

DESCRIPTION:

ECS-5121-BB-AA-TT

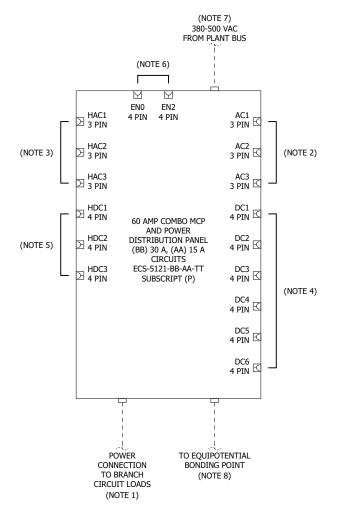
2021-09-24

	SECTION	REV	SHEET	DESCRIPTION
Α	REFERENCE	В	1	TITLE AND REFERENCE SHEET
		В	2	TABLE OF CONTENTS
İ		В	3	REVISION SUMMARY SHEET
С	INTERCONNECT		1	INTERCONNECT
Е	MAGNETICS		1	380 - 500 VAC POWER DISTRIBUTION
			2	380 - 500 VAC POWER DISTRIBUTION
			3	380 - 500 VAC POWER DISTRIBUTION
İ			4	120 VAC POWER ABOVE DISCONNECT
			5	120 VAC POWER BELOW DISCONNECT
			6	24 VDC POWER ABOVE DISCONNECT
			7	24 VDC POWER BELOW DISCONNECT
F	I/O		1	CHASSIS 1 I/O SLOTS 0 - 1
			2	CHASSIS 1 I/O SLOTS 2 - 3
Х	ENCLOSURE	В	1	ENCLOSURE LAYOUT - FRONT
		Α	2	ENCLOSURE LAYOUT - SIDE
		В	3	ENCLOSURE LAYOUT - TOP AND INSIDE BOTTOM
		В	4	TAG DETAILS
		В	5	TAG DETAILS
			6	SUBPLATE DETAIL
		В	7	SUBPLATE LAYOUT
		В	8	SUBPLATE DETAIL VIEW
			9	SUBPLATE DETAIL VIEW
			10	RECEPTACLE PIN CHART
		Α	11	ENCLOSURE FOOTPRINT
YA	BILL OF	В	1	BOM CHANGE SHEET: ECS-5121-BB-AA-TT-BOM (BASE BOM)
	MATERIAL	В	2	ECS-5121-BB-AA-TT-BOM (BASE BOM)
		В	3	ECS-5121-BB-AA-TT-BOM (BASE BOM)
		В	4	ECS-5121-BB-AA-TT-BOM (BASE BOM)
YB	VARIABLE BOM		1	BOM CHANGE SHEET: ECS-5121-BB-AA-TT-BOM (AA OPTION)
			2	ECS-5121-BB-AA-TT-BOM (AA OPTION)
YC	VARIABLE BOM		1	BOM CHANGE SHEET: ECS-5121-BB-AA-TT-BOM (BB OPTION)
L			2	ECS-5121-BB-AA-TT-BOM (BB OPTION)
YD	VARIABLE BOM		1	BOM CHANGE SHEET: ECS-5121-BB-AA-TT-BOM (TT OPTION)
L			2	ECS-5121-BB-AA-TT-BOM (TT OPTION)
YZ	DEVICE LIST	В	1	DEVICE LIST
		В	2	DEVICE LIST
		В	3	DEVICE LIST
-				

SECTION	REV	SHEET	DESCRIPTION

GM GM - STANDARD	GM ENGINEER: HARDWARE	DESIGN SOURCE:	DESIGN LEADER: GREG		60 AMP COMBO MCP AND POWER DISTRIBUTION PANEL (BB) 30 A, (AA) 15 A CIRCUITS	SYSTEM/TOOL NO:	RELEASE DATE: 2020-03-31	REVISION LETTER: B	SECTION S LETTER: N		
THIS MATERIAL IS THE PROPERTY OF GENERAL MO USE SUCH MATERIAL FOR ANY PURPOSE OTHER TH	TEAM TORS CORPORATION. NO RI		DOPPKE	SHEET DESCRIPTION:	TABLE OF CONTENTS	DRAWING NUMBER: ECS-5121-BB-AA-TT		DATE: 2021-09-2	4 A	2 OF	3

EV	SHEET AFFECTE	T CHANGE DESCRIPTION	DATE	CHANGE CODE	CHANGED BY	REV	/ SHEET AFFECTED	CHANGE DESCRIPTION	DATE	CHANGE CODE	CHANGED BY	
A	ATTECTED	- DRAWING PACKAGE REVISION LEVEL WAS REL LAST PART SELECTED WITH WAS GM_EPARTSDB_202003.	2021-01-12		DB		AFFECTED			CODE	ы	
	A2	- UPDATED TABLE OF CONTENTS TO REVISION A.										
	A2 A3	- SHEET DESCRIPTION WAS MASTER CHANGE SHEET.	-									
	7.5	- UPDATED TO REVISION A.										
	X1	 AVT HOLE DIMENSION WAS 240 MM FROM TOP OF ENCLOSURE. REPOSITIONED THE DOOR TAGS ON RIGHT CORNER OF DOOR TO MOVE AVT TAG. 	0									
	X2	- UPDATED THE DISCONNECT HANDLE.										
	X7	- UPDATED AVT HOLE LOCATION ON ENCLOSURE.										
	X8	- UPDATED AVT HOLE LOCATION ON ENCLOSURE.										
	X11	- UPDATED AVT HOLE LOCATION ON ENCLOSURE.										
В	A1	- UPDATED DRAWING PACKAGE TO REV B - UPDATED PART DATABASE TO GM_EPARTSDB_202106	2021-09-24	С	SK							
	A2	- UPDATED DRAWING PACKAGE TO REV B										
	A3	- UPDATED DRAWING PACKAGE TO REV B										
	X1	- LABEL TEXT CHANGED FROM WARNING TO DANGER - ADDED HOT SURFACE WARNING LABELS										
	Х3	- LABEL TEXT CHANGED FROM WARNING TO CAUTION										
	X4	- LABEL TEXT CHANGED FROM WARNING TO DANGER										
	X5	- UPDATED TORQUE VALUES FOR PE LUG LINE SIDE TERMINAL										
	X7	- PE LUG TERMINAL DIMENSIONS HAS BEEN CHANGED. WIDTH 20.5MM TO 18.5MM AND HEIGHT 75MM TO 71MM.										
	X8	- PE LUG TERMINAL DIMENSIONS HAS BEEN CHANGED. WIDTH 20.5MM TO 18.5MM AND HEIGHT 75MM TO 71MM.										
												CHANG
												PR PRODUCT
												R PLANT RE
												CHANGE
												CP
												M MECHANIC
												C CONTROL
												F FLOOR AN
						J Ľ						CHANGE
Г		GM ENGINEER: DESIGN SOURCE: DESIGN LEADER: PROG	RAMS: PACKAG	F 60		O MCD	AND POWE	R DISTRIBUTION PANEL SYSTEM/TOOL NO:		RFI	EASE DATE:	REVISION SECTION
G	im - Sta	TANDARD HARDWARE GREG	DESCRIF	PTION: (BB) 30 A, (AA) 15 A	CIRCUITS			20	20-03-31	B LETTER
ERIA	L IS THE PROPE	TEAM DOPPKE DEPRIY OF GENERAL MOTORS CORPORATION. NO RIGHTS ARE GRANTED TO NAY PURPOSE OTHER THAN THE FURNISHING OF SERVICES AND SUPPLIES.	SHEET DESCRIF	RE\	ISION SUM	1MARY	SHEET	DRAWING NUMBER: ECS-5121-BB-AA-TT			٦,	DATE: A
	ERIAL FOR ANY ATUS: RELE		D.COOK!					PROJECT NAME: ECS-5121-BB-AA-TT RevB(2021-09-24)		SAV	2 E DATE: 2021/	2021-03-24



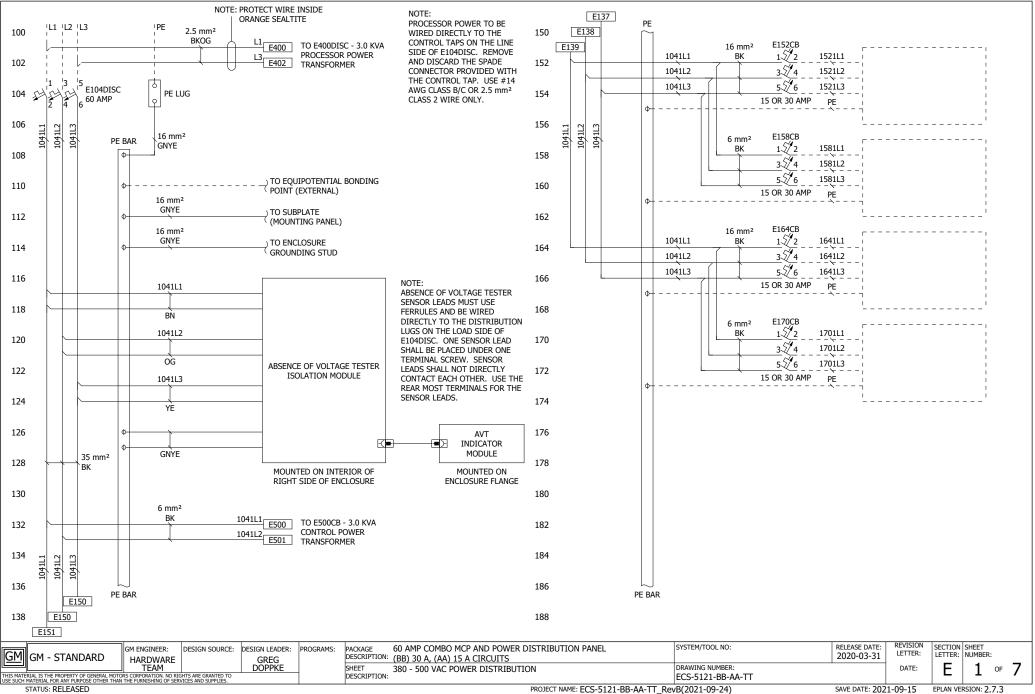
NOTES:

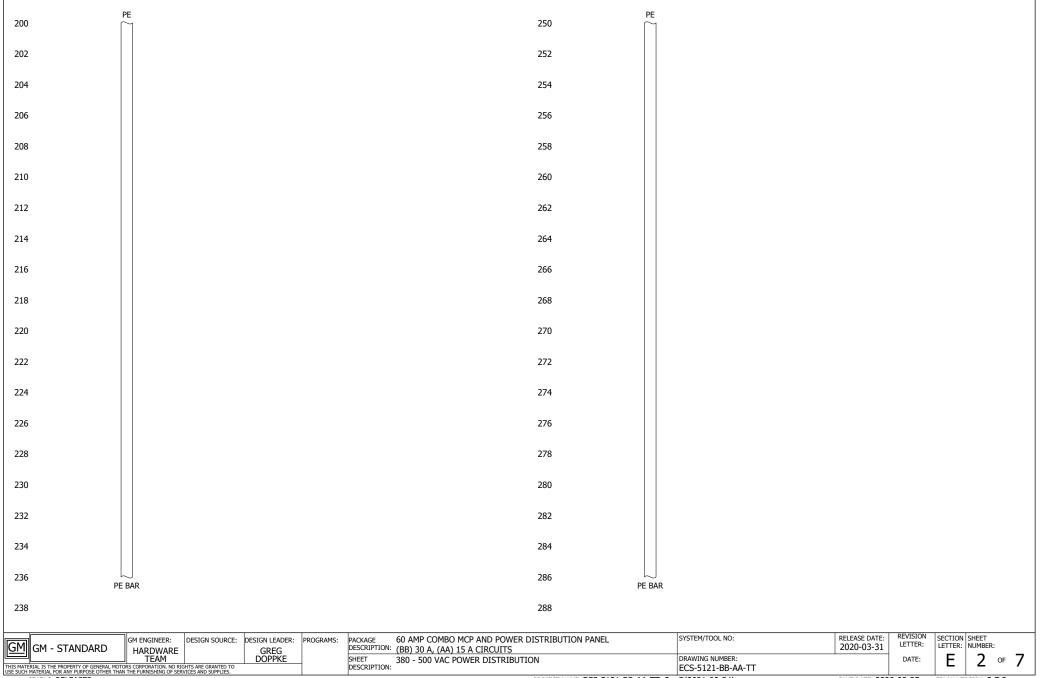
- 1. THIS ENCLOSURE SUPPORTS UP TO (4) 15 OR 30 A BRANCH CIRCUITS.
- 2. USE ACX RECEPTACLES TO FEED 120 VAC TO PANELS AND DEVICES REQUIRING AC POWER.
- 3. USE HACX RECEPTACLES TO FEED 120 VAC TO PANELS AND DEVICES REQUIRING "HOT" AC POWER.
- 4. USE DC RECEPTACLES TO FEED 24 VDC TO PANELS AND DEVICES REQUIRING DC POWER.
- 5. USE HDCx RECEPTACLES TO FEED 24 VDC TO PANELS AND DEVICES REQUIRING "HOT" DC POWER.
- 6. USE ENX RECEPTACLES FOR ETHERNET CONNECTIONS TO LOGIX MODULES. 'x' REFERS TO THE SLOT NUMBER IN THE LOGIX CHASSIS.

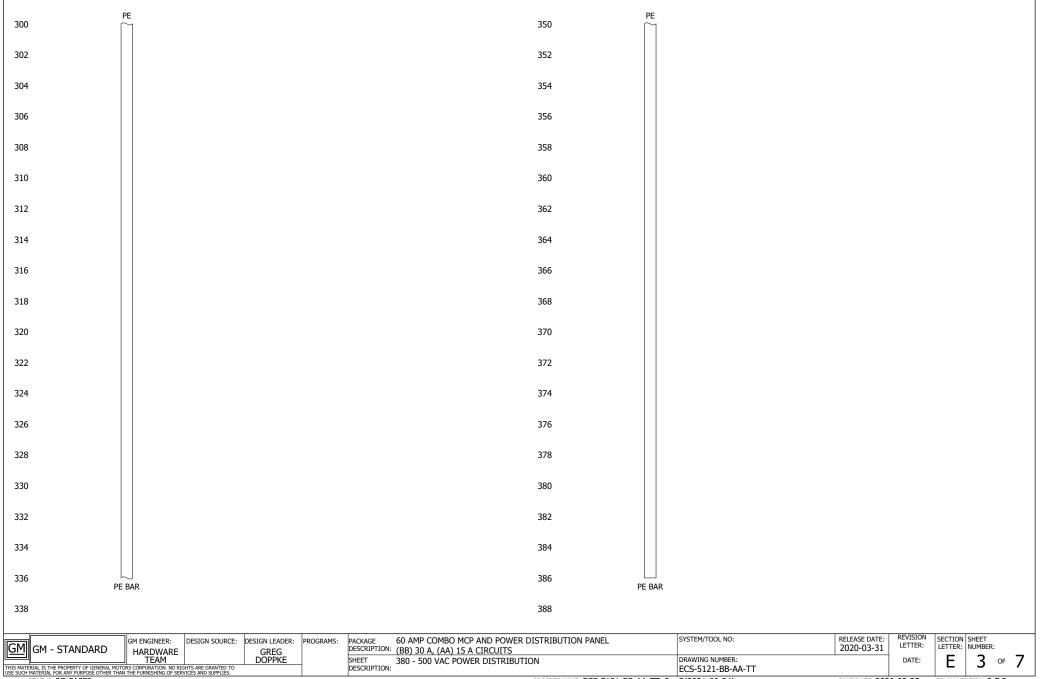
REFER TO THE APPLICATION WD TO DETERMINE LOGIX MODULES PRESENT IN THIS ENCLOSURE.

