



GE T&D India Limited

(Formerly Alstom T&D India Limited)

Grid Automation-Pallavaram Chennai

GODACHAK 220/132kV SS

CUSTOMER : ODISHA POWER TRANSMISSION CORPORATION

CONTRACTOR: GE T&D INDIA LTD

PROJECT : GODACHAK 220/132kV SS

PO NO : Sr GM CPC-I-LIMITED-E-TENDER-AUTOMA dtd 25.07.2018

220kV BUSBAR & BUS COUPLER CONTROL & RELAY PANEL

QUANTITY: 01 No

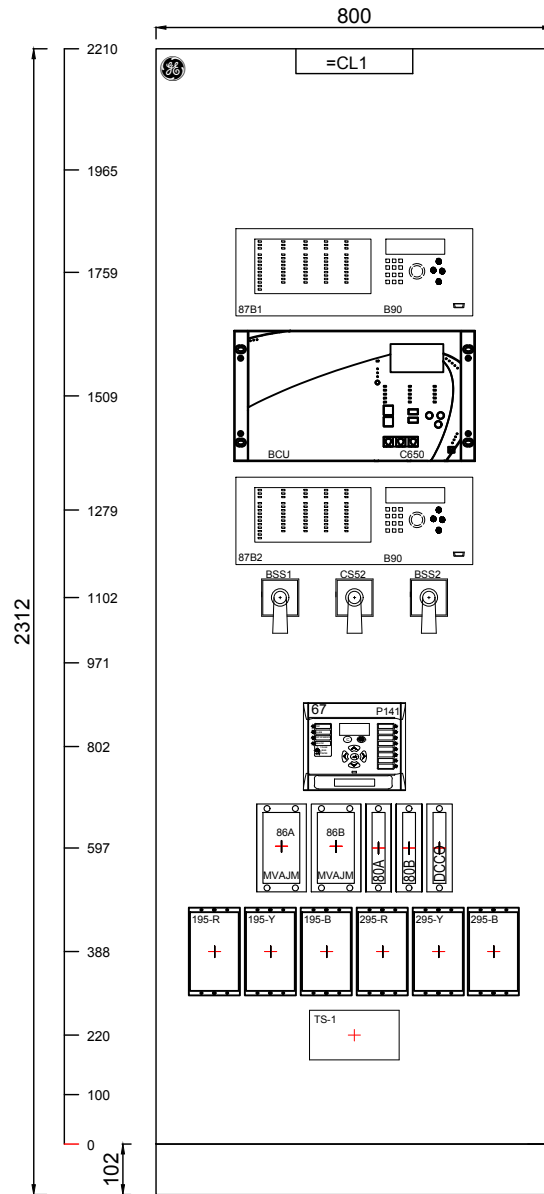
SALES ORDER NO.: 3269048463

ENGG. REF. NO.: KY3G

ENGINEER : DCS

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85	100	CB CIRCUIT	A	
100	120	BACKUP PROTECTION UNIT	A	
120	121	BAY CONTROL UNIT	A	
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150	151	GROUP-A TRIP RELAY CIRCUIT	A	
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SHEET	NEXT SHEET	DESCRIPTION	REV.	REVISION NOTE
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201	202	BUS-1 BUSBAR PROTECTION - 87B1	A	
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210	211	BUS-1/2 BUSBAR PROTN. - CT CKT - BAY-201 FUTURE-1	A	
211	212	BUS-1/2 BUSBAR PROTN. - CT CKT - BAY-202 FEEDER-1	A	
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213	214	BUS-1/2 BUSBAR PROTN. - CT CKT - BAY-204 BC	A	
214	215	BUS-1/2 BUSBAR PROTN. - CT CKT - BAY-205 AT TRAFO-2	A	
215	216	BUS-1/2 BUSBAR PROTN. - CT CKT - BAY-206 FEEDER-2	A	
216	221	BUS-1/2 BUSBAR PROTN. - CT CKT - BAY-207 FUTURE-2	A	
221	NIL	BUSBAR PROTECTION - SELECTOR SWITCH	A	



PANEL REF : =204RP
CIRCUIT LABEL : 220kV Busbar & Bus Coupler C&R Panel

=204RP

Equipment Name	Description
-CL 1	Circuit Label
87B1	Busbar Differential Protection Unit for Bus-1
BCU	Bay Control Unit, Type: C650
87B2	Busbar Differential Protection Unit for Bus-2
CS52	Control Switch for CB-52
BSS1	Busbar Protection Selector Switch for Bus-1
BSS2	Busbar Protection Selector Switch for Bus-2
67	Backup Protection Unit, Type: P141
86A	Group-A Master Trip Relay
86B	Group-B Master Trip Relay
80A	DC Supervision Relay for DC Source-1
80B	DC Supervision Relay for DC Source-2
DCCO	DC Change Over Relay
195R, 195Y, 195B	Trip Circuit Supervision Relays for CB Trip Coil-1
295R, 295Y, 295B	Trip Circuit Supervision Relays for CB Trip Coil-2
TS1	Test Switch for Backup Protection Relay

FOR GE REF:	ENGG.REF.NO.: KY3G	CUSTOMER: ODISHA POWER TRANSMISSION CORPORATION	GE T&D India Ltd. (Formerly Alstom T&D India Ltd.) Grid Automation-Pallavaram India	SCHEMATIC DRAWING	FILE:	PREPARED BY: DRR	REVISION: A
SCHEME TYPE: 220kV BUSBAR & BC C&R PANEL		PROJECT: GODACHAK 220/132kV SS		PANEL TYPES: 204RP		CHECKED BY: DCS	DATE: 24.08.18
BASE FILE:		P.O.NO.: Sr GPM C-I-LIMITED-E-TENDER-AUTOMA		TITLE: PANEL DETAILS		APPROVED BY: MVG	SCALE: --
SALES ORDER: 3269048463		Dated 25.07.2018		GENERAL ARRANGEMENT		DRG. NO.: CPD-KY3G-SC23	SHT03 NXT SHT04

SL. No.	Device Designation	Device Description	Type Designation	Technical Data	Manufacturer	Qty	GE Item Code	Sheet Ref.
01	=204RP	220kV Busbar & Bus Coupler Control & Relay Panel	C&R Panel With Dead Front & Rear Door	Width=800mm,Depth=800mm,Height=2312mm (Base Frame:102mm(H)) Exterior : Light Grey to shade 631 of IS:5, Finish : Stexture Interior : White, Glossy finish Base Frame: Black, Glossy finish Paint thickness : Powder Coated 50 Microns thick minimum	MPP/VANDANA/GE/LORDS	01		03
02	CL	Circuit Label	Black PVC	White Letter on Black Background	GE	01		03
03	87B1 87B2	Busbar Differential Protection for Bus-1 Busbar Differential Protection for Bus-2	Numerical	Model No : B90 Communication Protocol: IEC61850, Version: 6.0x Communication Port: Front RS232 & Rear RS485 & 100 Base Fx Protection Functions : Bus Differential Recording Functions: Disturbance Recorder and Event Logger	GE	02		
04	BCU	Bay Control Unit	Numerical	Model No : C650 Communication Protocol: IEC 61850 Communication Port: 10/100 Base TX + 100 Base FX Recording Functions: Disturbance Recorder and Event Logger	GE	01		120, 121, 122
05	CS52	Control switch for Circuit Breaker	Spring return	No of position 3, (T-Trip, N-Neutral, C-Close) Auxiliary Supply: 660V DC	SWITRON	01		80
06	BSS1 BSS2	Selector switch for Bus-1 Selector switch for Bus-2	Stayput, Lockable	No of position 2, IN/OUT	SWITRON	02		
07	67	Backup Protection Relay	Numerical	Model No : P141 Communication Protocol: IEC61850 Protection Functions : O/C & E/F, Backup Protection Recording Functions: Disturbance Recorder and Event Logger	ALSTOM	01		100
08	86A 86B	Group-A Master Trip Relay Group-B Master Trip Relay	Latching Type	Model No : MVAJM25 Contacts: 16 N/O + 4 N/C ER Flag: HR Auxiliary Supply : 220V DC	ALSTOM	01 01		150 151
09	80A 80B	DC Source-1 Supervision Relay DC Source-2 Supervision Relay	Electromechanical	Model No : MVAAM11 Contacts: 2 N/O + 2 C/O S/R, FLAG: Reverse Auxiliary Supply : 220-250V DC	ALSTOM	01 01		40 40
10	DCCO	DC Change over relay	Electromechanical	Model No : MVAAM11 Contacts 2N/O, 2CO Auxiliary Voltage : 220V DC	ALSTOM	01		40
11	195A, 195B, 195C 295A, 295B, 295C	Trip Circuit Supervision Relay for CB Trip Coil-1 Trip Circuit Supervision Relay for CB Trip Coil-2	Static	Model No : MVAXM31 Contacts : 1N/O + 2 N/C S/R, FLAG: Reverse Aux Voltage : 220V DC	ALSTOM	03 03		81 82
12	TS1	Test switch for Backup Protection Relay	Electro Mechanical	Model No : MPG	ALSTOM	01		21, 81, 82, 141, 150

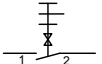
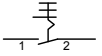
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SCHEME TYPE: 220kV BUSBAR & BC C&R PANEL		CHECKED BY: DCS	DATE: 24.08.18						
BASE FILE:		APPROVED BY: MVG	SCALE: --						
SALES ORDER: 3269048463		DRG. NO.: CPD-KY3G-SC23 SHT10 NXT SHT 11							

Internally mounted equipments

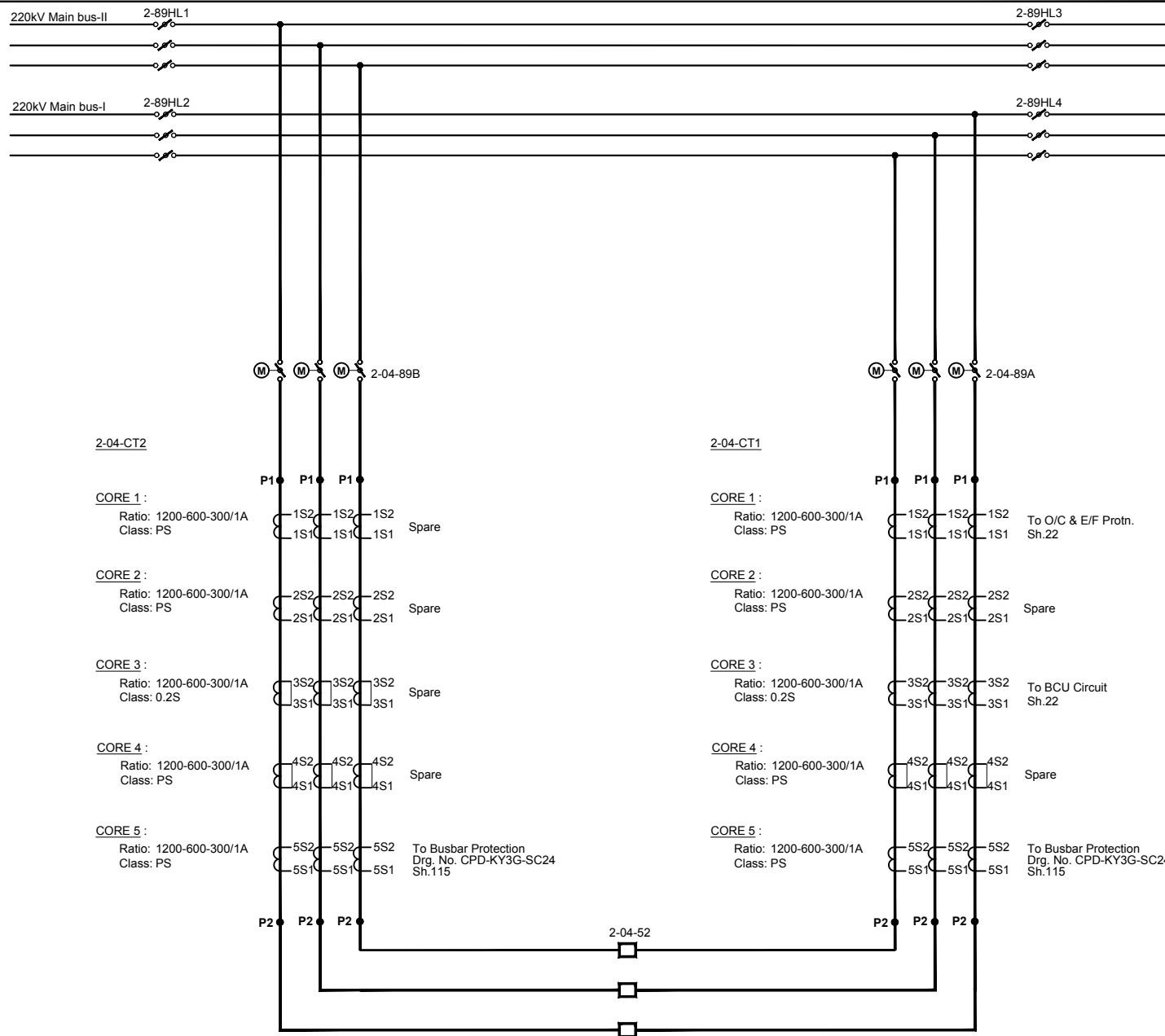
SL. No.	Device Designation	Device Description	Type Designation	Technical Data	Manufacturer	Qty	GE Item Code	Sheet Ref.
01	CFL	Compact Fluorescent Lamp with fitting		11W, 230VAC	PHILIPS/EQUIVALENT	01		42
02	DS	Door Limit switch for CFL		Model No : 1C160 No of position: 2, Off-On	Suraj	01		42
03	PS	Power Socket	3 Pin	Case Containing 3-Pin Socket 16A-230V AC Model No : CDINS16 Mounting : DIN RAIL	CONNECTWELL	01		42
04	HT	Space heater		60W, 230VAC	SOFIA	01		42
05	TH	Thermostat for Space Heater	Capillary	Range: 30-110 Deg C, 230VAC	ANCO	01		42
06	HS	Control Switch for Space Heater	Stayput	Position : ON/OFF	CONNECTWELL	01		42
07	MCB-01	MCB for DC-1 Incoming Circuit		Rating: 20A No. of Poles : 2P	Schneider	01		40
08	MCB-02	MCB for DC-2 Incoming Circuit		Rating: 20A No. of Poles : 2P	Schneider	01		40
09	MCB-11	MCB for AC Distribution circuit		Rating: 16A No. of Poles : 2P Aux Supply: 230V AC	Schneider	01		42
10	TB BB	Terminal Block Bus Board Terminal Block	Disconnecting / Non Disconnecting		ELMEX/EQUIVALENT	01 set		
11	FS1-2 FS3-4 FS5-6 FS7-8 FS9-10 FS11-12 FS13-14 FS15-16 FS21-22	CB Close & TC-1 Tripping Circuit Group-A Protection Circuit Isolator Control Circuit Transfer Isolator I/L ckt. BCU Circuit CB TC-2 Tripping Circuit Group-B Protection Circuit Backup Protection Circuit Busbar Protection Circuit	HRC	16A, 220V DC 6A, 220V DC 10A, 220V DC 6A, 220V DC 6A, 220V DC 16A, 220V DC 6A, 220V DC 6A, 220V DC 6A, 220V DC	BUSSMANN	02 02 02 02 02 02 02 02 02		40
12	FS41	Fuse for AC Distribution circuit	HRC	4A	BUSSMANN	01		42
13	LK41	Neutral Link	Link		BUSSMANN	01		42
14	1FS24-1FS26	Bus-1 VT Supply for BCU Circuit	HRC	2A , 110V AC	BUSSMANN	03		25
15	1LK26	Neutral Link	Link	110V AC	BUSSMANN	01		25
16	2FS24	Bus-2 VT Supply for Aux. VT Circuit	HRC	2A , 110V AC	BUSSMANN	01		26
17	2LK26	Neutral Link	Link	110V AC	BUSSMANN	01		26
18	2FS21-2FS23	Bus-2 VT Supply for Protection Circuit	HRC	2A , 110V AC	BUSSMANN	03		25
19	2LK23	Neutral Link	Link	110V AC	BUSSMANN	01		25
20	189BYX, 289BYX, 589BYX, 789BYX	Auxiliary Relay for Transfer isolator interlock circuit	Electromechanical	Model No: CR-M Contacts: 4 C/O Aux Supply: 250V DC	ABB	04		161

