROVIDED AS PER NEC. CIRCUIT BREAKER: ITEM 52U 1. SQUARE "D" 80% RATED TYPE 'LJL', 600AF/600AT MANUALLY OPERATED, ELECTRONIC TRIP WITH LONG DELAY AND INSTANTANEOUS TRIP SETTINGS. SHORT CIRCUIT RATING: AIC 65,000 RMS SYM @ 480V. 290369 | RP | RN |07-14-2 NEW ISSUE REV. TO ECN NO. BY APP. DATE SHEET PROJECT NAME: $\bigcirc \bigoplus$ OUTLINE MOUNTING JAUS 600A, LJL SERVICE ENTRANCE BREAKER ON NORMAL THIRD ANGLE PROJECTION 96 X 41 X 33, SECTION 1 AND 17 TYPE 3R/3RX MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-1-003. FOR PLASTIC PARTS SEE MP-1-055 DATE BY COMPUTER GENERATED DRAWING DRAWN BY | RP | 07-14-21 ASSEM. REF. NO. SCALE 1:1 SIZE CHECKED RN PROPERTY OF ASCO POWER TECHNOLOGIES. USE PERMITTED FOR OUR DWG. NO. PROJECT WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED. APPROVAL <u>882678-058</u>

ASCO Power Technologies, l.p.

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

PRAWING - ECN 290369 TOF 1

ASCO

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/ R	AUTO" CONTAGE E) IS INCLUD "OP3" WILL DPERATE AS "	CTS ARE AV DED IN THE PROVIDE SI "COMMON A	AILABLE WHEN TRANSFER SW GNAL FUNCTIC LARM" OR "NO	I OPTION/ /ITCH ONS WHEI OT IN AU	AL A N C N C TO". W	<u>XTERNAL FE</u> MLY) – RE AUSES ENG CTIVATES TH ETRANSFER ONNECTED /ILL AUTOMA	EATURE 17: QUIRES A BINE START HE FEATURE IN THE E TO EMERGE	REMOTE CUSTOME AND TRA 5 3A "RE VENT THA ENCY ANE TRANSFE	TRANSFE R SUPPLI NSFER TO TRANSFER T THE EN T THE EU THE CU R TO THE	ER TO EMERGENCY FEATURE (FOR AUTOMATIC TRANSFER TYP IED, NORMALLY CLOSED CONTACT. OPENING OF THE CONTAC O THE EMERGENCY SOURCE. RE-CLOSURE OF THE CONTAC R TO NORMAL (IF JUST TEST) TIME DELAY PRIOR TO MERGENCY SOURCE FAILS WHILE THE TRANSFER SWITCH IS JSTOMER SUPPLIED CONTACT IS OPEN, THE TRANSFER SWITC E NORMAL SOURCE.
	30 VDC MAX	(IMUM, 100	mA AT 5 VDC	C MINIMUI	и. Е	XTERNAL FE	EATURE 6B:	REMOT	E BYPASS	S OF RETRANSFER TO NORMAL TIME DELAY – REQUIRES A
C 5 -	ONTROLLER F -400 FOR SE	OR AUTOMA ETTING INFO	TIC & NON-A RMATION.	UTOMATIC	C R	USTOMER S ETRANSFER	SUPPLIED, N TO NORMA	NORMALLY	CLOSED	CONTACT. OPENING OF THE CONTACT BYPASSES FEATURE 3
F		OMPATIBIL	ITY		R	WITCHES, P	SER'S GUIL PART NUMBE	E, ASCO Er 38133	GROUP (33-400 F	G CONTROLLER FOR AUTOMATIC & NON-AUTOMATIC TRANSFE FOR SETTING INFORMATION.
S	EFUL WHEN DS;	REQUIRED 1	TO EXTEND TH	IE FOLLO	WING					
Л. ?С	AL SOURCE (SENCY SOURC	OUTAGES CE OUTAGES								
F	UL WHEN TH	E TRANSFER	R SWITCH IS U TINUE COMMUN	JSED WIT	н					
۰۱	IDED TO THE SE OF;	CONTROLL	ER, UNTIL THE	E NORMAI	SOURCE					
<u>`</u>	WITH ACCES	SSORY 18R>	(RELAY EXP	ANSION M	IODULE)					
R	UPTIBLE POW	VER SUPPLY	MODULE)							
ו[2∠ ד	BE USED TO DED IN THE T 4 VDC POWEF IONALLY, JUM E) TO ENABL	POWER THI TRANSFER S R SUPPLY F IPERS MUST LE THIS FUN	E CONTROLLER WITCH ASSEME UNCTIONALITY BE RECONFIC NCTION AS FOI	R WHEN / BLY. OUT WHEN IT GURED O LLOWS;	ACCESSORY PUT S FEATURE N					
V T	HEN EITHER THER SOURCE OM THE EXT	THE NORMA E IS AVAILAI ERNAL POW	L SOURCE OR BLE. THE "OP2 ER SUPPLY TO	2 EMERGE 2" N/C (D THE C(NCY CONTACT DNTROLLER.					
) :	ONTROLLER F SETTING INFO	OR AUTOMA	TIC & NON—A	UTOMATIC	TRANSFER					
)[<u>SUPPLY):</u> ED IN THE TF (APPROXIMAT	RANSFER SW ELY 3 MINU	VITCH ASSEMBI ITES).	LY, THE	CONTROLLER					
F		ERING								
)	OF THE TRAN R DISPLAY OI	NSFER SWITC N THE GROU	CH ASSEMBLY, JP G CONTRO	THREE F	PHASE					
	ONTROLLER F	FOR AUTOMA I ON USE.	TIC & NON-A	UTOMATIC	TRANSFER					
)	N SOFTWAF	RE BUNDLE	E NH ASSEMBLY							
7	M THE FOLLO	DWING FUNC	TIONS;	A TOOK						
Şł	ROUP G CON	TROLLER "O	P1"OUTPUT.							
2	ONTROLLER F	FOR AUTOMA I ON THESE	TIC & NON-A FUNCTIONS.	UTOMATIC	TRANSFER					
;I	JFFIXES						F		ON OF C	CATALOG NUMBER CODES
Ì	CONTROLLER	OPTIONAL	ENCLOSURE	JTRAL TYPE	VOLTAGE 3 PHASE (3	CODES OR 4 WIRE)			ENCLOSURE CODES	
-				CODE	DESCRIPTION	CODE	NOMINAL	CODE	TYPE	DESCRIPTION
1		1				1	+	1	I	