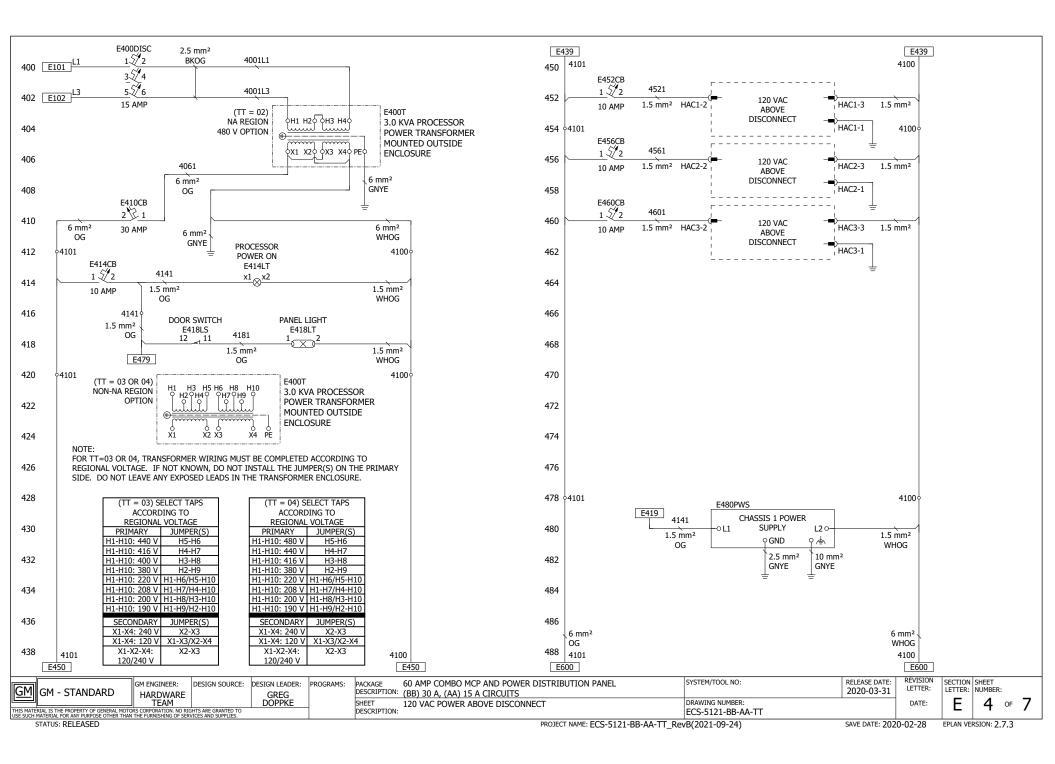
- 7. USE ONLY WIRE SIZE AND STRAND CLASS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. REMOVE INSULATION FROM WIRE AND TORQUE TERMINALS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 8. EQUIPOTENTIAL BONDING CONNECTION REQUIRED. REFERENCE APPLICATION WD.
- 9. COVERS ARE REQUIRED FOR UNUSED RECEPTACLES. THESE COVERS ARE NOT INCLUDED WITH THIS ENCLOSURE.

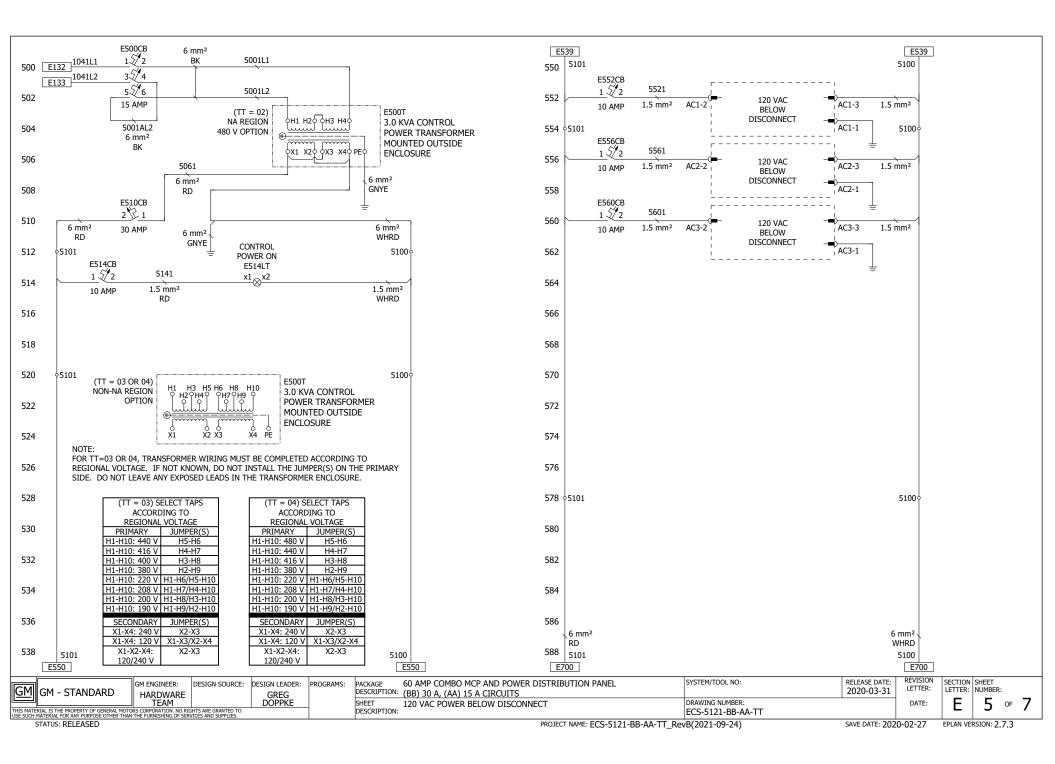
GM GM - STANDARD	GM ENGINEER: HARDWARE	DESIGN SOURCE:	DESIGN LEADER: GREG	PROGRAMS:		60 AMP COMBO MCP AND POWER DISTRIBUTION PANEL (BB) 30 A, (AA) 15 A CIRCUITS	SYSTEM/TOOL NO:	RELEASE DATE: 2020-03-31	REVISION LETTER:	SECTION LETTER:		Ŀ	
	TEAM		DOPPKE		SHEET	INTERCONNECT	DRAWING NUMBER:		DATE:	C	1	OF 1	1
THIS MATERIAL IS THE PROPERTY OF GENERAL MOT- USE SUCH MATERIAL FOR ANY PURPOSE OTHER THAI					DESCRIPTION:		ECS-5121-BB-AA-TT			~	-	-	-

