

			T	
_	SECTION	REV	SHEET	DESCRIPTION
Α	REFERENCE	I	1	TITLE AND REFERENCE SHEET
		I	2	TABLE OF CONTENTS
		I	3	REVISION SUMMARY SHEET
		I	4	REVISION SUMMARY SHEET
С	INTERCONNECT	В	1	CABLE INTERCONNECTION DIAGRAM
Е	MAGNETICS	G	1	380 - 500 VAC POWER DISTRIBUTION
		F	2	120 VAC POWER DISTRIBUTION
Х	ENCLOSURE	I	1	ENCLOSURE LAYOUT - FRONT AND SIDE
		F	2	ENCLOSURE LAYOUT - TOP AND BOTTOM
		I	3	DOOR TAG DETAILS
		F	4	SUBPLATE DETAIL
		I	5	SUBPLATE LAYOUT
		F	6	RECEPTACLE PIN CHART
		F	7	PANEL FOOTPRINT
YΑ	BILL OF	Н	1	BOM CHANGE SHEET: ECS-4335-TT-BOM (BASE)
	MATERIAL	Н	2	ECS-4335-TT-BOM (BASE)
		Н	3	ECS-4335-TT-BOM (BASE)
ΥB	VARIABLE BOM	F	1	BOM CHANGE SHEET: ECS-4335-TT-BOM (TT OPTION)
		F	2	ECS-4335-TT-BOM (TT OPTION)
ΥZ	DEVICE LIST	Н	1	DEVICE LIST

SECTION	REV	SHEET	DESCRIPTION
SECTION	ILLV	SIILLI	DESCRIPTION

GM	GM - STANDARD	GM ENGINEER: HARDWARE	DESIGN SOURCE:	DESIGN LEADER: GREG		PACKAGE DESCRIPTION:	3KVA REMOTE POWER PANEL 380-500VAC/120VAC		SYSTEM/TOOL NO:	RELEASE DATE: 2011-08-30		SECTION LETTER:		
THIS MA'	FERIAL IS THE PROPERTY OF GENERAL MOT H MATERIAL FOR ANY PURPOSE OTHER THA	TEAM ORS CORPORATION. NO RI		DOPPKE	_	SHEET DESCRIPTION:	TABLE OF CONTENTS		DRAWING NUMBER: ECS-4335-TT	2	DATE: 2021-09-28	A	2 of (	4
	STATUS: RELEASED				•	•	<u> </u>	PROJECT NAME: ECS-4335-TT_RevI(2021	-09-28)	SAVE DATE: 2021	1-09-28	EPLAN VEF	RSION: 2.7.3	

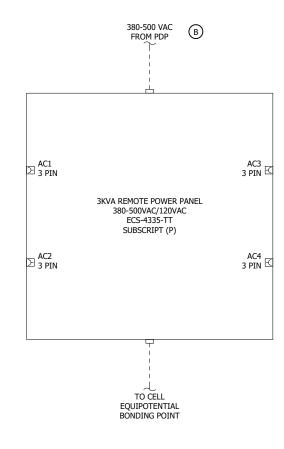
ΕV	SHEET AFFECTED	CHANGE DESCRIPTION	DATE	CHANGE CODE	CHANGED BY	REV SHEET AFFECTED		CHANGE DESCRIPTION	DATE	CHANGE CODE	CHANGED BY	
A	A1	- UPDATED DRAWING PACKAGE REVISION LEVEL.	2011-10-03	С	MARTY		A3	- REVISION NOTE 'E' ADDED				
	A2	- UPDATED TABLE OF CONTENTS.	7				E1	- E104DISC 3 PHASE WIRING REVISED				
	A3	- UPDATED REVISION NOTES.						- WIRE NUMBER WAS 1L2				
	E2	- ADDED WIRE SIZE FEEDING E237CB.				F	E2	- WIRE NUMBER WAS 1L2	2020 02 10		DD.	
		<ul> <li>ADDED WIRE DESIGNATION 2061 &amp; 2100.</li> <li>CORRECTED REGIONAL TRANSFORMER OPTIONS TT=03 AND TT=02.</li> <li>FIXED PANEL SHOP NOTE 1.</li> </ul>				F	A1	- DRAWING PACKAGE REVISION LEVEL: F WAS E UPDATED DRAWING TO EPLAN V2.7.3, WAS V2.0.9 LAST PART SELECTED WITH: GM_EPARTSDB_201912 WAS GM_EPARTSDB_201706.	2020-03-18	С	DB	
Ī	X1	- UPDATED PANEL REVISION TAG.						- NOTE 1, DELETED OPTION TT=03 FOR OTHER REGIONS UPDATED NOTE 1 AND 2.				
	X3	- UPDATED PANEL REVISION TAG.					A2	- UPDATED TABLE OF CONTENTS TO REVISION F.				
В	A1	- UPDATED DRAWING PACKAGE TO REVISION B.	2015-05-05	С	GRD		A3	- UPDATED MASTER CHANGE SHEET TO REVISION F.				
		- UPDATED PARTS DATABASE, WAS 'GCCL_201106'. - REVISED PANEL VOLTAGE RANGE, WAS '380-575'.					E2	- UPDATED E200T WIRING TO THE UPDATED PART NUMBER DELETED TT=03 OPTION WIRING.				
L	A2	- UPDATED DRAWING PACKAGE TO REVISION B.	<b>↓</b>				X1	- NEW ENCLOSURE.	-			
L	A3	- UPDATED DRAWING PACKAGE TO REVISION B.	<b>↓</b>				^1	- ADDED MANUFACTURER TAG.				
	C1	- REVISED PANEL VOLTAGE RANGE, WAS '380-575'. - REVISED PANEL SUBSCRIPT, WAS 'J'.						- DELETED WARNING LABEL FOR DANGEROUS ELECTRICAL VOLTAGE, ITEM 75803. - RE-ARRANGED OTHER TAGS.				
L	E2	- REVISED PANEL VOLTAGE RANGE, WAS '380-575'.	_				X2	- ADDED THIS SHEET AND VIEWS.				
	Х3	- ADDED POWER TAG. - ADDED OPTION CONTENT TO PANEL TAG.					X3	- THIS WAS SHEET X2 ADDED HOLE COVERS FOR NEW LAYOUT.				
	X5	- ADDED NOTE REGARDING REGIONAL TRANSFORMER VARIATION.					X4	- THIS WAS SHEET X3.				
Γ	X7	- REVISED SUBSCRIPT, WAS 'PDP'.										
С	A1	- DRAWING PACKAGE REVISION LEVEL WAS 'B' - LAST PART SELECTED DATABASE WAS 'GM_EPARTSDB_201412'	2016-03-22	С	ВЈ		X5	- THIS WAS SHEET X4 UPDATED PLATE SIZE AND MOVED LOCATIONS OF DEVICES ACCORDINGLY.				
	A2	- REVISION 'C' ADDED TO TABLE OF CONTENTS						- REPLACED 3VL MAIN DISCONNECT WITH 3VA MAIN DISCONNECT.				
	A3	- REVISION NOTE 'C' ADDED						- UPDATED E200T DIMENSIONS.				
D	A1	- DRAWING PACKAGE REVISION LEVEL WAS 'C'	2017-02-23	С	GRD		Х6	- THIS WAS SHEET X5.				
		- LAST PART SELECTED DATABASE WAS 'GM_EPARTSDB_201512' - DESIGN LEADER WAS MARTY SCHWEIGER.					X7	- THIS WAS SHEET X6. - UPDATED PANEL FOOTPRINT TO NEW ENCLOSURE SIZE.				
L	A2	- REVISION 'D' ADDED TO TABLE OF CONTENTS	4			G	A1	- DRAWING PACKAGE REVISION LEVEL: G WAS F.	2020-04-06	С	DB	
L	A3	- REVISION NOTE 'D' ADDED	<b>↓</b>				A2	- UPDATED TABLE OF CONTENTS TO REVISION G.				
	X1	- ARC FLASH TAG LOCATIONS ADDED - CORRECTED DIMENSION FOR DISCONNECT HANDLE LOCATION.					A3	- UPDATED TABLE OF CONTENTS TO REVISION G.				
		- ADDED PROVISIONS FOR SAFETY LOCK MOUNTING.	]				E1	- E104DISC, 15 AMP ITEM 11349 WAS 20 AMP, ITEM 11350.				
-	X3 X4	- REMOVED PURCHASE TAGS FROM TAG DETAIL SHEET NEW SHEET TO DETAIL MOUNTING LOCATION FOR MAIN				Н	A1	- UPDATED DRAWING PACKAGE TO REVISION H. - UPDATED PARTS DATABASE, WAS 'GM_EPARTSDB_201912'.	2020-12-17	С	GRD	CHANGE CODE PR   PRODUCT CHANGE
	77	BREAKER AND OPERATING MECHANISM.					A2	- UPDATED DRAWING PACKAGE TO REVISION H.	7			R PLANT REQUEST
	X5	- REVISED BREAKER LOCATION BASED ON NEW INSTRUCTIONS FROM SIEMENS.					A3	- UPDATED DRAWING PACKAGE TO REVISION H. - RENAMED SHEET, WAS 'MASTER CHANGE SHEET'.				MP CHANICAL PROCESS CHANGE CP CONTROL PROCESS CH
-	\ <del>-</del>	- CORRECTED BREAKER SIZE.	-			I	A1	- UPDATED DRAWING PACKAGE TO REV I	2021-09-28	С	BENNY	M MECHANICAL DESIGN
E	X7 A1	- WORKING SPACE WIDTH WAS 750MM DRAWING PACKAGE REVISION LEVEL WAS 'D'	2017-05-17	С	ВЈ		A2	- UPDATED PART DATABASE TO GM_EPARTSDB_202106 - UPDATED DRAWING PACKAGE TO REV I	$\dashv$			CHANGE CONTROL DESIGN CHA
L		- LAST PART SELECTED DATABASE WAS 'GM_EPARTSDB_201702'	<b>↓</b>				A3	-UPDATED DRAWING PACKAGE TO REV I	<del>- </del>			F FLOOR AND BUILD
$\perp$	A2	- REVISION 'E' ADDED TO TABLE OF CONTENTS										CHANGE