FOR GE REF:		ENGG.REF.NO.: KY3G		CUSTOMER: ODISHA POWER TRANSMISSION CORPORATION PROJECT: GODACHAK 220/132kV SS P.O.NO.: Sr GM CPC-I-LIMITED-E-TENDER-AUTOMA□ Dated 25.07.2018	 GE T&D India Ltd. (Formerly Alstom T&D India Ltd.) Grid Automation-Pallavaram India	SCHEMATIC DRAWING PANEL TYPES: 204RP TITLE: BILL OF MATERIAL	FILE:	PREPARED BY: DRR		REVISION: A	
SCHEME TYPE: 220kV BUSBAR & BC C&R PANEL		CHECKED BY: DCS						DATE: 24.08.18			
BASE FILE:		APPROVED BY: MVG						SCALE: --			
SALES ORDER: 3269048463		DRG. NO.: CPD-KY3G-SC23						SHT 11 NXT SHT 12			

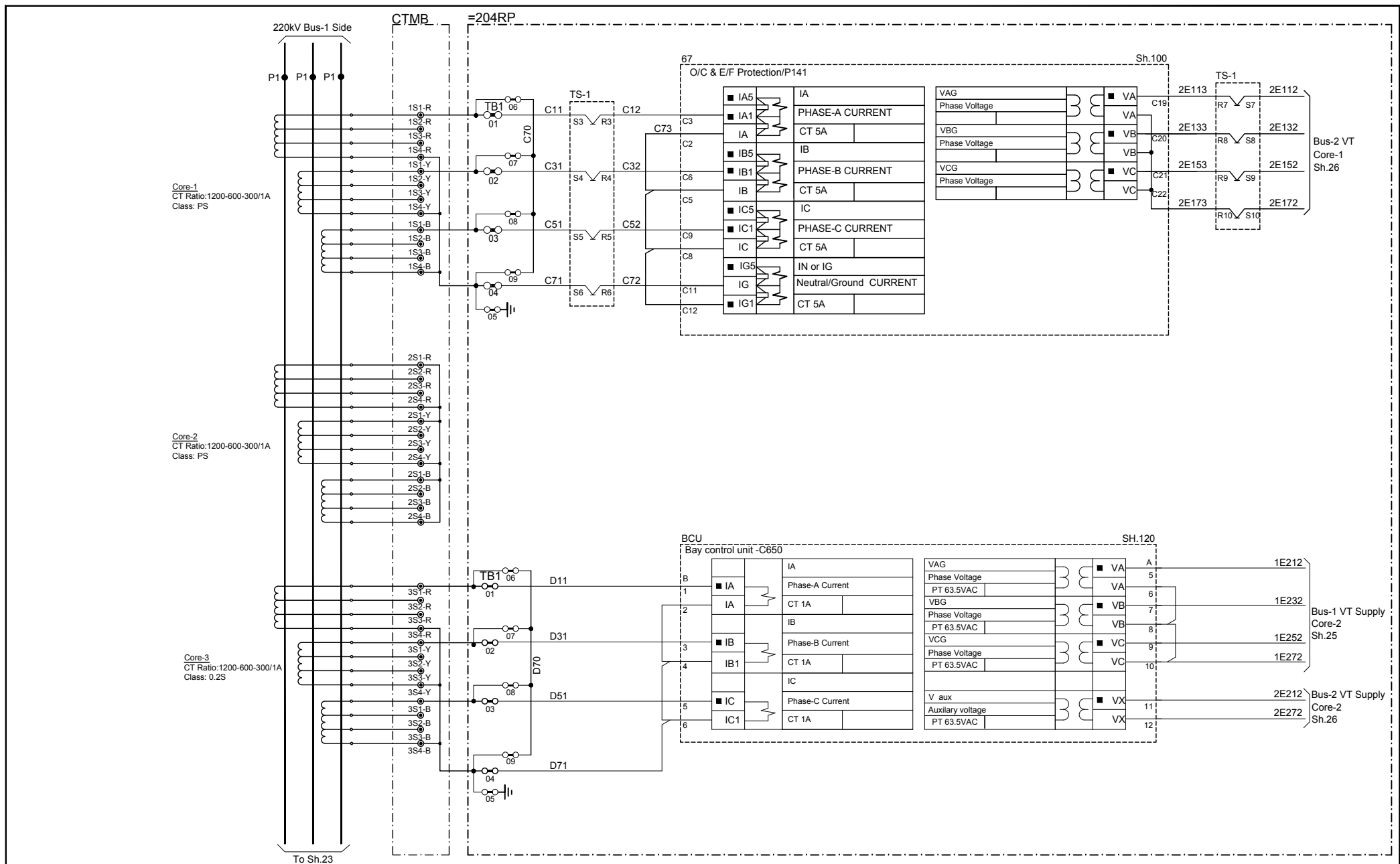
SYMBOLS

	CURRENT TRANSFORMER		RELAY COIL		NON DISCONNECTING TYPE TERMINAL
	MINIATURE CIRCUIT BREAKER		NORMALLY OPEN CONTACT		DISCONNECTING TYPE TERMINAL
	ISOLATING LINK		NORMALLY CLOSED CONTACT		DOOR LIMIT SWITCH
	3 PIN POWER SOCKET WITH SWITCH		COMBINATION OF NO & NC CONTACT WITH COMMON TERMINAL		THERMOSTAT CAPILARY TYPE
	FLUORESCENT LIGHT		HEATER		PUSH BUTTON
	SPRING RETURN TYPE CONTROL SWITCH		PANEL BOUNDARY		RELAY BOUNDARY
	STAYPUT TYPE CONTROL SWITCH				

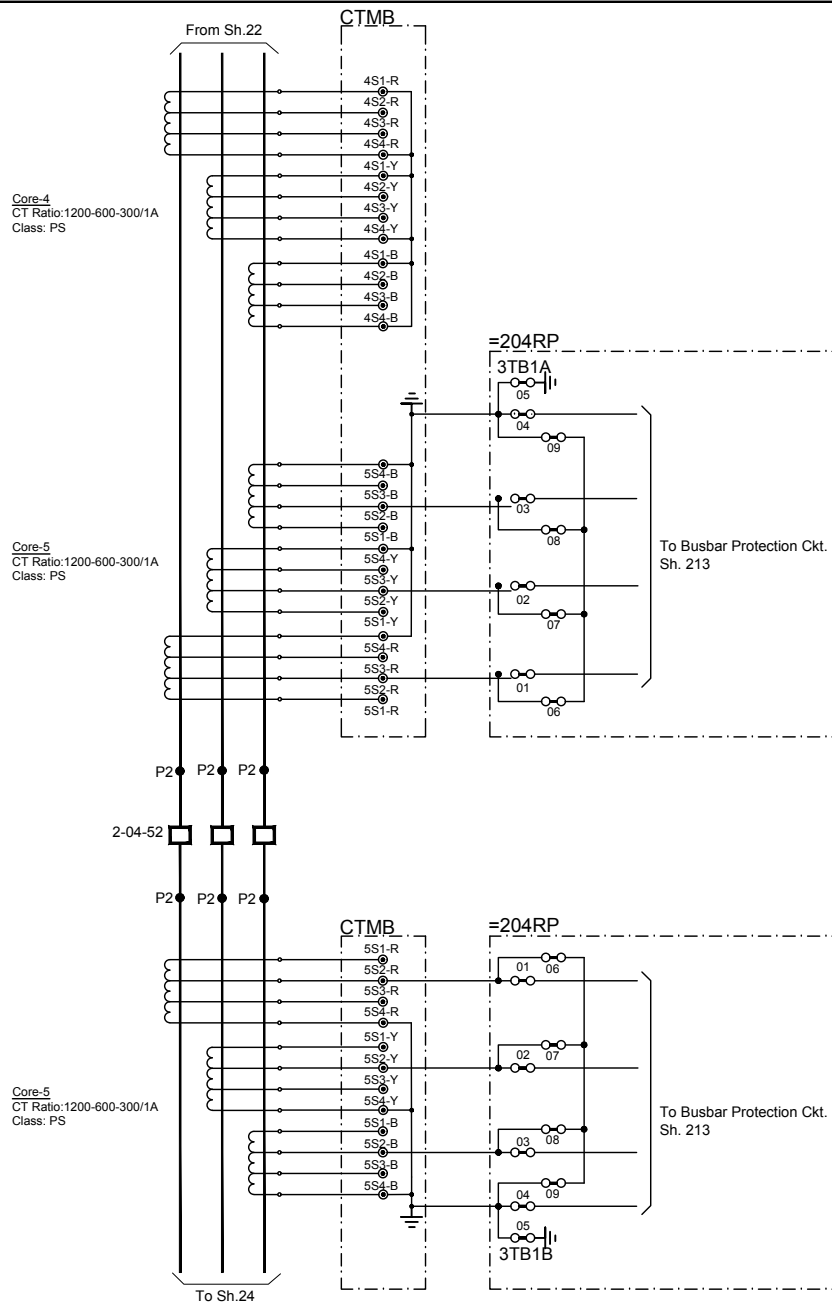
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SCHEME TYPE: 220kV BUSBAR & BC C&R PANEL						CHECKED BY: DCS	DATE: 24.08.18
BASE FILE:						APPROVED BY: MVG	SCALE: --
SALES ORDER: 3269048463						DRG. NO.: CPD-KY3G-SC23	SHT19 NXT SHT 21



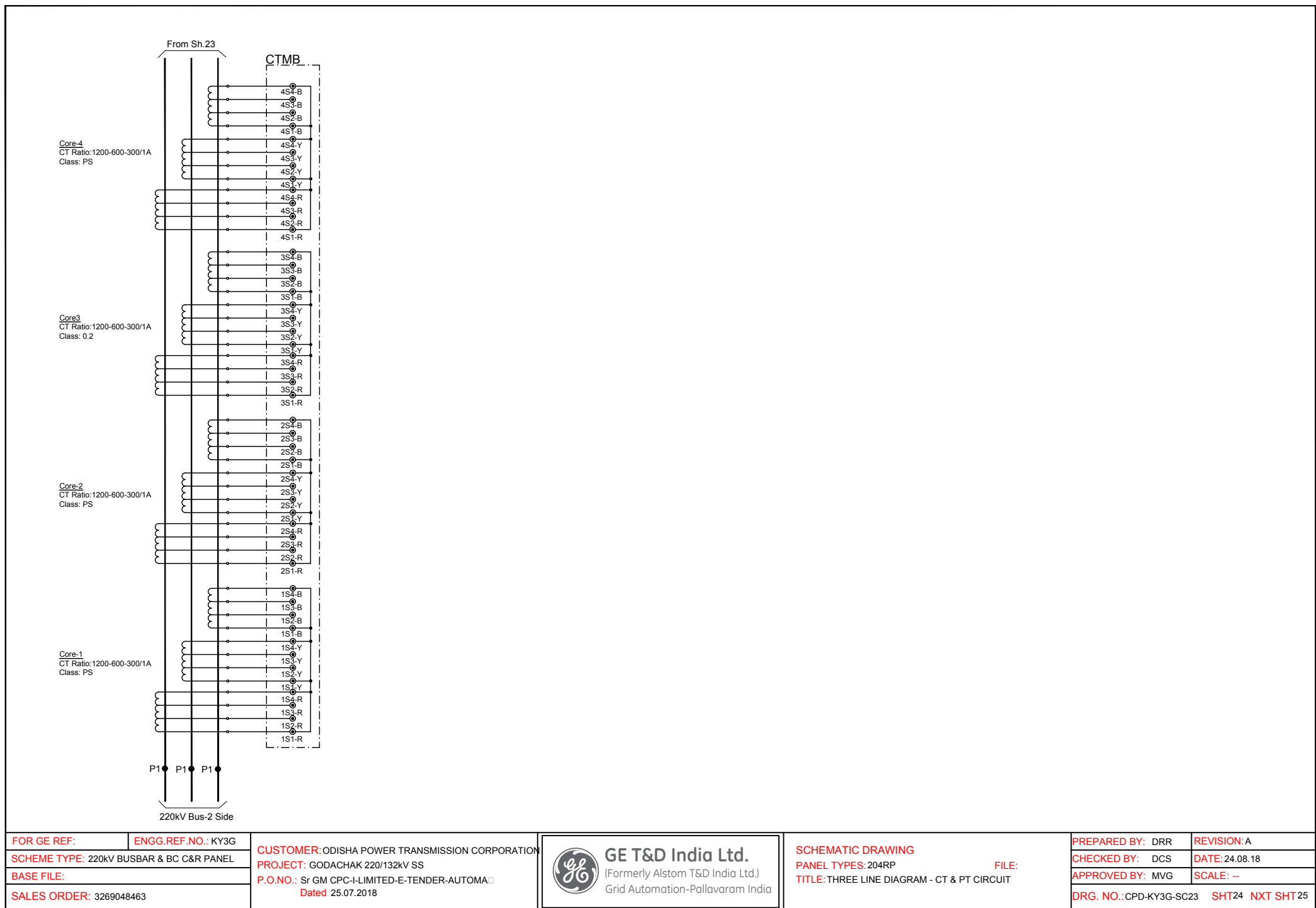
FOR GE REF:	ENGG.REF.NO.: KY3G	CUSTOMER: ODISHA POWER TRANSMISSION CORPORATION	GE T&D India Ltd. (Formerly Alstom T&D India Ltd.) Grid Automation-Pallavaram India	SCHEMATIC DRAWING PANEL TYPES: 204RP TITLE: THREE LINE DIAGRAM	FILE:	PREPARED BY: DRR CHECKED BY: DCS APPROVED BY: MVG DRG. NO.: CPD-KY3G-SC23	REVISION: A DATE: 24.08.18 SCALE: -- SHT21 NXT SHT 22
SCHEME TYPE: 220kV BUSBAR & BC C&R PANEL		PROJECT: GODACHAK 220/132kV SS					
BASE FILE:		P.O.NO.: Sr GM CPC-I-LIMITED-E-TENDER-AUTOMA					
SALES ORDER: 3269048463		Dated 25.07.2018					