							VOLIAGE				. BY				
				 B	SOLID SWITCHING			BLANK C	1	OPEN TYPE (NO ENCLOSURE) GENERAL PURPOSE, INDOOR	DATE _				
			C F			C D F	208 220 230	F	3R	OUTDOOR, RAINPROOF, SLEET & ICE RESISTANT	FORM F	REV E			
	G	Х	H			F	240	H H	4 4X	TYPE 4 PLUS CORROSION RESISTANCE (STAINLESS STEEL)	PROJECT	' NAME:	;		
						G H	380	L	12	INDOOR, INDUSTRIAL ENVIRONMENTS, OILTIGHT & DUSTTIGHT	WIRING	ı F			DIAGRAM
			N			J	400			(SECURE ENCLOSURES)	300 SF	ERIES	J3ATS,	/J3NTS, THREE PH	ASE 600
.			P				440	М	3R	OUTDOOR, RAINPROOF, SLEET & ICE RESISTANT	J" FR	AME,	GROUP	G CONTROLS	
]			Q			M	460		4	INDOOR/OUTDOOR, WATERTIGHT & DUSTTIGHT		BY	DATE	MANUFACTURING TOLERANCE ACCORDANCE WITH ASCO PROCI	S TO BE IN EDURE MP-I-003.
						N	480			INDOOD INDUSTRIAL ENVIRONMENTS OUTICUT & DUSTICUT	DRAWN BY	SDH	5/6/13	FOR PLASTIC PARTS SEE	MP-I-055
						P	550* 575*			INDOUR, INDUSTRIAL ENVIRONMENTS, OILTIGHT & DUSTTIGHT	CHECKED			PROPERTY OF ASCO POWER	ECHNOLOGIES. US
		BLANK	BLANK			R	600*				APPROVAL			WORK UNLT. ALL RIGHTS OF	DESIGN OR INVEN
		FOR NONE	FOR OPEN TYPE								FINAL APPROVAL	SDH	5/6/13	ASCO [®] ASC	O Power Tec ham park, new j
			5							- ζ			I	2	
	I		\bigcirc					I			I				