GM GM - STANDARD	GM ENGINEER: HARDWARE	DESIGN SOURCE:	DESIGN LEADER: GREG	PROGRAMS:		3KVA REMOTE POWER PANEL 380-500VAC/120VAC	SYSTEM/TOOL NO:	RELEASE DATE: 2011-08-30		SECTION LETTER:	SHEET NUMBER:
TUTE MATERIAL VE THE PROPERTY OF SEMERAL MOT	TEAM TORS CORPORATION, NO RE	CUTC ADE CDANTED TO	DOPPKE		SHEET	REVISION SUMMARY SHEET	DRAWING NUMBER:		DATE:	. A	3 of <b>4</b>
USE SUCH MATERIAL FOR ANY PURPOSE OTHER THA					DESCRIPTION:		ECS-4335-TT		2021-09-28	3	

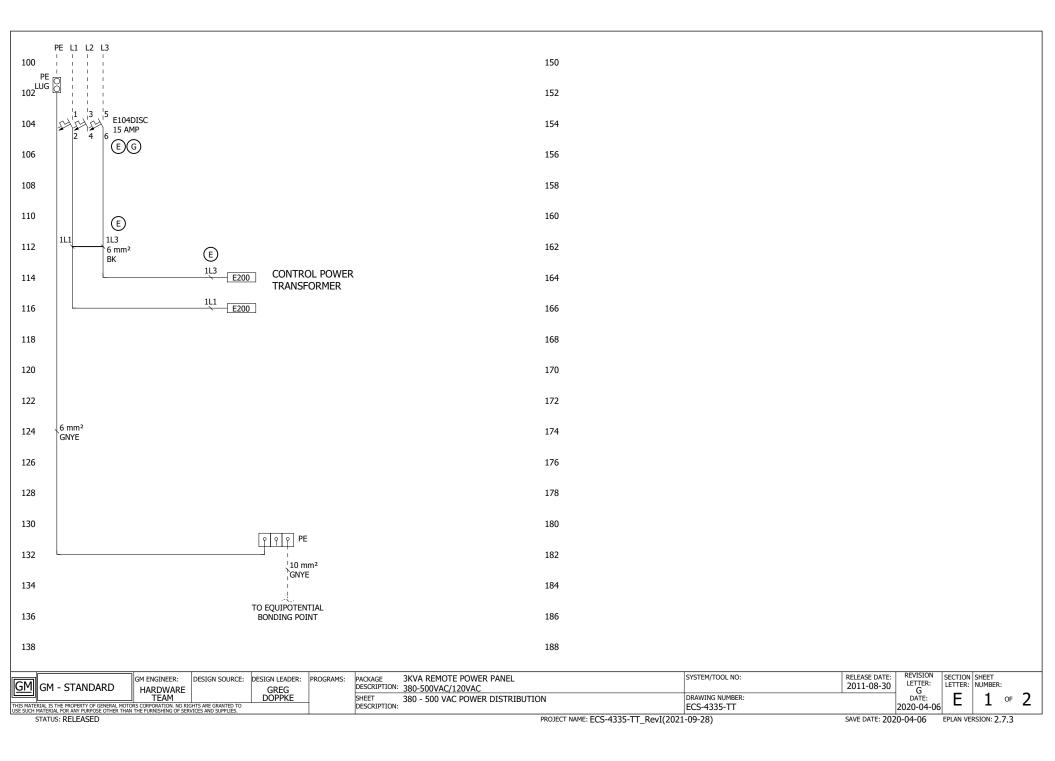
REV	SHEET AFFECTED	CHANGE DESCRIPTION		DATE	CHANGE CODE	CHANGED BY	REV	SHEET AFFECTED	CHANGE DESCRIPTION	DATE	CHANGE CODE	CHANGED BY	
	A4	-UPDATED DRAWING PACKAGE TO REV I											
	X1	- LABEL TEXT CHANGED FROM WARNING TO DANGER	,										
	X3	- LABEL TEXT CHANGED FROM WARNING TO DANGER											
	X5	- LABEL TEXT CHANGED FROM WARNING TO CAUTIO											
	7.5	E IDEE TEXT CITATION WINNER TO CHOTTO	.,										
													CHANGE CODE
													PR PRODUCT CHANGE R PLANT REQUEST
													MP MECHANICAL PROCESS CHANGE
													CP CONTROL PROCESS CHANGE
													MECHANICAL DECICN
													CHANGE
													C CONTROL DESIGN CHANGE
													F FLOOR AND BUILD CHANGE
	-								1	1			1 - 1
												-	DETACTOR
GM	M - STAN		LEADER: PROGRAMS:	PACKAGE DESCRIPT	JON: 3KV	A REMOTE -500VAC/12	POWE	R PANEL	SYSTEM/TOOL NO:		REI 20	EASE DATE: 111-08-30	REVISION SECTION SHEET LETTER: NUMBER:
_		TFAM DOP	EG PKE	SHEET	REV.	ISION SUM	MARY	SHEET	DRAWING NUMBER:		1 =0		DATE: Δ 4 OF 4
USE SUCH MA	L IS THE PROPERTY TERIAL FOR ANY PU ATUS: RELEA!	Y OF GENERAL MOTORS CORPORATION. NO RIGHTS ARE GRANTED TO IRPOSE OTHER THAN THE FURNISHING OF SERVICES AND SUPPLIES.		DESCRIPT	ION:				PROJECT NAME: ECS-4335-TT_RevI(2021-09-28)		CAN		2021-09-20
51	NIUS. KELEA	JLU							FROJECT IMMITE. ECS-4333-11 KEVI(2021-09-28)		SAV	/E DATE: 202	1-09-28 EPLAN VERSION: 2.7.3

