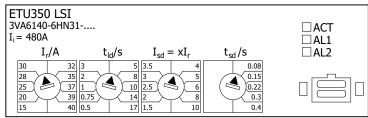
# 30 AMP POWER DISTRIBUTION PANEL NO BRANCH CIRCUITS

ECS-5100-TT

### MAIN CIRCUIT BREAKER SETTINGS E104DISC



SET:  $I_r/A = 30 A$   $t_{id}/s = 5 s$   $I_{sd} = xI_r = 4$  $t_{sd}/s = 0.08 s$ 

#### **APPLICATION NOTES:**

- 1. TT IS THE TRANSFORMER TYPE (TT = 00 NO TRANSFORMER)

(TT = 02 FOR NORTH AMERICA 480V)

(TT = 03 FOR NON-NA REGIONS 380/400/416/440V) (TT = 04 FOR NON-NA REGIONS 380/416/440/480V)

2. EXAMPLE PART NUMBER: ECS-5100-02 (THIS ECS WOULD HAVE THE NA 480 V TRANSFORMER OPTION).

### DRAWING PACKAGE REVISION LEVEL: B

(A)(B)LAST PART SELECTED WITH: GM\_ePartsDB\_202106

DESIGN LEADER: PROGRAMS: GM ENGINEER: DESIGN SOURCE: GM - STANDARD HARDWARE GREG DOPPKE TEAM

30 AMP POWER DISTRIBUTION PANEL DESCRIPTION: NO BRANCH CIRCUITS TITLE AND REFERENCE SHEET DESCRIPTION:

SYSTEM/TOOL NO: DRAWING NUMBER: ECS-5100-TT

REFERENCE USED:

RELEASE DATE: 2020-04-01

LETTER: 2021-09-23

SECTION SHEET 1 of 3

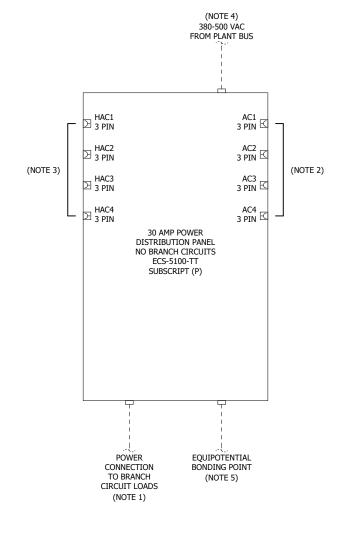
NONE REQUIRED

	SECTION	REV	SHEET	DESCRIPTION
Α	REFERENCE	В	1	TITLE AND REFERENCE SHEET
		В	2	TABLE OF CONTENTS
		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
			4	120 VAC POWER ABOVE DISCONNECT
			5	120 VAC POWER BELOW DISCONNECT
Χ	ENCLOSURE	В	1	ENCLOSURE LAYOUT - FRONT
		Α	2	ENCLOSURE LAYOUT - SIDE
			3	ENCLOSURE LAYOUT - TOP
		В	4	TAG DETAILS
		В	5	TAG DETAILS
			6	SUBPLATE DETAIL
		В	7	SUBPLATE LAYOUT
		В	8	SUBPLATE DETAIL VIEW
		В	9	SUBPLATE DETAIL VIEW
			10	RECEPTACLE PIN CHART
		Α	11	ENCLOSURE FOOTPRINT
YΑ	BILL OF	В	1	BOM CHANGE SHEET: ECS-5100-TT-BOM (BASE BOM)
	MATERIAL	В	2	ECS-5100-TT-BOM (BASE BOM)
		В	3	ECS-5100-TT-BOM (BASE BOM)
ΥB	VARIABLE BOM		1	BOM CHANGE SHEET: ECS-5100-TT-BOM (TT OPTION)
			2	ECS-5100-TT-BOM (TT OPTION)
ΥZ	DEVICE LIST	В	1	DEVICE LIST
		В	2	DEVICE LIST

SECTION	REV	SHEET	DESCRIPTION

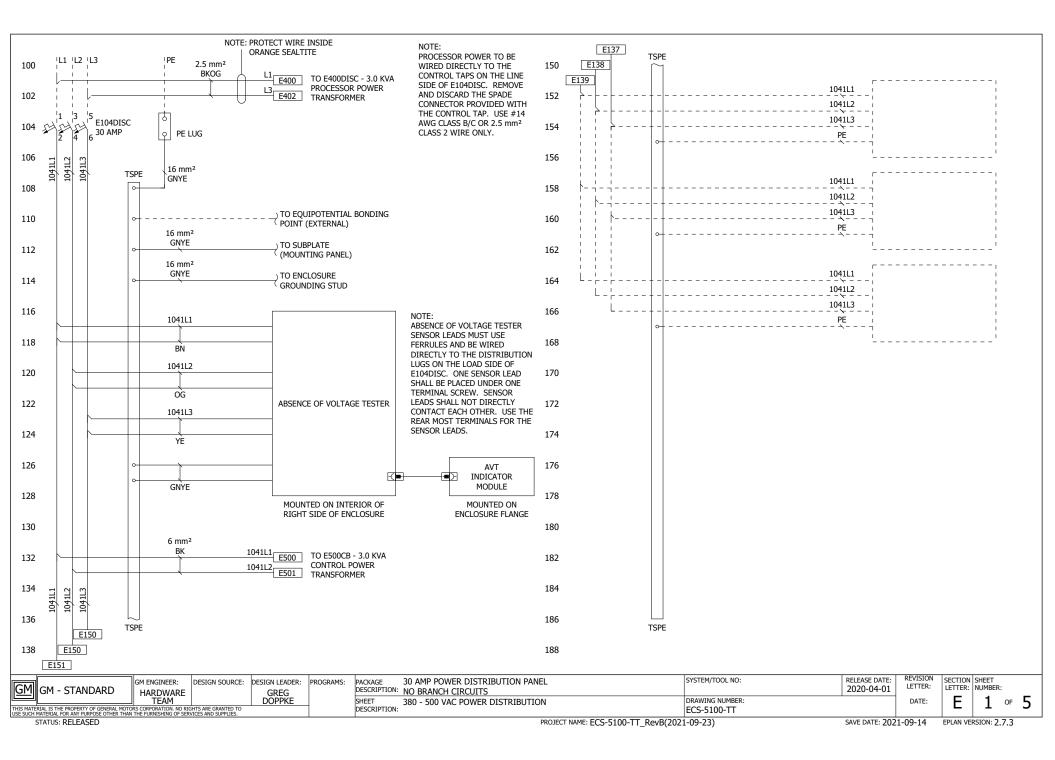
GM GM - STANDARD	GM ENGINEER: HARDWARE	DESIGN SOURCE:	DESIGN LEADER: GREG	PROGRAMS:	PACKAGE DESCRIPTION:	30 AMP POWER DISTRIBUTION PANEL NO BRANCH CIRCUITS	SYSTEM/TOOL NO:	RELEASE DATE: 2020-04-01	REVISION LETTER: B	SECTION LETTER:	
	TEAM		DOPPKE		SHEET	TABLE OF CONTENTS	DRAWING NUMBER:		DATE:	Ι Δ Ι	<b>2</b> of <b>3</b>
THIS MATERIAL IS THE PROPERTY OF GENERAL MOTO USE SUCH MATERIAL FOR ANY PURPOSE OTHER THAN					DESCRIPTION:		ECS-5100-TT		2021-09-23	3 / 1	
STATUS: RELEASED						PROJECT NAME: ECS-5100-TT RevB(202	1-09-23)	SAVE DATE: 202	1-09-23	EPLAN VER	SION: 2.7.3