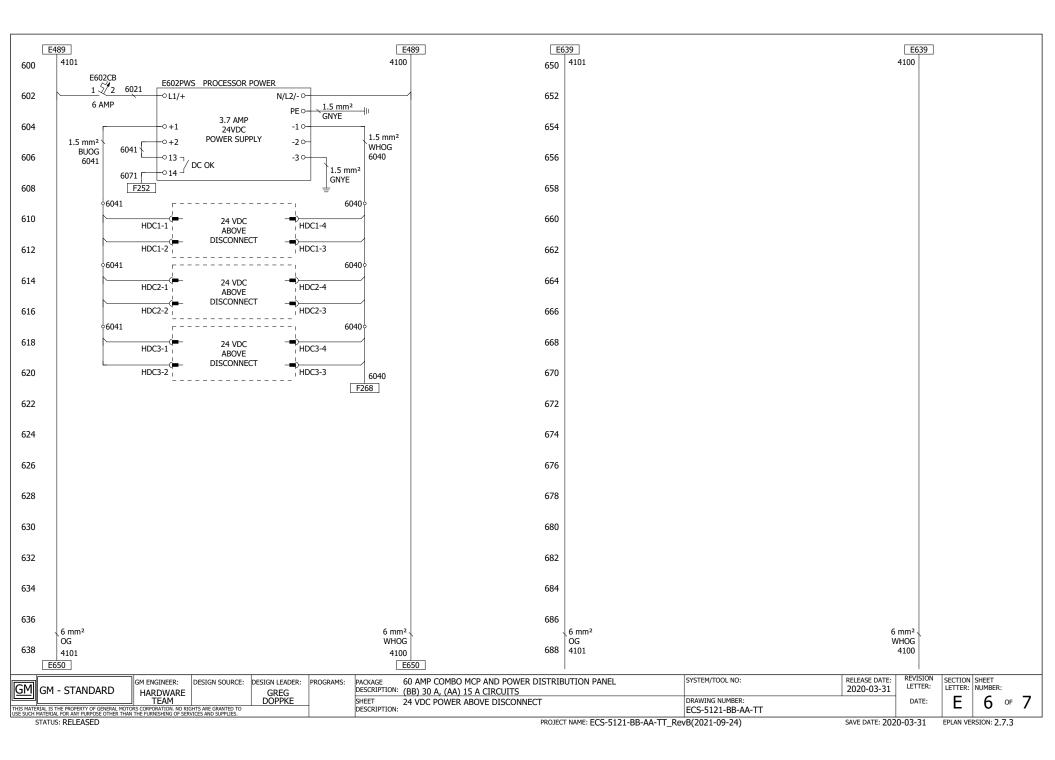


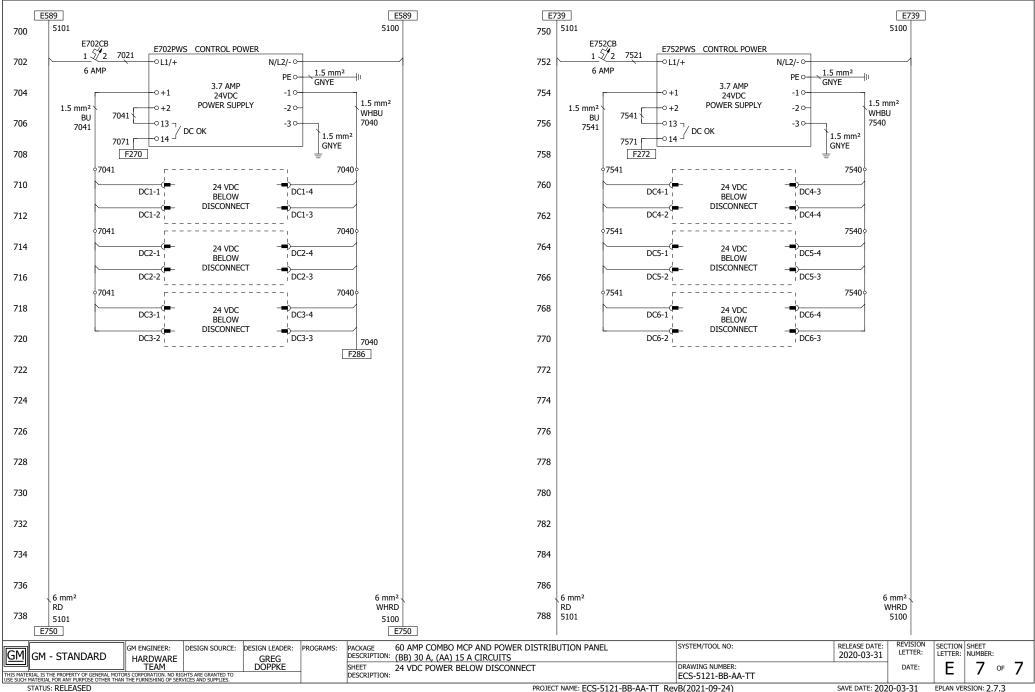


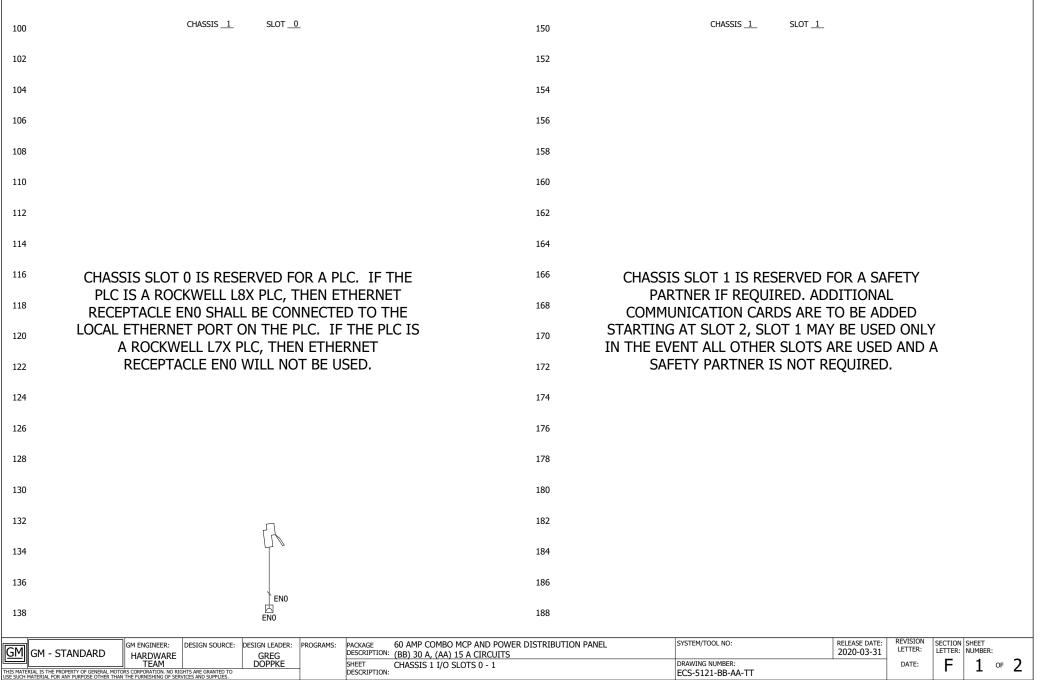


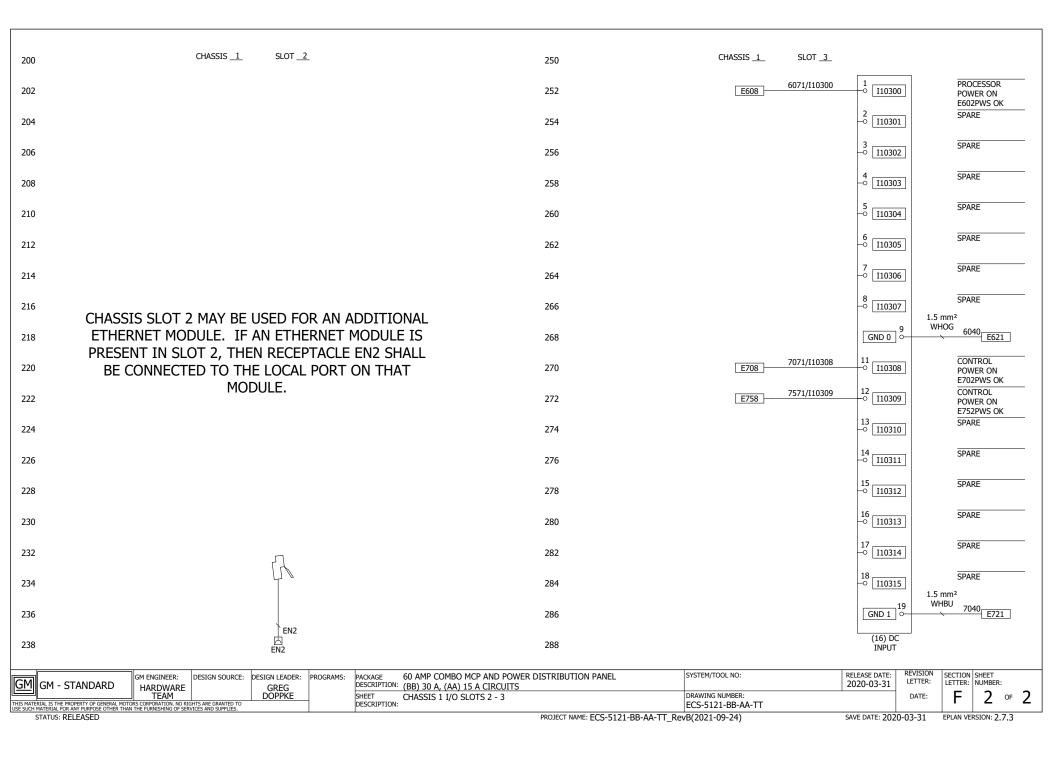


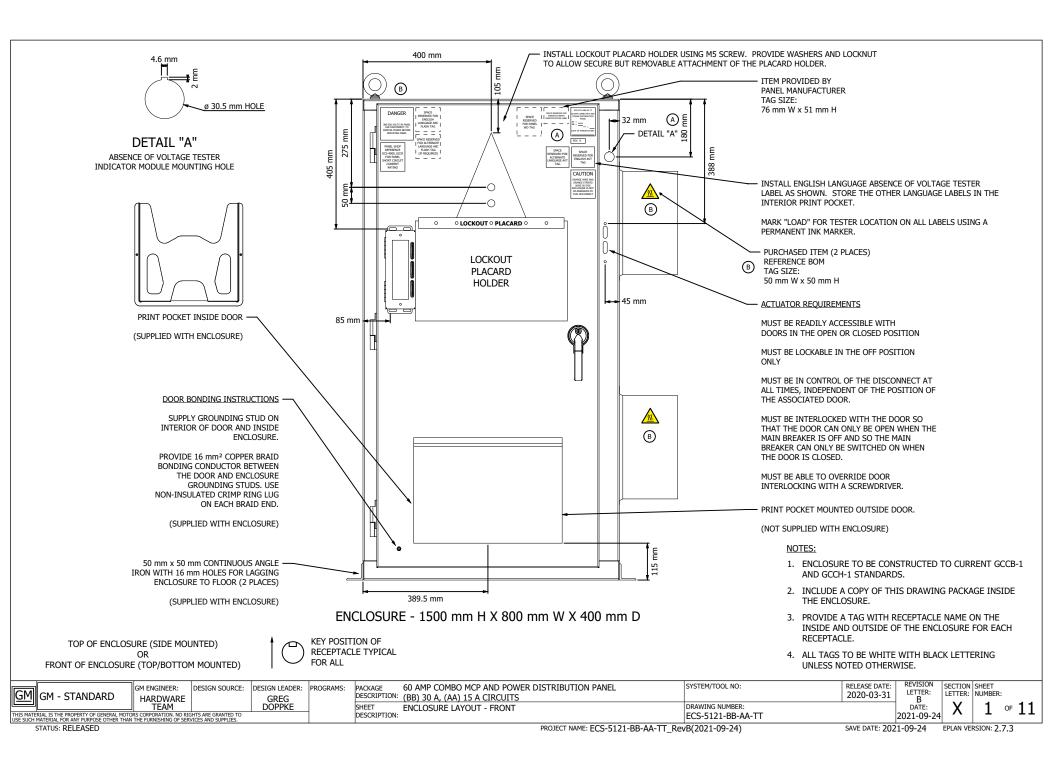


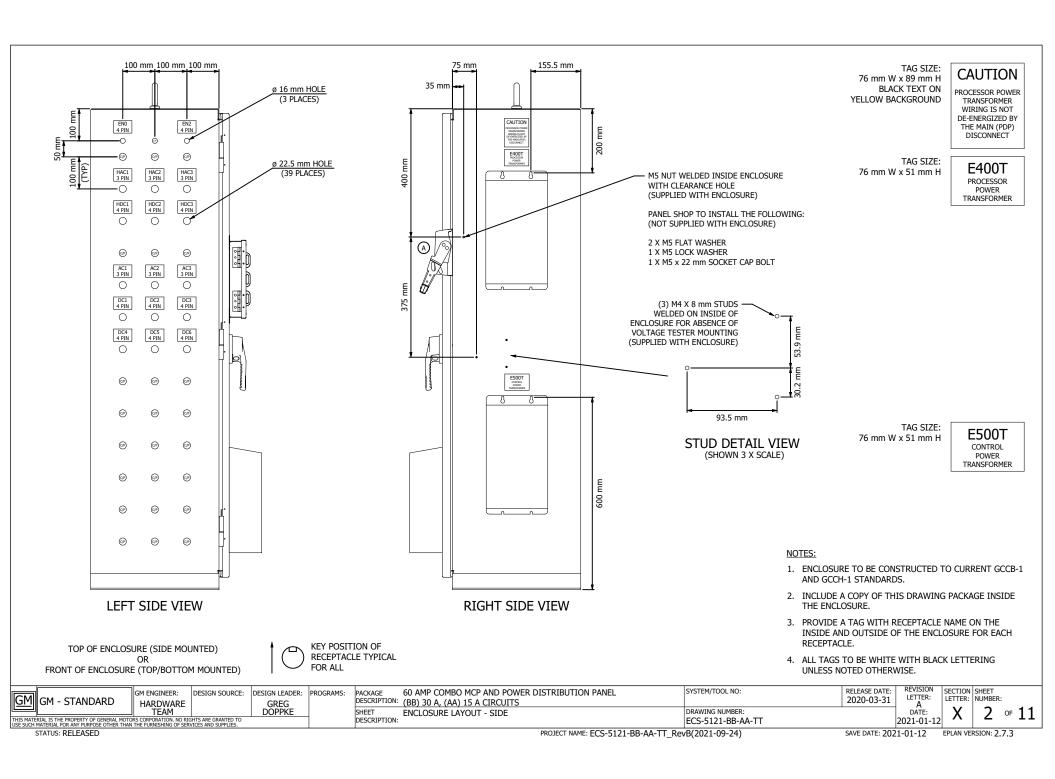


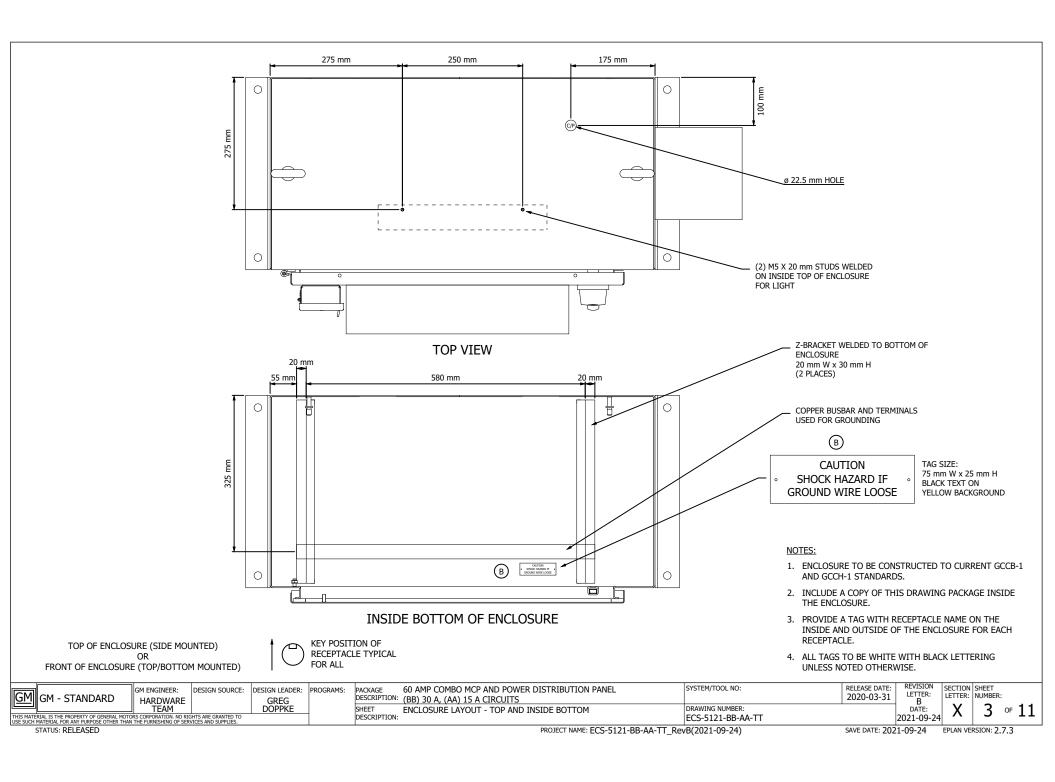












DANGER

380-500 VOLTS IN PANEL USE DISCONNECT TO REMOVE POWER BEFORE SERVICING PANEL TAG SIZE: 102 mm W x 102 mm H WHITE TEXT ON RED BACKGROUND

B

TAG SIZE: 76 mm W x 89 mm H

PANEL SHOP TO PROVIDE INFORMATION FOR ALL BLANK FIELDS BASED ON ACTUAL PANEL CONSTRUCTION.

60 AMP COMBO MCP AND POWER DISTRIBUTION PANEL

AA = _____
BB = ____
TT = ____

DATE OF MANUFACTURE:

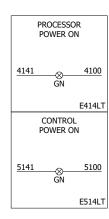
ECS-5121-BB-AA-TT

TAG SIZE:

45 mm W x 15 mm H

REV: B

PANEL SHOP REFERENCE ECS-4000_SCCR FOR PANEL SHORT CIRCUIT CURRENT RATING TAG SIZE: 76 mm W x 89 mm H



TAG SIZE: 76 mm W x 89 mm H BLACK TEXT ON YELLOW BACKGROUND

CAUTION

ORANGE WIRE AND ORANGE STRIPED WIRE IN THIS ENCLOSURE IS NOT DE-ENERGIZED BY THIS DISCONNECT

NOTES: 1. ALL TAGS TO BE WHITE WITH BLACK LETTERING UNLESS NOTED OTHERWISE.

WIRE NUMBERS AND PUSHBUTTON COLOR SHOWN ON TAGS FOR WIRING PURPOSES ONLY. DO NOT MARK WIRE NUMBERS OR PB COLOR ON TAGS.

60 AMP COMBO MCP AND POWER DISTRIBUTION PANEL SYSTEM/TOOL NO: RELEASE DATE: SECTION SHEET GM ENGINEER: DESIGN SOURCE: DESIGN LEADER: LETTER: 2020-03-31 GM - STANDARD DESCRIPTION: (BB) 30 A, (AA) 15 A CIRCUITS **HARDWARE** GREG DOPPKE TEAM DRAWING NUMBER: 4 of 11 TAG DETAILS DESCRIPTION: ECS-5121-BB-AA-TT 2021-09-24

TAG SIZE: 102 mm W x 178 mm H

E: H	LUG TORQUE VALUES (UL) - ECS-5121													
П	TERMINAL	WIRE STRANDING CLASS	WIRE SIZE (AWG)	TORQUE (LB-IN)										
	E104DISC LINE SIDE	CLASS B/C	#10 - 4 #3 - 3/0	105 140										
	15 OR 30 A BRANCH LOAD SIDE	CLASS B	#10 - 4	40 - 53										
В	PE LUG LINE SIDE	NOT SPECIFIED	#10 - 0	53										
	PE BAR SMALL TERMINAL	NOT SPECIFIED	#16 - 6	35										

NOTE: TORQUE VALUES PROVIDED ARE FOR LUGS INCLUDED IN THE STANDARD POP DESIGN AND WITH THE WIRE STRANDING AND SIZES SHOWN ONLY. IF ALTERNATE LUGS ARE USED, THEN WIRE STRANDING AND SIZE AND TERMINAL TORQUE MUST BE ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.

TAG SIZE

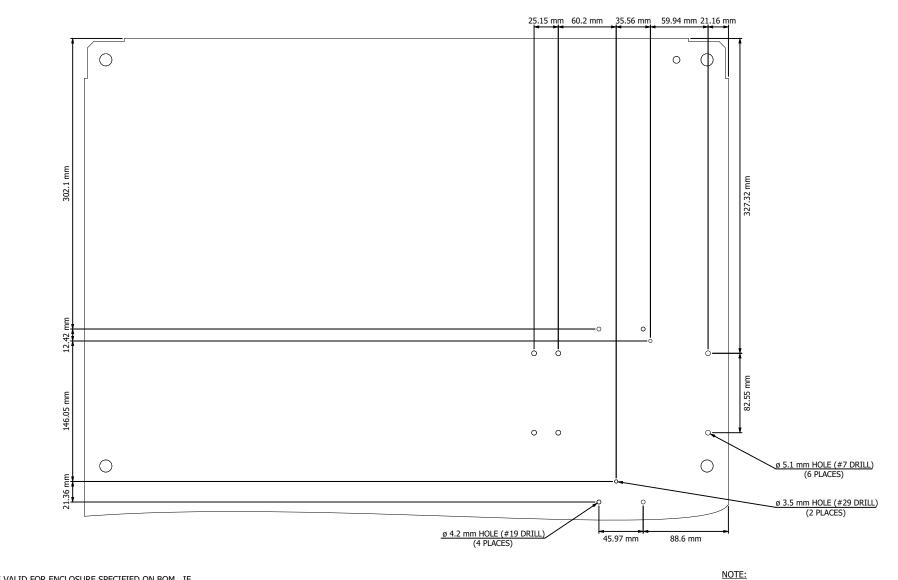
ZE:	LUG T	ORQUE VALUI	ES (IEC) - ECS	S-5121
n H	TERMINAL	WIRE STRANDING CLASS	WIRE SIZE (mm²)	TORQUE (N-m)
	E104DISC LINE SIDE	CLASS 2	6 - 25 35 - 120	6 10
	15 OR 30 A BRANCH LOAD SIDE	CLASS 2	10 - 50	4.5 - 6
В	PE LUG LINE SIDE	NOT SPECIFIED	6 - 50	6
	PE BAR SMALL TERMINAL	NOT SPECIFIED	1.5 - 16	4
	NOTE: TOPOLIE VA	LLIES DROVIDED ARE	EOD THICK INCLUDED	IN THE STANDARD

NOTE: TORQUE VALUES PROVIDED ARE FOR LUGS INCLUDED IN THE STANDARD PDP DESIGN AND WITH THE WIRE STRANDING AND SIZES SHOWN ONLY. IF ALTERNATE LUGS ARE USED, THEN WIRE STRANDING AND SIZE AND TERMINAL TORQUE MUST BE ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.