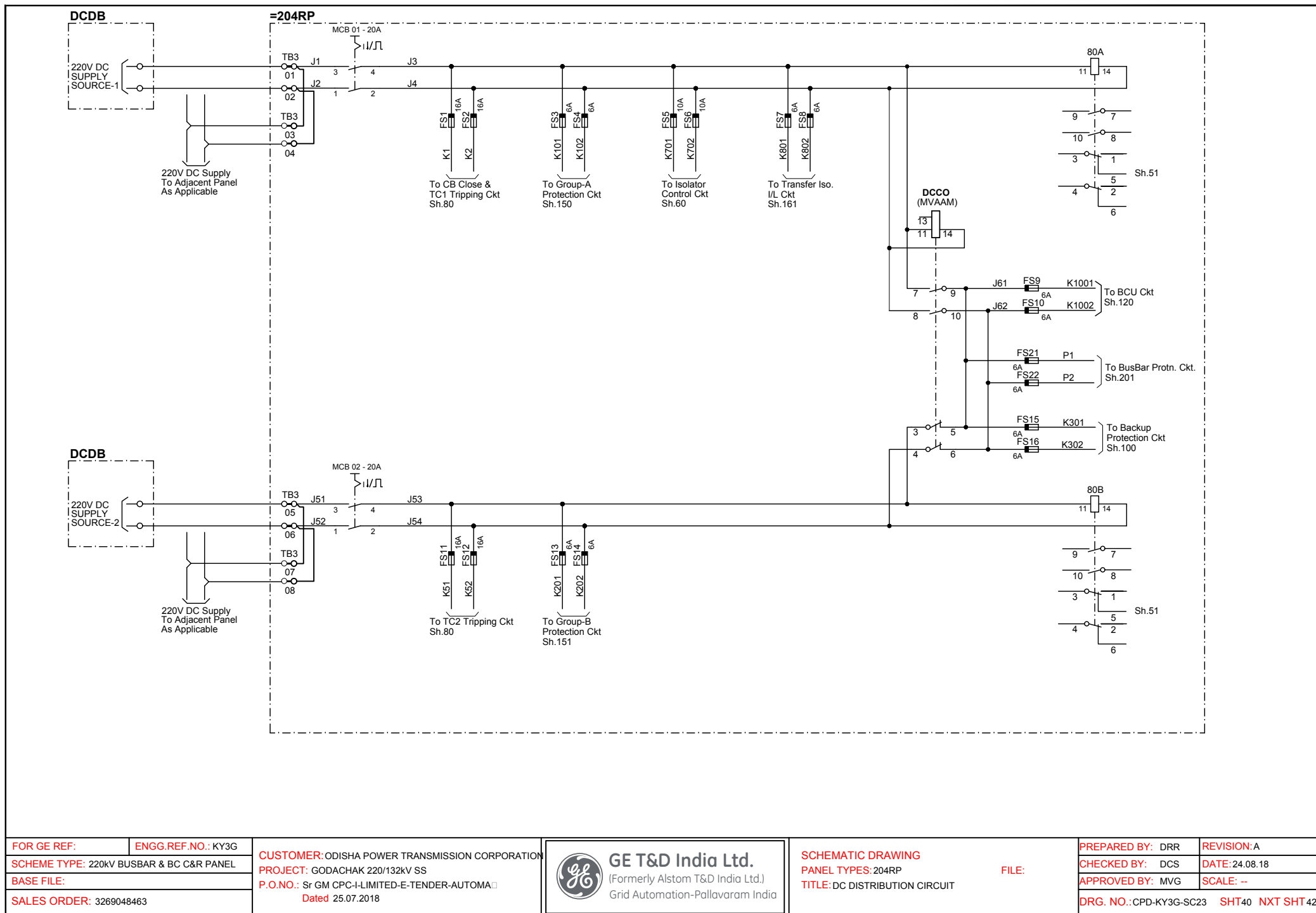


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SCHEME TYPE: 220kV BUSBAR & BC C&R PANEL		PROJECT: GODACHAK 220/132kV SS		PANEL TYPES: 204RP	CHECKED BY: DCS	DATE: 24.08.18
BASE FILE:		P.O.NO.: Sr GPC-I-LIMITED-E-TENDER-AUTOMA		TITLE: THREE LINE DIAGRAM - CT & PT CIRCUIT	APPROVED BY: MVG	SCALE: --
SALES ORDER: 3269048463		Dated 25.07.2018			DRG. NO.: CPD-KY3G-SC23	SHT22 NXT SHT 23

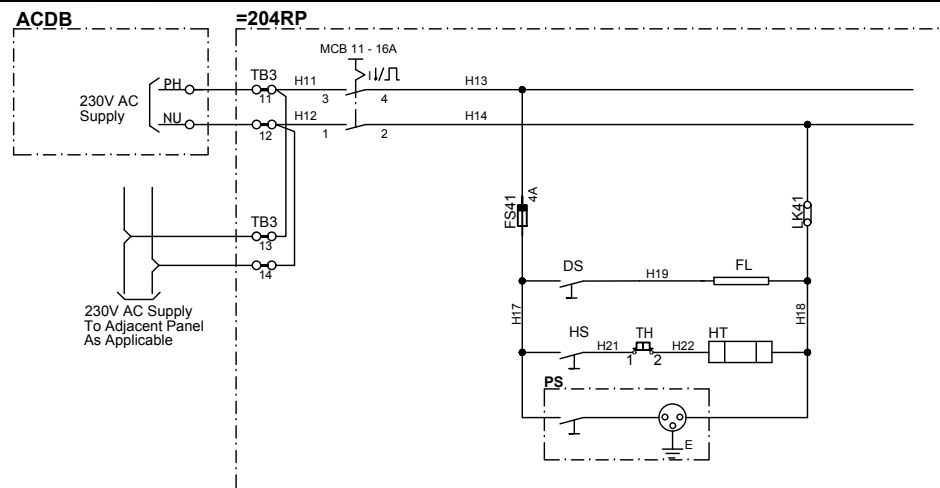


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SCHEME TYPE: 220kV BUSBAR & BC C&R PANEL		PROJECT: GODACHAK 220/132kV SS		PANEL TYPES: 204RP	CHECKED BY: DCS	DATE: 24.08.18
BASE FILE:		P.O.NO.: Sr GPM C-I-LIMITED-E-TENDER-AUTOMA		TITLE: THREE LINE DIAGRAM - CT & PT CIRCUIT	APPROVED BY: MVG	SCALE: --
SALES ORDER: 3269048463		Dated 25.07.2018			DRG. NO.: CPD-KY3G-SC23	SHT23 NXT SHT 24



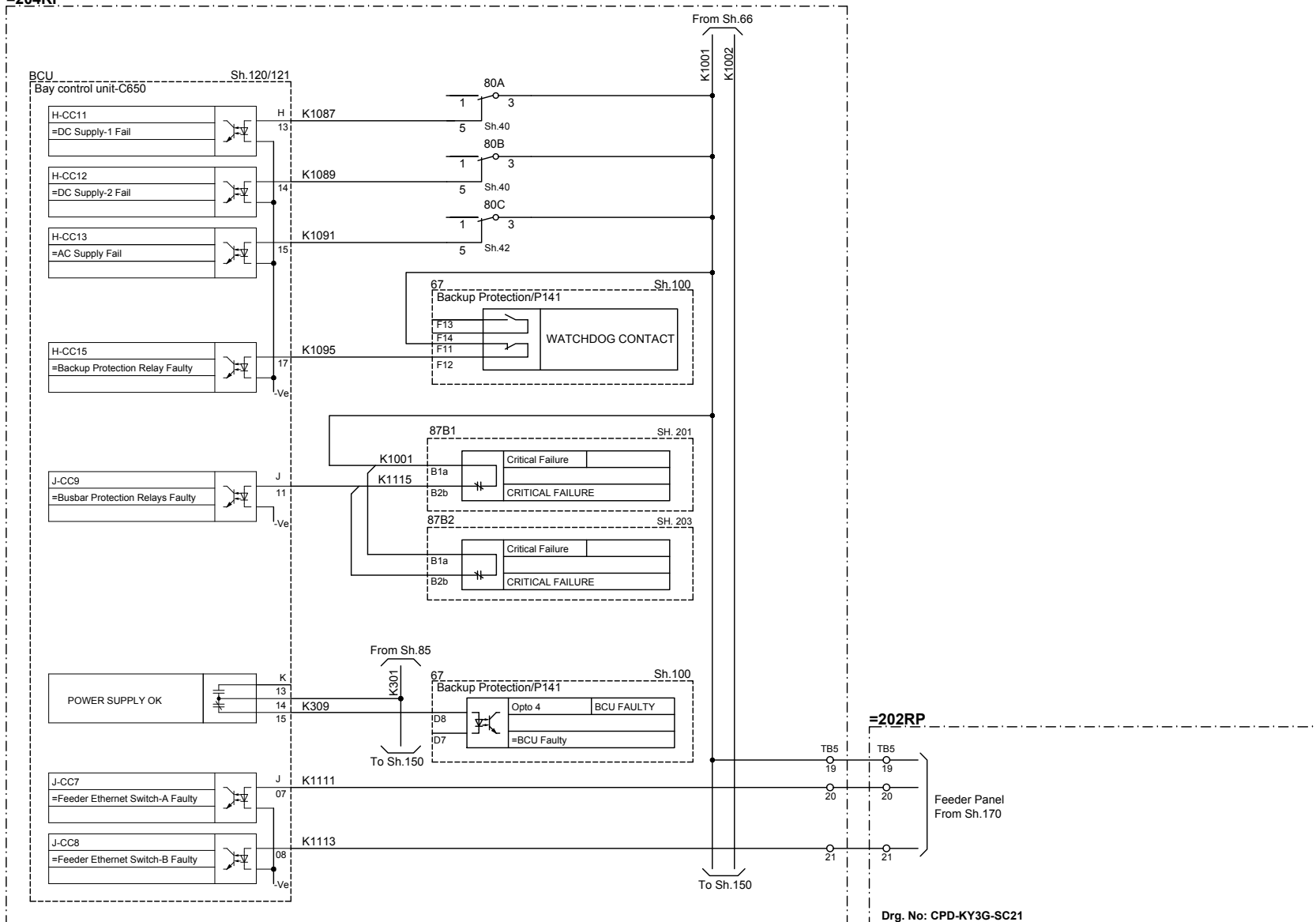


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SCHEME TYPE: 220kV BUSBAR & BC C&R PANEL		PROJECT: GODACHAK 220/132kV SS		PANEL TYPES: 204RP		CHECKED BY: DCS	DATE: 24.08.18
BASE FILE:		P.O.NO.: Sr GM CPC-I-LIMITED-E-TENDER-AUTOMA		TITLE: DC DISTRIBUTION CIRCUIT		APPROVED BY: MVG	SCALE: --
SALES ORDER: 3269048463		Dated 25.07.2018				DRG. NO.: CPD-KY3G-SC23	SHT40 NXT SHT 42

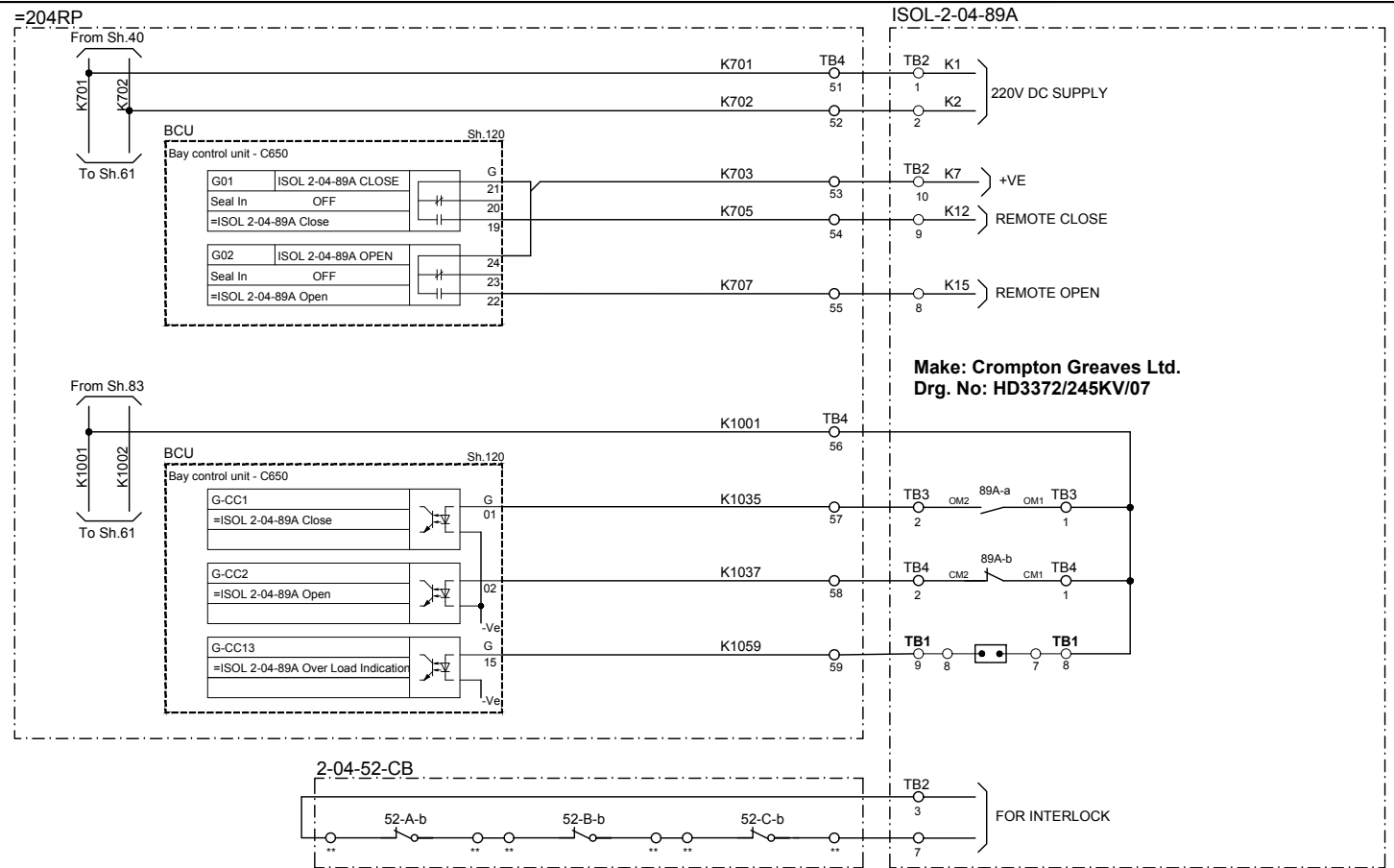


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SCHEME TYPE: 220kV BUSBAR & BC C&R PANEL		CUSTOMER: ODISHA POWER TRANSMISSION CORPORATION						CHECKED BY: DCS		DATE: 24.08.18	
BASE FILE:		PROJECT: GODACHAK 220/132kV SS						APPROVED BY: MVG		SCALE: --	
SALES ORDER: 3269048463		P.O.NO.: Sr GM CPC-I-LIMITED-E-TENDER-AUTOMA Dated 25.07.2018						DRG. NO.: CPD-KY3G-SC23		SHT 42 NXT SHT 51	