REV	SHEET AFFECTED	CHANGE DESCRIPTION	DATE	CHANGE CODE	CHANGED BY	REV	SHEET AFFECTED	CHANGE DESCRIPTION	DATE	CHANGE CODE	CHANGED BY	
А	A1	- DRAWING PACKAGE REVISION LEVEL WAS REL. - LAST PART SELECTED WITH WAS GM_EPARTSDB_202003.	2021-01-12	С	DB							
	A2	- UPDATED TABLE OF CONTENTS TO REVISION A.										
	A3	- SHEET DESCRIPTION WAS MASTER CHANGE SHEET. - 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.										
	X2	- UPDATED THE DISCONNECT HANDLE.	1									
	X7	- UPDATED AVT HOLE LOCATION ON ENCLOSURE.										
	X8	- UPDATED AVT HOLE LOCATION ON ENCLOSURE.	1									
	X11	- UPDATED AVT HOLE LOCATION ON ENCLOSURE.	1									
В	A1	- UPDATED DRAWING PACKAGE TO REV B - UPDATED PART DATABASE TO GM_EPARTSDB_202106	2021-09-23	С	SK							
	A2	- UPDATED DRAWING PACKAGE TO REV B	1									
	A3	- UPDATED DRAWING PACKAGE TO REV B										
	X1	- LABEL TEXT CHANGED FROM WARNING TO DANGER - ADDED HOT SURFACE WARNING LABELS										
	X4	- LABEL TEXT CHANGED FROM WARNING TO DANGER										
	X5	- UPDATED TORQUE VALUES FOR PE LUG LINE SIDE TERMINAL	1									
	X7	- LABEL TEXT CHANGED FROM WARNING TO CAUTION - PE LUG TERMINAL DIMENSIONS HAS BEEN CHANGED. WIDTH 12MM TO 18.5MM AND HEIGHT 99MM TO 71MM.										
	X8	- PE LUG TERMINAL DIMENSIONS HAS BEEN CHANGED. WIDTH 12MM TO 18.5MM AND HEIGHT 99MM TO 71MM.										
	X9	- LABEL TEXT CHANGED FROM WARNING TO CAUTION										
						11						
												CHANGE CODE
												PR PRODUCT CHANGE R PLANT REQUEST
												MECHANICAL PROCESS
												CP CHANGE  CP CONTROL PROCESS CHANGE
												MECHANICAL DECICAL
												│
												C CONTROL DESIGN CHANGE
												F FLOOR AND BUILD CHANGE
		GM ENGINEER: DESIGN SOURCE: DESIGN LEADER: PROGRA	MS: PACKAG		AMP POWE			PANEL SYSTEM/TOOL NO:			LEASE DATE:	REVISION SECTION SHEET
GM G	SM - STAI	NDARD HARDWARE GREG	DESCRIF	ON :NOIT	BRANCH C	CIRCUIT	S	DRAWING NUMBER:		20	020-04-01	LETTER: LETTER: NUMBER:
	L IS THE PROPERT	TY OF GENERAL MOTORS CORPORATION. NO RIGHTS ARE GRANTED TO UMPOSE OTHER THAN THE FURNISHING OF SERVICES AND SUPPLIES.	SHEET DESCRIF	TION: KEV	ISION SU	MARKY	SHEET	ECS-5100-TT				DATE: 2021-09-23 A 3 OF 3
CT/	ATUS: RFI FA	ACED						PROJECT NAME: FCS-5100-TT RevB(2021-09-23)		CAN	VE DATE: 202	



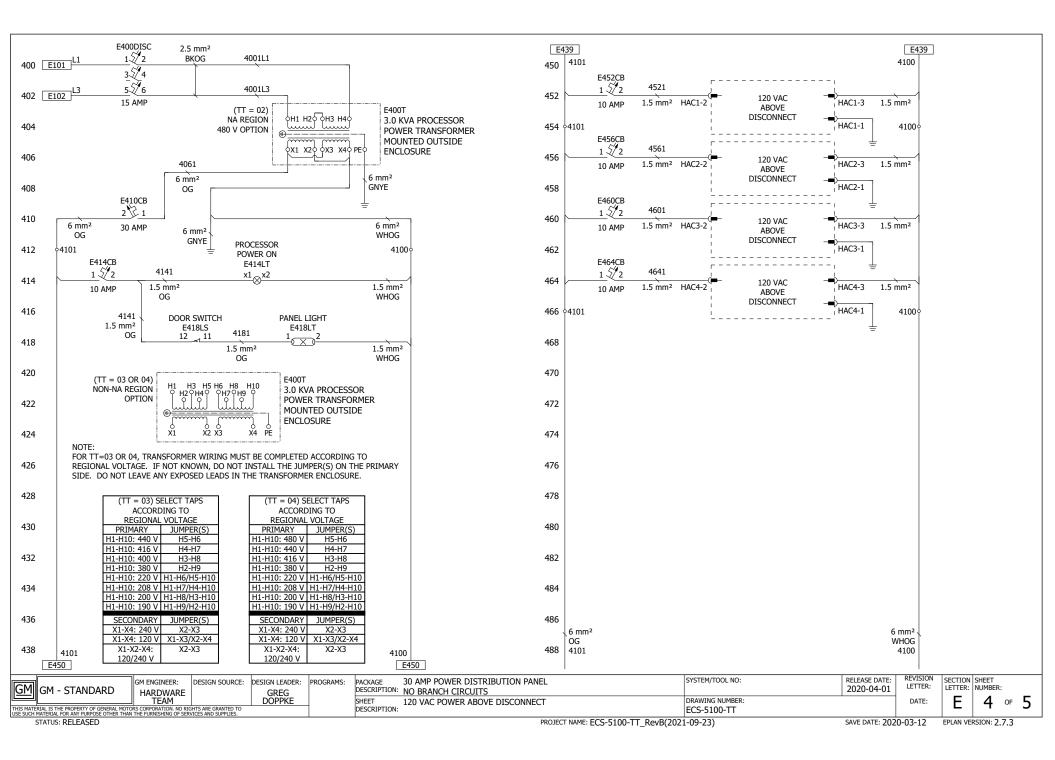
#### NOTES:

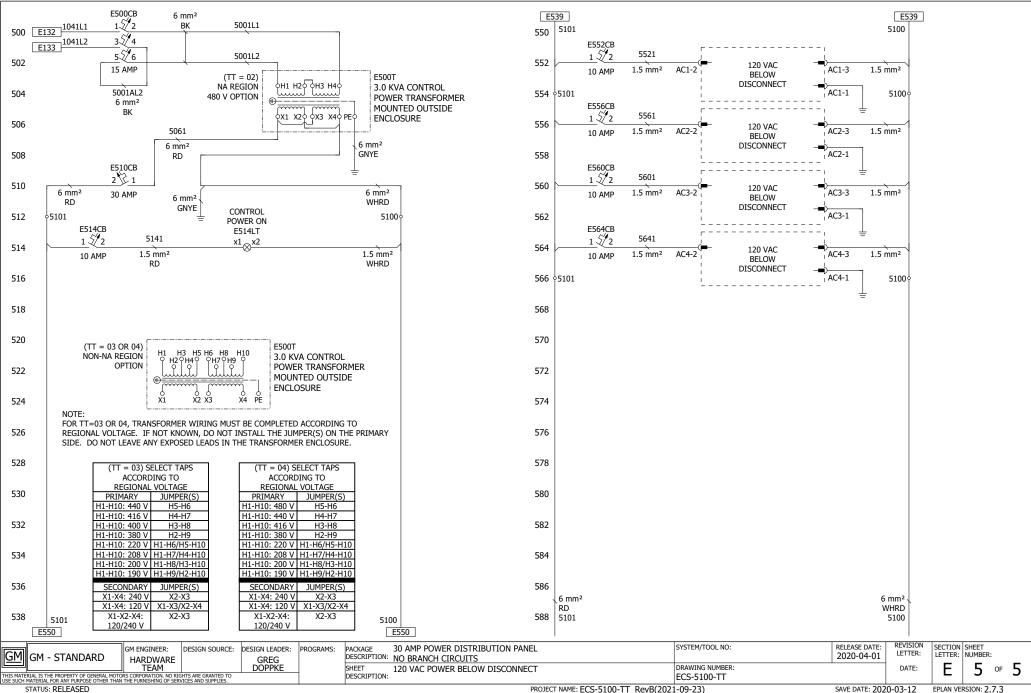
- 1. THIS ENCLOSURE DOES NOT CONTAIN BRANCH CIRCUITS.
- 2. USE ACX RECEPTACLES TO FEED 120 VAC TO PANELS AND DEVICES REQUIRING AC POWER.
- 3. USE HACX RECEPTACLES TO FEED 120 VAC TO PANELS AND DEVICES REQUIRING "HOT" AC POWER.
- 4. USE ONLY WIRE SIZE AND STRAND CLASS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. REMOVE INSULATION FROM WIRE AND TORQUE TERMINALS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 5. EQUIPOTENTIAL BONDING CONNECTION REQUIRED. REFERENCE APPLICATION WD.
- 6. COVERS ARE REQUIRED FOR UNUSED RECEPTACLES. THESE COVERS ARE NOT INCLUDED WITH THIS ENCLOSURE.