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GROUP G CONTROLS	
	D
СН	
3A	
ER	
	←
	B
	266495 MKA JPB 04/10/17 SEE ECN 251210 AL MM 10/17/17/14
CATALOG NUMBER	D SEE ECN 247770 SDH SDH 4/14/14
ASCO ^{® CERTIFIED TO} s.o.	SEE ECN 246325 AE BK 01/16/14
BY DATE	SEL LCN A 242580 SDH SDH 5/30/13 SEE ECN
FORM REV E	242255 SDH SDH 5/6/13 ISSUE
PROJECT NAME: HT WIRING DIAGRAM	REV. 10 ECN NO. BY APP. DATE ' `
300 SERIES J3ATS/J3NTS, THREE PHASE 600 AMPS "J" FRAME, GROUP G CONTROLS	THIRD ANGLE PROJECTION
BY DATE MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-I-003. DRAWN BY SDH 5/6/13 FOR PLASTIC PARTS SEE MP-I-055 ASSEM. HT CHECKED DROPERTY OF LODE DOWNED TO HERE AND ADDRESS OF LODE DOWNED TO HERE ADDRE	REF. NO. COMPUTER GENERATED DRAWING
PROJECT APPROVAL SDH 5/6/13 APPROVAL SDH 5/6/13 ASCO POWER ASCO POWER TECHNOLOGIES. USE PERMITTED WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RE	DWG. NO. 978745
AJUU FLORHAM PARK, NEW JERSEY 07932	2 U.S.A. $ PREV. E NO. 266495 10F 6$



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OPTIONAL ACCESSORY 18RX (RELAY EXPANSION MODULE)



OPTIONAL ACCESSORY 18RX1 (SECOND RELAY EXPANSION MODULE)



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.

OPTION RELAY "OP3" (5 AMPS, 30 VDC MAX.) (100 mA, 5 VDC MIN.) REFER TO USER'S GUIDE PN 381333-400 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.)





AVAILAB



	2	1	
TED ON	N RELAY EXPANSION MODULE OPTION RELAY "OP2" AS EXTERNAL POWER SUPPLY INPUT		D
+ 24	"1G" SET JUMPERS AS FOLLOWS; REMOVE JUMPERS "J1" 1–2 & "J1" 3–4 CONNECT JUMPERS "J1" 5–7 & "J1" 6–8		
COMN	AON (24 VDC NOM., 15 W MAX.) INPUT RANGE: 21.6 VDC MIN 27.6 VDC MAX. REFER TO USER'S GUIDE PN 381333-400 FOR SETTING INFORMATION.		
<u>F</u> BLE WITH REF	RS485 SERIAL COMMUNICATIONS OF H OPTIONAL ACCESSORY 11BE: FOUR-FUNCTION FER TO USER'S GUIDE PN 381333-400 FOR SETTING INF	PTION SOFTWARE BUNDLE FORMATION.	
ATED O	N GROUP G CONTROLLER		
	SHIELD	 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: 	
	Rx- COMMUNICATIONS DEVICES	(STANDARD 80°C) BELDEN 9842 OR 9829 OR ALPHA 6202C OR 6222C (PLENUM RATED) BELDEN 89729 OR 82729 OR	С
\(, Tx−	J ALPHA 58902	
			В
		266495 MKA JPB 04/10/17 SEE ECN	
		251210 AJ MM 10/17/14 SEE ECN 247770 SDH SDH 4/14/14	
		B 246325 AE BK 01/16/14 SEE ECN A 242580 SDU SDU 500 (13)	
		A 242580 SDH SDH 5/6/13 SEE ECN 242255 SDH SDH 5/6/13	٨
PR	OJECT NAME:	REV. TO ECN NO. BY APP. DATE	A
30 "J	0 SERIES J3ATS/J3NTS, THREE PHASE ⁷ FRAME, GROUP G CONTROLS	600 AMPS THIRD ANGLE PROJECTION	
DRA CHE PRO	WAINUPACTURING TOLERANCES TO E WAINUPACTURING TOLERANCES TO E WAINUPACTURING TOLERANCES TO E ACCORDANCE WITH ASCO PROCEDURE I FOR PLASTIC PARTS SEE MP-I- ECKED DECKED DECKED DECKED DECKED	MP-I-003. ASSEM. REF. NO. COMPUTER GENERATED DRAWING SCALE NONE SIZE DS DWG. NO.	
FINA APP	ROVAL SDH 5/6/13 ASCO P FLORHAM PA	Power Technologies, L.P. RK, NEW JERSEY 07932 U.S.A. DRAWING E CN 266495 SHEET REV. 20F 6	
	2	1	