NOTES: 1. ALL TAGS TO BE WHITE WITH BLACK LETTERING UNLESS NOTED OTHERWISE.

2. INSTALL TORQUE VALUE LABELS ON THE INSIDE OF THE ENCLOSURE DOOR ON THE UPPER RIGHT SIDE.

REVISION LETTER: B DATE: 60 AMP COMBO MCP AND POWER DISTRIBUTION PANEL SYSTEM/TOOL NO: RELEASE DATE: SECTION SHEET GM ENGINEER: DESIGN LEADER: PROGRAMS: 2020-03-31 GM - STANDARD DESCRIPTION: (BB) 30 A, (AA) 15 A CIRCUITS HARDWARE GREG DOPPKE 5 of 11 TEAM TAG DETAILS DRAWING NUMBER: DESCRIPTION: ECS-5121-BB-AA-TT 2021-09-24

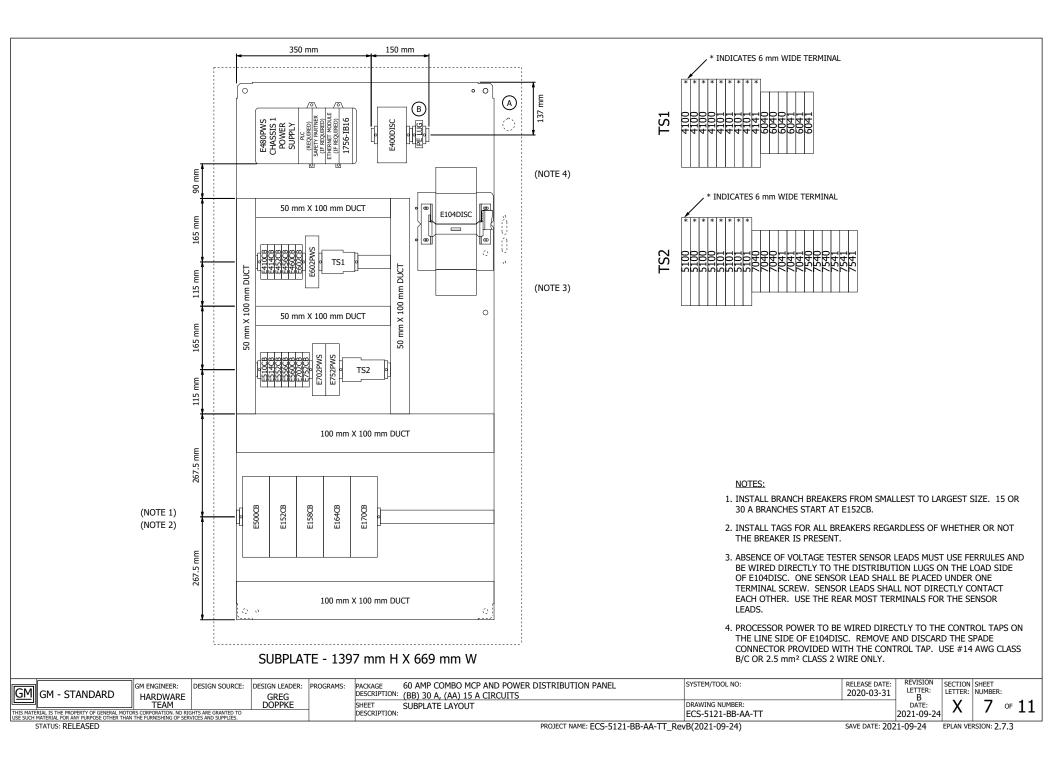


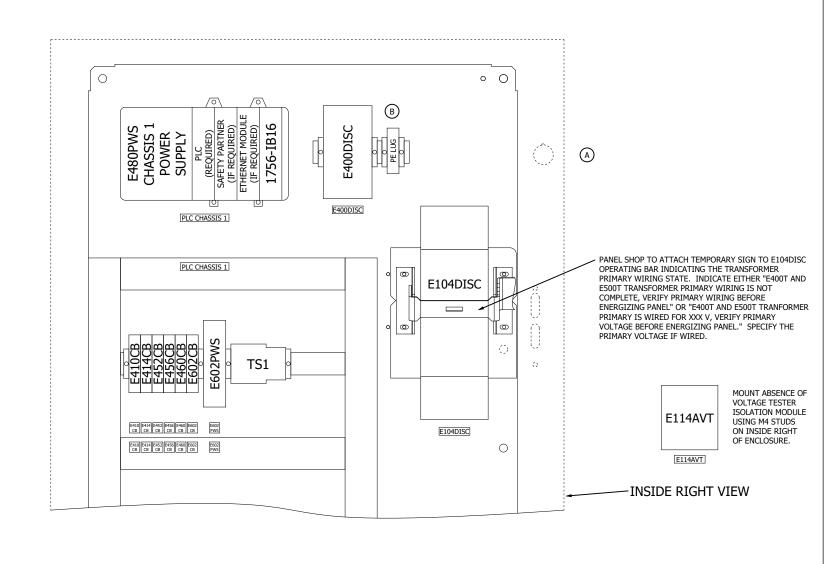
DIMENSIONS SHOWN ARE VALID FOR ENCLOSURE SPECIFIED ON BOM. IF AN ALTERNATIVE ENCLOSURE IS USED, THEN THE DIMENSIONS MAY VARY. THE BREAKER AND OPERATING MECHANISM MUST BE LOCATED PER THE MANUFACTURER'S REQUIREMENTS.

CIRCUIT BREAKER AND DISCONNECT MECHANISM MOUNTING DETAIL

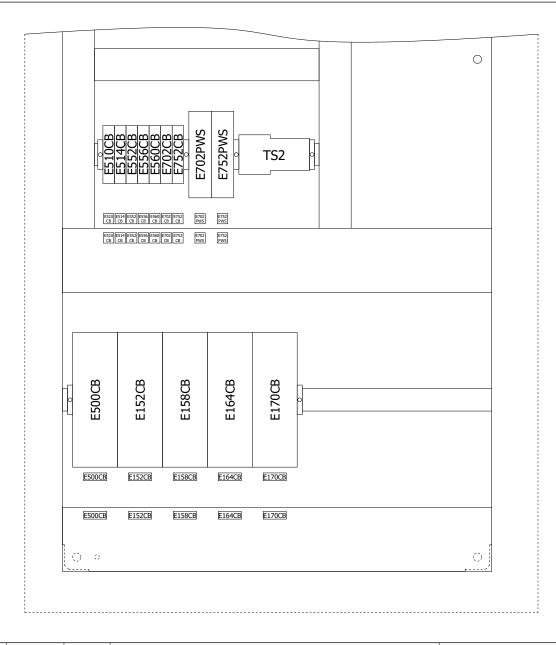
PANEL SHOP TO TAP HOLES IN SUBPLATE - DO NOT FASTEN COMPONENTS WITH NUTS BEHIND THE SUBPLATE.

	GM GM - STANDARD	GM ENGINEER: HARDWARE	DESIGN SOURCE:	DESIGN LEADER: GREG	PROGRAMS:		60 AMP COMBO MCP AND POWER DISTRIBUTION PANEL (BB) 30 A, (AA) 15 A CIRCUITS	SYSTEM/TOOL NO:	RELEASE DATE: 2020-03-31		SECTION LETTER:		
ıĽ		TEAM		DOPPKE		SHEET	SUBPLATE DETAIL	DRAWING NUMBER:		DATE:	X	6 of 11	
Ţ	THIS MATERIAL IS THE PROPERTY OF GENERAL MOTO USE SUCH MATERIAL FOR ANY PURPOSE OTHER THAN					DESCRIPTION:		ECS-5121-BB-AA-TT			/ /\	0 11	
_	CTATUC, DELEACED					•	DROJECT NAME: ECC F121 DR AA TT De	UD(2021 00 24)	CAVE DATE: 2020	01 17	EDLANLYE	CTON, 2 7 2	-





REVISION LETTER: B DATE: 60 AMP COMBO MCP AND POWER DISTRIBUTION PANEL SYSTEM/TOOL NO: RELEASE DATE: SECTION SHEET GM ENGINEER: DESIGN SOURCE: DESIGN LEADER: PROGRAMS: 2020-03-31 LETTER: NUMBER: GM - STANDARD DESCRIPTION: (BB) 30 A, (AA) 15 A CIRCUITS HARDWARE GREG DOPPKE TEAM SUBPLATE DETAIL VIEW DRAWING NUMBER: 8 OF $11\,$ DESCRIPTION: ECS-5121-BB-AA-TT 2021-09-24



REVISION LETTER: SECTION SHEET LETTER: NUMBER: 60 AMP COMBO MCP AND POWER DISTRIBUTION PANEL SYSTEM/TOOL NO: RELEASE DATE: GM ENGINEER: DESIGN SOURCE: DESIGN LEADER: PROGRAMS: 2020-03-31 MARDWARE
THIS MATERIAL IS THE PROPERTY OF GENERAL MOTORS CORPORATION. OR RIGHTS ARE GRANTED TO USE SUCH MATERIAL FOR ANY MURPOSE OTHER THAN THE PURMISHING OF SERVICES AND SUPPLIES. DESCRIPTION: (BB) 30 A, (AA) 15 A CIRCUITS GREG DOPPKE 9 of 11 SUBPLATE DETAIL VIEW DRAWING NUMBER: DESCRIPTION: ECS-5121-BB-AA-TT EPLAN VERSION: 2.7.3

MINI CONNECTOR FEMALE - FACE VIEW



PIN FUNCTION COLOR 1 GROUND GNYE

2 POWER BK 3 NEUTRAL WH THE RECEPTACLE WIRES SHALL HAVE THE RECEPTACLE NUMBER AND PIN NUMBER LABELED ON BOTH ENDS.



WIRE COLOR	ABBREV
BLACK	BK
BROWN	BN
RED	RD
ORANGE	OG
YELLOW	YE
GREEN	GN
BLUE	BU
VIOLET	VT
GRAY	GY
WHITE	WH
PINK	PK
GOLD	GD
TURQUOISE	TQ
SILVER	SR
GREEN WITH YELLOW TRACER	GNYE
BLACK WITH ORANGE TRACER	BKOG
BLUE WITH ORANGE TRACER	BUOG
WHITE WITH RED TRACER	WHRD
WHITE WITH ORANGE TRACER	WHOG
WHITE WITH BLUE TRACER	WHBU

ALL UNUSED RECEPTACLE WIRES SHOULD HAVE ENDS PROTECTED WITH TAPE TO PREVENT UNINTENTIONAL

ALL WIRES ARE TO BE BLUE (BU) UNLESS OTHERWISE SPECIFIED (MINI AND MICRO RECEPTACLE WIRE COLORS TO BE IN COMPLIANCE WITH THE ASSOCIATED IEC OR ANSI STANDARD).

NOTE:

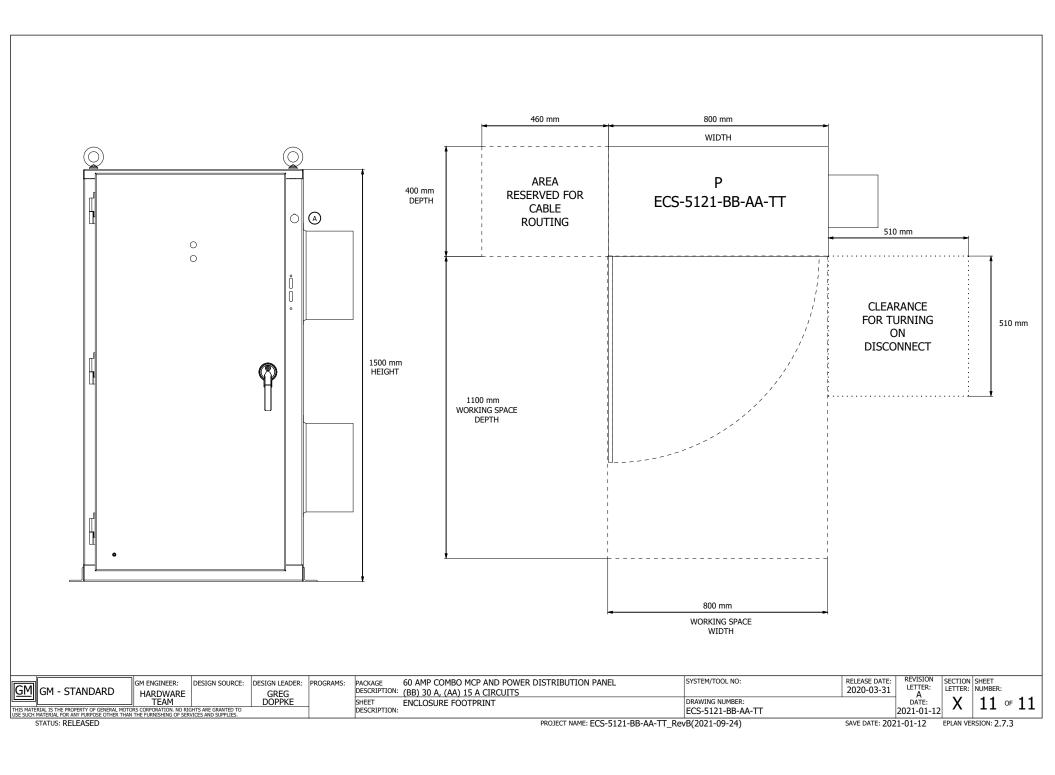
SHORTING.