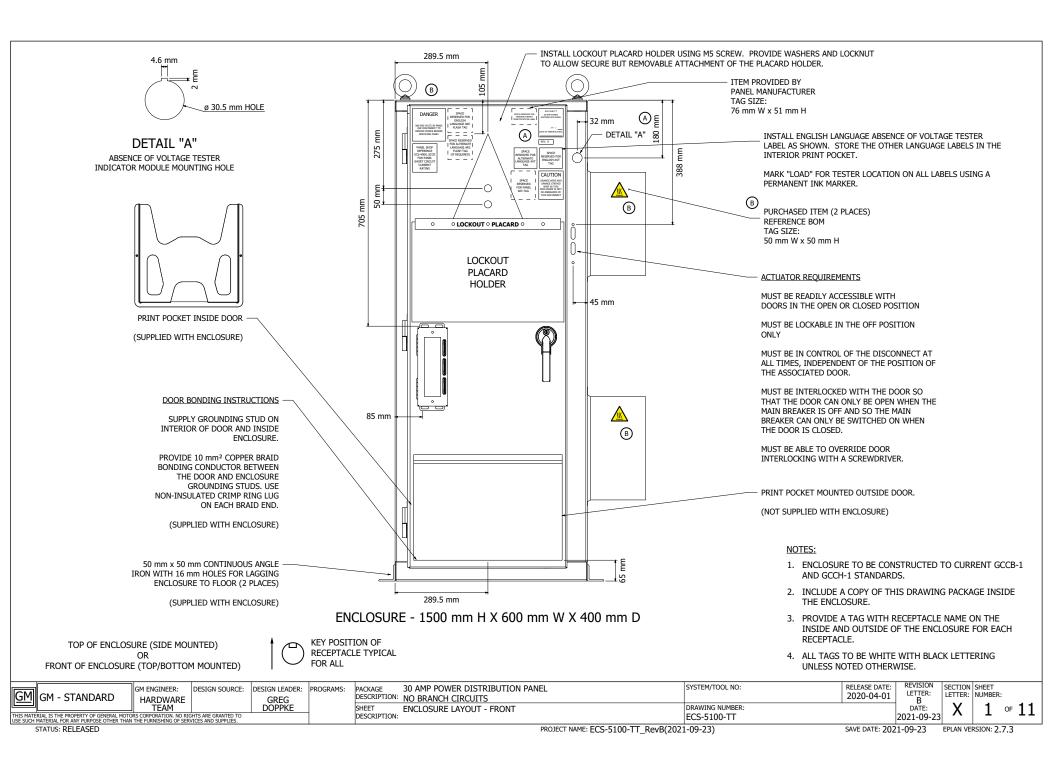


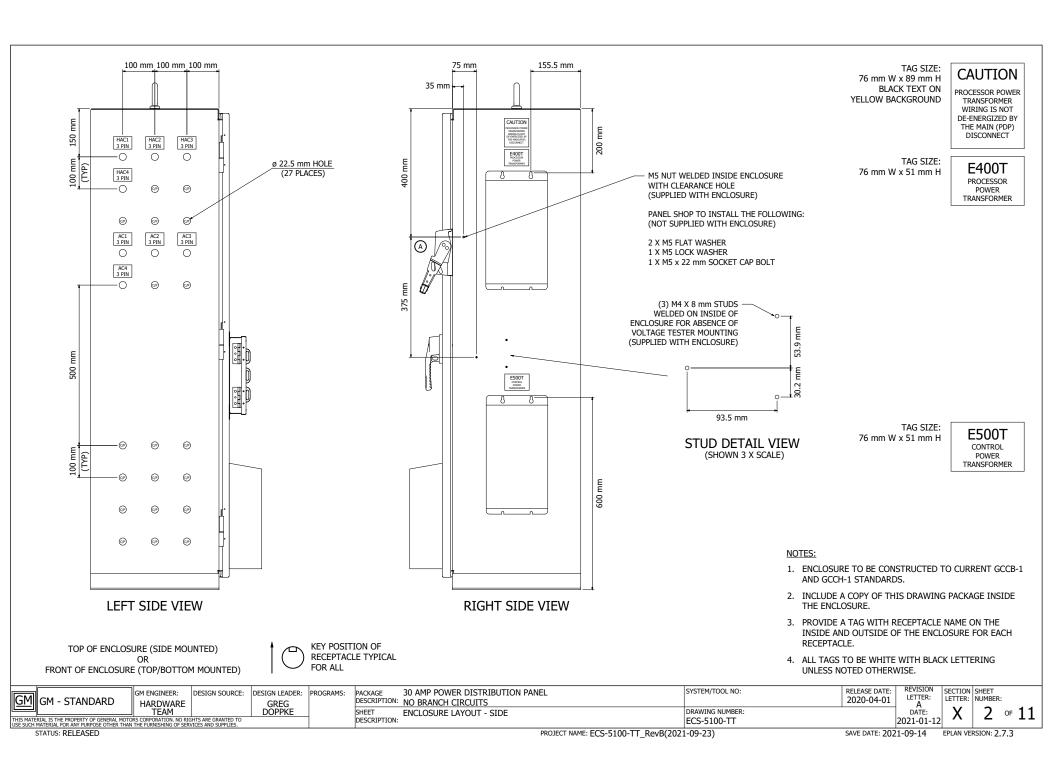
200	250					
202	252					
204	254					
206	256					
208	258					
210	260					
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214	264					
216	266					
218	268					
220	270					
222	272					
224	274					
226	276					
228	278					
230	280					
232	282					
234	284					
236	286					
238	288					
GM - STANDARD   GM ENGINEER:   DESIGN SOURCE:   DESIGN LEADER:   PROGRAMS:   DESCRIPTI   GREG   DOPPKE   DOPPKE   SHEET	TON: NO BRANCH CIRCUITS	STEM/TOOL NO: RELEASE DATE: 2020-04-01		SECTION S LETTER: N	HEET UMBER:	_
GM GM - STANDARD HARDWARE GREG DOPPKE  TEAM  THIS MATERIAL IS THE PROPERTY OF GENERAL MOTIONS CORPORATION, NO RIGHTS ARE GRANTED TO USE SUCH MATERIAL FOR ARY PURPOSE OTHER THAN THE FUNNISHING OF SERVICES AND SUPPLIES.	380 - 500 VAC POWER DISTRIBUTION DR	AWING NUMBER: CS-5100-TT	DATE:	E	<b>2</b> OF	5
USE SUCH MATERIAL FOR AMY PURPOSE OTHER THAN THE FURNISHING OF SERVICES AND SUPPLIES.  STATUS: RELEASED	PROJECT NAME: ECS-5100-TT_RevB(2021-0		9-12-19	EPLAN VERS	ION: 2.7.3	