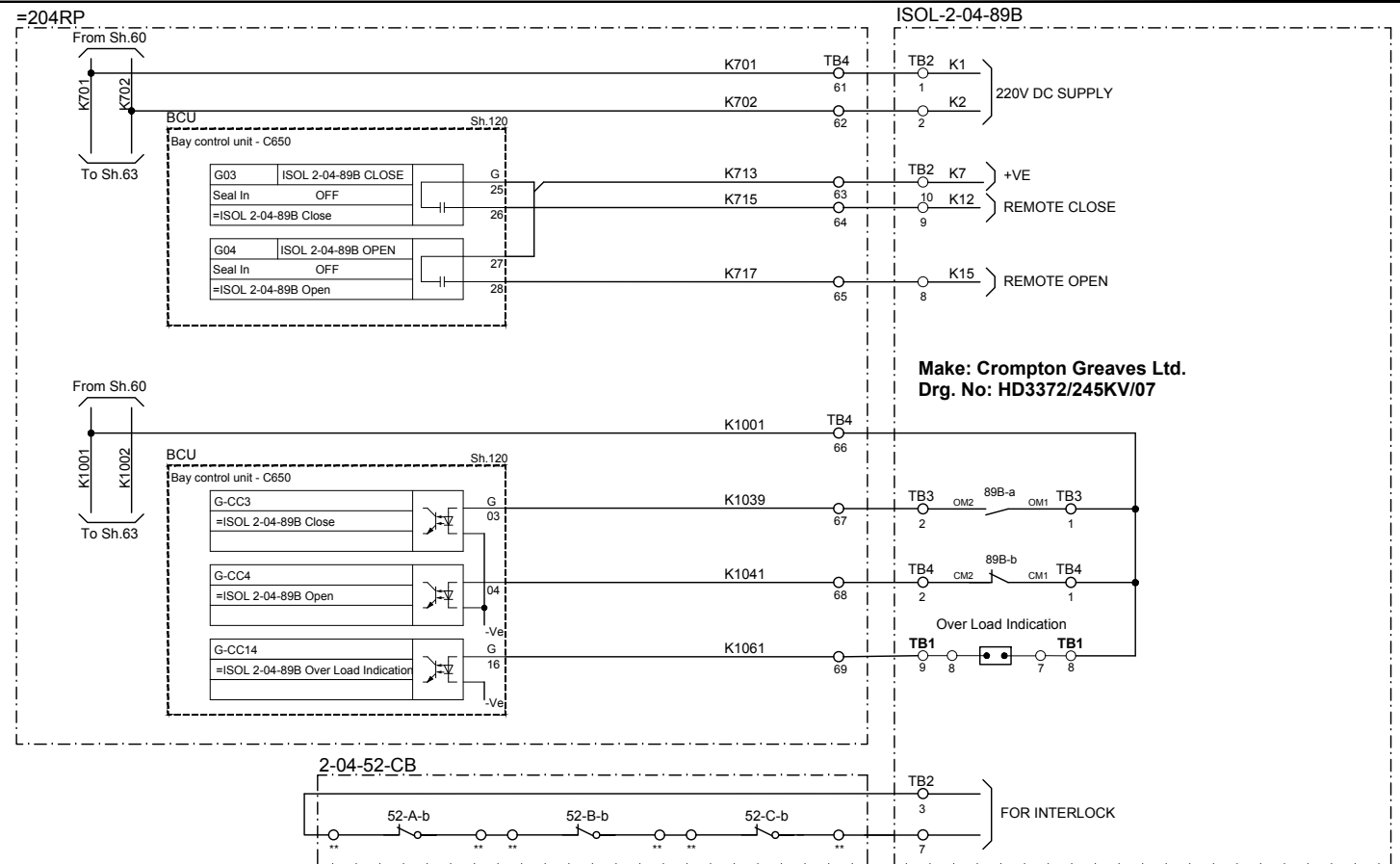
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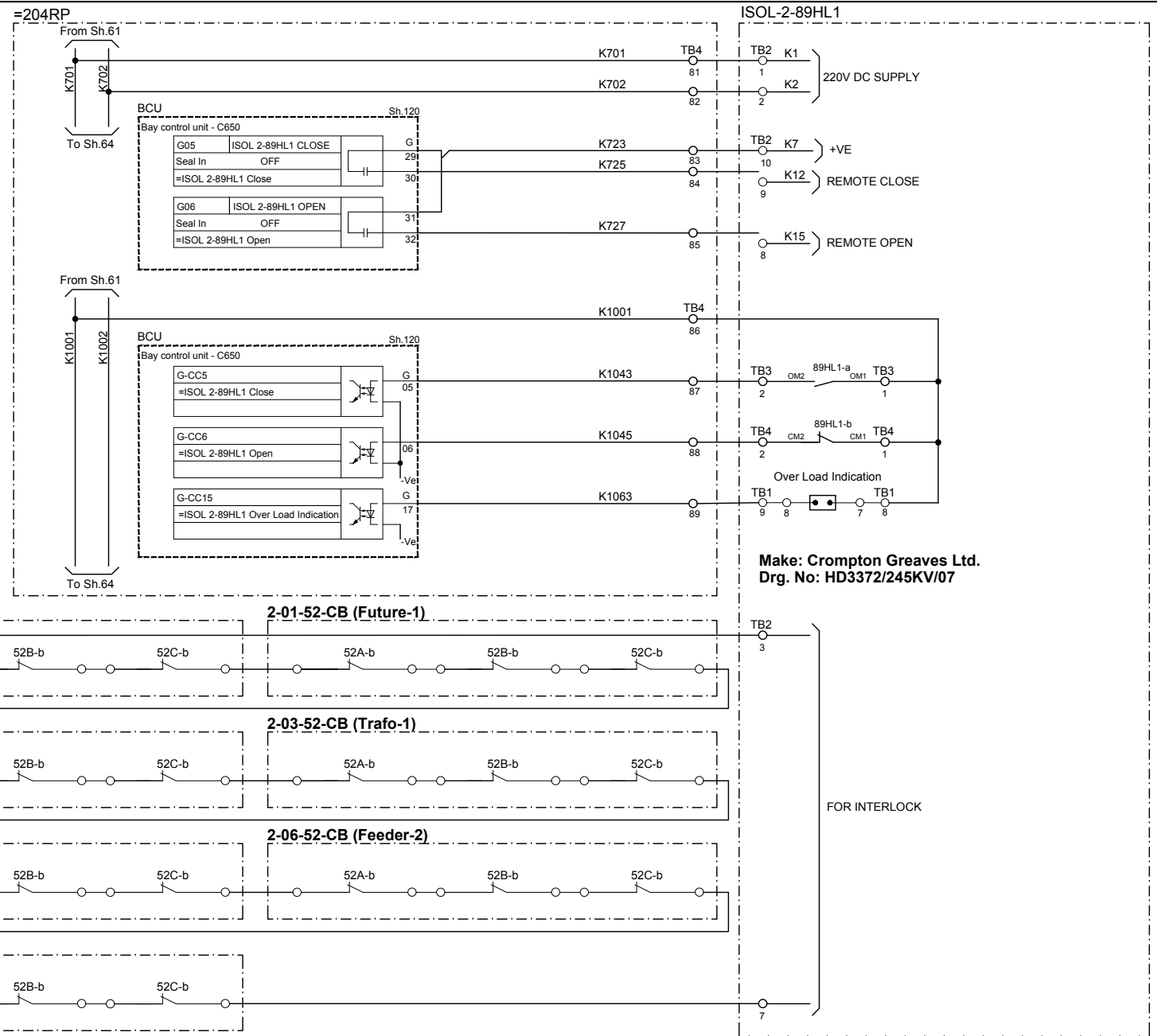
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SCHEME TYPE: 220kV BUSBAR & BC C&R PANEL		PROJECT: GODACHAK 220/132kV SS					
BASE FILE:		P.O.NO.: Sr GM CPC-I-LIMITED-E-TENDER-AUTOMA					
SALES ORDER: 3269048463		Dated 25.07.2018					



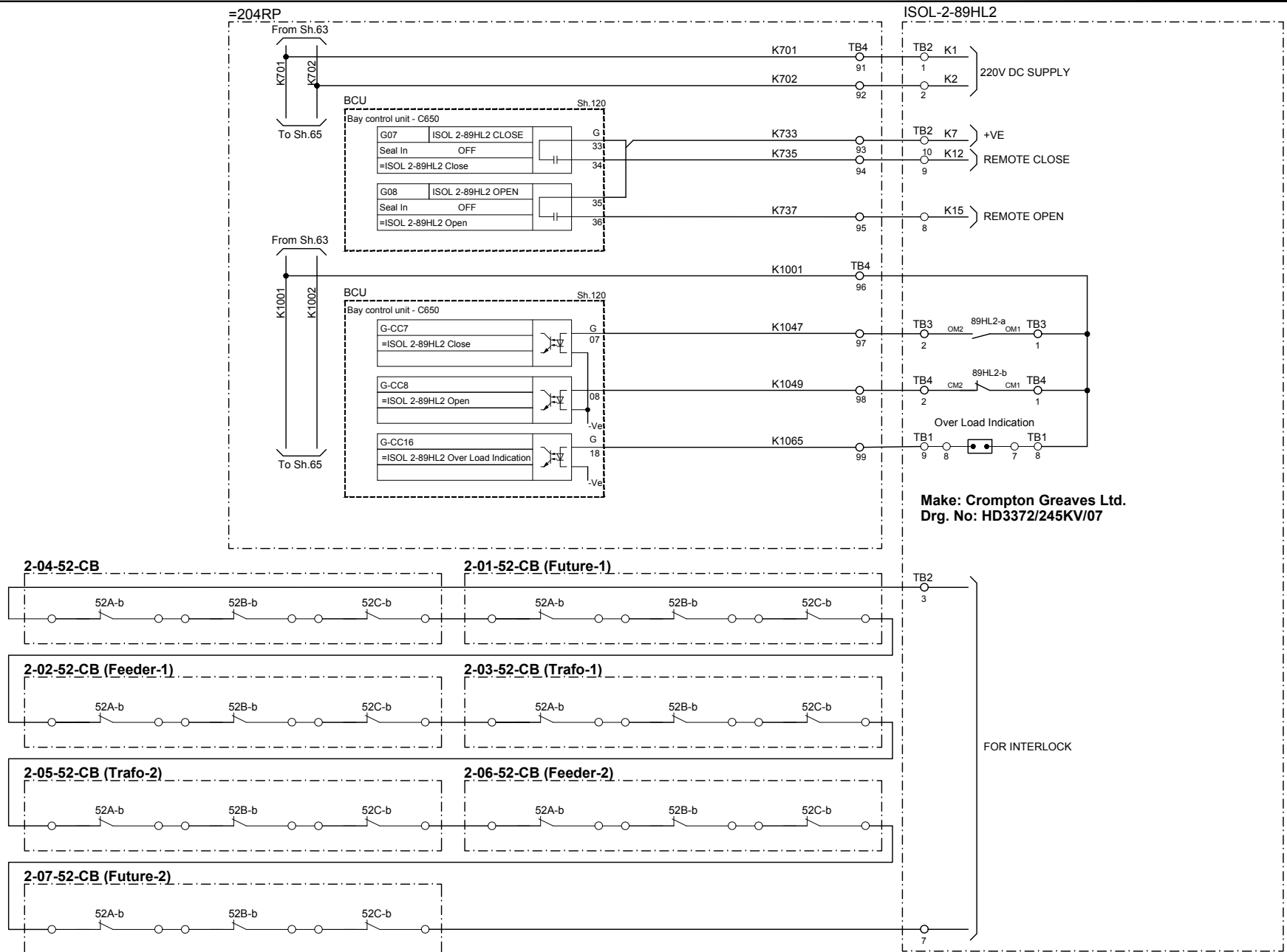
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BASE FILE:		P.O.NO.: Sr GM CPC-I-LIMITED-E-TENDER-AUTOMA		TITLE: ISOLATOR CONTROL & INDICATION CKT		APPROVED BY: MVG	SCALE: --
SALES ORDER: 3269048463		Dated 25.07.2018		ISOL-89A		DRG. NO.: CPD-KY3G-SC23	SHT60 NXT SHT 61



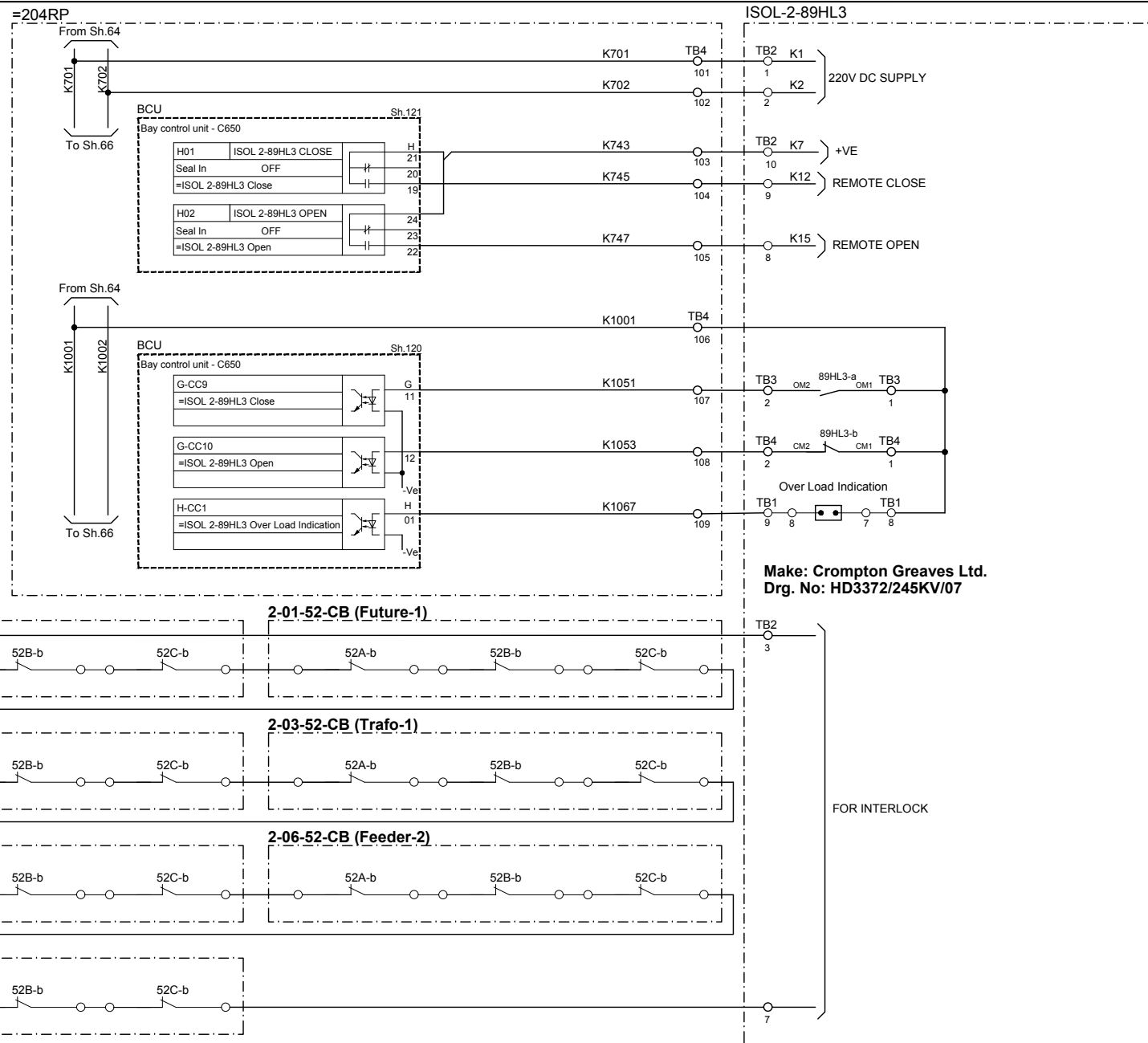
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SALES ORDER: 3269048463		Dated 25.07.2018				DRG. NO.: CPD-KY3G-SC23	SHT61 NXT SHT 63