Ţ	HIS MATERIAL IS THE PROPERTY OF GENERAL MOTO ISE SUCH MATERIAL FOR ANY PURPOSE OTHER THAN		SHTS ARE GRANTED TO VICES AND SUPPLIES.			DESCRIPTION:		ECS-5121-BB-AA-TT				10 11	
יין		TEAM		DOPPKE		SHEET	RECEPTACLE PIN CHART	DRAWING NUMBER:		DATE:	X	10 of 11	
	<u>GM</u> GM - STANDARD	HARDWARE		GREG		DESCRIPTION:	(BB) 30 A, (AA) 15 A CIRCUITS		2020-03-31	ELTTER.	LETTEK:	NUMBER:	
II	<u> </u>	GM ENGINEER:	DESIGN SOURCE:	DESIGN LEADER:	PROGRAMS:	PACKAGE	60 AMP COMBO MCP AND POWER DISTRIBUTION PANEL	SYSTEM/TOOL NO:	RELEASE DATE:	LETTER:	SECTION LETTER:	SHEET NUMBER:	

PROJECT NAME: ECS-5121-BB-AA-TT_RevB(2021-09-24)

SAVE DATE: 2020-01-17 EPLAN VERSION: 2.7.3

STATUS: RELEASED



																ļ
REV	ITEM NUMBER	CHA	NGE DESCRIPTION		DATE	CHANGE CODE	CHANGED BY	REV	ITEM NUMBER	CHANGE DESCRIPTION	N	DATE	CHANGE CODE	CHANGED BY		
Α	12701	ADDED ITEM.		2	2021-01-12	С	DB									
	19002	PART NUMBER CHANGED FF ER1PAB3004M020.	ROM ERWPAB3004M020 TO													
	75600	PART NUMBER CHANGED FF 3SU1900-0FA11-0AA0.	ROM 3SB3921-0AA TO													
В	11080	PART NUMBER CHANGED FE	ROM 5SH3540 TO 8US1923-:	1AA01.	2021-09-24	С	SK									
	75813	ADDED ITEM.														
	80000	ADDED ITEM.														
	80042	ADDED ITEM.														
	12726	REMOVED ITEM. QTY WAS	1.													
			DESIGN COUNTY DESIGNATION			60.4	MMD COMPONENT	N.M.CR	MAID DOWN	ED DICTURE ITTOM DANIE!	SYSTEM/TOOL NO:		REI	EASE DATE:	CHANGE CODE PR PRODUCT CHANGE R PLANT REQUEST MP CHANGE CP CONTROL PROCES GOOD M MECHANICAL DESIGN CHANGE C CONTROL DESIGN CHANGE C CONTROL DESIGN CHANGE REVISION SECTION SHEET	CHANGE N HANGE
iM c	SM - STA	MDARD GM ENGINEER: HARDWARE TEAM	DESIGN SOURCE: DESIGN LEAGUE GREG DOPPK	DER: PROGRAM!	S: PACKAGE DESCRIPT SHEET	TION: (BB)	30 A, (AA)	15 A (CIRCUITS	ER DISTRIBUTION PANEL	DRAWING NUMBER:		20	120-03-31	LETTER: NUMBER:	
S MATERIA SUCH MAT	L IS THE PROPER FERIAL FOR ANY I	TEAM RTY OF GENERAL MOTORS CORPORATION. NO RI PURPOSE OTHER THAN THE FURNISHING OF SER	GHTS ARE GRANTED TO RVICES AND SUPPLIES.	NE .	DESCRIP*		I CHANGE S	HEET:	ECS-5121	-BB-AA-11-BON (BASE BON)	ECS-5121-BB-AA-TT				DATE: YA 1	of 4
STA	ATUS: RELEA	ASED								PROJECT NAME: ECS-5121-BB-AA-TT_Re	evB(2021-09-24)		SAV	/E DATE: 202	1-09-24 EPLAN VERSION: 2.	1.3

ECS-5121-BB-AA-TT-BOM (BASE BOM)

SOURCE LEGEND

F - FURNISHED BY GM

M - CONSTRUCTION SOURCE MAKE ITEM REF - PURCHASED BY OTHERS (NO SUBSTITUTION)

B1 - PURCHASE ITEM OR EQUIVALENT ITEM (GM APPROVAL NOT REQUIRED)
B2 - PURCHASE ITEM (SUBSTITUTION REQUIRES GM APPROVAL) -INTERCHANGEABLE COMPONENT
B3 - PURCHASE ITEM (SUBSTITUTION REQUIRES GM APPROVAL) -NOT AN INTERCHANGEABLE COMPONENT

B4 - PURCHASE ITEM (NO SUBSTITUTION)

NOTE: '-N' SUFFIX ON SOURCE CODE DENOTES AN ITEM THAT IS NOT REQUIRED TO BE STOCKED AS SPARE BY THE PLANT.

BOM REV	ITEM NUMBER	QUANTITY	PART DESCRIPTION	MANUFACTURER	PART NUMBER	_ `	GCCL REFERENCE	
		2	BUSBAR SYSTEM, ACCESSORIES BUSBAR CENTER-TO-CENTER SPACING 60 mm N/PE BUSBAR HOLDER FOR BUSBARS 12X 5 (10)-30X 5 (10) AND 6X 6 mm, FREE-STANDING INSTALLATION OR ATTACHMENT TO 8U51923-2AA01	SIEMENS	8US1923-1AA01	B3-N		
	11103	1	OPERATING UNIT WITH ROD VARIABLE DEPTH FLANGE MOUNTED OPERATOR KIT, 3 POLE: CONSISTING OF: HANDLE STEEL CHROME PLATED NEMA 4/4X BLACK=OFF, BLACK=ON SWITCHING MECHANISM MOUNTING DEPTH 8" TO 16" ACCESSORY FOR: 3VA5 250 3VA6 250, W/ ADAPTER PLATE	SIEMENS	3VA9278-0DK84	В3		
	11106	1	BREAKER 3VA FRONT MOUNTED ROTARY OPERATOR FMRO FOR 3VA51 GRAY STANDARD WITHOUT ILLUMINATION KIT WITHOUT DOOR INTERLOCK WITHOUT DOOR OPENING FUNCTION WITH HANDLE NEMA 1	SIEMENS	3VA9137-0EK11	В3		
	11110	2	SIEMENS LOW VOLTAGE 3VA CIRCUIT BREAKER ACCESSORY. 3-PIECE STEEL BODY 1-CONDUCTOR BOX TERMINAL - WIRE SIZE: 14 - 3/0 AWG. FOR (125A 3VAS) FRAME UL CIRCUIT BREAKERS.	SIEMENS	3VA9133-0JA11	В3		
	11120	2	TERMINAL COVER 3 POLE; 1 PC. WITH PROBE HOLES FOR VOLTAGE TESTING ACCESSORY FOR: 3VA4/5 125 -	SIEMENS	3VA9131-0WD31	В3		
	11126	1	TERMINAL COVER EXTENDED 3 POLE; 1 PC. WITH PROBE HOLES FOR VOLTAGE TESTING ACCESSORY FOR: 3VA6 150/250 3VA5 250 PLUG-IN/DRAW-OUT BASE 3VA6 150/250	SIEMENS	3VA9271-0WF31	В3		
	11133	1	BOX TERMINAL W. CONTROL WIRE VOLTAGE TAP-OFF 3 UNITS ACCESSORY FOR: 3VA6 150/250	SIEMENS	3VA9143-0JH12	В3		
	11144	1	WIRE CONNECTOR FOR 6 CABLES; 3 PCS.; INCL. TERMINAL COVER EXTENDED WITH PROBE HOLES FOR VOLTAGE TEST; ACCESSORY FOR: 3VA6 150/250 PLUG-IN/DRAW-OUT BASE 3VA6 150/250	SIEMENS	3VA9243-0JF68	В3		
	11222	3	CIRCUIT BREAKER, MINIATURE, 240 V, 14 KA, 1-POLE, C, 6 A, D=70 mm TO UL 489, SAME POLARITY	SIEMENS	5SJ4106-7HG40	B2		
	11225	8	CIRCUIT BREAKER, MINIATURE, 240 V, 14 KA, 1-POLE, C, 10 A, D=70 mm TO UL 489, SAME POLARITY	SIEMENS	5SJ4110-7HG40	B2		
	11230	2	MINIATURE CIRCUIT-BREAKER 240 V 14 KA, 1-POLE, C, 30 A, D=70 mm TO UL 489, SAME POLARITY	SIEMENS	5SJ4130-7HG40	B2		
	11249	2	TERMINAL COVER FOR BOX TERMINALS FOR CIRCUIT BREAKER 3RV2742 IN SIZE S3	SIEMENS	3RV2948-1LA00	B3-N		
	11251	1	CIRCUIT BREAKER SIZE S3 FOR SYSTEM PROTECTION WITH APPROVAL CIRCUIT BREAKER UL 489, CSA C22.2 NO.5-02 A-RELEASE 15 A N-RELEASE 225 A SCREW TERMINAL	SIEMENS	3RV2742-5BD10	В3		
	11281	1	CIRCUIT BREAKER 3VA6 UL FRAME 150 BREAKING CAPACITY CLASS H 65KA @ 480V 3-POLE, LINE PROTECTION ETU350, LSI, IN=100A OVERLOAD PROTECTION IR=40A100A SHORT-CIRCUIT PROTECTION ISD=1.510 X IR, II=12 X IN WITHOUT CONNECTION	SIEMENS	3VA6110-6HN31-0AA0	В3		
	11349	1	CIRCUIT BREAKER 3VAS UL FRAME 125 BREAKING CAPACITY CLASS H 65KA @ 480V 3-POLE, LINE PROTECTION TM210, FTFM, IN=15A OVERLOAD PROTECTION IR=15A FIXED SHORT-CIRCUIT PROTECTION II=15 X IN WITHOUT CONNECTION	SIEMENS	3VA5195-6ED31-0AA0	В3		
	11415	26	TERMINAL, BUSBAR ADAPTER, 60 mm FAST BUS BUSBAR ADAPTER SYSTEM, FOR 5 mm BUSBAR THICKNESS 1,5-16 mm 2	SIEMENS	8US1921-2AA00	B3-N		
	11417	1	TERMINAL, BUSBAR ADAPTER, 60 mm FAST BUS BUSBAR ADAPTER SYSTEM, FOR 5 mm BUSBAR THICKNESS 16-70 mm 2	SIEMENS	8US1921-2AD00	B3-N		
	12504	2	INDICATOR LIGHT, 22 mm, ROUND, METAL, SHINY, GREEN, SMOOTH LENS	SIEMENS	3SU1051-6AA40-0AA0	В3		
	12630	2	HOLDER FOR 3 MODULES, METAL	SIEMENS	3SU1550-0AA10-0AA0	В3		
	12654	2	LED MODULE WITH INTEGRATED LED, 24-240V AC/DC, GREEN, SPRING-TYPE TERMINAL, FOR FRONT PLATE MOUNTING	SIEMENS	3SU1401-1BH40-3AA0	В3		
	12700	18	BLOCK, TERMINAL, SPRING CLAMP, 600 V, ZDU 2.5-2/3AN, 20 A UL, 26 - 12 AWG, 0.5 - 2.5 mm 2 , FINGER SAFE, 3 POLE SINGLE CIRCUIT, 5 mm, BEIGE	WEIDMULLER	1706010000	B2-N		
	12701	2	BLOCK, TERMINAL, END BARRIER FOR ZDU 2.5-2/3AN 1706010000, BEIGE	WEIDMULLER	1706110000	B2-N		
	12706	0 A/R	BLOCK, TERMINAL, JUMPERS, 2 POLE, ZQV 4/2, TOP MOUNT, 6 mm, FOR ZDU 4-2/4AN 1806980000 AND ZDU 4-2/3AN 1770360000	WEIDMULLER	1608950000	B2-N		

MCMIII CM CTANDADD II	M ENGINEER: DESIGN	N SOURCE: DESIGN LEADER: GREG	PROGRAMS:		60 AMP COMBO MCP AND POWER DISTRIBUTION PANEL (BB) 30 A, (AA) 15 A CIRCUITS	SYSTEM/TOOL NO:	RELEASE DATE: 2020-03-31	REVISION LETTER: B	SECTION S LETTER: N		_
	TEAM CORPORATION, NO RIGHTS ARE O	GRANTED TO DOPPKE		SHEET DESCRIPTION:	ECS-5121-BB-AA-TT-BOM (BASE BOM)	DRAWING NUMBER: ECS-5121-BB-AA-TT		DATE: 2021-09-2	4 YA	2 0	۶ 4

ECS-5121-BB-AA-TT-BOM (BASE BOM)

SOURCE LEGEND

F - FURNISHED BY GM

M - CONSTRUCTION SOURCE MAKE ITEM REF - PURCHASED BY OTHERS (NO SUBSTITUTION)

B1 - PURCHASE ITEM OR EQUIVALENT ITEM (GM APPROVAL NOT REQUIRED)
B2 - PURCHASE ITEM (SUBSTITUTION REQUIRES GM APPROVAL) -INTERCHANGEABLE COMPONENT
B3 - PURCHASE ITEM (SUBSTITUTION REQUIRES GM APPROVAL) -NOT AN INTERCHANGEABLE COMPONENT

B4 - PURCHASE ITEM (NO SUBSTITUTION)

NOTE: '-N' SUFFIX ON SOURCE CODE DENOTES AN ITEM THAT IS NOT REQUIRED TO BE STOCKED AS SPARE BY THE PLANT.

		_		NOTE: '-N' SUFFIX ON SOURCE CO	1	REQUIRED	To be diedited to divine by the results
BOM REV	ITEM NUMBER	QUANTITY	PART DESCRIPTION	MANUFACTURER	PART NUMBER	SOURCE	GCCL REFERENCE COMMENTS
	12707	0 A/R	BLOCK, TERMINAL, MARKING TAG, WS 12/6, 12 X 6 mm, FOR ZDU 4-2/4AN 1806980000 AND ZI 1770360000	DU 4-2/3AN WEIDMULLER	1609900000	B2-N	
	12712	14	BLOCK, TERMINAL, END ANCHORS - DIN RAIL, EW 35, BEIGE	WEIDMULLER	0383560000	B2-N	
	12718	17	BLOCK, TERMINAL, SPRING CLAMP, 600 V, ZDU 4-2/3AN, 33 A UL, 26- 10 AWG, 0.5 - 6 mm², FII POLE SINGLE CIRCUIT, 6 mm, BEIGE	NGER SAFE, 3 WEIDMULLER	1770360000	B2-N	
	12719	2	BLOCK, TERMINAL, END BARRIER FOR ZDU 4-2/3AN, 1770360000, BEIGE	WEIDMULLER	1770400000	B2-N	
	14000	1	PLC, 1756 CHASSIS ASSEMBLY - 4 SLOTS	ROCKWELL	1756-A4	B4	
	14005	1	PLC, 1756 CHASSIS POWER SUPPLY, 120-240 VAC INPUT, 10 A	ROCKWELL	1756-PA72	B4	
	14201	1	PLC, 1756 I/O, MODULE, INPUT - 10-30 VDC -16 POINT NO DIAGNOSTIC	ROCKWELL	1756-IB16	B4	
	14207	1	I/O, CHASSIS MOUNTED TERMINAL, 1756 I/O, WIRING ARM - 20 PIN SCREW CLAMP BLOCK	ROCKWELL	1756-TBNH	B4	
	15743	6	CORD, RECEPTACLE, MINI 3 PIN, FEMALE-INTERNAL THREADS, 3 METER (9.84 FT) PIGTAIL - 1/AC C.C., 16 AWG, 600V, 13A	/2 INCH NPT, WOODHEAD - MOLEX	1R3000A20M030	B2	
	15763	9	CORD, RECEPTACLE, MINI 4 PIN DC, FEMALE, INTERNAL THREAD, 3 METER (9.84 FT) PIGTAIL, NPT, 16 AWG, 10A, 600V	1/2 INCH -14 WOODHEAD - MOLEX	1R4000A39M030	B2	
	15875	0 A/R	3/8 INCH - NPT GASKET SEAL FOR MINI RECEPTACLE	WOODHEAD - MOLEX	00-5090	B1-N	
	15876	0 A/R	LOCKING NUT FOR MINI RECEPTACLE	WOODHEAD - MOLEX	30-1100	B1-N	
	19002	2	RECEPTACLE, ETHERNET, 4 PIN, MICRO, FEMALE INT THREAD REC, PG9, TO RJ45, 2 PAIR, CAT: UNSHIELDED, STRANDED, HIGH-FLEX, TPE 2M (6.56 FT)	5E, 24 AWG, WOODHEAD - MOLEX	ER1PAB3004M020	B2	
	75108	0 A/R	DUCT,50 mm W X 100 mm H, WITH COVER	TEHALIT	DNG100050	B1-N	
	75110	0 A/R	DUCT,100mm W X 100mm H, WITH COVER	TEHALIT	DNG100100	B1-N	
	75120	0 A/R	STANDARD MOUNTING RAIL 35X27X15,1.5mm THICK, 2 METERS LONG	PHOENIX	0806602	B1-N	
	75278	1	UNIVERSAL LIGHT, LED, 50-60 HZ, 5 W, 100 - 240 VAC	STEGO	02542.3-11	B1	
	75285	1	DOOR POSITION SWITCH, ENCLOSED IN MOLDED-PLASTIC HOUSING 31mm SNAP-ACTION CON 1NO+1NC, TEFLON PLUNGER	NTACTS SIEMENS	3SE5232-0HC05	B2	
	75600	25	HOLE PLUG, 22.5mm DIAMETER	SIEMENS	3SU1900-0FA11-0AA0	B1-N	
	75601	1	HOLE PLUG, 16mm DIAMETER	SIEMENS	3SB2908-3AA	B1-N	
	75709	1	KEYLOCK BOX, 9.5" X 3" X1.5"	SAGINAW BAS	SCE-KLB 018115	B2-N	
	75805	0 A/R	TAGS, PANEL, STICK ON OR LAMICOID, MINIMUM FONT SIZE - 5mm (20PT)	CUSTOM	GENERIC TAG - PANEL	M-N	
	75813	2	LABEL, WARNING, PICTOGRAM FOR HOT SURFACE, 50 mm H X 50 mm W	BRADY	Y5062718	B1-N	
	75815	1	SAFETY, HOLDER, PLACARD, FOR 11" X 17" GRAPHIC AND 11" X 8.5" LOCKOUT LIST SHEETS, G SCREEN PRINT "LOCKOUT PLACARD", (1) 11" X 17" HORIZONTAL PRINT POCKET SAVERS AND (PRINT POCKET SAVERS, HARDWARE INCLUDED (LANDSCAPE)		GMT-1218LO-LP	B1-N	
	80000	1	BLOCK, TERMINAL, WPE 50N, PE, 50mm², GREEN-YELLOW	WEIDMULLER	1846040000		
	80030	3	POWER SUPPLY, SITOP, PSU6200, INPUT: 120/230 VAC, OUTPUT: 24 VDC / 3.7 A, NEC CLASS 2	SIEMENS	6EP3333-7LB00-0AX0	В3	
	80040	1	VERISAFE ABSENCE OF VOLTAGE TESTER, 8' (2.4 m) SYSTEM CABLE, 10' (3.1 m) SENSOR LEAD.	S PANDUIT	VS-AVT-C08-L10	В3	