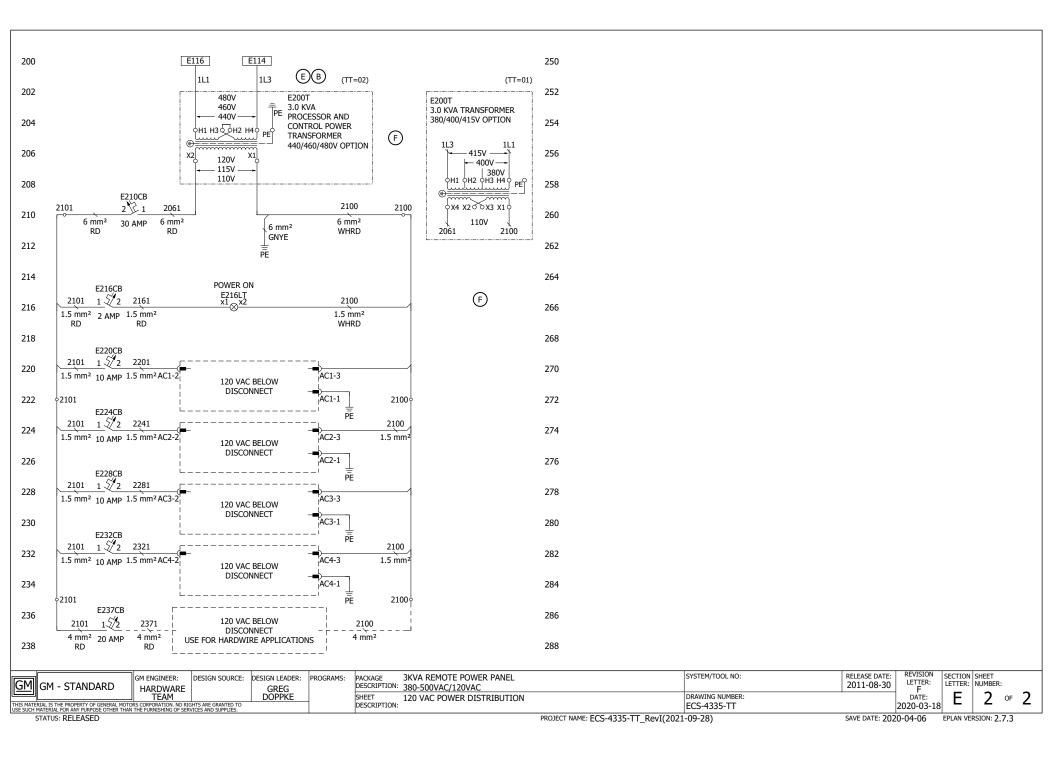
NOTES:

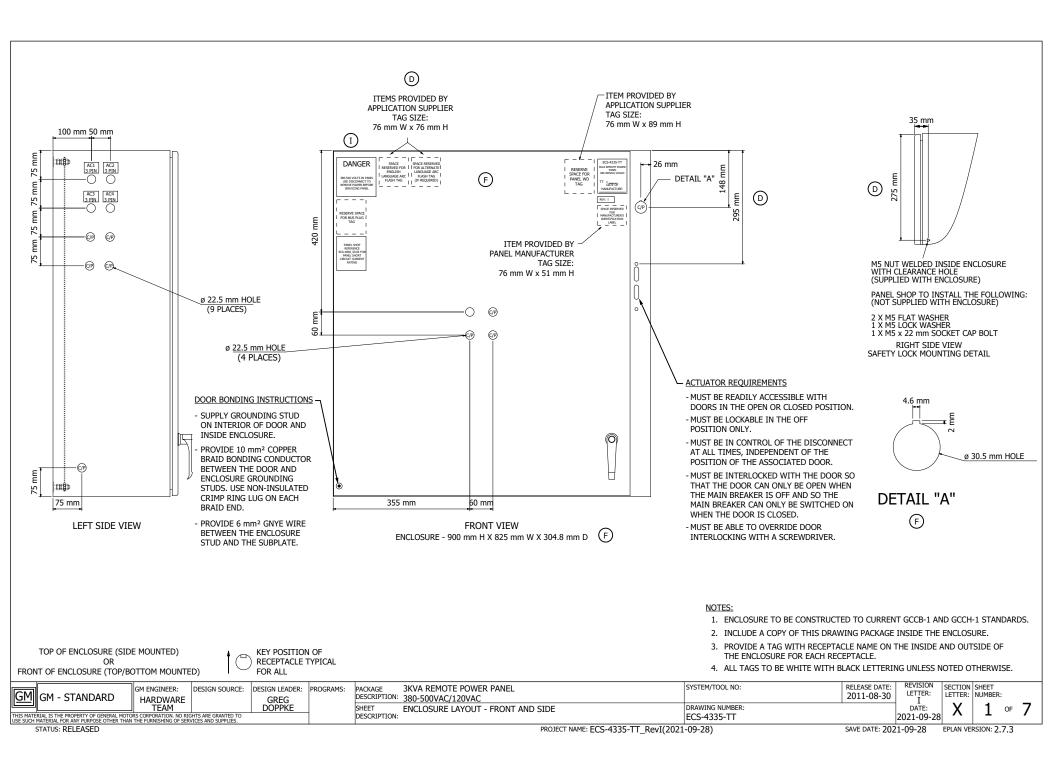
1. USE AC\* FOR AC POWER.