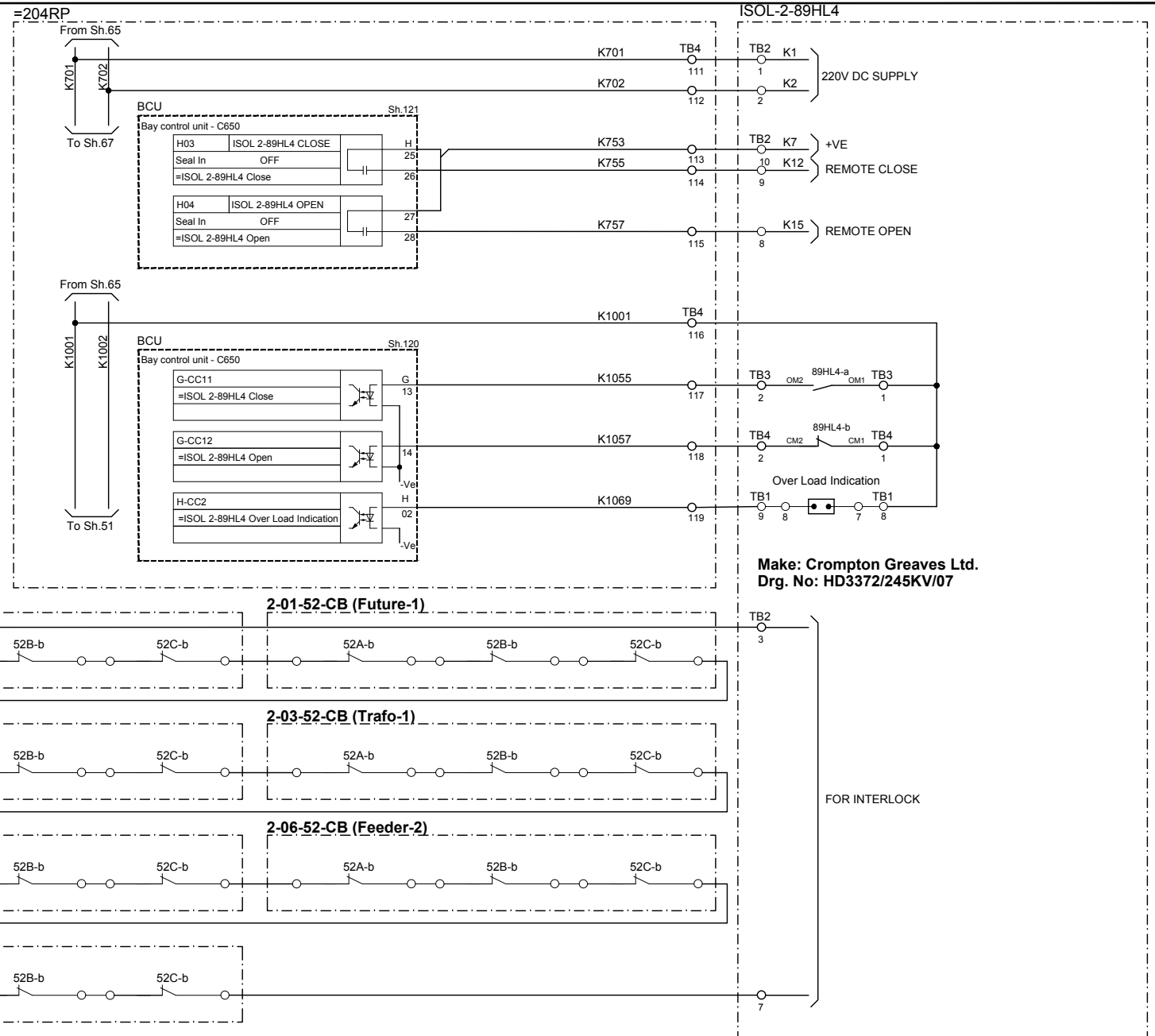
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SALES ORDER: 3269048463		Dated 25.07.2018		ISOL-89HL1		DRG. NO.: CPD-KY3G-SC23	SHT63 NXT SHT 64



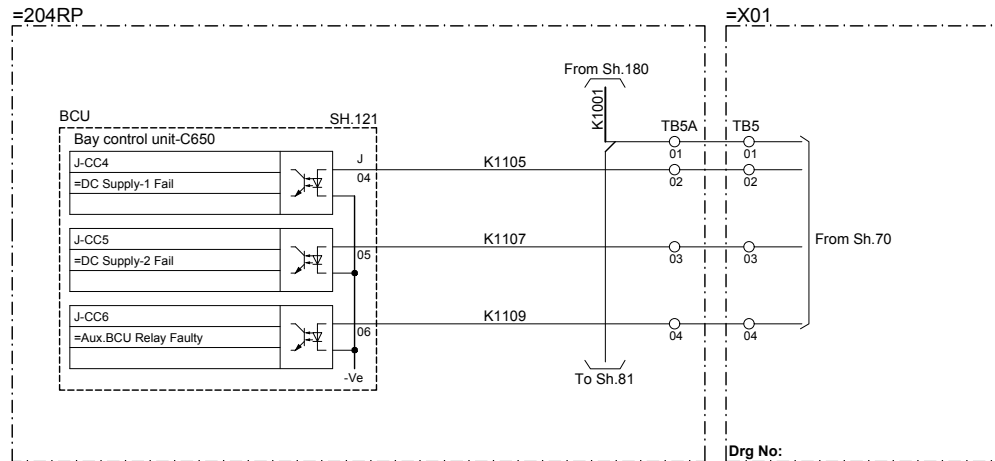
FOR GE REF:	ENGG.REF.NO.: KY3G	CUSTOMER: ODISHA POWER TRANSMISSION CORPORATION	GE T&D India Ltd. (Formerly Alstom T&D India Ltd.) Grid Automation-Pallavaram India	SCHEMATIC DRAWING	FILE:	PREPARED BY: DRR	REVISION: A
SCHEME TYPE: 220kV BUSBAR & BC C&R PANEL		PROJECT: GODACHAK 220/132kV SS		PANEL TYPES: 204RP		CHECKED BY: DCS	DATE: 24.08.18
BASE FILE:		P.O.NO.: Sr GPM C-1 LIMITED-E-TENDER-AUTOMA		TITLE: ISOLATOR CONTROL & INDICATION CKT. ISOL-89HL2		APPROVED BY: MVG	SCALE: --
SALES ORDER: 3269048463		Dated 25.07.2018				DRG. NO.: CPD-KY3G-SC23	SHT 64 NXT SHT 65



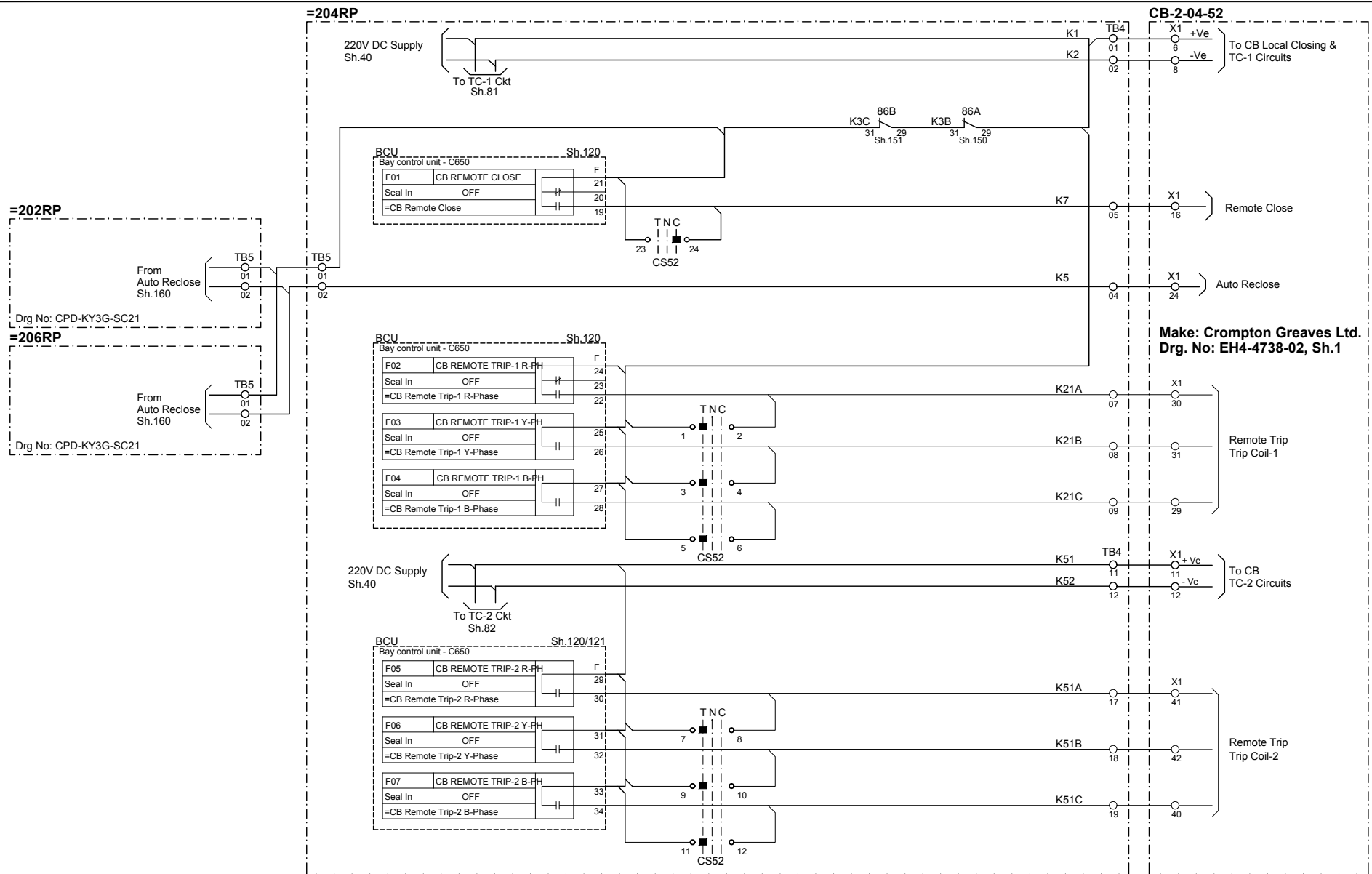
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SCHEME TYPE: 220kV BUSBAR & BC C&R PANEL		PROJECT: GODACHAK 220/132kV SS		PANEL TYPES: 204RP		CHECKED BY: DCS	DATE: 24.08.18
BASE FILE:		P.O.NO.: Sr GM CPC-I-LIMITED-E-TENDER-AUTOMA		TITLE: ISOLATOR CONTROL & INDICATION CKT. ISOL-89HL3		APPROVED BY: MVG	SCALE: --
SALES ORDER: 3269048463		Dated 25.07.2018				DRG. NO.: CPD-KY3G-SC23	SHT65 NXT SHT 66



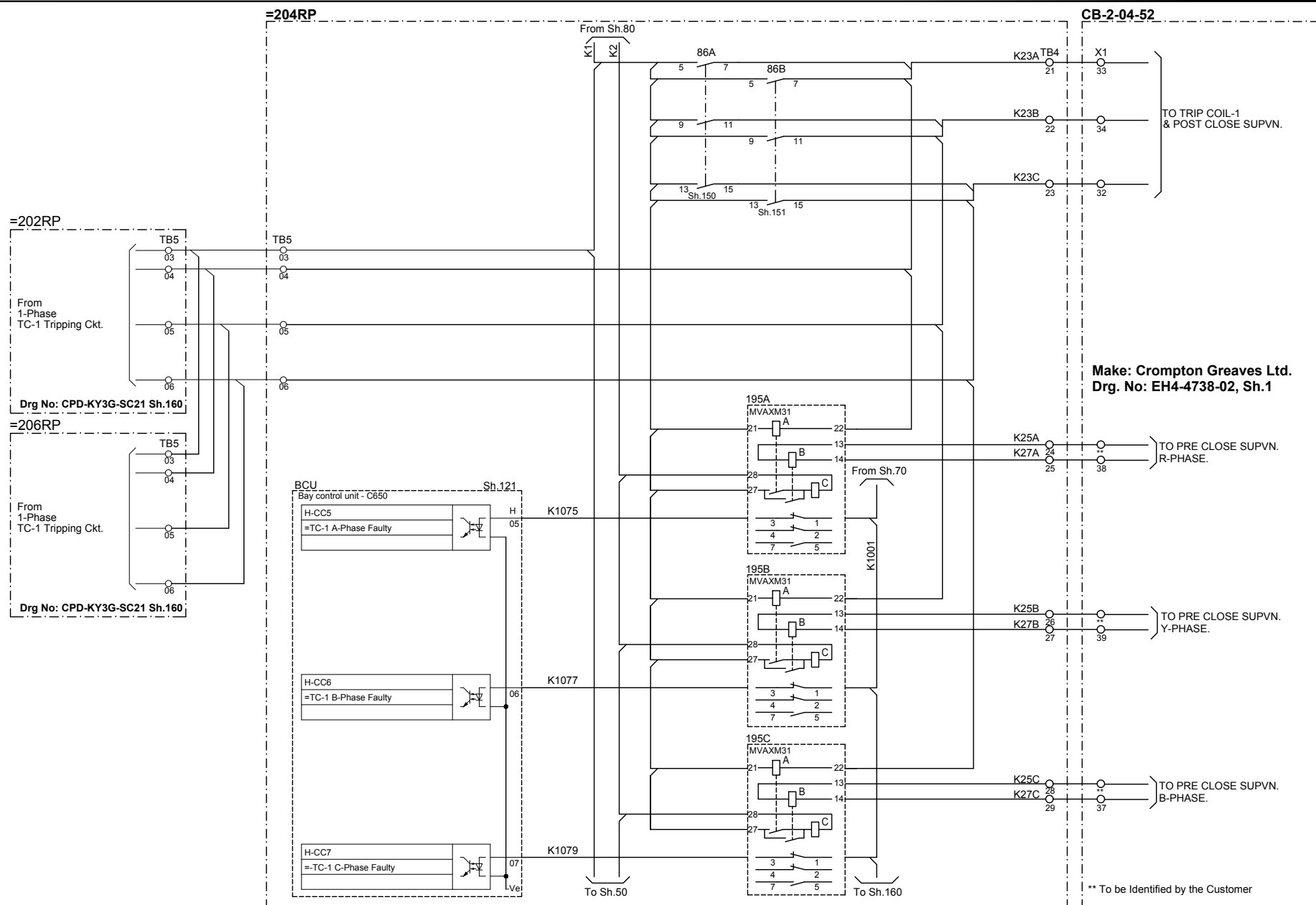
FOR GE REF:	ENGG.REF.NO.: KY3G	CUSTOMER: ODISHA POWER TRANSMISSION CORPORATION	GE T&D India Ltd. (Formerly Alstom T&D India Ltd.) Grid Automation-Pallavaram India	SCHEMATIC DRAWING	FILE:	PREPARED BY: DRR	REVISION: A
SCHEME TYPE: 220kV BUSBAR & BC C&R PANEL		PROJECT: GODACHAK 220/132kV SS		PANEL TYPES: 204RP		CHECKED BY: DCS	DATE: 24.08.18
BASE FILE:		P.O.NO.: Sr GPM CPC-I-LIMITED-E-TENDER-AUTOMA		TITLE: ISOLATOR CONTROL & INDICATION CKT. ISOL-89HL4		APPROVED BY: MVG	SCALE: --
SALES ORDER: 3269048463		Dated 25.07.2018				DRG. NO.: CPD-KY3G-SC23	SHT 66 NXT SHT 70



FOR GE REF:	ENGG.REF.NO.: KY3G	CUSTOMER: ODISHA POWER TRANSMISSION CORPORATION	 GE T&D India Ltd. (Formerly Alstom T&D India Ltd.) Grid Automation-Pallavaram India	SCHEMATIC DRAWING	FILE:	PREPARED BY: DRR	REVISION: A
SCHEME TYPE: 220kV BUSBAR & BC C&R PANEL		PROJECT: GODACHAK 220/132kV SS		PANEL TYPES: 204RP		CHECKED BY: DCS	DATE: 24.08.18
BASE FILE:		P.O.NO.: Sr GM CPC-I-LIMITED-E-TENDER-AUTOMA		TITLE: SAS PANEL DC FAIL CKT.		APPROVED BY: MVG	SCALE: --
SALES ORDER: 3269048463		Dated 25.07.2018				DRG. NO.: CPD-KY3G-SC23	SHT70 NXT SHT 80