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1>-	-HARNESS LOCATOR	BOX CHECKED IF HARNESS IS MODIFIED	s	
WIRE	HARNESS 781247		CLR	AWG
No.	P) MAIN TS		OLIX	
1	P-1,TS-18			18
2	P-2.TS-A			
	P = 3TS = 14			
4	$P_4 T_{S_3}$			
	[-4, 13-3]			
4	15-3,15-15			
5	P-5,IS-B			
6	P-6,TS-7			
6	TS-7,TS-19			
7	P-7,TS-5			
7	TS = 5.TS = 17			
8	P = 8 TS = 24			
	$TS_{24} TB_{1}$			
0	[13-2+,10-1]			
9	P-9,15-25			
9	TS-25,TB-2			
10	P-10,TS-21			
11	P-11.TS-2			1
12	P - 12 TS - 1			
12	$T_{2,13}$			
17	13 - 1, 13 - 13			
13	r-13,13-22			
14	<u> P-14,IS-23</u>			
<u> 15</u>	<u>P-15,TS-16</u>			
16	P-16,TS-20			
17	P-17.TB-3			1
18	P = 18 TS = 6			
10	P_{10}			
19	r - 13, 13 - 3			
20	<u> M-20,15-10</u>			
21	<u> P-21,IS-11</u>			
22	P-22,TS-4			
23	P-23,TS-8			
24	P-24.TS-12			1
25	TS-27 TR-4			1
20	TS-28 TB-5			
- 20				
<u> </u>	113-23,10-0			
<u></u>				
- 32	15-51,18-8			
<u> </u>	<u> IS-32,TB-9</u>			l
	REMOVE WIRES			
				1
				1
				1
				1
				l
				1
				1
				-
				1
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$\langle 2 \rangle$ -	- HARNESS LOCATOR BOX CHECKE	ıs	
WIRE	HARNESS 309320-005		
No.	(Px,Jx) OPTIONAL 8" EXTENSION HARNESS	CLR	AWG
1	Px-1,Jx-1		16
<u> </u>	Px-3.Jx-3		
4	Px-4,Jx-4		
5	Px-5,Jx-5		
6	Px-6, Jx-6		
8	Px = 8.1x = 8		
9	Px-9,Jx-9		
10	Px-10,Jx-10		
11	P_{x-11} , J_{x-11}		
13	Px-13,Jx-13		
14	Px-14,Jx-14		
15	Px - 15, Jx - 15		
24	Px = 10, Jx = 10 Px = 17, Jx = 17		
25	Px-18,Jx-18		
26	Px-19,Jx-19		
27	Px-20, Jx-20		
28 29	Px-21,Jx-21 Px-22,Jx-22		
30	Px-23,Jx-23		
31	Px-24,Jx-24		
	REMOVE WIRES		
	ADD WIRES		

3-	
WIRE	OPTIONAL ACCESS
No.	(CT,SB,CP(23G)
300	CT1-X1,SB-1
301	CT2-X1,SB-3
302	CT3-X1,SB-5
300	SB-2,CP(23G)-TB
301	SB-4,CP(23G)-TB
302	SB-6,CP(23G)-TB
303	CT1-X2,CT2-X2
303	CT2-X2,CT3-X2
303	CT3-X2,SB-7
303	SB-7,EQUIP-GND
303	SB-8,CP(23G)-TB

4-	HARNESS LOCAT
WIRE	OPTIONAL AUXILIARY
No.	(TS,TB) FIELD TER
35	TS-33,TB-10
36	TS-34,TB-11
37	TS-35,TB-12
- 38	TS-36,TB-13
40	TS-37,TB-15
39	TS-38,TB-14