GM GM - STA	GM ENGINEER: HARDWARE		DESIGN LEADER: GREG	PROGRAMS:		60 AMP COMBO MCP AND POWER DISTRIBUTION PANEL (BB) 30 A, (AA) 15 A CIRCUITS	SYSTEM/TOOL NO:	RELEASE DATE: 2020-03-31	REVISION LETTER: B	SECTION LETTER:		:
THIS MATERIAL IS THE PROPER	TEAM PERTY OF GENERAL MOTORS CORPORATION, NO	NICHTS ARE CRANTED TO	DOPPKE		SHEET	ECS-5121-BB-AA-TT-BOM (BASE BOM)	DRAWING NUMBER:		DATE:	.l YA l	3	of 4
	Y PURPOSE OTHER THAN THE FURNISHING OF S				DESCRIPTION:		ECS-5121-BB-AA-TT		2021-09-2	4		

ECS-5121-BB-AA-TT-BOM (BASE BOM)

SOURCE **LEGEND**

F - FURNISHED BY GM

M - CONSTRUCTION SOURCE MAKE ITEM REF - PURCHASED BY OTHERS (NO SUBSTITUTION)

B1 - PURCHASE ITEM OR EQUIVALENT ITEM (GM APPROVAL NOT REQUIRED)
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NOTE: '-N' SUFFIX ON SOURCE CODE DENOTES AN ITEM THAT IS NOT REQUIRED TO BE STOCKED AS SPARE BY THE PLANT.

				E1 11 0011 Dt 011 000110E 00	DE DENOTES AN ITEM THAT IS NOT	TEQUITED	TO DE OTTOGRED TO	or, we or me round
BOM REV	ITEM NUMBER	QUANTITY	PART DESCRIPTION	MANUFACTURER	PART NUMBER	SOURCE	GCCL REFERENCE	COMMENTS
	80041	0 A/R	FERRULE, NON-INSULATED, #14 AWG, 12 mm LENGTH, FOR AVT SENSOR LEAD	PANDUIT	F80-12-M	B2		
	80042	1	LITHIUM BATTERY, 3.6 V, SIZE AA	TADIRAN XENO ENERGY SAFT	TL-5903 XLP-060F LS14500	REF		
	80098	1	ENCLOSURE BUILT TO LATEST GCCB-1 AND GCCH-1 SPECIFICATIONS, 1500 mm H X 800 mm W X 400 mm D, RAL 7035 GRAY, 50 mm MOUNTING ANGLES, SUBPLATE, 1397 mm H X 669 mm W, 12 GAUGE MIN, GALVANIZED	HOFFMANN OR EQUIVALENT	X2727	B2-N		
	80100	1	PRINT POCKET, EXTERNAL MOUNT, RAL7035 GREY, 329 mm H x 464 mm W x 101 mm D WITH HINGED COVER	HOFFMANN OR EQUIVALENT	K9187	B2-N		
	81430	0 A/R	COPPER RAIL, TIN PLATED, 30x5x2400	CUSTOM	30X5X2400	B1-N		

GM ENGINEER: HARDWARE TEAM

DESIGN LEADER: PROGRAMS:

GREG DOPPKE

60 AMP COMBO MCP AND POWER DISTRIBUTION PANEL DESCRIPTION: (BB) 30 A, (AA) 15 A CIRCUITS ECS-5121-BB-AA-TT-BOM (BASE BOM) DESCRIPTION:

SYSTEM/TOOL NO: DRAWING NUMBER: ECS-5121-BB-AA-TT

REVISION LETTER: B DATE: RELEASE DATE: 2020-03-31 2021-09-24

SECTION SHEET LETTER: NUMBER: 4 of 4

R	EV	ITEM NUMBER	CHANGE DESCRIPTION	DATE	CHANGE CODE	CHANGED BY	REV	ITEM NUMBER	CHANGE DESCRIPTION	DATE	CHANGE CODE	CHANGED BY	
		HOHBER			CODE	DI .		NOTIBLE			CODE		
													CHANGE CODE PR PRODUCT CHANGE
													R PLANT REQUEST
													MP MECHANICAL PROCESS CHANGE
													CP CONTROL PROCESS CHANGE
													M MECHANICAL DESIGN CHANGE
													FLOOD AND BUILD
													F CHANGE
			GM ENGINEER: DESIGN SOURCE: DESIGN LEADER: PROGRAM	MS: PACKAG	GE 60 /	AMP COMBO	MCP /	AND POW	ER DISTRIBUTION PANEL SYSTEM/TOOL NO:		RE	LEASE DATE:	REVISION SECTION SHEET LETTER: NUMBER:
<u>u</u> M	GN	1 - STANDARD	HARDWARE GREG DOPPKE ORS CORPORATION NO RIGHTS ARE GRANTED TO THE FURNISHING OF SERVICES AND SUPPLIES.	DESCRI SHEET	PTION: (BB) 30 A, (AA)	15 A (ECS. 5121	-BB-AA-TT-BOM (AA OPTION) DRAWING NUMBER:		20	020-03-31	
HIS MATE	ERIAL I MATER	S THE PROPERTY OF GENERAL MOTO RIAL FOR ANY PURPOSE OTHER THAN	ORS CORPORATION. NO RIGHTS ARE GRANTED TO VITHE FURNISHING OF SERVICES AND SUPPLIES.	DESCRI	PTION:	1 CHANGE S	N7⊏E1:	EC2-2121	ECS-5121-BB-AA-TT				DATE: YB 1 OF 2
	CTAT	US: RELEASED							PROJECT NAME: ECS-5121-BB-AA-TT RevB(2021-09-24)		CAN	VE DATE: 202	1-09-24 EPLAN VERSION: 2,7,3

ECS-5121-BB-AA-TT-BOM (AA OPTION)

SOURCE **LEGEND**

F - FURNISHED BY GM

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вом	REV N	ITEM NUMBER	QUANTITY	PART DESCRIPTION	MANUFACTURER	PART NUMBER	SOURCE	GCCL REFERENCE	COMMENTS
	1	11249	2	TERMINAL COVER FOR BOX TERMINALS FOR CIRCUIT BREAKER 3RV2742 IN SIZE S3	SIEMENS	3RV2948-1LA00	B3-N		MULTIPLY QUANTITIES BY AA
	1	11251		CIRCUIT BREAKER SIZE S3 FOR SYSTEM PROTECTION WITH APPROVAL CIRCUIT BREAKER UL 489, CSA C22.2 NO.5-02 A-RELEASE 15 A N-RELEASE 225 A SCREW TERMINAL	SIEMENS	3RV2742-5BD10	В3		MULTIPLY QUANTITIES BY AA

GM - STANDARD

GM ENGINEER: HARDWARE TEAM

DESIGN LEADER: PROGRAMS:

GREG DOPPKE

60 AMP COMBO MCP AND POWER DISTRIBUTION PANEL DESCRIPTION: (BB) 30 A, (AA) 15 A CIRCUITS ECS-5121-BB-AA-TT-BOM (AA OPTION) DESCRIPTION:

SYSTEM/TOOL NO: DRAWING NUMBER: ECS-5121-BB-AA-TT REVISION LETTER:

SECTION SHEET

RELEASE DATE:

2020-03-31

REV	ITEM NUMBER	CHANGE DESCRIPTION	DATE	CHANGE CODE	CHANGED BY	REV	ITEM NUMBER	CHANGE DESCRIPTION	DATE	CHANGE CODE	CHANGED BY			
1														
													CHANGE C	
												R PLA	NT REQUE CHANICAL	ST
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	SM - STANDARD	GM ENGINEER: DESIGN SOURCE: DESIGN LEADER: PROG	GRAMS: PACKAC	GE 60	AMP COMBO	MCP /	AND POW	ER DISTRIBUTION PANEL SYS	TEM/TOOL NO:	RE	LEASE DATE: 020-03-31	REVISION LETTER:	SECTION S LETTER: N	SHEE
V	IN - STANDARD	HARDWARF GREG	DESCRI	relion: (BB	30 A. (AA)	15 A (IRCUITS			20	15-60-07-	I	1	.0111
		HARDWARE TEAM GREG DOPPKE ORS CORPORATION. NO RIGHTS ARE GRANTED TO NOTHER FURNISHING OF SERVICES AND SUPPLIES.	SHEET DESCRI		M CHANGE S	HEET:	ECS-512:		AWING NUMBER: S-5121-BB-AA-TT			DATE:	YC	1

ECS-5121-BB-AA-TT-BOM (BB OPTION)

SOURCE **LEGEND**

F - FURNISHED BY GM

M - CONSTRUCTION SOURCE MAKE ITEM REF - PURCHASED BY OTHERS (NO SUBSTITUTION)

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BOM RE	/ ITEM NUMBER	QUANTITY	PART DESCRIPTION	MANUFACTURER	PART NUMBER	SOURCE	GCCL REFERENCE	COMMENTS
	11249	2	TERMINAL COVER FOR BOX TERMINALS FOR CIRCUIT BREAKER 3RV2742 IN SIZE S3	SIEMENS	3RV2948-1LA00	B3-N		MULTIPLY QUANTITIES BY BB
	11254		CIRCUIT BREAKER SIZE S3 FOR SYSTEM PROTECTION WITH APPROVAL CIRCUIT BREAKER UL 489, CSA C22.2 NO.5-02 A-RELEASE 30 A N-RELEASE 390 A SCREW TERMINAL	SIEMENS	3RV2742-5ED10	В3		MULTIPLY QUANTITIES BY BB

GM - STANDARD

GM ENGINEER: HARDWARE TEAM

DESIGN LEADER: PROGRAMS:

GREG DOPPKE

60 AMP COMBO MCP AND POWER DISTRIBUTION PANEL DESCRIPTION: (BB) 30 A, (AA) 15 A CIRCUITS ECS-5121-BB-AA-TT-BOM (BB OPTION) DESCRIPTION:

SYSTEM/TOOL NO: DRAWING NUMBER: ECS-5121-BB-AA-TT RELEASE DATE: 2020-03-31

REVISION LETTER: SECTION SHEET LETTER: NUMBER:

CHANGE DESCRIPTION DATE CHANGE CODE CHANGE CHANGE DESCRIPTION DATE CHANGE CODE REV NUMBER CHANGE DESCRIPTION DATE CHANGE CODE CHANGE CHANGE CHANGE CHANGE CHANGE CODE CHANGE CODE CHANGE CHANGE CHANGE CHANGE CHANGE CHANGE CODE CHANGE CODE CHANGE CHANGE CHANGE CHANGE CHANGE CHANGE CODE CHANGE CODE CHANGE CHANGE CHANGE CHANGE CHANGE CHANGE CODE CHA
DESIGN SOURCE: DESIGN LEADER: PROGRAMS: PACKAGE 60 AMP COMBO MCP AND POWER DISTRIBUTION PANEL SYSTEM/TOOL NO: RELEASE
E DESIGN SOURCE: BESIGN SOURCE: GREG DOPPKE ORIGINITS ARE GRANTED TO SERVICES AND SUPPLIES. DESIGN SOURCE: BOSIGN LEADER: GREG DOPPKE ORIGINITS ARE GRANTED TO SERVICES AND SUPPLIES. PACKAGE 60 AMP COMBO MCP AND POWER DISTRIBUTION PANEL SYSTEM/TOOL NO: RELEASE 2020-00 DESCRIPTION: BB) 30 A, (AA) 15 A CIRCUITS SHEET BOM CHANGE SHEET: ECS-5121-BB-AA-TT-BOM (TT OPTION) DESCRIPTION: ECS-5121-BB-AA-TT

ECS-5121-BB-AA-TT-BOM (TT OPTION)

SOURCE **LEGEND**

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BOM REV	ITEM NUMBER	QUANTITY	PART DESCRIPTION	MANUFACTURER	PART NUMBER	SOURCE	GCCL REFERENCE	COMMENTS
	16542	2	TRANSFORMER, CONTROL, 3 KVA, PRIMARY 480-240 V, SECONDARY 240-120 V, 1 PHASE, 50/60 HZ, IP54, 115 °C RISE, 40 °C AMBIENT	SIEMENS	1D1N003	B2		TT=02. THIS IS THE NORTH AMERICA OPTION (480 VAC)
	16552	2	TRANSFORMER, CONTROL, 3 KVA, PRIMARY 440-416-400-380-220-208-200-190 V, SECONDARY 240-120 V, 1 PHASE, 50/60 HZ, IP54, 115 °C RISE, 40 °C AMBIENT	SIEMENS	1H1N003CE	B2		TT=03. THIS IS THE NON-NORTH AMERICA OPTION (440/416/400/380 VAC)
	16562	2	TRANSFORMER, CONTROL, 3 KVA, PRIMARY 480-440-416-380-240-220-208-190 V, SECONDARY 240-120 V, 1 PHASE, 50/60 HZ, IP54, 115 °C RISE, 40 °C AMBIENT	SIEMENS	1X1N003CE	B2		TT=04. THIS IS THE NON-NORTH AMERICA OPTION (480/440/416/380 VAC)