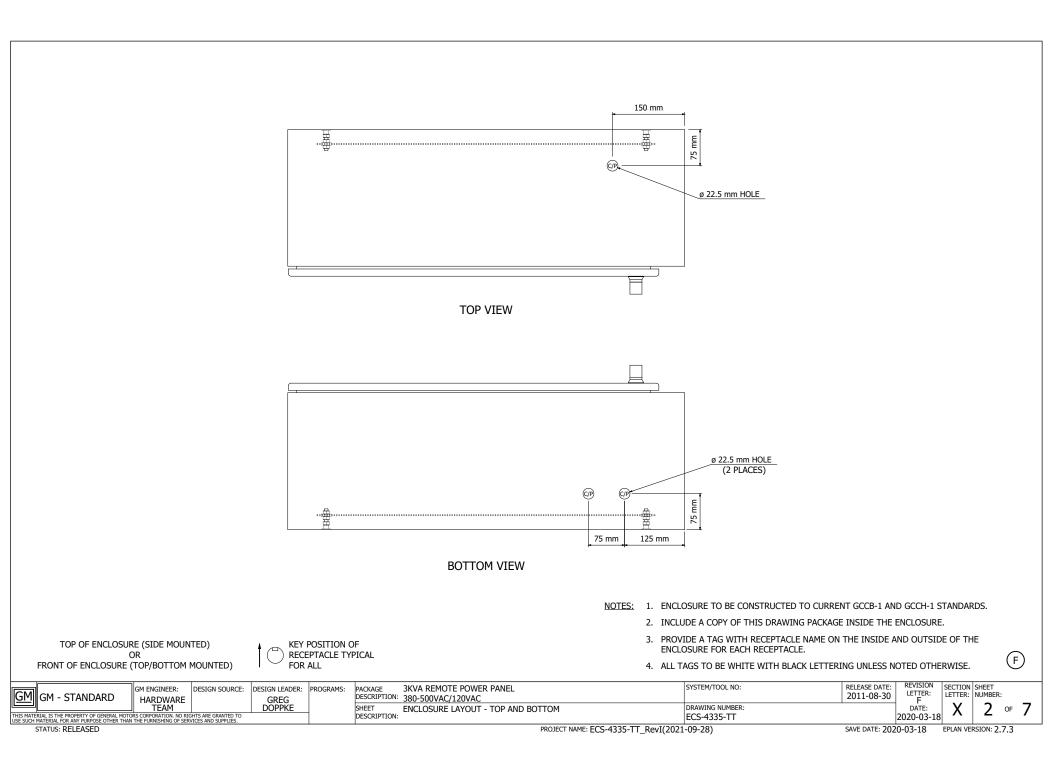


REVISION LETTER: B DATE: PACKAGE 3KVA REMOTE POWER DESCRIPTION: 380-500VAC/120VAC RELEASE DATE: 2011-08-30 SECTION SHEET LETTER: NUMBER: 3KVA REMOTE POWER PANEL SYSTEM/TOOL NO: GM ENGINEER: DESIGN SOURCE: DESIGN LEADER: PROGRAMS: MARDWARE
THIS MATERIAL IS THE PROPERTY OF GENERAL MOTORS CORPORATION IN RIGHTS ARE GRANTED TO USE SUCH MATERIAL FOR ANY PURPOSE OTHER THAN THE PURPOSHING OF SERVICES AND SUPPLIES. GREG DOPPKE CABLE INTERCONNECTION DIAGRAM DRAWING NUMBER: 1 OF 1DESCRIPTION: ECS-4335-TT 2015-05-05









#### TAG SIZE: TAG SIZE: TAG SIZE: REV: I ECS-4335-TT 102 mm W x 102 mm H 45 mm W x 15 mm H 76 mm W x 89 mm H **DANGER** WHITE TEXT ON **3KVA REMOTE POWER** RED BACKGROUND 380-500VAC/120VAC PANEL SHOP TO PROVIDE (I) INFORMATION FOR ALL BLANK 380-500 VOLTS IN PANEL FIELDS BASED ON ACTUAL TT = PANEL CONSTRUCTION. **USE DISCONNECT TO** (D) REMOVE POWER BEFORE DATE OF MANUFACTURE: SERVICING PANEL TAG SIZE: 76 mm W x 89 mm H TAG SIZE: 76 mm W x 89 mm H **RESERVE** SPACE FOR **RESERVE** PANEL WD SPACE FOR (F) POWER ON **BUS PLUG TAG** E216LT 2100 TAG SIZE: INPUT: 380-500 3Ø(50/60Hz) 7.9A 76 mm W x 38 mm H TAG SIZE: (NOTE 3) 76 mm W x 89 mm H (B) PANEL SHOP OUTPUT: 120 VAC REFERENCE ECS-4000 SCCR FOR PANEL (D)

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.
- 3. PROVIDE POWER TAG ON THE FRONT OF ENCLOSURE OR ON THE INSIDE OF THE DOOR. MANUFACTURER SPECIFIC TAGGING WITH EQUIVALENT INFORMATION IS ALLOWED.

GM GM - STANDARD   GM ENGINEER:   DESIGN SOURCE:   DESIGN LEADER:   GREG	PROGRAMS:   PACKAGE   3KVA REMOTE POWER PANEL   DESCRIPTION: 380-500VAC/120VAC   SYI	YSTEM/TOOL NO:  RELEASE DATE:  2011-08-30 LETTER: LETTER: LETTER: NUMBER:
TEAM DOPPKE		RAWING NUMBER: DATE: X 3 OF 7
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.	DESCRIPTION: EC	CS-4335-TT   2021-09-28   <b>7</b>