FOR GE REF:	ENGG.REF.NO.: KY3G	CUSTOMER: ODISHA POWER TRANSMISSION CORPORATION	GE T&D India Ltd. (Formerly Alstom T&D India Ltd.) Grid Automation-Pallavaram India	SCHEMATIC DRAWING	FILE:	PREPARED BY: DRR	REVISION: A
SCHEME TYPE: 220kV BUSBAR & BC C&R PANEL		PROJECT: GODACHAK L-220/132kV SS		PANEL TYPES: 204RP		CHECKED BY: DCS	DATE: 24.08.18
BASE FILE:		P.O.NO.: Sr GPM C-I-LIMITED-E-TENDER-AUTOMA		TITLE: CIRCUIT BREAKER		APPROVED BY: MVG	SCALE: --
SALES ORDER: 3269048463		Dated 25.07.2018		MANUAL CLOSING & TRIPPING CIRCUIT		DRG. NO.: CPD-KY3G-SC23	SHT 80 NXT SHT 81



FOR GE REF:	ENGG.REF.NO.: KY3G
SCHEME TYPE:	220kV BUSBAR & BC C&R PANEL
BASE FILE:	
SALES ORDER:	3269048463

CUSTOMER: ODISHA POWER TRANSMISSION CORPORATION
 PROJECT: GODACHAK 220/132kV SS
 P.O.NO.: Sr GM CPC-I-LIMITED-E-TENDER-AUTOMA
 Dated 25.07.2018

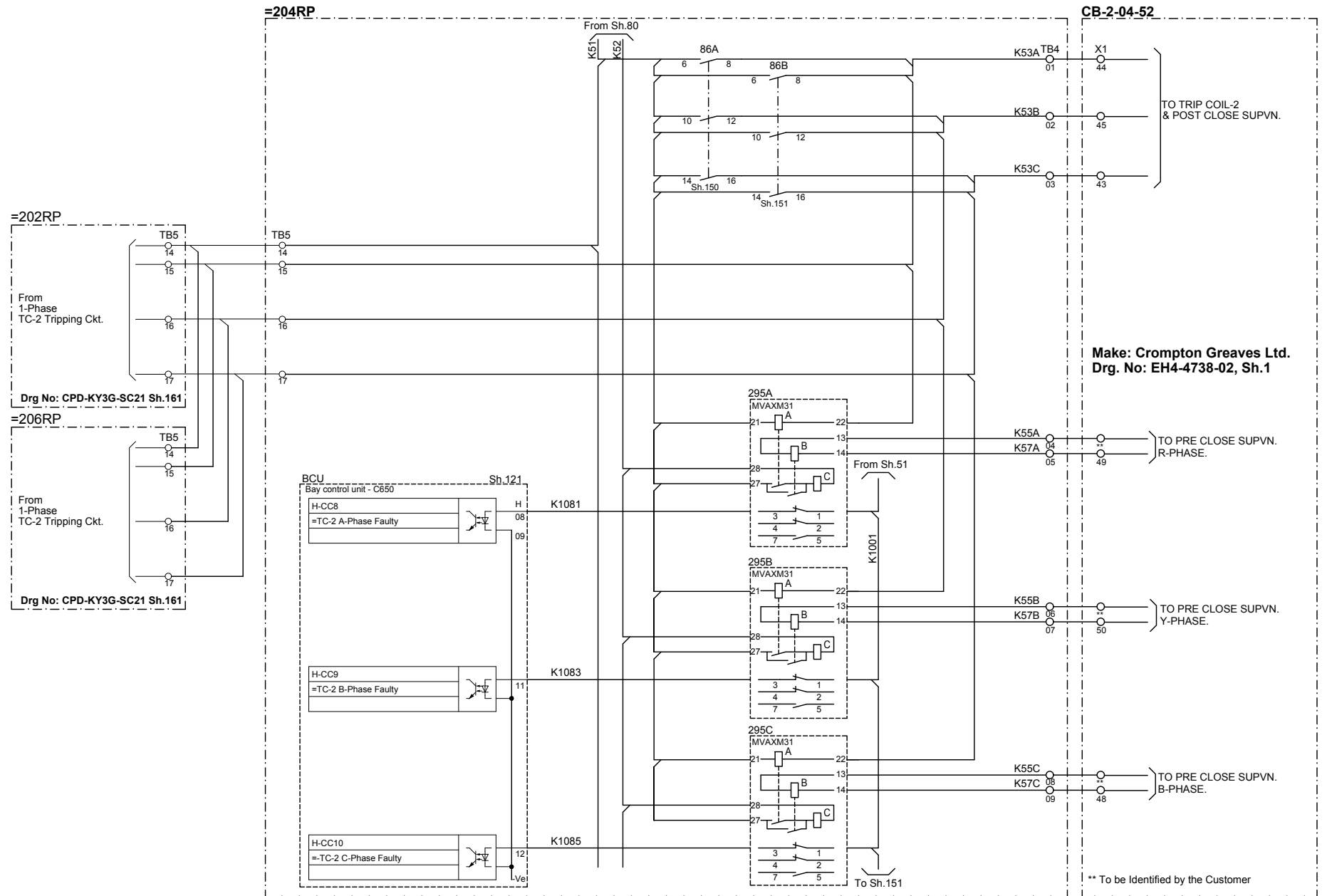


GE T&D India Ltd.
 (Formerly Alstom T&D India Ltd.)
 Grid Automation-Pallavaram India

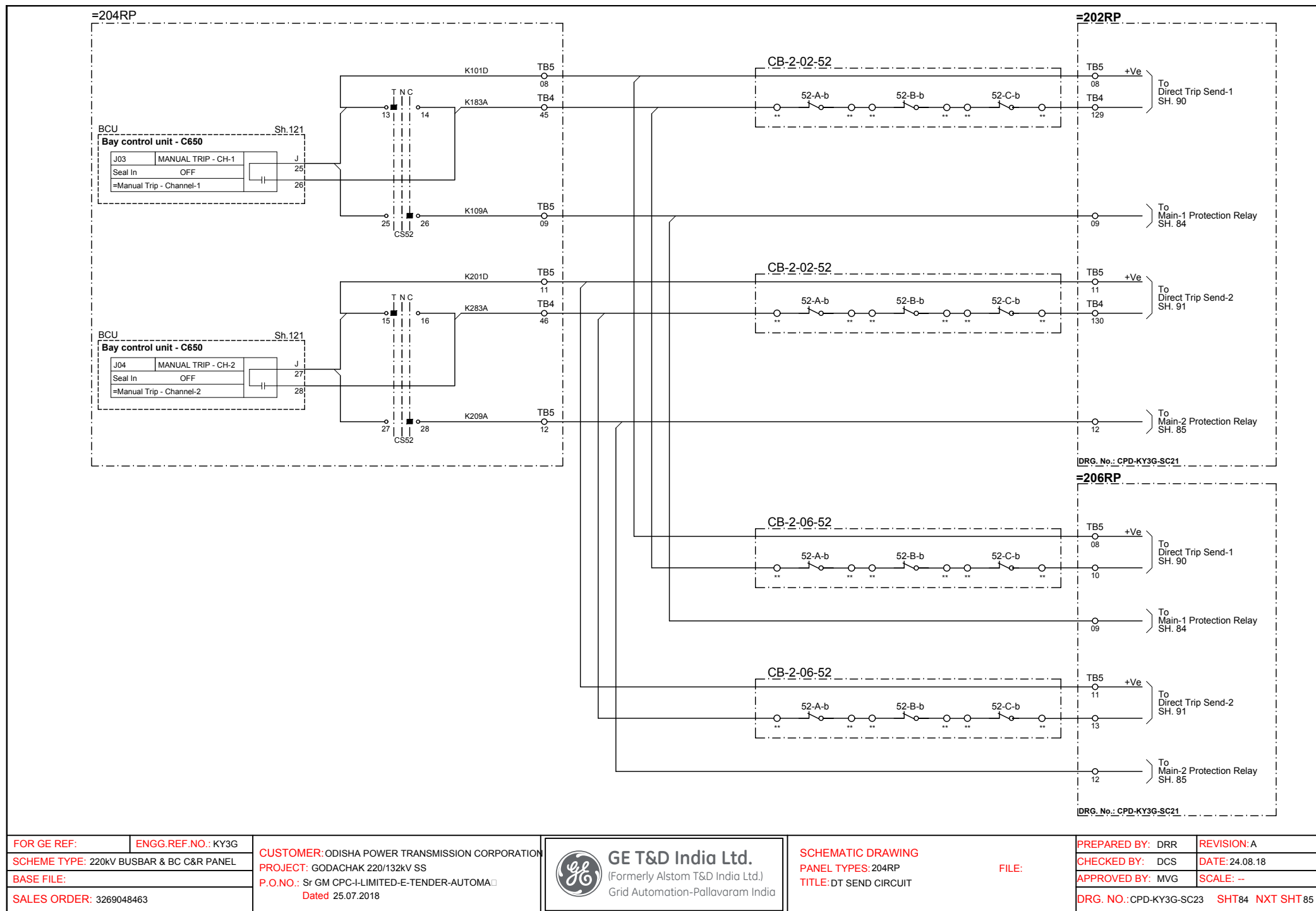
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 PANEL TYPES: 204RP
 TITLE: CIRCUIT BREAKER
 TC-1 TRIPPING CIRCUIT

FILE:

PREPARED BY: DRR	REVISION: A
CHECKED BY: DCS	DATE: 24.08.18
APPROVED BY: MVG	SCALE: --
DRG. NO.: CPD-KY3G-SC23	SHT 81 NXT SHT 82



FOR GE REF:	ENGG.REF.NO.: KY3G	CUSTOMER: ODISHA POWER TRANSMISSION CORPORATION	GE T&D India Ltd. (Formerly Alstom T&D India Ltd.) Grid Automation-Pallavaram India	SCHEMATIC DRAWING	FILE:	PREPARED BY: DRR	REVISION: A
SCHEME TYPE: 220kV BUSBAR & BC C&R PANEL		PROJECT: GODACHAK 220/132kV SS		PANEL TYPES: 204RP		CHECKED BY: DCS	DATE: 24.08.18
BASE FILE:		P.O.NO.: Sr GM CPC-I-LIMITED-E-TENDER-AUTOMA		TITLE: CIRCUIT BREAKER		APPROVED BY: MVG	SCALE: --
SALES ORDER: 3269048463		Dated 25.07.2018		TC-2 TRIPPING CIRCUIT		DRG. NO.: CPD-KY3G-SC23	SHT82 NXT SHT 83



FOR GE REF:

SCHEME TYPE: 220kV BUSBAR & BC C&R PANEL

BASE FILE:

SALES ORDER: 3269048463

ENGG.REF.NO.: KY3G

CUSTOMER: ODISHA POWER TRANSMISSION CORPORATION

PROJECT: GODACHAK 220/132kV SS

P.O.NO.: Sr GM CPC-I-LIMITED-E-TENDER-AUTOMA

Dated 25.07.2018

GE T&D India Ltd.
(Formerly Alstom T&D India Ltd.)
Grid Automation-Pallavaram India

SCHEMATIC DRAWING

PANEL TYPES: 204RP

TITLE: DT SEND CIRCUIT

FILE:

PREPARED BY: DRR

CHECKED BY: DCS

APPROVED BY: MVG

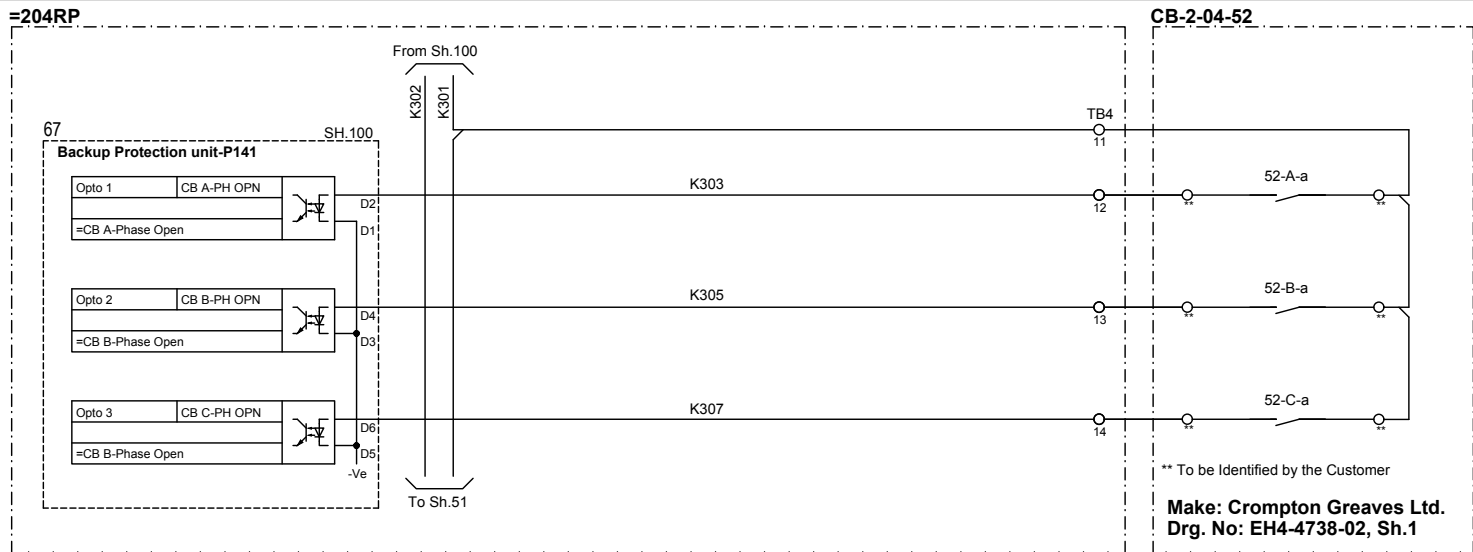
DRG. NO.: CPD-KY3G-SC23

REVISION: A

DATE: 24.08.18

SCALE: --

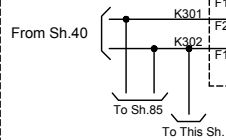
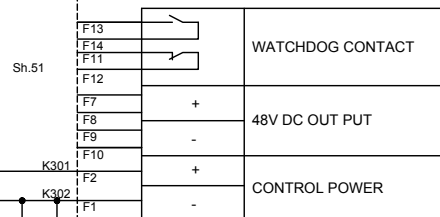
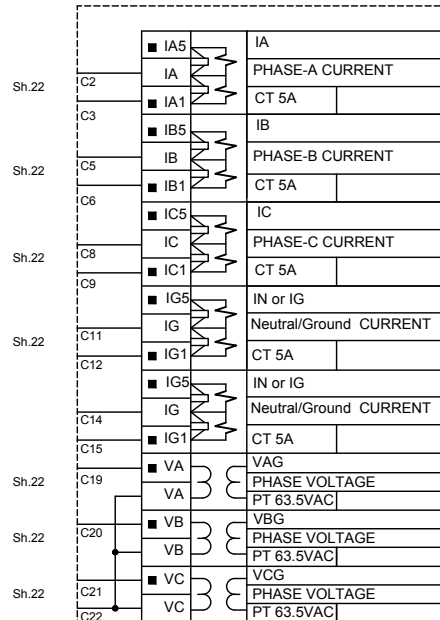
SHT84 NXT SHT 85



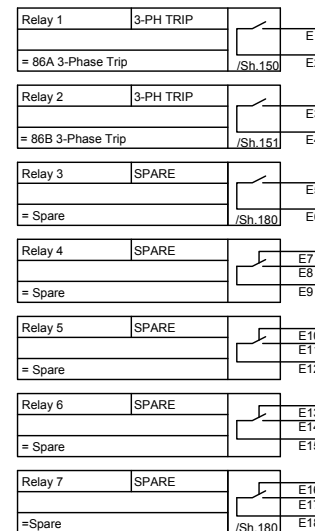
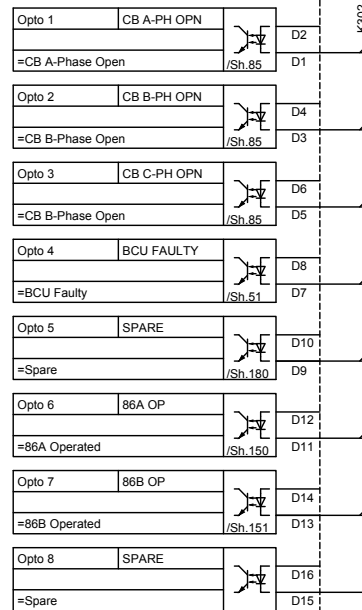
FOR GE REF:	ENGG.REF.NO.: KY3G	CUSTOMER: ODISHA POWER TRANSMISSION CORPORATION	 GE T&D India Ltd. (Formerly Alstom T&D India Ltd.) Grid Automation-Pallavaram India	SCHEMATIC DRAWING PANEL TYPES: 204RP TITLE: CIRCUIT BREAKER CIRCUIT	FILE:	PREPARED BY: DRR	REVISION: A
SCHEME TYPE: 220kV BUSBAR & BC C&R PANEL		PROJECT: GODACHAK 220/132kV SS				CHECKED BY: DCS	DATE: 24.08.18
BASE FILE:		P.O.NO.: Sr GM CPC-I-LIMITED-E-TENDER-AUTOMA				APPROVED BY: MVG	SCALE: --
SALES ORDER: 3269048463		Dated 25.07.2018				DRG. NO.: CPD-KY3G-SC23	SHT85 NXT SHT 100

=204RP

67
Backup Protection unit-P141



From This Sh.