GM - STANDARD

GM ENGINEER: HARDWARE TEAM

DESIGN LEADER: PROGRAMS:

GREG DOPPKE

DESCRIPTION:

60 AMP COMBO MCP AND POWER DISTRIBUTION PANEL DESCRIPTION: (BB) 30 A, (AA) 15 A CIRCUITS ECS-5121-BB-AA-TT-BOM (TT OPTION)

SYSTEM/TOOL NO: RELEASE DATE: 2020-03-31 DRAWING NUMBER: ECS-5121-BB-AA-TT

REVISION LETTER:

SECTION SHEET

DEVICE LIST

DEVICE TAG	ITEM NUMBER	QTY	DESCRIPTION	MANUFACTURER PART NUMBER
E104DISC	11103	1	OPERATING UNIT WITH ROD VARIABLE DEPTH FLANGE MOUNTED OPERATOR KIT, 3 POLE: CONSISTING OF: HANDLE STEEL CHROME PLATED NEMA 4/4X BLACK=OFF, BLACK=ON SWITCHING MECHANISM MOUNTING DEPTH 8" TO 16" ACCESSORY FOR: 3VA5 250 3VA6 250, W/ ADAPTER PLATE	SIEMENS 3VA9278-0DK84
	11126	1	TERMINAL COVER EXTENDED 3 POLE; 1 PC. WITH PROBE HOLES FOR VOLTAGE TESTING ACCESSORY FOR: 3VA6 150/250 3VA5 250 PLUG-IN/DRAW-OUT BASE 3VA6 150/250	SIEMENS 3VA9271-0WF31
	11133	1	BOX TERMINAL W. CONTROL WIRE VOLTAGE TAP-OFF 3 UNITS ACCESSORY FOR: 3VA6 150/250	SIEMENS 3VA9143-0JH12
	11144	1	WIRE CONNECTOR FOR 6 CABLES; 3 PCS.; INCL. TERMINAL COVER EXTENDED WITH PROBE HOLES FOR VOLTAGE TEST; ACCESSORY FOR: 3VA6 150/250 PLUG-IN/DRAW-OUT BASE 3VA6 150/250	SIEMENS 3VA9243-0JF68
	11281	1	CIRCUIT BREAKER 3VA6 UL FRAME 150 BREAKING CAPACITY CLASS H 65KA @ 480V 3-POLE, LINE PROTECTION ETU350, LSI, IN=100A OVERLOAD PROTECTION IR=40A100A SHORT-CIRCUIT PROTECTION ISD=1.510 X IR, II=12 X IN WITHOUT CONNECTION	SIEMENS 3VA6110-6HN31-0AA0
E114AVT ABSENCE OF VOLTAGE TESTER	80040	1	VERISAFE ABSENCE OF VOLTAGE TESTER, 8' (2.4 m) SYSTEM CABLE, 10' (3.1 m) SENSOR LEADS	PANDUIT VS-AVT-C08-L10
TESTER	80041	0 A/R	FERRULE, NON-INSULATED, #14 AWG, 12 mm LENGTH, FOR AVT SENSOR LEAD	PANDUIT F80-12-M
	80042	1	LITHIUM BATTERY, 3.6 V, SIZE AA	TADIRAN TL-5903 XENO ENERGY XLP-060F
E152CB	11249	2	TERMINAL COVER FOR BOX TERMINALS FOR CIRCUIT BREAKER 3RV2742 IN SIZE S3	SIEMENS 3RV2948-1LA00
	11251	1	CIRCUIT BREAKER SIZE S3 FOR SYSTEM PROTECTION WITH APPROVAL CIRCUIT BREAKER UL 489, CSA C22.2 NO.5-02 A-RELEASE 15 A N-RELEASE 225 A SCREW TERMINAL	SIEMENS 3RV2742-5BD10
	11254	1	CIRCUIT BREAKER SIZE S3 FOR SYSTEM PROTECTION WITH APPROVAL CIRCUIT BREAKER UL 489, CSA C22.2 NO.5-02 A-RELEASE 30 A N-RELEASE 390 A SCREW TERMINAL	SIEMENS 3RV2742-5ED10
E158CB	11249	2	TERMINAL COVER FOR BOX TERMINALS FOR CIRCUIT BREAKER 3RV2742 IN SIZE S3	SIEMENS 3RV2948-1LA00
	11251	1	CIRCUIT BREAKER SIZE S3 FOR SYSTEM PROTECTION WITH APPROVAL CIRCUIT BREAKER UL 489, CSA C22.2 NO.5-02 A-RELEASE 15 A N-RELEASE 225 A SCREW TERMINAL	SIEMENS 3RV2742-5BD10
	11254	1	CIRCUIT BREAKER SIZE S3 FOR SYSTEM PROTECTION WITH APPROVAL CIRCUIT BREAKER UL 489, CSA C22.2 NO.5-02 A-RELEASE 30 A N-RELEASE 390 A SCREW TERMINAL	SIEMENS 3RV2742-5ED10
E164CB	11249	2	TERMINAL COVER FOR BOX TERMINALS FOR CIRCUIT BREAKER 3RV2742 IN SIZE S3	SIEMENS 3RV2948-1LA00
	11251	1	CIRCUIT BREAKER SIZE S3 FOR SYSTEM PROTECTION WITH APPROVAL CIRCUIT BREAKER UL 489, CSA C22.2 NO.5-02 A-RELEASE 15 A N-RELEASE 225 A SCREW TERMINAL	SIEMENS 3RV2742-5BD10
	11254	1	CIRCUIT BREAKER SIZE S3 FOR SYSTEM PROTECTION WITH APPROVAL CIRCUIT BREAKER UL 489, CSA C22.2 NO.5-02 A-RELEASE 30 A N-RELEASE 390 A SCREW TERMINAL	SIEMENS 3RV2742-5ED10
E170CB	11249	2	TERMINAL COVER FOR BOX TERMINALS FOR CIRCUIT BREAKER 3RV2742 IN SIZE S3	SIEMENS 3RV2948-1LA00
	11251	1	CIRCUIT BREAKER SIZE S3 FOR SYSTEM PROTECTION WITH APPROVAL CIRCUIT BREAKER UL 489, CSA C22.2 NO.5-02 A-RELEASE 15 A N-RELEASE 225 A SCREW TERMINAL	SIEMENS 3RV2742-5BD10

DEVICE TAG	ITEM NUMBER	QTY	DESCRIPTION	MANUFACTURER PART NUMBER
	11254	1	CIRCUIT BREAKER SIZE S3 FOR SYSTEM PROTECTION WITH APPROVAL CIRCUIT BREAKER UL 489, CSA C22.2 NO.5-02 A-RELEASE 30 A N-RELEASE 390 A SCREW TERMINAL	SIEMENS 3RV2742-5ED10
E400DISC	11349	1	CIRCUIT BREAKER 3VA5 UL FRAME 125 BREAKING CAPACITY CLASS H 65KA @ 480V 3-POLE, LINE PROTECTION TM210, FIFM, IN=15A OVERLOAD PROTECTION IR=15A FIXED SHORT-CIRCUIT PROTECTION II=15 X IN WITHOUT CONNECTION	SIEMENS 3VA5195-6ED31-0AA0
	11110	2	SIEMENS LOW VOLTAGE 3VA CIRCUIT BREAKER ACCESSORY. 3-PIECE STEEL BODY 1-CONDUCTOR BOX TERMINAL - WIRE SIZE: 14 - 3/0 AWG. FOR (125A 3VA5) FRAME UL CIRCUIT BREAKERS.	SIEMENS 3VA9133-0JA11
	11106	1	BREAKER 3VA FRONT MOUNTED ROTARY OPERATOR FMRO FOR 3VA51 GRAY STANDARD WITHOUT ILLUMINATION KIT WITHOUT DOOR INTERLOCK WITHOUT DOOR OPENING FUNCTION WITH HANDLE NEMA 1	SIEMENS 3VA9137-0EK11
	11120	2	TERMINAL COVER 3 POLE; 1 PC. WITH PROBE HOLES FOR VOLTAGE TESTING ACCESSORY FOR: 3VA4/5 125	SIEMENS 3VA9131-0WD31
E4007 PROCESSOR POWER TRANSFORMER MOUNTED OUTSIDE	16542	1	TRANSFORMER, CONTROL, 3 KVA, PRIMARY 480-240 V, SECONDARY 240-120 V, 1 PHASE, 50/60 HZ, IP54, 115 °C RISE, 40 °C AMBIENT	SIEMENS 1D1N003
ENCLOSURE	16552	1	TRANSFORMER, CONTROL, 3 KVA, PRIMARY 440-416-400-380-220-208-200-190 V, SECONDARY 240-120 V, 1 PHASE, 50/60 HZ, IP54, 115 °C RISE, 40 °C AMBIENT	SIEMENS 1H1N003CE
	16562	1	TRANSFORMER, CONTROL, 3 KVA, PRIMARY 480-440-416-380-240-220-208-190 V, SECONDARY 240-120 V, 1 PHASE, 50/60 HZ, IP54, 115 °C RISE, 40 °C AMBIENT	SIEMENS 1X1N003CE
E410CB	11230	1	MINIATURE CIRCUIT-BREAKER 240 V 14 KA, 1-POLE, C, 30 A, D=70 mm TO UL 489, SAME POLARITY	SIEMENS 5SJ4130-7HG40
E414CB	11225	1	CIRCUIT BREAKER, MINIATURE, 240 V, 14 KA, 1-POLE, C, 10 A, D=70 mm TO UL 489, SAME POLARITY	SIEMENS 5SJ4110-7HG40
E414LT PROCESSOR POWER ON	12504	1	INDICATOR LIGHT, 22 mm, ROUND, METAL, SHINY, GREEN, SMOOTH LENS	SIEMENS 3SU1051-6AA40-0AA0
POWER ON	12630	1	HOLDER FOR 3 MODULES, METAL	SIEMENS 3SU1550-0AA10-0AA0
	12654	1	LED MODULE WITH INTEGRATED LED, 24-240V AC/DC, GREEN, SPRING-TYPE TERMINAL, FOR FRONT PLATE MOUNTING	SIEMENS 3SU1401-1BH40-3AA0
E418LS DOOR SWITCH	75285	1	DOOR POSITION SWITCH, ENCLOSED IN MOLDED-PLASTIC HOUSING 31mm SNAP-ACTION CONTACTS 1NO+1NC, TEFLON PLUNGER	SIEMENS 3SE5232-0HC05
E418LT PANEL LIGHT	75278	1	UNIVERSAL LIGHT, LED, 50-60 HZ, 5 W, 100 - 240 VAC	STEGO 02542.3-11
E452CB	11225	1	CIRCUIT BREAKER, MINIATURE, 240 V, 14 KA, 1-POLE, C, 10 A, D=70 mm TO UL 489, SAME POLARITY	SIEMENS 5SJ4110-7HG40
E456CB	11225	1	CIRCUIT BREAKER, MINIATURE, 240 V, 14 KA, 1-POLE, C, 10 A, D=70 mm TO UL 489, SAME POLARITY	SIEMENS 5SJ4110-7HG40
E460CB	11225	1	CIRCUIT BREAKER, MINIATURE, 240 V, 14 KA, 1-POLE, C, 10 A, D=70 mm TO UL 489, SAME POLARITY	SIEMENS 5SJ4110-7HG40
E480PWS CHASSIS 1 POWER	14005	1	PLC, 1756 CHASSIS POWER SUPPLY, 120-240 VAC INPUT, 10 A	ROCKWELL 1756-PA72
SUPPLY	14000	1	PLC, 1756 CHASSIS ASSEMBLY - 4 SLOTS	ROCKWELL 1756-A4
E500CB	11251	1	CIRCUIT BREAKER SIZE S3 FOR SYSTEM PROTECTION WITH APPROVAL CIRCUIT BREAKER UL 489, CSA C22.2 NO.5-02 A-RELEASE 15 A N-RELEASE 225 A SCREW TERMINAL	SIEMENS 3RV2742-5BD10

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	HIS MATERIAL IS THE PROPERTY OF GENERAL MOT ISE SUCH MATERIAL FOR ANY PURPOSE OTHER THA	ORS CORPORATION, NO RI IN THE FURNISHING OF SER				DESCRIPTION:		ECS-5121-BB-AA-TT	[2	2021-09-24	1		_
ŀ		TEAM		DOPPKE		SHEET	DEVICE LIST	DRAWING NUMBER:		DATE:	Y7	1 OF	ן צ
	<u>GM</u> ∭GM - STANDARD	HARDWARE		GREG		DESCRIPTION:	(BB) 30 A, (AA) 15 A CIRCUITS		2020-03-31	B	LETTER: N	IUMBEK:	
ı	CM CM CTANDARD	GM ENGINEER:	DESIGN SOURCE:		PROGRAMS:	PACKAGE	60 AMP COMBO MCP AND POWER DISTRIBUTION PANEL	SYSTEM/TOOL NO:	RELEASE DATE:	LETTER:	SECTION S		

PROJECT NAME: ECS-5121-BB-AA-TT_RevB(2021-09-24)