25A

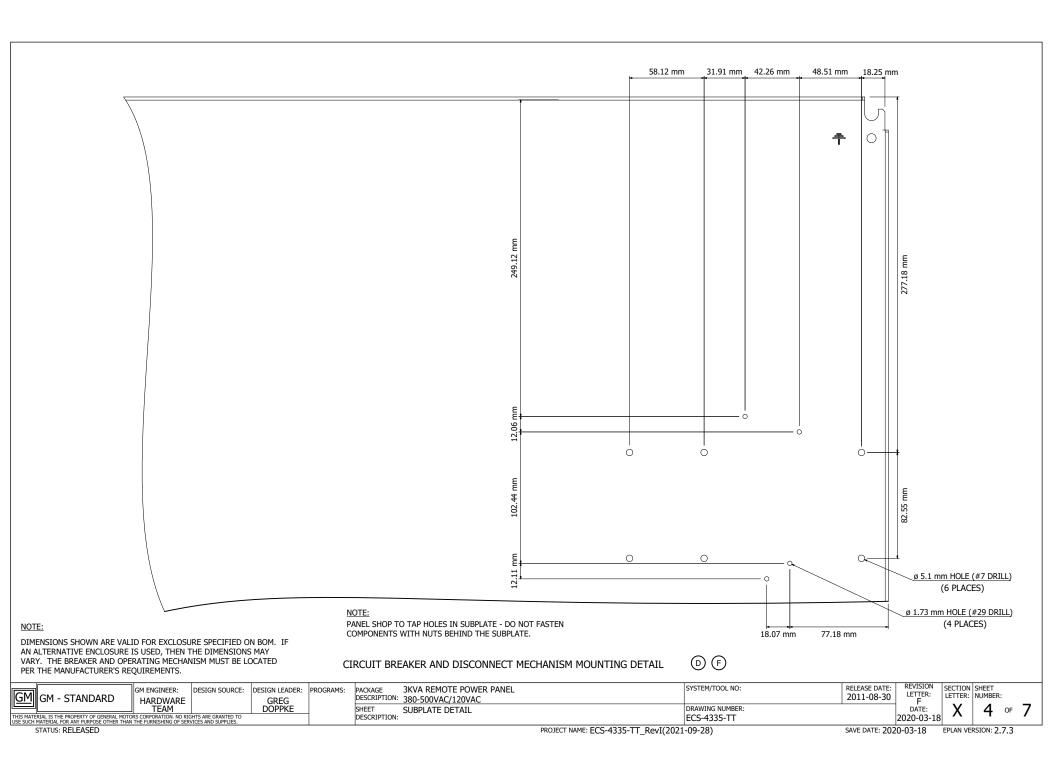
PANEL

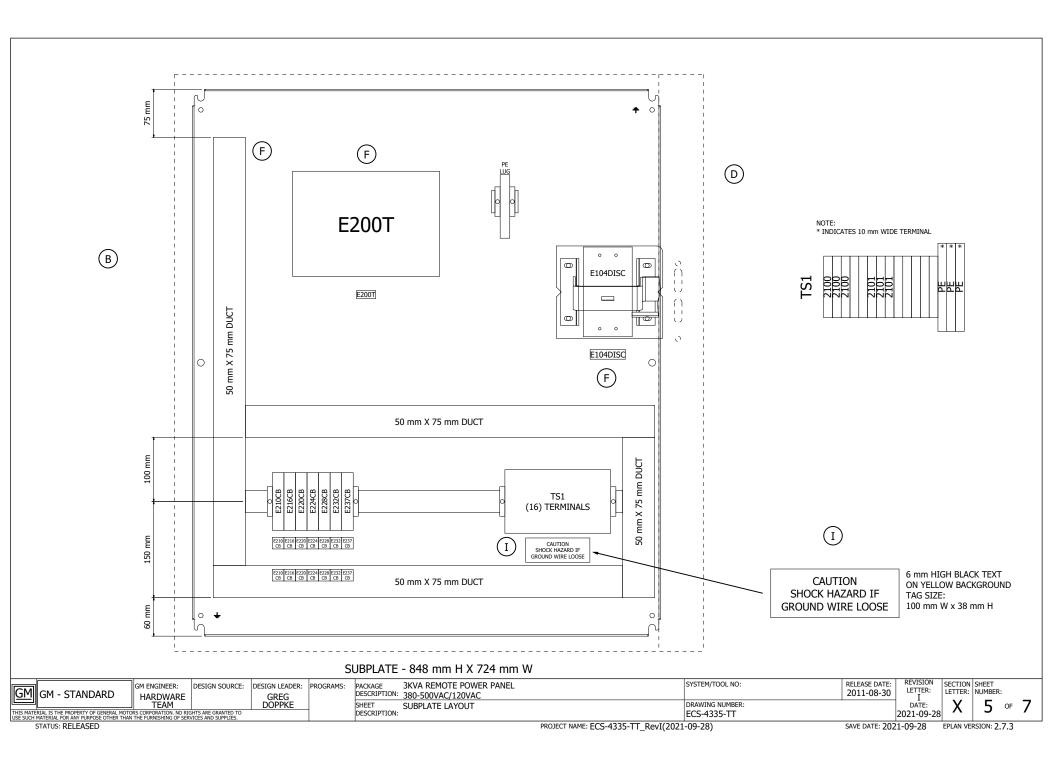
**TAG** 

SHORT CIRCUIT

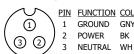
**CURRENT** 

**RATING** 





MINI CONNECTOR FEMALE - FACEVIEW

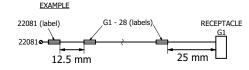


PIN FUNCTION COLOR

1 GROUND GNYE

2 POWER BK

THE RECEPTACLE WIRES SHALL HAVE THE RECEPTACLE NUMBER AND PIN NUMBER LABELED ON BOTH ENDS.



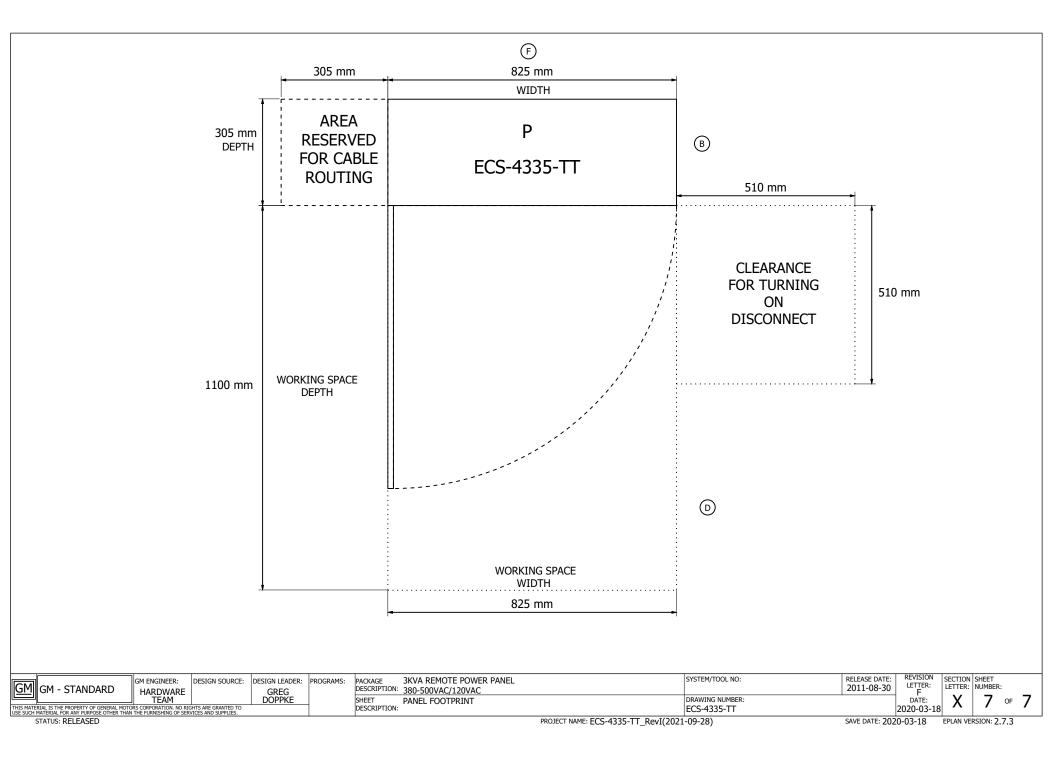
WIRE COLOR	ABBREV
BLACK	BK
BROWN	BN
RED	RD
ORANGE	OG
YELLOW	YE
GREEN	GN
BLUE	BU
VIOLET	VT
GRAY	GY
WHITE	WH
PINK	PK
GOLD	GD
TURQUOISE	TQ
SILVER	SR
GREEN WITH YELLOW TRACER	GNYE
BLACK WITH ORANGE TRACER	BKOG
BLUE WITH ORANGE TRACER	BUOG
WHITE WITH RED TRACER	WHRD
WHITE WITH ORANGE TRACER	WHOG
WHITE WITH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

NOTE:

SHORTING. 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).