FOR GE REF: ENGG.REF.NO.: KY3G

SCHEME TYPE: 220kV BUSBAR & BC C&R PANEL

BASE FILE:

SALES ORDER: 3269048463

CUSTOMER: ODISHA POWER TRANSMISSION CORPORATION

PROJECT: GODACHAK 220/132kV SS

P.O.NO.: Sr GPM CPC-I-LIMITED-E-TENDER-AUTOMA

Dated 25.07.2018



SCHEMATIC DRAWING

PANEL TYPES: 204RP

TITLE: BACKUP PROTECTION UNIT

FILE:

PREPARED BY: DRR REVISION: A

CHECKED BY: DCS DATE: 24.08.18

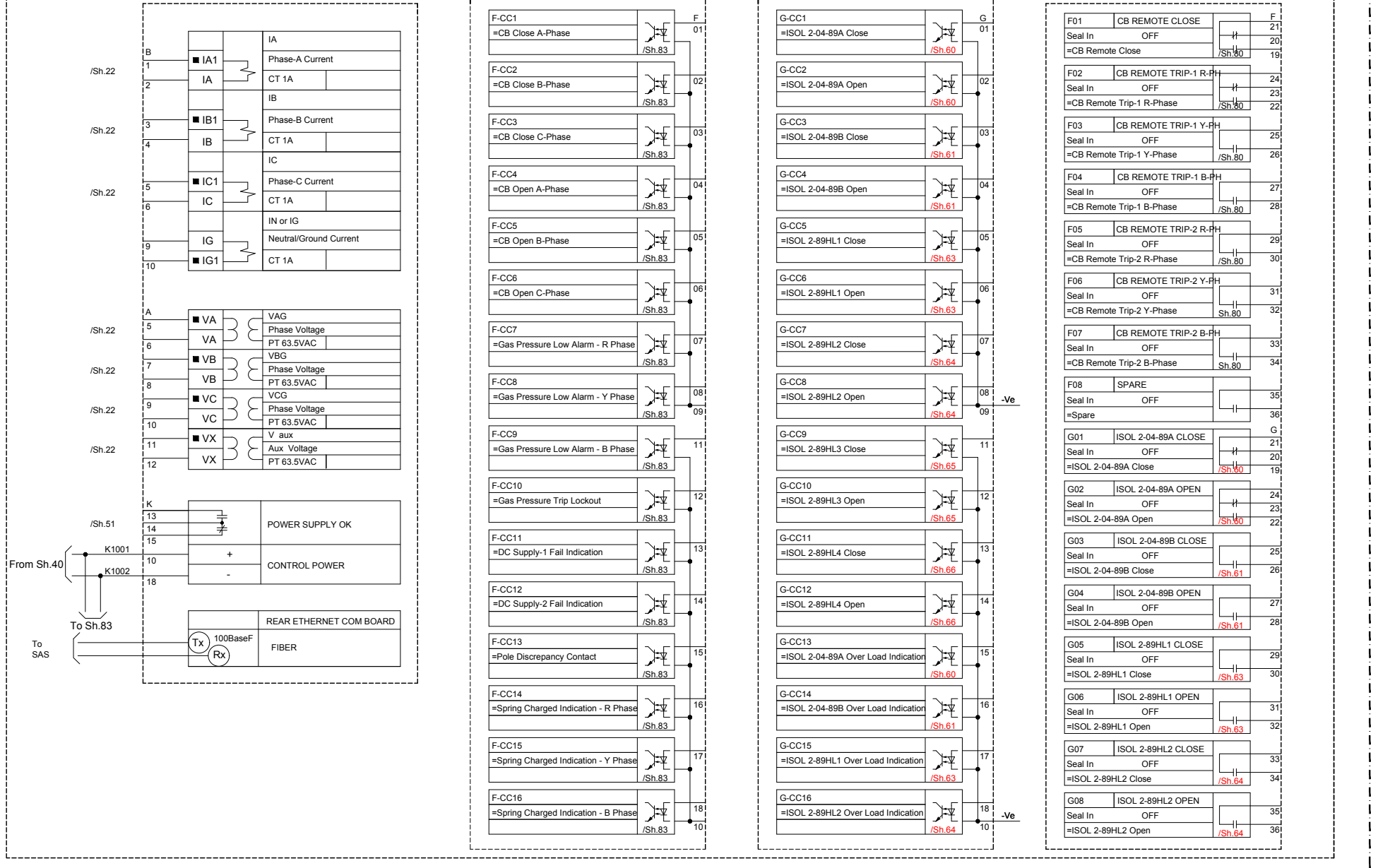
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DRG. NO.: CPD-KY3G-SC23 SHT100 NXT SHT 120

=204RP

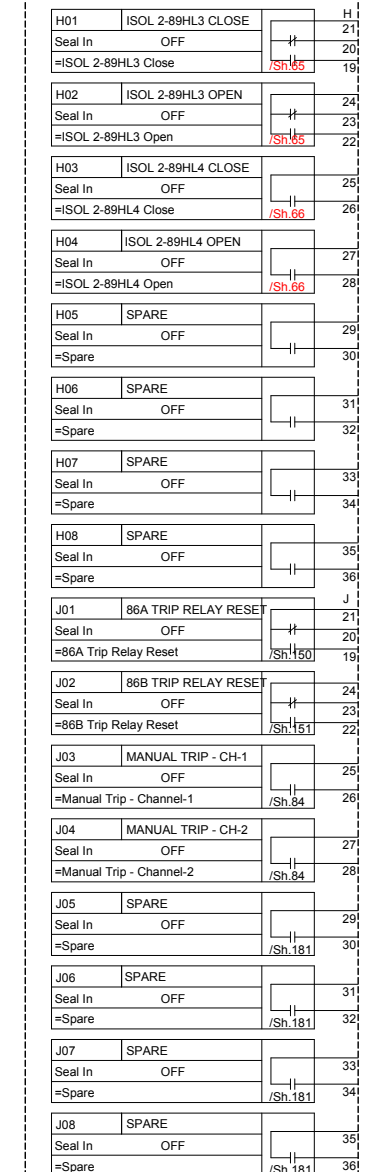
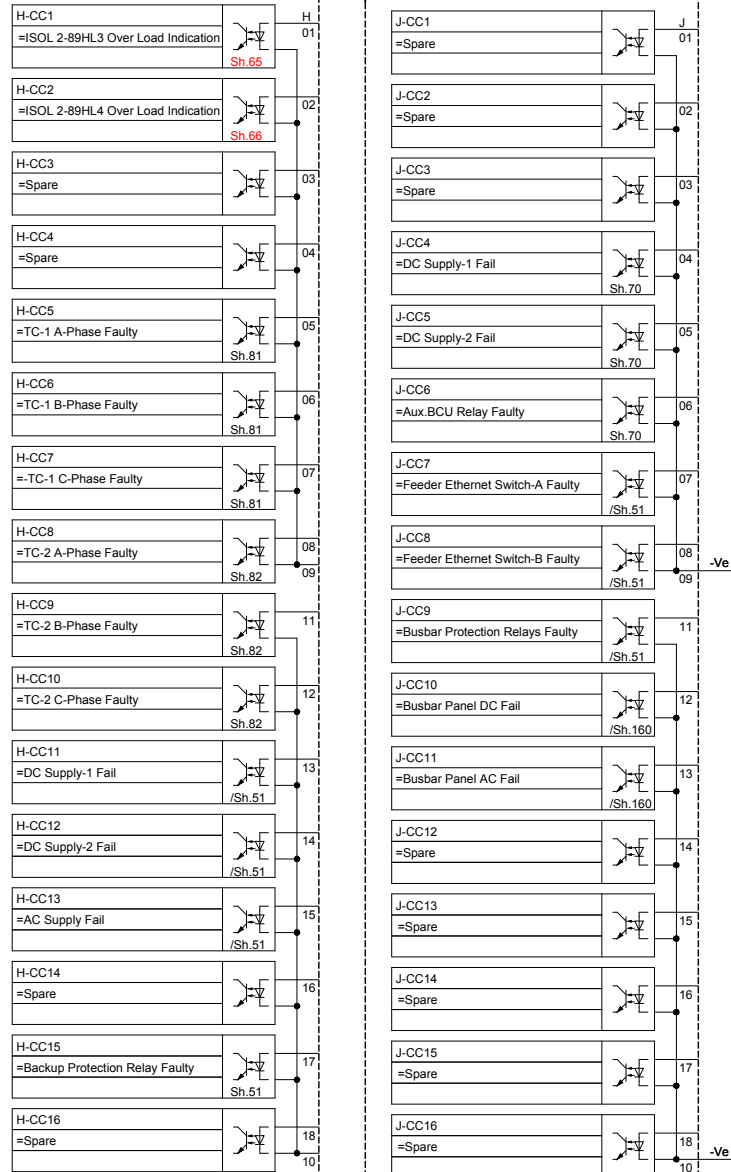
BCU

Bay control unit -C650



=204RP

BCU
Bay control unit - C650



FOR GE REF: ENG.G.REF.NO.: KY3G
SCHEME TYPE: 220kV BUSBAR & BC C&R PANEL
BASE FILE:
SALES ORDER: 3269048463

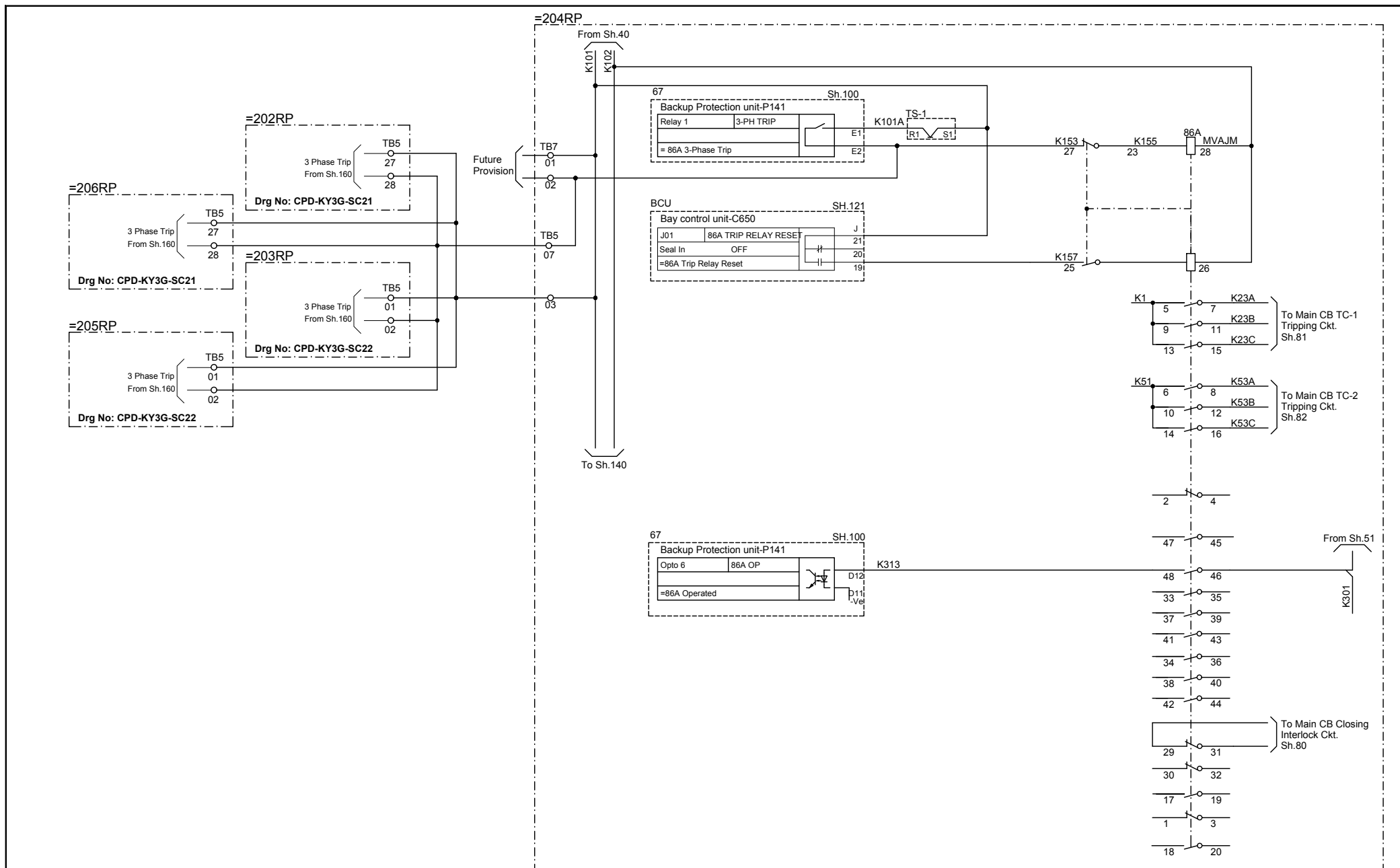
CUSTOMER: ODISHA POWER TRANSMISSION CORPORATION
PROJECT: GODACHAK 220/132kV SS
P.O.NO.: Sr GPM CPC-I-LIMITED-E-TENDER-AUTOMA
Dated 25.07.2018