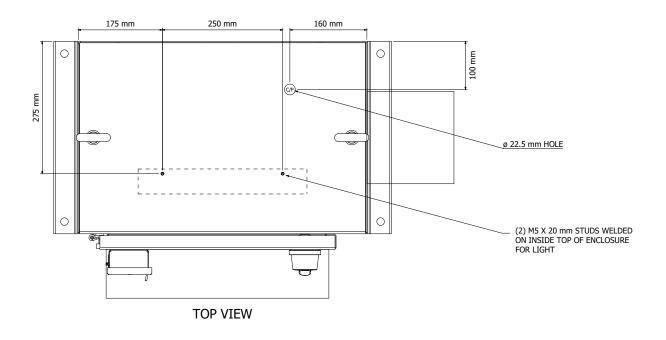
192									
334 335 339 339 339 339 339 331 339 331 331 331	300		350						
356 358 358 358 358 358 358 358 358 358 358	302		352						
358 310 369 312 362 314 364 365 318 368 370 372 372 372 374 375 376 376 377 378 379 379 379 370 370 370 370 370 370 370 370 370 370	304		354						
310 380  312 362  314 364  315 366  318 380  320 370  322 377  324 377  325 378  326 378  327  328 378  330 380  330 380  331  330 380  331  330 380  331  331  332 380  338 380  338 380  340 380  351  351  351  351  351  351  351  35	306		356						
312 364 374 375 376 376 376 376 376 376 376 376 377 378 378 378 378 378 378 378 378 378	308		358						
314 36 366 387 388 388 388 388 388 388 388 388 388	310		360						
316 366  318 368  320 370  322 372  324 374  326 376  328 378  329 378  320 378  320 378  321 378  320 378  320 378  321 378  322 378  328 378  329 378  320 380  320	312		362						
318 368 370 370 372 372 374 374 374 376 376 376 376 376 378 378 378 378 378 378 378 378 378 378	314		364						
320 370 322 372 324 374 326 376 328 378 330 380 330 380 331 332 382 334 384 336 386 386 387 388 388 388 388 388 388 388 388 388	316		366						
372 324 374 376 328 378 330 380 382 382 384 386 386 388 388 388 388 388 388 388 388	318		368						
374  326  376  328  378  330  380  382  382  384  384  386  388  388  388  388  388	320		370						
326 376  328 378  330 380  332 382  334 384  336 386  338 388  388  388  388  388	322		372						
328 378 330 380 332 382 334 384 336 386 338 388 388 388 388 388 388 388 388 388	324		374						
330 380  332 382  334 384  336 386  338 388  388  388  388  388	326		376						
332 382  334 384  336 386  338 388  388  388  SYSTEM/TOOL NO: RELEASE DATE: DESIGN LEADER: PROGRAMS: GREG DOPPKE GREG DOPPKE HARDWARE LETTER: NUMBER: SHEET DOPPKE DOPPKE DOPPKE SHEET SHEET DOPPKE DO	328		378						
334 384  336 386  338 388  388  388  389  GM - STANDARD GREGNEER: HARDWARE LARDWARE GREG DESIGN LEADER: GREG DOPPKE GREG TEAM NO BRIGHTS ARE COUNTED TO CHEMPAL NOTICES CORROBATION AD REIGHTS ARE COUNTED TO CHEMPAL NOTICES CORROBATION ADDRESS CRIPTION CHEMPAL NOTICES	330		380						
336  388  388  388  388  388  388  SYSTEM/TOOL NO:  SYSTEM/TOOL NO:  RELEASE DATE: 12020-04-01  BETTER: NUMBER: LETTER: NUMBER: SHEET 380 - 500 VAC POWER DISTRIBUTION DESCRIPTION: DESCRIP	332		382						
338  388  GM - STANDARD GM ENGINEER: DESIGN SOURCE: DESIGN LEADER: GREG DESCRIPTION: NO BRANCH CIRCUITS  GREG DOPPKE  HIS MATERIAL IS THE PROPERTY OF CEMERAL MOTORS CORPORATION NO DISPRITS ARE GRANTED TO DESCRIPTION: SHEET NUMBER: DESCRI	334		384						
GM - STANDARD   GM ENGINEER:   DESIGN SOURCE:   DESIGN LEADER:   DESIGN SOURCE:   DESIGN LEADER:   DESCRIPTION:   NO BRANCH CIRCUITS    GREG DESCRIPTION:   NO BRANCH CIRCUITS    HIS MATERIAL IS THE PROPERTY OF GENERAL MORTHS ARE GRANTED TO DESCRIPTION:   DATE:   ECS-5100-TT    SYSTEM/TOOL NO:   RELEASE DATE:   REVISION   SECTION   SHEET   LETTER:   NUMBER:   DATE:   ECS-5100-TT    BRAWLING NUMBER:   DESCRIPTION:   DATE:   ECS-5100-TT    GREG DESCRIPTION:   DATE:   D	336		386						
HARDWARE GREG DOPPKE  IS MATERIAL IS THE PROPERTY OF GENERAL MORE FRANCIS CORPORATION, NO RIGHTS ARE GRANTED TO DOPPKE  SHEET 380 - 500 VAC POWER DISTRIBUTION  DESCRIPTION:  ECS-5100-TT  DATE:  E 3 0F 5	338		388						
HARDWARE GREG DOPPKE  IS MISSTALL STHE PROPERTY OF GENERAL MORE TO AUTHOR TO COMPORATION, NO SIGHTS ARE GRAVED TO DOPPKE  SHEET 380 - 500 VAC POWER DISTRIBUTION DESCRIPTION:  ECS-5100-TT  DATE:  E 3 of 5		GM ENGINEER: DESIGN SOURCE: DESIGN LEADER: PROGRAMS:	PACKAGE 30 AMP POWER DISTRIBUTION PANEL	SYSTEM/TOOL NO:	RELEASE DATE: RE	VISION	SECTION	SHEET	
HIS MALERAL IS THE PROPERTY OF GENERAL MOTORS COMPURATION, NO RIGHTS ARE GRANTED TO DESCRIPTION: SESSICH MATERIAL FOR MAY PRIESPOS OF THE THAN THE FIRMSHING OF SEPRIFYES AND SIPPOST.	الــــــــــــــــــــــــــــــــــــ	HARDWARE GREG	DESCRIPTION: NO BRANCH CIRCUITS	DRAWING NUMBER:	2020 0 : 01			NUMBER:	
	THIS MATERIAL IS THE PROPERTY OF GENERAL MO USE SUCH MATERIAL FOR ANY PURPOSE OTHER TH STATUS: RELEASED	OTORS CORPORATION. NO RIGHTS ARE GRANTED TO JAN THE FURNISHING OF SERVICES AND SUPPLIES.	DESCRIPTION:	ECS-5100-TT					







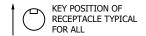




### NOTES:

- 1. ENCLOSURE TO BE CONSTRUCTED TO CURRENT GCCB-1 AND GCCH-1 STANDARDS.
- 2. INCLUDE A COPY OF THIS DRAWING PACKAGE INSIDE THE ENCLOSURE.
- 3. PROVIDE A TAG WITH RECEPTACLE NAME ON THE INSIDE AND OUTSIDE OF THE ENCLOSURE FOR EACH RECEPTACLE.
- 4. ALL TAGS TO BE WHITE WITH BLACK LETTERING UNLESS NOTED OTHERWISE.