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WIRE			
No.	ADDITIONAL WIRES	CLR	4
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			\frown
			C
			F
			R
		266495 MKA JPB 04/10/17 SEE ECN	
		D 251210 AJ MM 10/17/14 SEE ECN	
		C 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	
	OTECT NAME.	242255 SDH SDH 5/6/13 ISSUE ISSUE ISSUE ISSUE ISSUE ISSUE	А
PR WI	RING DIAGRAM		
30 "J'	O SERIES J3ATS/J3NTS, THREE PHASE 600 AMPS 'FRAME, GROUP G CONTROLS	THIRD ANGLE	
DRA	BY DATE MANUFACTURING TOLERANCES TO BE IN ACCORDANCE WITH ASCO PROCEDURE MP-I-003. FOR PLASTIC PARTS SEE MP-I-055 ASSEM. REF. NO.	COMPUTER GENERATED DRAWING	
CHE PRC APF	CKED PROPERTY OF ASCO POWER TECHNOLOGIES. USE PERMITTED FOR OUR UJECT WORK ONLY. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.	DWG. NO. 978745	
FIN/ APP	ROVAL SDH 5/6/13 ASCO Power Technologies, L.P. FLORHAM PARK, NEW JERSEY 07932 U.S.A.	DRAWING E ECN 266495 SHEET REV. E NO. 266495 6 OF 6	
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SERIES 300 Service Entrance Power Transfer Switch

Data Sheet

The ASCO Service Entrance Power Transfer Switch combines automatic power switching with the necessary disconnecting, grounding, and bonding required for use as service entrance equipment. The power transfer switch meets all National Electrical Code requirements for service entrance use.

Product Features:

- Suitable for use as service entrance equipment.
- Sizes available from 70 3000 amps, 600 VAC, 50 or 60 Hz, single or three phase.
- 70 400 Ampere listed to UL 1008. 600 - 3000 Ampere listed to UL 891.
- Automatic Transfer Switch is listed to UL 1008 for total system loads.
- Silver plated copper ground and neutral bus with solderless screw type terminals.
- Ground fault trip protection provided on sizes 1000 amps and above.
- Available with solid or switched neutral.



ASCO SERIES 300 SE Rated 800 amperes Type 1 enclosure



ASCO SERIES 300 SE Rated 200 amperes in Type 3R enclosure





Products 400 amperes or less, utilize a single enclosure including a service (utility source) disconnect circuit breaker, as well as the power transfer switch, grounding and bonding provisions.

Products 600 amperes and above, utilize a multi-section switchboard construction including a service equipment section containing the service (utility source) disconnect circuit breaker, grounding, and bonding provisions. A second section contains the power transfer switch.



ASCO SERIES 300SE products use two types of construction.

To order an ASCO SERIES 300SE Power Transfer Switch, complete the following catalog number:

J -	+ 03AUS ·	• В -	- 3 •	0600 •	- N -	+ GX	+ C
Frame	Product Type	Neutral Code	Phase Poles	Amperes Continous Rating	Voltage Code	Controller Code	Enclosure
D = 70 - 225 Amp J = 150 - 600' Amp H = 800 - 1200 Amp G = 1600 - 3000 Amp	03AUS = Automatic 03NUS = Non-Automatic 3ADUS = Automatic Delayed Transition 3NDUS = Non-Automatic, Delayed Transition	A = Solid Neutral B = Switched Neutral	2 3	0070, 0100, 0150, 0200, 0225 ⁴ , 0250 ⁴ , 0400, 0600, 0800, 1000, 1200, 1600, 2000 2500, 3000		G = No Optional Accessories GX = Optional Accessories	C = Type 1 (Standard) M = Type 3R Secure Double Door P = Type 4 ² , 8 Secure Double Double Door 304 SS Q = Type 42 ^{5, 8} Secure Double Door 316 SS S = Type 3RX ^{5, 6} Secure Double Door 316 SS V = Type 4X ^{5, 8} Secure Double Door 316 SS
Notes: 1 115-120 vol	It available 150-400 amperes for 3AUS 3NU	Sonly		E Turne 216 etci	inlana ataol in	the standard. It provides an improved rade	ation in correction of colt

1. 115-120 volt available 150-400 amperes for 3AUS, 3NUS only. Available for 70-1600 amperes, use type 3R for 2000-3000 ampere applications. A solid neutral is provided as standard. 200, 225 ampere rated switches suitable for use with copper cable only. Refer to paragraph 310.15 of the NEC for additional information.