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

	GM GM - STANDARD	GM ENGINEER: HARDWARE	DESIGN SOURCE:	DESIGN LEADER: GREG	PROGRAMS:		3KVA REMOTE POWER PANEL 380-500VAC/120VAC		SYSTEM/TOOL NO:	RELEASE DATE: 2011-08-30			SHEET NUMBER	₹:	
_ L		TEAM		DOPPKE		SHEET	RECEPTACLE PIN CHART		DRAWING NUMBER:		DATE:	X	6	of <b>7</b>	′ I
	HIS MATERIAL IS THE PROPERTY OF GENERAL MOT ISE SUCH MATERIAL FOR ANY PURPOSE OTHER THA					DESCRIPTION:			ECS-4335-TT		2020-03-18				
	STATUS: RELEASED							PROJECT NAME: ECS-4335-TT_RevI(202:	1-09-28)	SAVE DATE: 2020	0-03-18	EPLAN V	ERSION: 2.	.7.3	



EV	ITEM NUMBER	CHANGE DESCRIPTION	DATE	CHANGE CODE	CHANGED BY	REV	ITEM NUMBER	CHANGE DESCRIPTION	DATE	CHANGE CODE	CHANGED BY		
		- UPDATED BOM NAME.	2011-10-03	С	MARTY	Н		3SU1900-0FA11-0AA0.	2020-12-17	С	GRD		
		RENAMED BOM, WAS 'ECS-4335-BOM'.	2015-05-05		GRD								
	12255	PURCHASE CODE CHANGED FROM B3 TO B2.											
_	ALL	UPDATED PURCHASE CODES.	2016-03-22	С	ВЈ								
	75803	PART NUMBER CHANGED FROM ESSW1-050 TO 60202 5-1768031-0.											
)	12504	ADDED ITEM.	2017-02-23	С	GRD								
	12630	ADDED ITEM.											
	12654	ADDED ITEM.											
	12255	REMOVED ITEM. QTY WAS 1.											
=	11100	PART NUMBER CHANGED FROM 3VL9300-3JS51 TO 3VL9300-3JS71.	2017-05-17	С	ВЈ								
	75130	ADDED ITEM.											
F	11102	ADDED ITEM.	2020-03-18	С	DB								
	11110	ADDED ITEM.											
	11120	ADDED ITEM.											
	11350	ADDED ITEM.											
	12731	ADDED ITEM.											
	12734	ADDED ITEM.											
	15875	ADDED ITEM.											
	15876	ADDED ITEM.											
	75120	PART NUMBER CHANGED FROM 800938 TO 0806602.											
	75600	CHANGED QTY FROM 4 TO 11.											
	80002	ADDED ITEM.											
	80010	ADDED ITEM.											
	11074	REMOVED ITEM. QTY WAS 1.											
	11090	REMOVED ITEM. QTY WAS 2.											
	11100	REMOVED ITEM. QTY WAS 1.											
	11330	REMOVED ITEM. QTY WAS 1.											
	75803	REMOVED ITEM. QTY WAS 1.											
	80090	REMOVED ITEM. QTY WAS 1.										CHANG	CODE
	80257	REMOVED ITEM. QTY WAS 1.										PR PRODUCT (	
	80258	REMOVED ITEM. QTY WAS 1.										MD MECHANIC	AL PROCESS
3	11349	ADDED ITEM.	2020-04-06	С	DB							CHANGE	PROCESS CHA
	11350	REMOVED ITEM. QTY WAS 1.										MECHANIC	AL DESIGN
1	75130	PART NUMBER CHANGED FROM SZ 2508.010 TO 2508010.	2020-12-17	С	GRD							CHANGE	
	75150	PART NUMBER CHANGED FROM SZ 2412.210 TO 2412210.										-	DESIGN CHAI
	75600	PART NUMBER CHANGED FROM 3SB3921-0AA TO										F FLOOR AND CHANGE	BUILD
<u></u>	M - STAI	MDARD GM ENGINEER: DESIGN SOURCE: DESIGN LEADER: PROC	GRAMS: PACKAG	E 3K\	/A REMOTE	POWE	R PANEL	SYSTEM/TOOL NO:		REI	LEASE DATE: 011-08-30	REVISION SECTION LETTER:	N SHEET :: NUMBER:
III		NDARD HARDWARE GREG DOPPKE  TEAM GREG DOPPKE  RTY OF GENERAL MOTORS CORPORATION. NO RIGHTS ARE GRANTED TO PURPOSE OTHER THAN THE FURNISHING OF SERVICES AND SUPPLIES.	SHEET DESCRI	BOI	)-500VAC/1: M CHANGE			5-TT-BOM (BASE) DRAWING NUMBER ECS-4335-TT	R:	20		H DATE: 020-12-17	
	TUS: RELEA							PROJECT NAME: ECS-4335-TT RevI(2021-09-28)		CAN	VE DATE: 2021-		ERSION: 2.7.3

# **BOM NAME:** ECS-4335-TT-BOM (BASE)

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
	11102	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 125, W/ ADAPTER PLATE	SIEMENS	3VA9138-0DK84	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		
	11218	1	CIRCUIT BREAKER, MINIATURE, 240 V, 14 KA, 1-POLE, C, 2 A, D=70 mm TO UL 489, SAME POLARITY	SIEMENS	5SJ4102-7HG40	B2		
	11225	4	CIRCUIT BREAKER, MINIATURE, 240 V, 14 KA, 1-POLE, C, 10 A, D=70 mm TO UL 489, SAME POLARITY	SIEMENS	5SJ4110-7HG40	B2		
	11227	1	CIRCUIT BREAKER, MINIATURE, 240 V, 14 KA, 1-POLE, C, 20 A, D=70 mm TO UL 489, SAME POLARITY	SIEMENS	5SJ4120-7HG40	B2		
	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	B2		
	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	В3		
	12504	1	INDICATOR LIGHT, 22 mm, ROUND, METAL, SHINY, GREEN, SMOOTH LENS	SIEMENS	3SU1051-6AA40-0AA0	В3		
	12630	1	HOLDER FOR 3 MODULES, METAL	SIEMENS	3SU1550-0AA10-0AA0	В3		
	12654	1	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	6	BLOCK, TERMINAL, END ANCHORS - DIN RAIL, EW 35, BEIGE	WEIDMULLER	0383560000	B2-N		
	12717	3	BLOCK, TERMINAL, SPRING CLAMP, GROUND, 600 V, ZPE 6-2/3AN, 22- 8 AWG, 0.5 - 10 mm², FINGER SAFE, 3 POLE SINGLE CIRCUIT, 8 mm, GREEN-YELLOW	WEIDMULLER	1771360000	B2-N		
	12718	13	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	1	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		
	12734	1	BLOCK, TERMINAL, SPRING CLAMP, GROUND, 600 V, ZPE 10/3AN, 16- 6 AWG, 1.5 - 16 mm², FINGER SAFE, 3 POLE SINGLE CIRCUIT, 10 mm, GREEN-YELLOW	WEIDMULLER	1767670000	B2-N		
	15742	4	CORD, RECEPTACLE, MINI 3 PIN, FEMALE-INTERNAL THREADS, 2 METER (6.56 FT) PIGTAIL - 1/2 INCH NPT, AC C.C., 16 AWG, 600V, 13A	WOODHEAD - MOLEX	1R3000A20M020	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		
	75106	0 A/R	DUCT,50 mm W X 75 mm H, WITH COVER	TEHALIT	DNG75050	B1-N		
	75120	0 A/R	STANDARD MOUNTING RAIL 35X27X15,1.5mm THICK, 2 METERS LONG	PHOENIX	0806602	B1-N		
	75130	1	WALL MOUNTING BRACKET FOR KL, EB, BT, AE, CM, WALL-MOUNTED HOUSING EL, TP TOP PIECES AND SMALL FIBER OPTIC DISTRIBUTORS, 10 mm WALL DISTANCE, PACKAGE CONTAINS (4) BRACKETS	RITTAL OR EQUIVALENT	2508010	B1-N		