TOP OF ENCLOSURE (SIDE MOUNTED) FRONT OF ENCLOSURE (TOP/BOTTOM MOUNTED)



1	CTATUC: DELEACED							PROJECT NAME, ECC. E100 TT. Dov. (P/2021 00.22)	CAVE DATE, 202	2 01 14	EDI ANI VE	DCTON: 2 7 2	_
TI U:	HIS MATERIAL IS THE PROPERTY OF GENERAL MOTO SE SUCH MATERIAL FOR ANY PURPOSE OTHER THAN	ORS CORPORATION, NO RIG THE FURNISHING OF SER	SHTS ARE GRANTED TO VICES AND SUPPLIES.			DESCRIPTION:		ECS-5100-TT			^	, 5 ++	
ᄩ		TEAM		DOPPKE		SHEET	ENCLOSURE LAYOUT - TOP	DRAWING NUMBER:		DATE:	X	· 3 of 11	
-	<u>GM</u> ∥gm - STANDARD	HARDWARE		GREG		DESCRIPTION:	NO BRANCH CIRCUITS		2020-04-01	LETTER.	LETTEK:	NUMBER:	
In		GM ENGINEER:	DESIGN SOURCE:	DESIGN LEADER:	PROGRAMS:	PACKAGE	30 AMP POWER DISTRIBUTION PA	NEL SYSTEM/TOOL NO:	RELEASE DATE:	REVISION LETTER:	SECTION LETTER:		

# **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

30 AMP POWER DISTRIBUTION PANEL

ECS-5100-TT

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

TT =

DATE OF MANUFACTURE:

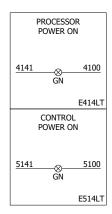
TAG SIZE:

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.

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

30 AMP POWER DISTRIBUTION PANEL SYSTEM/TOOL NO: RELEASE DATE: SECTION SHEET GM ENGINEER: DESIGN SOURCE: DESIGN LEADER: LETTER: 2020-04-01 GM - STANDARD DESCRIPTION: NO BRANCH CIRCUITS **HARDWARE** GREG DOPPKE TEAM DRAWING NUMBER: 4 of 11 TAG DETAILS ECS-5100-TT 2021-09-23 DESCRIPTION: STATUS: RELEASED

PROJECT NAME: ECS-5100-TT RevB(2021-09-23)

SAVE DATE: 2021-09-23

EPLAN VERSION: 2.7.3

TAG SIZE: 102 mm W x 178 mm H

E:	LUG T	ORQUE VALU	ES (UL) - ECS	-5100
Н	TERMINAL	WIRE STRANDING CLASS	WIRE SIZE (AWG)	TORQUE (LB-IN)
	E104DISC LINE SIDE	CLASS B/C	#10 - 4 #3 - 3/0	105 140
	E104DISC LOAD SIDE	CLASS B/C	#14 - 8 #6 - 2	55 62
В	PE LUG LINE SIDE	NOT SPECIFIED	#10 - 0	53

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: 102 mm W x 178 mm H

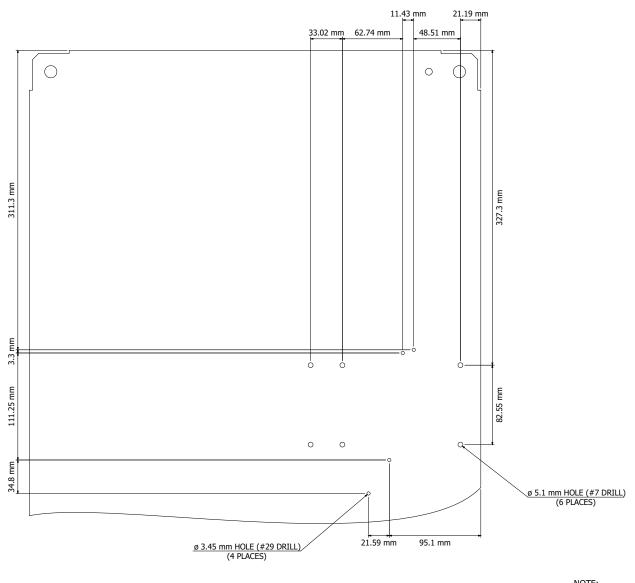
: -	LUG T	ORQUE VALUI	ES (IEC) - ECS	5-5100
7	TERMINAL	WIRE STRANDING CLASS	WIRE SIZE (mm²)	TORQUE (N-m)
	E104DISC LINE SIDE	CLASS 2	6 - 25 35 - 120	6 10
	E104DISC LOAD SIDE	CLASS 2	1.5 2.5 - 10 16 - 35	2.8 6.2 7
В	PE LUG LINE SIDE	NOT SPECIFIED	6 - 50	6

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.

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

REVISION LETTER: B DATE: 30 AMP POWER DISTRIBUTION PANEL SYSTEM/TOOL NO: RELEASE DATE: SECTION SHEET GM ENGINEER: DESIGN LEADER: PROGRAMS: 2020-04-01 GM - STANDARD HARDWARE DESCRIPTION: NO BRANCH CIRCUITS GREG DOPPKE 5 of 11 TEAM TAG DETAILS DRAWING NUMBER: DESCRIPTION: ECS-5100-TT 2021-09-23



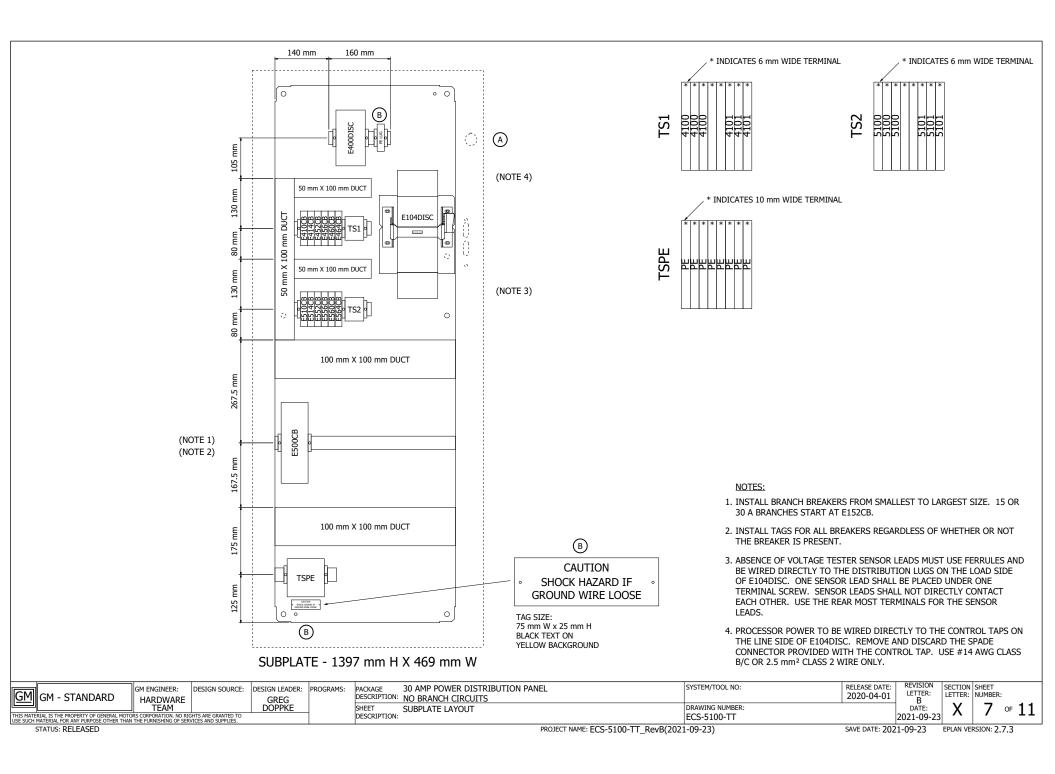
NOTE:

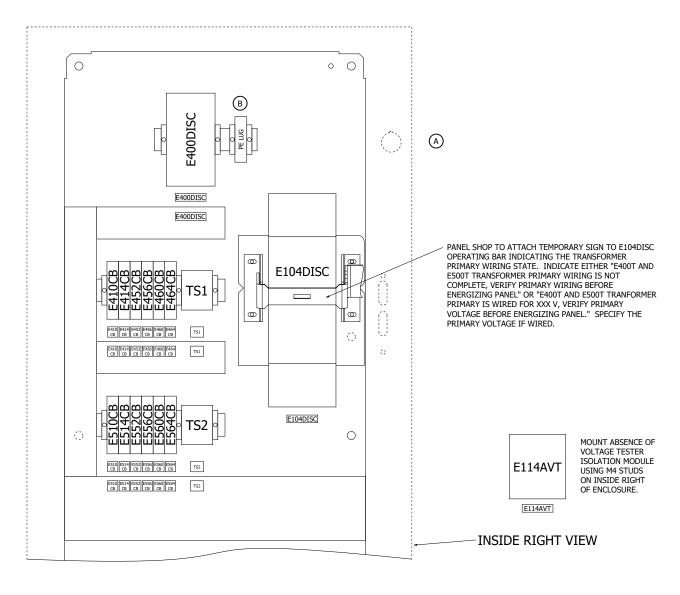
DIMENSIONS SHOWN ARE VALID FOR ENCLOSURE SPECIFIED ON BOM. IF AN ALTERNATIVE ENCLOSURE IS USED, THEN THE DIMENSIONS MAY VARY. THE BREAKER AND OPERATING MECHANISM MUST BE LOCATED PER THE MANUFACTURER'S REQUIREMENTS.

### CIRCUIT BREAKER AND DISCONNECT MECHANISM MOUNTING DETAIL

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

								1 00 00)				
THIS MATER USE SUCH N	IAL IS THE PROPERTY OF GENERAL MOT IATERIAL FOR ANY PURPOSE OTHER THA		GHTS ARE GRANTED TO VICES AND SUPPLIES.			DESCRIPTION:		ECS-5100-TT			_ ^ _	0 11
		TEAM		DOPPKE		SHEET	SUBPLATE DETAIL	DRAWING NUMBER:		DATE:	X	6 ∘ 11
GM	GM - STANDARD	HARDWARE		GREG		DESCRIPTION:	NO BRANCH CIRCUITS		2020-04-01	ELITER.		NUMBER:
		GM ENGINEER:	DESIGN SOURCE:	DESIGN LEADER:	PROGRAMS:	PACKAGE	30 AM TOWER DISTRIBUTION LANCE	SYSTEM/TOOL NO:	RELEASE DATE:		SECTION LETTER:	



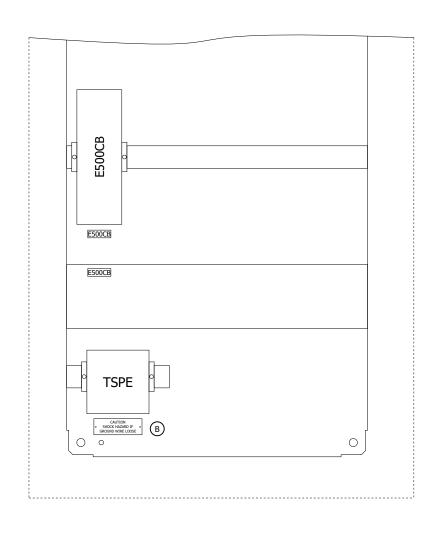


REVISION LETTER: B DATE: 30 AMP POWER DISTRIBUTION PANEL SYSTEM/TOOL NO: RELEASE DATE: SECTION SHEET GM ENGINEER: DESIGN SOURCE: DESIGN LEADER: PROGRAMS: LETTER: NUMBER: 2020-04-01 GM - STANDARD DESCRIPTION: NO BRANCH CIRCUITS HARDWARE GREG DOPPKE TEAM SUBPLATE DETAIL VIEW DRAWING NUMBER: 8 OF 11 DESCRIPTION: ECS-5100-TT 2021-09-23

PROJECT NAME: ECS-5100-TT\_RevB(2021-09-23)

SAVE DATE: 2021-09-23

EPLAN VERSION: 2.7.3



REVISION LETTER: B DATE: PACKAGE 30 AMP POWER DISTRIB DESCRIPTION: NO BRANCH CIRCUITS RELEASE DATE: 2020-04-01 SECTION SHEET LETTER: NUMBER: 30 AMP POWER DISTRIBUTION PANEL SYSTEM/TOOL NO: GM ENGINEER: DESIGN SOURCE: DESIGN LEADER: PROGRAMS: MARDWARE
THIS MATERIAL IS THE PROPERTY OF GENERAL MOTORS CORPORATION IN RIGHTS ARE GRANTED TO USE SUCH MATERIAL FOR ANY PURPOSE OTHER THAN THE PURPOSHING OF SERVICES AND SUPPLIES. GREG DOPPKE 9 of 11 SUBPLATE DETAIL VIEW DRAWING NUMBER: DESCRIPTION: ECS-5100-TT 2021-09-23 STATUS: RELEASED

MINI CONNECTOR



PIN FUNCTION COLOR 1 GROUND GNYE

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



COLOR	
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	WHBU

NOTE:

SHORTING.

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).

WIRE

ABBREV

REVISION LETTER: SECTION SHEET LETTER: NUMBER: 30 AMP POWER DISTRIBUTION PANEL SYSTEM/TOOL NO: RELEASE DATE: GM ENGINEER: DESIGN SOURCE: DESIGN LEADER: PROGRAMS: 2020-04-01 MARDWARE
THIS MATERIAL IS THE PROPERTY OF GENERAL MOTORS CORPORATION. NO RIGHTS ARE GRANTED TO USE SUCH MATERIAL FOR ANY PURPOSE OTHER THAN THE PRINSIPHING OF SERVICES AND SUPPLES. DESCRIPTION: NO BRANCH CIRCUITS GREG DOPPKE 10 OF 11 RECEPTACLE PIN CHART DRAWING NUMBER: DESCRIPTION: ECS-5100-TT

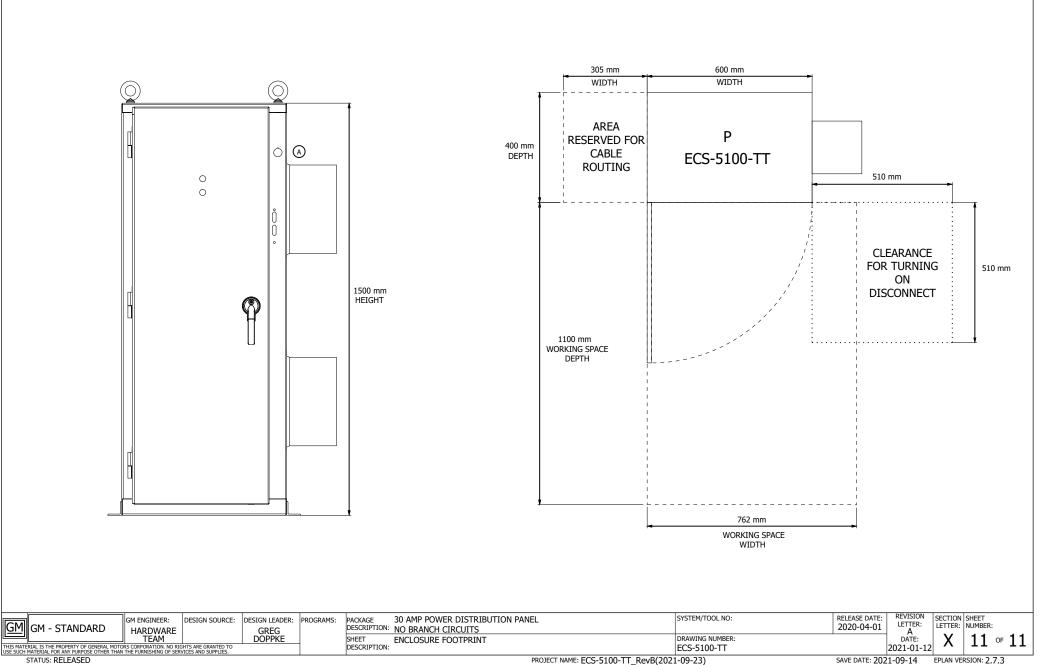
PROJECT NAME: ECS-5100-TT\_RevB(2021-09-23) STATUS: RELEASED