SAVE DATE: 2021-09-24 EPLAN VERSION: 2.7.3

DEVICE LIST

DEVICE TAG	ITEM NUMBER	QTY	DESCRIPTION	MANUFACTURER PART NUMBER
E500CB	11249	2	TERMINAL COVER FOR BOX TERMINALS FOR CIRCUIT BREAKER 3RV2742 IN SIZE S3	SIEMENS 3RV2948-1LA00
E.SONT CONTROL POWER TRANSFORMER MOUNTED OUTSIDE	16542	1	TRANSFORMER, CONTROL, 3 KVA, PRIMARY 480-240 V, SECONDARY 240-120 V, 1 PHASE, 50/60 HZ, IP54, 115 °C RISE, 40 °C AMBIENT	SIEMENS 1D1N003
ENCLOSURE	16552	1	TRANSFORMER, CONTROL, 3 KVA, PRIMARY 440-416-400-380-220-208-200-190 V, SECONDARY 240-120 V, 1 PHASE, 50/60 HZ, IP54, 115 °C RISE, 40 °C AMBIENT	SIEMENS 1H1N003CE
	16562	1	TRANSFORMER, CONTROL, 3 KVA, PRIMARY 480-440-416-380-240-220-208-190 V, SECONDARY 240-120 V, 1 PHASE, 50/60 HZ, IP54, 115 °C RISE, 40 °C AMBIENT	SIEMENS 1X1N003CE
E510CB	11230	1	MINIATURE CIRCUIT-BREAKER 240 V 14 KA, 1-POLE, C, 30 A, D=70 mm TO UL 489, SAME POLARITY	SIEMENS 5SJ4130-7HG40
E514CB	11225	1	CIRCUIT BREAKER, MINIATURE, 240 V, 14 KA, 1-POLE, C, 10 A, D=70 mm TO UL 489, SAME POLARITY	SIEMENS 5SJ4110-7HG40
E514LT CONTROL POWER ON	12504	1	INDICATOR LIGHT, 22 mm, ROUND, METAL, SHINY, GREEN, SMOOTH LENS	SIEMENS 3SU1051-6AA40-0AA0
CONTROL TOWER ON	12630	1	HOLDER FOR 3 MODULES, METAL	SIEMENS 3SU1550-0AA10-0AA0
	12654	1	LED MODULE WITH INTEGRATED LED, 24-240V AC/DC, GREEN, SPRING-TYPE TERMINAL, FOR FRONT PLATE MOUNTING	SIEMENS 3SU1401-1BH40-3AA0
E552CB	11225	1	CIRCUIT BREAKER, MINIATURE, 240 V, 14 KA, 1-POLE, C, 10 A, D=70 mm TO UL 489, SAME POLARITY	SIEMENS 5SJ4110-7HG40
E556CB	11225	1	CIRCUIT BREAKER, MINIATURE, 240 V, 14 KA, 1-POLE, C, 10 A, D=70 mm TO UL 489, SAME POLARITY	SIEMENS 5SJ4110-7HG40
E560CB	11225	1	CIRCUIT BREAKER, MINIATURE, 240 V, 14 KA, 1-POLE, C, 10 A, D=70 mm TO UL 489, SAME POLARITY	SIEMENS 5SJ4110-7HG40
E602CB	11222	1	CIRCUIT BREAKER, MINIATURE, 240 V, 14 KA, 1-POLE, C, 6 A, D=70 mm TO UL 489, SAME POLARITY	SIEMENS 5SJ4106-7HG40
E602PWS POWER SUPPLY	80030	1	POWER SUPPLY, SITOP, PSU6200, INPUT: 120/230 VAC, OUTPUT: 24 VDC / 3.7 A, NEC CLASS 2	SIEMENS 6EP3333-7LB00-0AX0
E702CB	11222	1	CIRCUIT BREAKER, MINIATURE, 240 V, 14 KA, 1-POLE, C, 6 A, D=70 mm TO UL 489, SAME POLARITY	SIEMENS 5SJ4106-7HG40
E702PWS POWER SUPPLY	80030	1	POWER SUPPLY, SITOP, PSU6200, INPUT: 120/230 VAC, OUTPUT: 24 VDC / 3.7 A, NEC CLASS 2	SIEMENS 6EP3333-7LB00-0AX0
E752CB	11222	1	CIRCUIT BREAKER, MINIATURE, 240 V, 14 KA, 1-POLE, C, 6 A, D=70 mm TO UL 489, SAME POLARITY	SIEMENS 5SJ4106-7HG40
E752PWS POWER SUPPLY	80030	1	POWER SUPPLY, SITOP, PSU6200, INPUT: 120/230 VAC, OUTPUT: 24 VDC / 3.7 A, NEC CLASS 2	SIEMENS 6EP3333-7LB00-0AX0
PDP	75813	2	LABEL, WARNING, PICTOGRAM FOR HOT SURFACE, 50 mm H X 50 mm W	BRADY Y5062718
	75805	0 A/R	TAGS, PANEL, STICK ON OR LAMICOID, MINIMUM FONT SIZE - 5mm (20PT)	CUSTOM GENERIC TAG - PANEL
	80098	1	ENCLOSURE BUILT TO LATEST GCCB-1 AND GCCH-1 SPECIFICATIONS, 1500 mm H X 800 mm W X 400 mm D, RAL 7035 GRAY, 50 mm MOUNTING ANGLES, SUBPLATE, 1397 mm H X 669 mm W, 12 GAUGE MIN, GALVANIZED	HOFFMANN OR EQUIVA
	75600	25	HOLE PLUG, 22.5mm DIAMETER	SIEMENS
	75601	1	HOLE PLUG, 16mm DIAMETER	3SU1900-0FA11-0AA0 SIEMENS 3SB2908-3AA

DEVICE TAG	ITEM NUMBER	QTY	DESCRIPTION	MANUFACTURER PART NUMBER
	75709	1	KEYLOCK BOX, 9.5" X 3" X1.5"	SAGINAW SCE-KLB BAS 018115
	12712	14	BLOCK, TERMINAL, END ANCHORS - DIN RAIL, EW 35, BEIGE	WEIDMULLER 0383560000
	75815	1	SAFETY, HOLDER, PLACARD, FOR 11" X 17" GRAPHIC AND 11" X 8.5" LOCKOUT LIST SHEETS, GMT RED, SCREEN PRINT "LOCKOUT PLACARD", (1) 11" X 17" HORIZONTAL PRINT POCKET SAVERS AND (2) 8.5" X 11" PRINT POCKET SAVERS, HARDWARE INCLUDED (LANDSCAPE)	WECO OR EQUIVALENT GMT-1218LO-LP
	80100	1	PRINT POCKET, EXTERNAL MOUNT, RAL7035 GREY, 329 mm H x 464 mm W x 101 mm D WITH HINGED COVER	HOFFMANN OR EQUIVALER
	75120	0 A/R	STANDARD MOUNTING RAIL 35X27X15,1.5mm THICK, 2 METERS LONG	PHOENIX 0806602
	75110	0 A/R	DUCT,100mm W X 100mm H, WITH COVER	TEHALIT DNG100100
	75108	0 A/R	DUCT,50 mm W X 100 mm H, WITH COVER	TEHALIT DNG100050
	15875	0 A/R	3/8 INCH - NPT GASKET SEAL FOR MINI RECEPTACLE	WOODHEAD - MOLEX 00-5090
	15876	0 A/R	LOCKING NUT FOR MINI RECEPTACLE	WOODHEAD - MOLEX 30-1100
1 PE BAR	11080	2	BUSBAR SYSTEM, ACCESSORIES BUSBAR CENTER-TO-CENTER SPACING 60 mm N/PE BUSBAR HOLDER FOR BUSBARS 12X 5 (10)-30X 5 (10) AND 6X 6 mm, FREE-STANDING INSTALLATION OR ATTACHMENT TO 8US1923-2AA01	SIEMENS 8US1923-1AA01
	81430	0 A/R	COPPER RAIL, TIN PLATED, 30x5x2400	CUSTOM 30X5X2400
	11415	26	TERMINAL, BUSBAR ADAPTER, 60 mm FAST BUS BUSBAR ADAPTER SYSTEM, FOR 5 mm BUSBAR THICKNESS 1,5-16 mm ²	SIEMENS 8US1921-2AA00
	11417	1	TERMINAL, BUSBAR ADAPTER, 60 mm FAST BUS BUSBAR ADAPTER SYSTEM, FOR 5 mm BUSBAR THICKNESS 16-70 mm ²	SIEMENS 8US1921-2AD00
2 PE LUG	80000	1	BLOCK, TERMINAL, WPE 50N, PE, 50mm², GREEN-YELLOW	WEIDMULLER 1846040000
PLC1.3 (16) DC INPUT	14201	1	PLC, 1756 I/O, MODULE, INPUT - 10-30 VDC -16 POINT NO DIAGNOSTIC	ROCKWELL 1756-IB16
	14207	1	I/O, CHASSIS MOUNTED TERMINAL, 1756 I/O, WIRING ARM - 20 PIN SCREW CLAMP BLOCK	ROCKWELL 1756-TBNH
AC1	15743	1	CORD, RECEPTACLE, MINI 3 PIN, FEMALE-INTERNAL THREADS, 3 METER (9.84 FT) PIGTAIL - 1/2 INCH NPT, AC C.C., 16 AWG, 600V, 13A	WOODHEAD - MOLEX 1R3000A20M030
AC2	15743	1	CORD, RECEPTACLE, MINI 3 PIN, FEMALE-INTERNAL THREADS, 3 METER (9.84 FT) PIGTAIL - 1/2 INCH NPT, AC C.C., 16 AWG, 600V, 13A	WOODHEAD - MOLEX 1R3000A20M030
AC3	15743	1	CORD, RECEPTACLE, MINI 3 PIN, FEMALE-INTERNAL THREADS, 3 METER (9.84 FT) PIGTAIL - 1/2 INCH NPT, AC C.C., 16 AWG, 600V, 13A	WOODHEAD - MOLEX 1R3000A20M030
N P C1	15763	1	CORD, RECEPTACLE, MINI 4 PIN DC, FEMALE, INTERNAL THREAD, 3 METER (9.84 FT) PIGTAIL, 1/2 INCH -14 NPT, 16 AWG, 10A, 600V	WOODHEAD - MOLEX 1R4000A39M030
DC2	15763	1	CORD, RECEPTACLE, MINI 4 PIN DC, FEMALE, INTERNAL THREAD, 3 METER (9.84 FT) PIGTAIL, 1/2 INCH -14 NPT, 16 AWG, 10A, 600V	WOODHEAD - MOLEX 1R4000A39M030
DC3	15763	1	CORD, RECEPTACLE, MINI 4 PIN DC, FEMALE, INTERNAL THREAD, 3 METER (9.84 FT) PIGTAIL, 1/2 INCH -14 NPT, 16 AWG, 10A, 600V	WOODHEAD - MOLEX 1R4000A39M030
DC4	15763	1	CORD, RECEPTACLE, MINI 4 PIN DC, FEMALE, INTERNAL THREAD, 3 METER (9.84 FT) PIGTAIL, 1/2 INCH -14 NPT, 16 AWG, 10A, 600V	WOODHEAD - MOLEX 1R4000A39M030

G	M GM - STANDARD	GM ENGINEER: HARDWARE	DESIGN SOURCE:	DESIGN LEADER: GREG			60 AMP COMBO MCP AND POWER DISTRIBUTION PANEL (BB) 30 A, (AA) 15 A CIRCUITS	SYSTEM/TOOL NO:	RELEASE DATE: 2020-03-31		SECTION LETTER:		
TUTC	MATERIAL IS THE PROPERTY OF GENERAL MOTO	TEAM	CHTC ADE CRANTED TO	DOPPKE		SHEET	DEVICE LIST	DRAWING NUMBER:		DATE:	. YZ	2 OF	∗ 3 ∣
	UCH MATERIAL IS THE PROPERTY OF GENERAL MOTO UCH MATERIAL FOR ANY PURPOSE OTHER THAI					DESCRIPTION:		ECS-5121-BB-AA-TT		2021-09-24	4 1	_	-
1 —	STATUS: RELEASED				•	•	PROJECT NAME: ECS-5121-B	B-AA-TT_RevB(2021-09-24)	SAVE DATE: 202	1-09-24	EPLAN VEF	SION: 2.7.3	3

DEVICE LIST

DEVICE TAG	ITEM NUMBER	QTY	DESCRIPTION	MANUFACTURER PART NUMBER
DC5	15763	1	CORD, RECEPTACLE, MINI 4 PIN DC, FEMALE, INTERNAL THREAD, 3 METER (9.84 FT) PIGTAIL, 1/2 INCH -14 NPT, 16 AWG, 10A, 600V	WOODHEAD - MOLEX 1R4000A39M030
DC6	15763	1	CORD, RECEPTACLE, MINI 4 PIN DC, FEMALE, INTERNAL THREAD, 3 METER (9.84 FT) PIGTAIL, 1/2 INCH -14 NPT, 16 AWG, 10A, 600V	WOODHEAD - MOLEX 1R4000A39M030
EN	19002	1	RECEPTACLE, ETHERNET, 4 PIN, MICRO, FEMALE INT THREAD REC, PG9, TO RJ45, 2 PAIR, CAT5E, 24 AWG, UNSHIELDED, STRANDED, HIGH-FLEX, TPE 2M (6.56 FT)	WOODHEAD - MOLEX ER1PAB3004M020
EN2	19002	1	RECEPTACLE, ETHERNET, 4 PIN, MICRO, FEMALE INT THREAD REC, PG9, TO RJ45, 2 PAIR, CAT5E, 24 AWG, UNSHIELDED, STRANDED, HIGH-FLEX, TPE 2M (6.56 FT)	WOODHEAD - MOLEX ER1PAB3004M020
HAC1	15743	1	CORD, RECEPTACLE, MINI 3 PIN, FEMALE-INTERNAL THREADS, 3 METER (9.84 FT) PIGTAIL - 1/2 INCH NPT, AC C.C., 16 AWG, 600V, 13A	WOODHEAD - MOLEX 1R3000A20M030
HAC2	15743	1	CORD, RECEPTACLE, MINI 3 PIN, FEMALE-INTERNAL THREADS, 3 METER (9.84 FT) PIGTAIL - 1/2 INCH NPT, AC C.C., 16 AWG, 600V, 13A	WOODHEAD - MOLEX 1R3000A20M030
HAC3	15743	1	CORD, RECEPTACLE, MINI 3 PIN, FEMALE-INTERNAL THREADS, 3 METER (9.84 FT) PIGTAIL - 1/2 INCH NPT, AC C.C., 16 AWG, 600V, 13A	WOODHEAD - MOLEX 1R3000A20M030
HDC1	15763	1	CORD, RECEPTACLE, MINI 4 PIN DC, FEMALE, INTERNAL THREAD, 3 METER (9.84 FT) PIGTAIL, 1/2 INCH -14 NPT, 16 AWG, 10A, 600V	WOODHEAD - MOLEX 1R4000A39M030
HDC2	15763	1	CORD, RECEPTACLE, MINI 4 PIN DC, FEMALE, INTERNAL THREAD, 3 METER (9.84 FT) PIGTAIL, 1/2 INCH -14 NPT, 16 AWG, 10A, 600V	WOODHEAD - MOLEX 1R4000A39M030
HDC3	15763	1	CORD, RECEPTACLE, MINI 4 PIN DC, FEMALE, INTERNAL THREAD, 3 METER (9.84 FT) PIGTAIL, 1/2 INCH -14 NPT, 16 AWG, 10A, 600V	WOODHEAD - MOLEX 1R4000A39M030

DEVICE TAG	ITEM NUMBER	QTY	DESCRIPTION	MANUFACTURER PART NUMBER

GM GM - STANDARD	GM ENGINEER: I	DESIGN SOURCE:	DESIGN LEADER: GREG	PROGRAMS:		60 AMP COMBO MCP AND POWER DISTRIBUTION PANEL (BB) 30 A, (AA) 15 A CIRCUITS	SYSTEM/TOOL NO:	RELEASE DATE: 2020-03-31	REVISION LETTER: B	SECTION S LETTER:		
THIS MATERIAL IS THE PROPERTY OF GENERAL MOTORS USE SUCH MATERIAL FOR ANY PURPOSE OTHER THAN TH	TEAM S CORPORATION, NO RIGH	TS ARE GRANTED TO CES AND SUPPLIES.	DOPPKE		SHEET DESCRIPTION:	DEVICE LIST	DRAWING NUMBER: ECS-5121-BB-AA-TT		DATE: 2021-09-24	, YZ	3 0	⁻ 3