GM GM - STANDARD GM ENGINEER: DESIGN SOURCE: DESIGN LEADER: HARDWARE GREG	PROGRAMS: PACKAGE DESCRIPTION	3KVA REMOTE POWER PANEL N: 380-500VAC/120VAC	SYSTEM/TOOL NO:	RELEASE DATE: 2011-08-30	REVISION LETTER: H	1 1	SHEET NUMBER:	
THIS MATERIAL IS THE PROPERTY OF GENERAL MOTIONS CORPORATION. NO RIGHTS ARE GRANTED TO USE SUCH MATERIAL FOR ANY PROPOSE OTHER THAN THE PURPOSE OF SHOT SUCH OF SHOT SHOT SHOT SHOT SHOT SHOT SHOT SHOT	SHEET DESCRIPTION		DRAWING NUMBER: ECS-4335-TT	2	DATE: 2020-12-17	, YA	2 °	of 3

# **BOM NAME:** ECS-4335-TT-BOM (BASE)

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' SLIFETY ON SOLIRCE CODE DENOTES AN ITEM THAT IS NOT REQUIRED TO BE STOCKED AS SPARE BY THE PLANT

				NOT	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
	75150	1	GROUNDING STRAP, COPPER BRAID 10 $\mathrm{mm^2}$ X 200 $\mathrm{mm}$ LONG WITH 6 $\mathrm{mm}$ HOLES, FOR BONE ENCLOSURES	ER BRAID 10 mm <sup>2</sup> X 200 mm LONG WITH 6 mm HOLES, FOR BONDING OF					
	75600	11	HOLE PLUG, 22.5mm DIAMETER	2.5mm DIAMETER			B1-N		
	75804		TAGS, FOR PUSHBUTTONS & LIGHTS, 48mm X 48MM, WITH 4mm (0.15 INCH) (16PT) FONT, WHITE BACKGROUND	HBUTTONS & LIGHTS, 48mm X 48MM, WITH 4mm (0.15 INCH) (16PT) FONT, BLACK TEXT ON OUND			M-N		
	75805	0 A/R	TAGS, PANEL, STICK ON OR LAMICOID, MINIMUM FONT SIZE - 5mm (20PT)		CUSTOM	GENERIC TAG - PANEL	M-N		
	80002	1	ENCLOSURE BUILT TO LATEST GCCB-1 AND GCCH-1 SPECIFICATIONS, RAL7035 GRAY, 900 m W X 300 mm D WITH GALVANIZED (UNPAINTED) 12 GAUGE SUBPLATE			G7944	B2-N		
	80010	1	HOLE PLUG, 30.5mm DIAMETER		HOFFMAN OR EQUIVALENT	ASPBLG	B1-N		

GM ENGINEER:

DESIGN SOURCE:

DESIGN LEADER: PROGRAMS:

GREG DOPPKE

3KVA REMOTE POWER PANEL DESCRIPTION: 380-500VAC/120VAC ECS-4335-TT-BOM (BASE) DESCRIPTION:

SYSTEM/TOOL NO: DRAWING NUMBER: ECS-4335-TT

RELEASE DATE: 2011-08-30

REVISION LETTER: H DATE: 2020-12-17

SECTION SHEET LETTER: NUMBER: 3 of 3

[	REV	ITEM NUMBER	CHANGE DESCRIPTION	DATE	CHANGE CODE	CHANGED BY	REV	ITEM NUMBE	CHANGE DESCRIPTION	DATE	CHANGE CODE	CHANGED BY
	В		ADDED YB BOM REVISION SHEET.	2015-05-05	С	GRD						
	F	16547	ADDED ITEM.	2020-03-18	С	DB						
		16557	ADDED ITEM.									
		16533	DELETED ITEM.									
		80030	DELETED ITEM.									
		80031	DELETED ITEM.									
												CHANGE CODE
												PR PRODUCT CHANGE
												R PLANT REQUEST
												CHANGE
												CP CONTROL PROCESS CHANGE
												M MECHANICAL DESIGN
												C CONTROL DESIGN CHANGE
												F FLOOR AND BUILD
												CHANGE
			GM ENGINEER: DESIGN SOURCE: DESIGN LEADER: PROGRA	AMS: PACKAGI	iE 3KV	'A REMOTE	POWE	R PANEL	SYSTEM/TOOL NO:		REL	LEASE DATE: REVISION SECTION SHEET NUMBER:
<u>G</u>	M] GN	M - STAN	NDARD HARDWARE GREG TEAM DOPPKE	DESCRIF	PTION: 380	-500VAC/12	OVAC					
THIS N	MATERIAL I	IS THE PROPERT	I EAM DOPPKE  TY OF GENERAL MOTORS CORPORATION. NO RIGHTS ARE GRANTED TO  URPOSE OTHER THAN THE FURNISHING OF SERVICES AND SUPPLIES.	DESCRIF	PTION: BON	1 CHANGE S	HEET	: ECS-43	B35-TT-BOM (TT OPTION)  DRAWING NUMBER: ECS-4335-TT			DATE: 2020-03-18 YB 1 OF 2
	STAT	US: RELEA	ASED						PROJECT NAME: ECS-4335-TT_RevI(2021-09-28)		SAV	/E DATE: 2021-09-28 EPLAN VERSION: 2.7.3

### **BOM NAME:**

# ECS-4335-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
	16547		TRANSFORMER, CONTROL, 3 KVA, PRIMARY 480-460-440-240-230-220 V, SECONDARY 120-115-110 V, 1 PHASE, 50/60 HZ, IP00, 120 °C RISE, 55 °C AMBIENT	SIEMENS	MTG3000A	B2		TT=02. THIS IS THE 440/460/480V OPTION.
	16557	1	TRANSFORMER, CONTROL, 3 KVA, PRIMARY 415-400-380 V, SECONDARY 220-110 V, 1 PHASE, 50/60 HZ, IP00, 120 °C RISE, 55 °C AMBIENT	SIEMENS	MTG3000I	B2		TT=01. THIS IS THE 380/400/415V OPTION.