SAVE DATE: 2020-01-17

EPLAN VERSION: 2.7.3

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GM - STANDARD GM ENGINEER: DESIGN SOURCE: DESIGN LEADER: GREG DOPPKE		12726	REMOVED ITEM. QTY WAS	1.														
GM - STANDARD GREGINEER: DESIGN SOURCE: DESIGN LEADER: PROGRAMS: DESCRIPTION: NO BRANCH CIRCUITS  HARDWARE TEAM THE PROPERTY OF GENERAL MOTIOS CORPORATION, NO BIGHTS ARE GRATTED TO DESCRIPTION:  SHEET BOM CHANGE SHEET: ECS-5100-TT-BOM (BASE BOM)  DRAWING NUMBER: DESCRIPTION:  ECS-5100-TT  DESIGN SOURCE: DESIGN SOURCE: DESIGN LEADER: PROGRAMS: DESCRIPTION: NO BRANCH CIRCUITS  SHEET DESCRIPTION: NO BRANCH CIRCUITS  DESCRIPTION: NO BRANCH CIRCUITS  SHEET DESCRIPTION: DRAWING NUMBER: DESCRIPTION: D		12/26	REMOVED TIEM. QIY WAS	1.													PR PRODUCT CHANGE R PLANT REQUEST MP CHANGE CP CONTROL PROCESS M MECHANICAL DESIGNATION CHANGE C CONTROL DESIGNATION FILOR AND BUILD	CHANGE
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MATERIAL FOR ANY PURPOSE OTHER THAN THE FURNISHING OF SERVICES AND SUPPLIES.	1		II I I I I I I I I I I I I I I I I I I		DOPPKE		DUEEI	BOM	1 CHANGE	SHEET:	ECS-5100	TT-BOM (BASE BOM)	DRAWING NUMBER:				DATE: YA 1	of <b>3</b>
	STA	TUS: RELEA	PURPOSE OTHER THAN THE FURNISHING OF SER	RVICES AND SUPPLIES.			DEJUNIFI	2011.							SAV		2021-09-23	

## **BOM NAME:** ECS-5100-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.

M REV	ITEM NUMBER	QUANTITY	PART DESCRIPTION	MANUFACTURER	PART NUMBER	SOURCE	GCCL REFERENCE	COMMENTS
	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 3VA5) 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		
	11225	10	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		
	11280	1	CIRCUIT BREAKER 3VA6 UL FRAME 150 BREAKING CAPACITY CLASS H 65KA @ 480V 3-POLE, LINE PROTECTION ETU350, LSI, IN=40A OVERLOAD PROTECTION IR=16A40A SHORT-CIRCUIT PROTECTION ISD=1.510 X IR, II=12 X IN WITHOUT CONNECTION	SIEMENS	3VA6140-6HN31-0AA0	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		
	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		
	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		
	12707	0 A/R	BLOCK, TERMINAL, MARKING TAG, WS 12/6, 12 X 6 mm, FOR ZDU 4-2/4AN 1806980000 AND ZDU 4-2/3AN 1770360000	WEIDMULLER	1609900000	B2-N		
	12712	14	BLOCK, TERMINAL, END ANCHORS - DIN RAIL, EW 35, BEIGE	WEIDMULLER	0383560000	B2-N		
	12718	16	BLOCK, TERMINAL, SPRING CLAMP, 600 V, ZDU 4-2/3AN, 33 A UL, 26- 10 AWG, 0.5 - 6 mm², FINGER SAFE, 3 POLE SINGLE CIRCUIT, 6 mm, BEIGE	WEIDMULLER	1770360000	B2-N		
	12719	2	BLOCK, TERMINAL, END BARRIER FOR ZDU 4-2/3AN, 1770360000, BEIGE	WEIDMULLER	1770400000	B2-N		
	12731	1	BLOCK, TERMINAL, END BARRIER, FOR ZDU 10/3AN 1767690000 AND ZDU 16/3AN 1768320000, BEIGE	WEIDMULLER	1749580000	B2-N		
	12738	0 A/R	BLOCK, TERMINAL, MARKING TAG, WS 15/5, 15 X 5 mm, FOR ZDU 16/3AN 1768320000	WEIDMULLER	1609880000	B2-N		

GM GM - STANDARD GM ENGINEER: DESIGN SOURCE: DESIGN LEADER: HARDWARE GREG		ACKAGE 30 AMP POWER DISTRIBUTION PANEL ESCRIPTION: NO BRANCH CIRCUITS	SYSTEM/TOOL NO:	RELEASE DATE: 2020-04-01	REVISION LETTER: B		SHEET NUMBER:	
TEAM DOPPKE THIS MATERIAL IS THE PROPERTY OF GENERAL MOTORS CORPORATION. NO RIGHTS ARE GRANTED TO USE SUCH MATERIAL FOR ANY PURPOSE OTHER THAN THE FURNISHING OF SERVICES AND SUPPLIES.	SHE DES	HEET ECS-5100-TT-BOM (BASE BOM) ESCRIPTION:	DRAWING NUMBER: ECS-5100-TT	2	DATE: 2021-09-23	AY	2	of 3

## **BOM NAME:** ECS-5100-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.

1 REV	ITEM NUMBER	QUANTITY	PART DESCRIPTION	MANUFACTURER	PART NUMBER	SOURCE	GCCL REFERENCE	COMMENTS
	12739	8	BLOCK, TERMINAL, SPRING CLAMP, GROUND, 600 V, ZPE 16/3AN, 14- 4 AWG, 1.5 - 25 mm², FINGER SAFE, 3 POLE SINGLE CIRCUIT, 12 mm, GREEN-YELLOW	WEIDMULLER	1768310000	B2-N		
	15743	8	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	B2		
	15875	0 A/R	3/8 INCH - NPT GASKET SEAL FOR MINI RECEPTACLE	WOODHEAD - MOLEX	00-5090	B1-N		
	15876	0 A/R	/R LOCKING NUT FOR MINI RECEPTACLE WOODHEAD - MOLEX 30-1100		30-1100	B1-N		
	75108	0 A/R	DUCT,50 mm W X 100 mm H, WITH COVER	TEHALIT	DNG100050	B1-N		
	75110	0 A/R	D A/R DUCT,100mm W X 100mm H, WITH COVER TEHALIT DNG			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	25285 1 DOOR POSITION SWITCH, ENCLOSED IN MOLDED-PLASTIC HOUSING 31mm SNAP-ACTION CONTACTS 1NO+1NC, TEFLON PLUNGER		SIEMENS	3SE5232-0HC05	B2		
	75600	20	HOLE PLUG, 22.5mm DIAMETER	SIEMENS	3SU1900-0FA11-0AA0	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, 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	B1-N		
	80000	1	BLOCK, TERMINAL, WPE 50N, PE, 50mm², GREEN-YELLOW	WEIDMULLER	1846040000			
	80040	1	VERISAFE ABSENCE OF VOLTAGE TESTER, 8' (2.4 m) SYSTEM CABLE, 10' (3.1 m) SENSOR LEADS	PANDUIT	VS-AVT-C08-L10	В3		
	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		
	80097	1	ENCLOSURE BUILT TO LATEST GCCB-1 AND GCCH-1 SPECIFICATIONS, 1500 mm H X 600 mm W X 400 mm D, RAL 7035 GRAY, 50 mm MOUNTING ANGLES, SUBPLATE, 1397 mm H X 469 mm W, 12 GAUGE MIN, GALVANIZED	HOFFMANN OR EQUIVALENT	X2726	B3		
	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		