Type 316 stainless steel is the standard. It provides an improved reduction in corrosion of salt and some chemicals. It is the preferred choice for marine environments.
 Available only on switches rated 1600, 2000, 2600 and 3000 amperes.
 J 150-225 ampere for SENES 3ADUS/3NDUS only.

8. Available only on switches rated 70 - 1600 amperes

ASCO SERIES 300SE Power Transfer Switch Dimensions and Shipping Weights

UL Type 1 Enclosure⁴

3

UL Type 3R Enclosure⁴

Switch Rating Amos	Phase Ne	Neutral		mensions, In. (mm) Approx. Shipping			Dimensions, In. (mm) Approx. Shipping			Switch Rating Amps	Switch Poting Amos	Switch Poting Amos	Switch Pating Amps		Neutral			m)	Approx. Shipp
Switch Rating Amps		Code		Height	Depth	Weight Lb. (kg)	Switch Rating Amps	Poles	Code		Height	Depth	Weight Lb. (
	2	A	36 (914)	48 (1219)	13 (330)	400 (185)		2	A	36 (914)	48 (1219)	16 (406)	500 (232)						
70, 100, 150,	2	В	36 (914)	48 (1219)	13 (330)	410 (189)	70, 100, 150,	2	В	36 (914)	48 (1219)	16 (406)	520 (241)						
200, 225	3	A	36 (914)	48 (1219)	13 (330)	410 (189)	200, 225	3	A	36 (914)	48 (1219)	16 (406)	520 (241)						
	3	В	36 (914)	48 (1219)	13 (330)	430 (198)	1	3	В	36 (914)	48 (1219)	16 (406)	530 (246)						
	2	A	36 (914)	48 (1219)	13 (330)	400 (185)		2	A	41 (1041)	95.5 (2424)	33 (838)	500 (232)						
150, 200, 225,	2	В	36 (914)	48 (1219)	13 (330)	408 (188)	150, 200, 225,	2	В	41 (1041)	95.5 (2424)	33 (838)	520 (241)						
3ADUS/3NDUS Only	3	A	36 (914)	48 (1219)	13 (330)	408 (188)	3ADUS/3NDUS Only	3	A	41 (1041)	95.5 (2424)	33 (838)	520 (241)						
	3	В	36 (914)	48 (1219)	13 (330)	420 (193)		3	В	41 (1041)	95.5 (2424)	33 (838)	530 (246)						
	2	A	42 (1067)	48 (1219)	15.5 (394)	420 (193)		2	A	42 (1067)	48 (1219)	18 (487)	500 (232)						
0501 4001	2	В	42 (1067)	48 (1219)	15.5 (394)	430 (198)	0501 4001	2	В	42 (1067)	48 (1219)	18 (487)	520 (241)						
250', 400'	3	A	42 (1067)	48 (1219)	15.5 (394)	430 (198)	250', 400'	3	A	42 (1067)	48 (1219)	18 (487)	520 (241)						
	3	В	42 (1067)	48 (1219)	15.5 (394)	450 (207)		3	В	42 (1067)	48 (1219)	18 (487)	530 (246)						
	2	A	38 (965)	91 (2311)	28 (711)	860 (396)		2	A	41 (1041)	95.5 (2425)	33 (838)	1200 (555						
0001	2	В	38 (965)	91 (2311)	28 (711)	870 (401)	0001	2	В	41 (1041)	95.5 (2425)	33 (838)	1220 (564)						
6001	3	A	38 (965)	91 (2311)	28 (711)	870 (401)	600'	3	A	41 (1041)	95.5 (2425)	33 (838)	1220 (564)						
	3	В	38 (965)	91 (2311)	28 (711)	880 (405)		3	В	41 (1041)	95.5 (2425)	33 (838)	1240 (574)						
	2	A	38 (965)	91 (2311)	28 (711)	1460 (673)		2	A	38 (965)	91 (2311)	28 (711)	1520 (703)						
0001	2	В	38 (965)	91 (2311)	28 (711)	1470 (677)	0001	2	В	38 (965)	91 (2311)	28 (711)	1540 (712)						
800'	3	A	38 (965)	91 (2311)	28 (711)	1470 (677)	800'	3	A	38 (965)	91 (2311)	28 (711)	1540 (712)						
	3	В	38 (965)	91 (2311)	28 (711)	1480 (682)		3	В	38 (965)	91 (2311)	28 (711)	1580 (731)						
	2	A	38 (965)	91 (2311)	48 (1218)	1460 (673)		2	A	38 (965)	91 (2311)	48 (1218)	1520 (703)						
40001 40001	2	В	38 (965)	91 (2311)	48 (1218)	1470 (677)	40001 40001	2	В	38 (965)	91 (2311)	48 (1218)	1540 (712)						
1000', 1200'	3	A	38 (965)	91 (2311)	48 (1218)	1470 (677)	1000', 1200'	3	A	38 (965)	91 (2311)	48 (1218)	1540 (712)						
	3	В	38 (965)	91 (2311)	48 (1218)	1480 (682)	1	3	В	38 (965)	91 (2311)	48 (1218)	1580 (731)						
40001 00001	3	A	38 (965)	91 (2311)	48 (1218)	1580 (727)		3	A	38 (965)	91 (2311)	48 (1218)	2200 (1018						
1600', 2000'	3	В	38 (965)	91 (2311)	48 (1218)	1680 (773)	1600', 2000'	3	В	38 (965)	91 (2311)	48 (1218)	2240 (1036						
05001 00001	3	A	38 (965)	91 (2311)	72 (1829)	4590 (2111)	05001 00001	3	A	38 (965)	91 (2311)	72 (1829)	5280 (2479						
1000', 1200' 1600', 2000' 2500', 3000'	3	В	38 (965)	91 (2311)	72 (1829)	4690 (2157)	2500', 3000'	3	В	38 (965)	91 (2311)	72 (1829)	5380 (2475						