GM - STANDARD

GM ENGINEER: HARDWARE TEAM

DESIGN SOURCE:

DESIGN LEADER: PROGRAMS: GREG DOPPKE

3KVA REMOTE POWER PANEL DESCRIPTION: 380-500VAC/120VAC ECS-4335-TT-BOM (TT OPTION) DESCRIPTION:

SYSTEM/TOOL NO: DRAWING NUMBER: ECS-4335-TT

REVISION LETTER: F RELEASE DATE: 2011-08-30 2020-03-18

SECTION SHEET LETTER: NUMBER:

## **DEVICE LIST**

DEVICE TAG ITEM NUMBER QTY			DESCRIPTION	MANUFACTURER PART NUMBER		
E104DISC	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		
	11102	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 125, W/ ADAPTER PLATE	SIEMENS 3VA9138-0DK84		
	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		
	11120	2	TERMINAL COVER 3 POLE; 1 PC. WITH PROBE HOLES FOR VOLTAGE TESTING ACCESSORY FOR: 3VA4/5 125	SIEMENS 3VA9131-0WD31		
F200ESSOR AND CONTROL POWER	75805	0 A/R	TAGS, PANEL, STICK ON OR LAMICOID, MINIMUM FONT SIZE - 5mm (20PT)	CUSTOM GENERIC TAG - PANEL		
TRANSFORMER	16547	1	TRANSFORMER, CONTROL, 3 KVA, PRIMARY 480-460-440-240-230-220 V, SECONDARY 120-115-110 V, 1 PHASE, 50/60 HZ, IP00, 120 °C RISE, 55 °C AMBIENT	SIEMENS MTG3000A		
	16557	1	TRANSFORMER, CONTROL, 3 KVA, PRIMARY 415-400-380 V, SECONDARY 220-110 V, 1 PHASE, 50/60 HZ, IP00, 120 °C RISE, 55 °C AMBIENT	SIEMENS MTG3000I		
E210CB	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		
E216CB	11218	1	CIRCUIT BREAKER, MINIATURE, 240 V, 14 KA, 1-POLE, C, 2 A, D=70 mm TO UL 489, SAME POLARITY	SIEMENS 5SJ4102-7HG40		
E216LT 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		
E220CB	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		
E224CB	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		
E228CB	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		
E232CB	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		
E237CB	11227	1	CIRCUIT BREAKER, MINIATURE, 240 V, 14 KA, 1-POLE, C, 20 A, D=70 mm TO UL 489, SAME POLARITY	SIEMENS 5SJ4120-7HG40		
MP MOUNTING PANEL	12712	6	BLOCK, TERMINAL, END ANCHORS - DIN RAIL, EW 35, BEIGE	WEIDMULLER 0383560000		
	75106	0 A/R	DUCT,50 mm W X 75 mm H, WITH COVER	TEHALIT DNG75050		
	75120	0 A/R	STANDARD MOUNTING RAIL 35X27X15,1.5mm THICK, 2 METERS LONG	PHOENIX 0806602		
	75130  1 WALL MOUNTING BRACKET FOR KL, EB, BT, AE, CM, WALL-MOUNTED HOUSING EL, TP TOP PIECES AND SMALL FIBER OPTIC DISTRIBUTORS, 10 mm WALL DISTANCE, PACKAGE CONTAINS (4) BRACKETS			RITTAL OR EQUIVALE 2508010		
	75805	0 A/R	TAGS, PANEL, STICK ON OR LAMICOID, MINIMUM FONT SIZE - 5mm (20PT)	CUSTOM GENERIC TAG - PANEL		

DEVICE TAG	ITEM NUMBER	MANUFACTURER PART NUMBER		
	75150	75150 1 GROUNDING STRAP, COPPER BRAID 10 mm² X 200 mm LONG WIT HOLES, FOR BONDING OF ENCLOSURES		RITTAL OR EQUIVALENT 2412210
	80002	1	ENCLOSURE BUILT TO LATEST GCCB-1 AND GCCH-1 SPECIFICATIONS, RAL7035 GRAY, 900 mm H X 825 mm W X 300 mm D WITH GALVANIZED (UNPAINTED) 12 GAUGE SUBPLATE	HOFFMAN OR EQUIVALENT G7944
	75804	0 A/R	TAGS, FOR PUSHBUTTONS & LIGHTS, 48mm X 48MM, WITH 4mm (0.15 INCH) (16PT) FONT, BLACK TEXT ON WHITE BACKGROUND	CUSTOM GENERIC TAG - PBPL
	75600	11	HOLE PLUG, 22.5mm DIAMETER	SIEMENS 3SU1900-0FA11-0AA0
	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
	80010	1	HOLE PLUG, 30.5mm DIAMETER	HOFFMAN OR EQUIVALENT ASPBLG
LUG PE LUG	12734	1	BLOCK, TERMINAL, SPRING CLAMP, GROUND, 600 V, ZPE 10/3AN, 16- 6 AWG, 1.5 - 16 mm², FINGER SAFE, 3 POLE SINGLE CIRCUIT, 10 mm, GREEN-YELLOW	WEIDMULLER 1767670000
	12731	1	BLOCK, TERMINAL, END BARRIER, FOR ZDU 10/3AN 1767690000 AND ZDU 16/3AN 1768320000, BEIGE	WEIDMULLER 1749580000
AC1	15742	1	CORD, RECEPTACLE, MINI 3 PIN, FEMALE-INTERNAL THREADS, 2 METER (6.56 FT) PIGTAIL - 1/2 INCH NPT, AC C.C., 16 AWG, 600V, 13A	WOODHEAD - MOLEX 1R3000A20M020
AC2	15742	1	CORD, RECEPTACLE, MINI 3 PIN, FEMALE-INTERNAL THREADS, 2 METER (6.56 FT) PIGTAIL - 1/2 INCH NPT, AC C.C., 16 AWG, 600V, 13A	WOODHEAD - MOLEX 1R3000A20M020
AC3	15742	1	CORD, RECEPTACLE, MINI 3 PIN, FEMALE-INTERNAL THREADS, 2 METER (6.56 FT) PIGTAIL - 1/2 INCH NPT, AC C.C., 16 AWG, 600V, 13A	WOODHEAD - MOLEX 1R3000A20M020
AC4	15742	1	CORD, RECEPTACLE, MINI 3 PIN, FEMALE-INTERNAL THREADS, 2 METER (6.56 FT) PIGTAIL - 1/2 INCH NPT, AC C.C., 16 AWG, 600V, 13A	WOODHEAD - MOLEX 1R3000A20M020

GM GM - STANDARD GM ENGINEER: DESIGN SOURCE: DESIGN LIFE GRE		PACKAGE 3KVA REMOTE POWER PANEL DESCRIPTION: 380-500VAC/120VAC		RELEASE DATE: REVISION LETTER: H	SECTION SHEET NUMBER:
TEAM DOPF	KE	SHEET DEVICE LIST	DRAWING NUMBER:	DATE:	<b>Y7   1</b> of 1
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.		DESCRIPTION:	ECS-4335-TT	2020-12-1	7 12 1

PROJECT NAME: ECS-4335-TT\_RevI(2021-09-28)

SAVE DATE: 2021-09-27 EPLAN VERSION: 2.7.3