GM - STANDARD	GM ENGINEER: HARDWARE TEAM	DESIGN SOURCE
THIS MATERIAL IS THE PROPERTY OF GENERAL MOTO USE SUCH MATERIAL FOR ANY PURPOSE OTHER THAN		

DESIGN SOURCE:

DESIGN LEADER: PROGRAMS:

GREG DOPPKE

30 AMP POWER DISTRIBUTION PANEL DESCRIPTION: NO BRANCH CIRCUITS ECS-5100-TT-BOM (BASE BOM) DESCRIPTION:

SYSTEM/TOOL NO: DRAWING NUMBER: ECS-5100-TT

RELEASE DATE: 2020-04-01

REVISION LETTER: B DATE: 2021-09-23

SECTION SHEET LETTER: NUMBER: 3 of 3

	REV	ITEM NUMBER	CHANGE DESCRIPTION	DATE	CHANGE CODE	CHANGED BY	REV	ITEM NUMBER	CHANGE DESCRIPTION	DATE	CHANGE CODE	CHANGED BY	
		NOMBER			CODE	DI		NOMBER			CODE	БІ	
													CHANGE CODE PR   PRODUCT CHANGE
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													MP MECHANICAL PROCESS CHANGE
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C		M CTANDARD	GM ENGINEER: DESIGN SOURCE: DESIGN LEADER: PROGRAM	1S: PACKAG	SE 30 A	AMP POWER	DIST	RIBUTION	PANEL SYSTEM/TOOL NO:		REI	LEASE DATE: 020-04-01	REVISION SECTION SHEET LETTER: NUMBER:
ا <u>ں</u>	<u> </u>	M - STANDARD	HARDWARE GREG DOPPKE  RESCORPORATION. NO RIGHTS ARE GRANTED TO THE FURNISHING OF SERVICES AND SUPPLIES.	SHEET	RON	BRANCH CI	KCUITS	ECS-5100	0-TT-BOM (TT OPTION) DRAWING NUMBER:		1 20	720-04-01	DATE: YB 1 OF 2
HIS I SE S	MATERIAL UCH MATI	IS THE PROPERTY OF GENERAL MOTO RIAL FOR ANY PURPOSE OTHER THAN	ORS CORPORATION. NO RIGHTS ARE GRANTED TO ITHE FURNISHING OF SERVICES AND SUPPLIES.	DESCRI	PTION:				ECS-5100-TT				
	CTA	TUS: RELEASED							PROJECT NAME: ECS-5100-TT RevB(2021-09-23)		CAL	VE DATE: 202	1-09-23 EPLAN VERSION: 2,7,3

## **BOM NAME:**

# ECS-5100-TT-BOM (TT OPTION)

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	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 SOURCE:

GREG DOPPKE

DESIGN LEADER: PROGRAMS:

30 AMP POWER DISTRIBUTION PANEL DESCRIPTION: NO BRANCH CIRCUITS ECS-5100-TT-BOM (TT OPTION) DESCRIPTION:

SYSTEM/TOOL NO: RELEASE DATE: 2020-04-01 DRAWING NUMBER: ECS-5100-TT

REVISION LETTER:

SECTION SHEET YB

STATUS: RELEASED

## **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
	11280	1	CIRCUIT BREAKER 3VA6 UL FRAME 150 BREAKING CAPACITY CLASS H 65KA @ 480V 3-POLE, LINE PROTECTION ETU350, LSI, IN=40A OVERLOAD PROTECTION IR=16A40A SHORT-CIRCUIT PROTECTION ISD=1.510 X IR, II=12 X IN WITHOUT CONNECTION	SIEMENS 3VA6140-6HN31-0AA0
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		LITHIUM BATTERY, 3.6 V, SIZE AA	TADIRAN TL-5903 XENO ENERGY XLP-060F
E400DISC	11349	1	CIRCUIT BREAKER 3VA5 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
	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	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

DEVICE TAG	ITEM NUMBER	QTY	DESCRIPTION	MANUFACTURER PART NUMBER
	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
E464CB	11225	SIEMENS 5SJ4110-7HG40		
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
	11249	2	TERMINAL COVER FOR BOX TERMINALS FOR CIRCUIT BREAKER 3RV2742 IN SIZE S3	SIEMENS 3RV2948-1LA00
E.9007 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
	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
E564CB	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
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
		1		GENERIC TAG - PANEL

GM GM - STANDARD	GM ENGINEER: HARDWARE	DESIGN SOURCE:	DESIGN LEADER: GREG	PROGRAMS:	PACKAGE DESCRIPTION:	30 AMP POWER DISTRIBUTION PANEL NO BRANCH CIRCUITS	SYSTEM/TOOL NO:	RELEASE DATE: 2020-04-01	REVISION LETTER: B	SECTION S LETTER: N		
THIS MATERIAL IS THE PROPERTY OF GENERAL MOT USE SUCH MATERIAL FOR ANY PURPOSE OTHER THA	TEAM TORS CORPORATION, NO RIG		DOPPKE		SHEET DESCRIPTION:	DEVICE LIST	DRAWING NUMBER: ECS-5100-TT		DATE: 2021-09-2	YZ	1 °	OF 2

PROJECT NAME: ECS-5100-TT\_RevB(2021-09-23)

SAVE DATE: 2021-09-23 EPLAN VERSION: 2.7.3

## **DEVICE LIST**

DEVICE TAG	ITEM NUMBER	QTY	DESCRIPTION	MANUFACTURER PART NUMBER
PDP	80097	1	ENCLOSURE BUILT TO LATEST GCCB-1 AND GCCH-1 SPECIFICATIONS, 1500 mm H X 600 mm W X 400 mm D, RAL 7035 GRAY, 50 mm MOUNTING ANGLES, SUBPLATE, 1397 mm H X 469 mm W, 12 GAUGE MIN, GALVANIZED	HOFFMANN OR EQUIVALE X2726
	75600	20	HOLE PLUG, 22.5mm DIAMETER	SIEMENS 3SU1900-0FA11-0AA0
	80100	1	PRINT POCKET, EXTERNAL MOUNT, RAL7035 GREY, 329 mm H x 464 mm W x 101 mm D WITH HINGED COVER	HOFFMANN OR EQUIVALE K9187
	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
	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
2 PE LUG	80000	1	BLOCK, TERMINAL, WPE 50N, PE, 50mm², GREEN-YELLOW	WEIDMULLER 1846040000
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
AC4	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
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
HAC4	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

GM engineer: Design source: Design leader: HARDWARE DESIGN SOURCE: DESIGN LEADER:	PROGRAMS: PACKAGE 30 AMP POWER DISTRIBUTION PANEL DESCRIPTION: NO BRANCH CIRCUITS	YSTEM/TOOL NO: RELEASE DATE: REVISION   SECTION   SHEET   SECTION   SECTION
THIS MATERIAL IS THE PROPERTY OF GENERAL MOTORS CORPORATION. NO RIGHTS ARE GRANTED TO USE SUCH MATERIAL FOR ANY PURPOSE OTHER THAN THE FUNNISHING OF SERVICES AND SUPPLIES.		PRAWING NUMBER: CCS-5100-TT  DATE: 2021-09-23  YZ  2 of 2
STATUS: RELEASED	PROJECT NAME: ECS-5100-TT_RevB(2021-	09-23) SAVE DATE: 2021-09-23 EPLAN VERSION: 2.7.3

ITEM NUMBER

QTY

DESCRIPTION

DEVICE TAG

MANUFACTURER PART NUMBER