Unit is designed for top and bottom cable entry for all services and load. Enclosures for 600 - 3000 amps are freestanding. A space heater accessory 44/G is required with all service entrance (Type 3R) switches to help reduce 1.

condensation and protect the circuit breaker. It is recommended when environmental enclosures (Type 4, 12) are ordered for installation outdoors. See Optional Accessories page for space heater options (acc. 44G). Dimensional data is approximate and subject to change. Certified dimensions available upon request. 4

Extended Warranties for SERIES 300SE Transfer Switches (3AUS/3NUS/3ADUS/3NDUS)

SERIES 300SE External Power Connections Sizes UL-Listed Solderless Screw-Type Terminals

Switch Rating	Ranges of AL-CU Wire Sizes
70, 100, 150, 200², 225²	One #14 to 4/0 AWG
150³, 200³, 225³,	One #4 AWG to 600 MCM
250, 400	Two 1/0 to 250 MCM
600	Two 1/0 to 600 MCM
800, 1000, 1200	Four 1/0 to 600 MCM
1600, 2000	Six 1/0 to 600 MCM
2500	Twelve 3/0 to 750 MCM
3000	Twelve 3/0 to 750 MCM

Notes: 1. All SERIES 300SE switches are furnished with a solid neutral plate

- (unless switched neutral configuration is specified) and terminal lugs. 2. 200 and 225 ampere rated switches for use with copper cable only.
- Refer to paragraph 310.15 of the NEC for all additional information.
- J 150-225 ampere for SERIES 3ADUS/3NDUS only.
 Use wire rated 75 degrees minimum for all power connections.

5. Refer to the outline drawing for maximum power cable connections for circuit breaker.

1 Year Extension (Total of 3 Years)

2 Year Extension (Total of 4 Years) 3 Year Extension (Total of 5 Years) Notes: 1. Standard warranty is (24) months, 2 years from date of shipment, extended warranty is in addition to

the two years, for a total of 3, 4 or 5 years, except where the warranty period for the circuit breaker shall be limited to 24 months from date of shipment from ASCO. 2. Refer to Publication 3223 for warranty terms and conditions.

SERIES 300SE AIC Breaker Rating¹

Switch Rating	AIC Rating (KA)	Voltage
70, 100, 150, 200, 225	25,000	480
150, 200, 225 Series 3ADUS/3NDUS Only	35,000	480
250, 400, 600	35,000	480
800	65,000	480
1000, 1200	50,000	480
1600, 2000	65,000	480
2500, 3000	100,000	480

Notes: 1. Refer to SERIES 300 Publication 1195 for switch ratings.

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