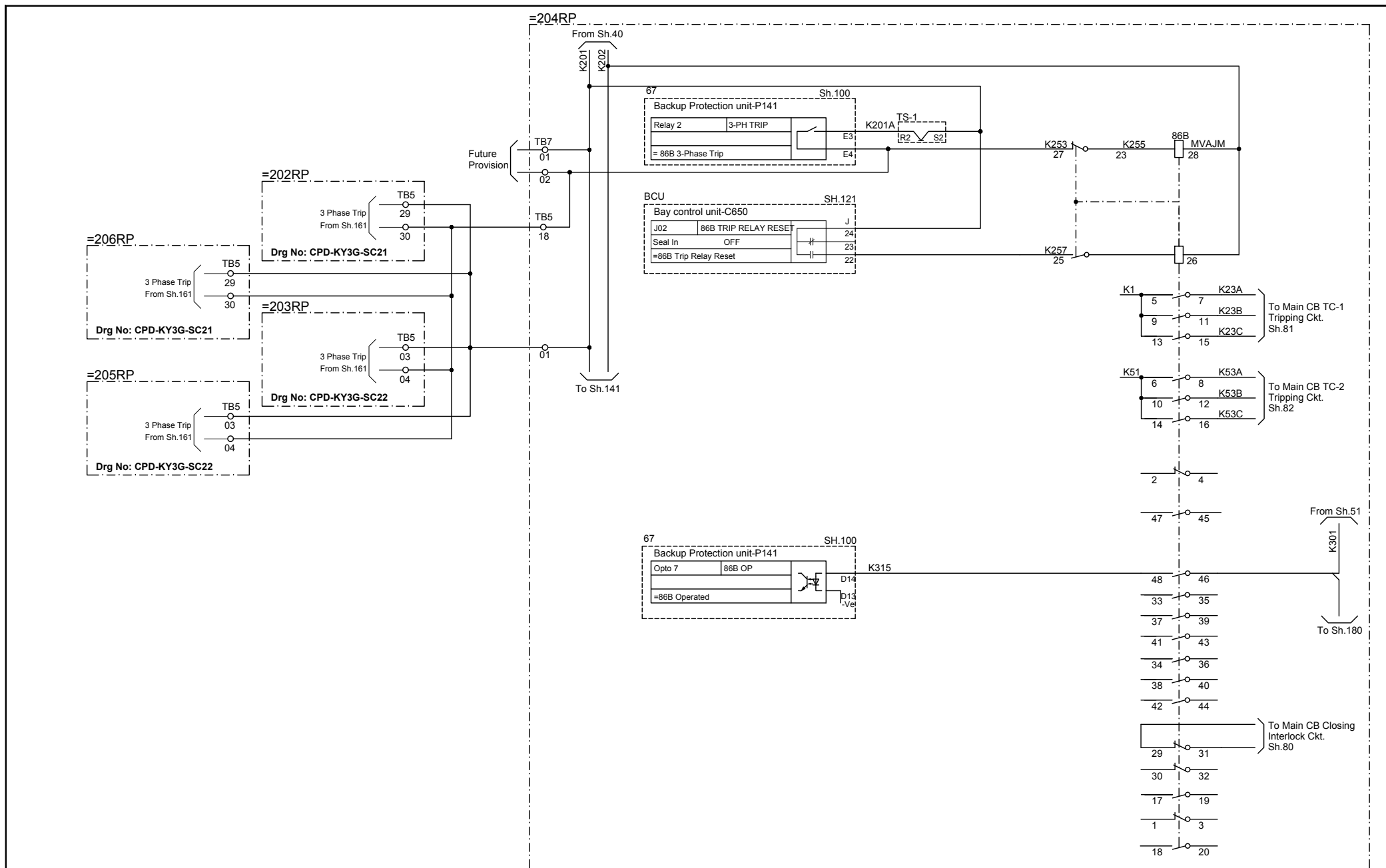
SCHEMATIC DRAWING
PANEL TYPES: 204RP
TITLE: BAY CONTROL UNIT

FILE:

PREPARED BY: DRR REVISION: A
CHECKED BY: DCS DATE: 24.08.18
APPROVED BY: MVG SCALE: --
DRG. NO.: CPD-KY3G-SC23 SHT121 NXT SHT 150



FOR GE REF:	ENGG.REF.NO.: KY3G	CUSTOMER: ODISHA POWER TRANSMISSION CORPORATION	GE T&D India Ltd. (Formerly Alstom T&D India Ltd.) Grid Automation-Pallavaram India	SCHEMATIC DRAWING	FILE:	PREPARED BY: DRR	REVISION: A
SCHEME TYPE: 220kV BUSBAR & BC C&R PANEL		PROJECT: GODACHAK 220/132kV SS		PANEL TYPES: 204RP		CHECKED BY: DCS	DATE: 24.08.18
BASE FILE:		P.O.NO.: Sr GM CPC-I-LIMITED-E-TENDER-AUTOMA		TITLE: GROUP-A TRIP RELAY CIRCUIT		APPROVED BY: MVG	SCALE: --
SALES ORDER: 3269048463		Dated 25.07.2018				DRG. NO.: CPD-KY3G-SC23	SHT150 NXT SHT 151



FOR GE REF: ENGG.REF.NO.: KY3G

SCHEME TYPE: 220kV BUSBAR & BC C&R PANEL

BASE FILE:

SALES ORDER: 3269048463

CUSTOMER: ODISHA POWER TRANSMISSION CORPORATION
 PROJECT: GODACHAK 220/132kV SS
 P.O.NO.: Sr GPM C-I-LIMITED-E-TENDER-AUTOMA
 Dated 25.07.2018



GE T&D India Ltd.
 (Formerly Alstom T&D India Ltd.)
 Grid Automation-Pallavaram India

SCHEMATIC DRAWING

PANEL TYPES: 204RP

TITLE: GROUP-B TRIP RELAY CIRCUIT

FILE:

PREPARED BY: DRR

REVISION: A

CHECKED BY: DCS

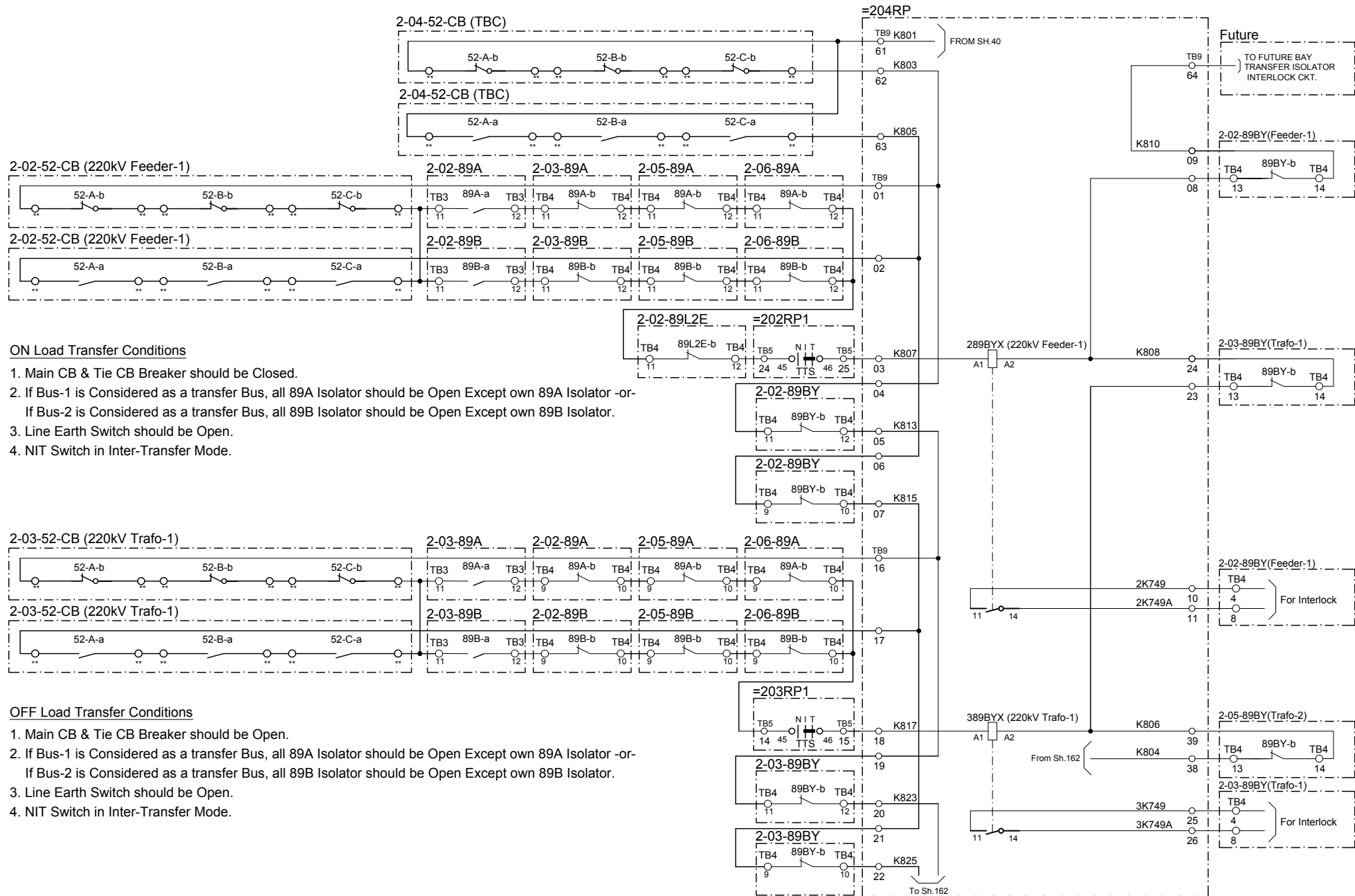
DATE: 24.08.18

APPROVED BY: MVG

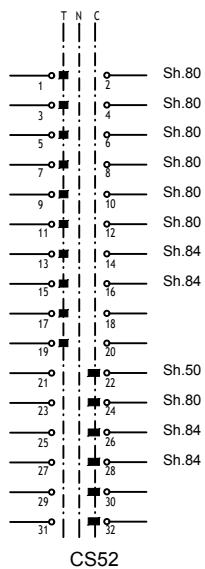
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DRG. NO.: CPD-KY3G-SC23

SHT151 NXT SHT 161

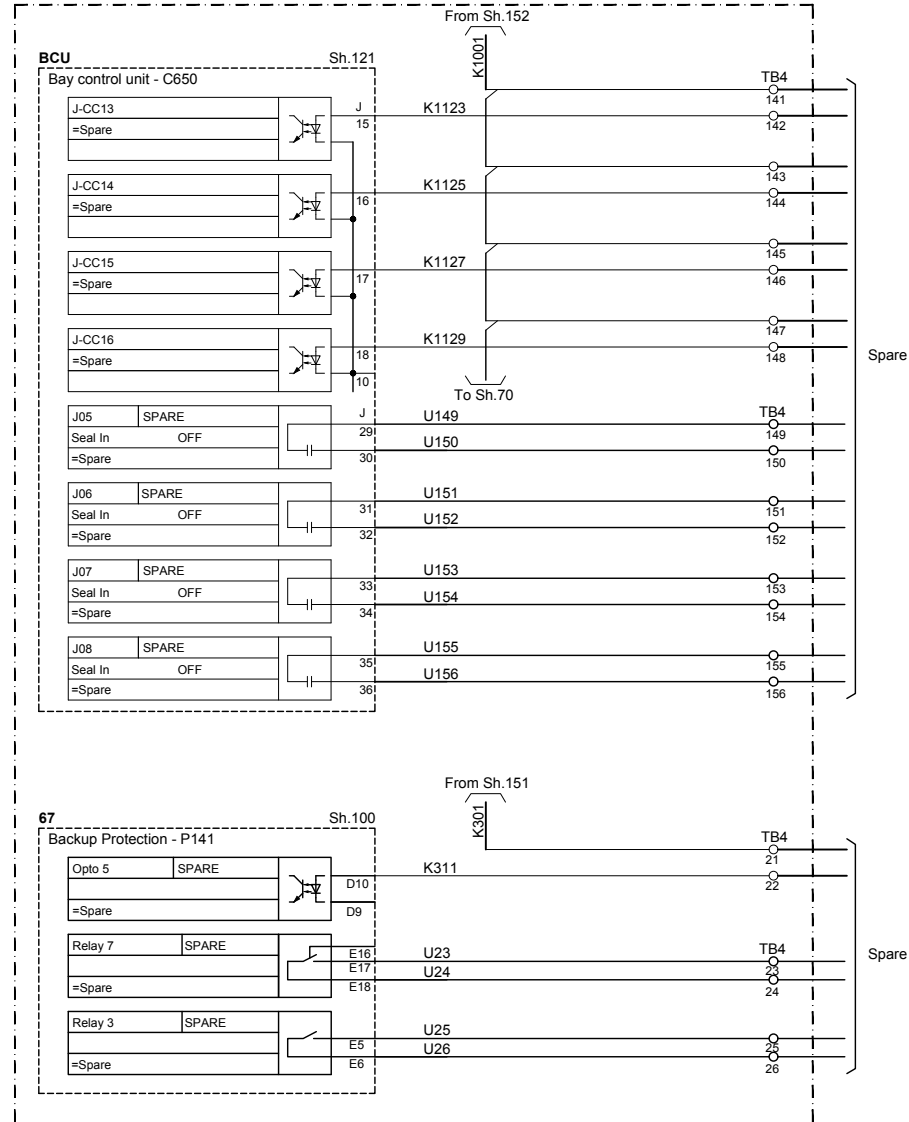


FOR GE REF:	ENGG.REF.NO.: KY3G	CUSTOMER: ODISHA POWER TRANSMISSION CORPORATION	GE T&D India Ltd.	SCHEMATIC DRAWING	PREPARED BY: DRR	REVISION: A
SCHEME TYPE: 220kV BUSBAR & BC C&R PANEL		PROJECT: GODACHAK 220/132kV SS	(Formerly Alstom T&D India Ltd.)	PANEL TYPES: 204RP	CHECKED BY: DCS	DATE: 24.08.18
BASE FILE:		P.O.NO.: Sr GM CPC-I-LIMITED-E-TENDER-AUTOMA	Grid Automation-Pallavaram India	TITLE: TRANSFER ISOLATOR INTERLOCK CIRCUIT	APPROVED BY: MVG	SCALE: --
SALES ORDER: 3269048463		Dated 25.07.2018			DRG. NO.: CPD-KY3G-SC23	SHT161 NXT SHT 162



FOR GE REF:	ENGG.REF.NO.: KY3G	CUSTOMER: ODISHA POWER TRANSMISSION CORPORATION PROJECT: GODACHAK 220/132kV SS P.O.NO.: Sr GM CPC-I-LIMITED-E-TENDER-AUTOMA Dated 25.07.2018	 GE T&D India Ltd. (Formerly Alstom T&D India Ltd.) Grid Automation-Pallavaram India	SCHEMATIC DRAWING PANEL TYPES: 204RP TITLE: SWITCH CONFIGURATION	FILE:	PREPARED BY: DRR	REVISION: A
SCHEME TYPE: 220kV BUSBAR & BC C&R PANEL						CHECKED BY: DCS	DATE: 24.08.18
BASE FILE:						APPROVED BY: MVG	SCALE: --
SALES ORDER: 3269048463						DRG. NO.: CPD-KY3G-SC23	SHT175 NXT SHT 180

=204RP



FOR GE REF: ENGG.REF.NO.: KY3G

SCHEME TYPE: 220kV BUSBAR & BC C&R PANEL

BASE FILE:

SALES ORDER: 3269048463

CUSTOMER: ODISHA POWER TRANSMISSION CORPORATION
PROJECT: GODACHAK 220/132kV SS
P.O.NO.: Sr GM CPC-I-LIMITED-E-TENDER-AUTOMA
Dated 25.07.2018



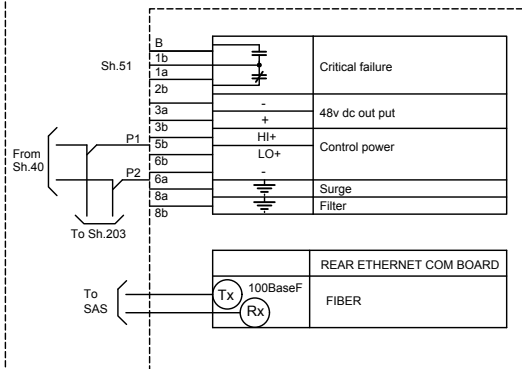
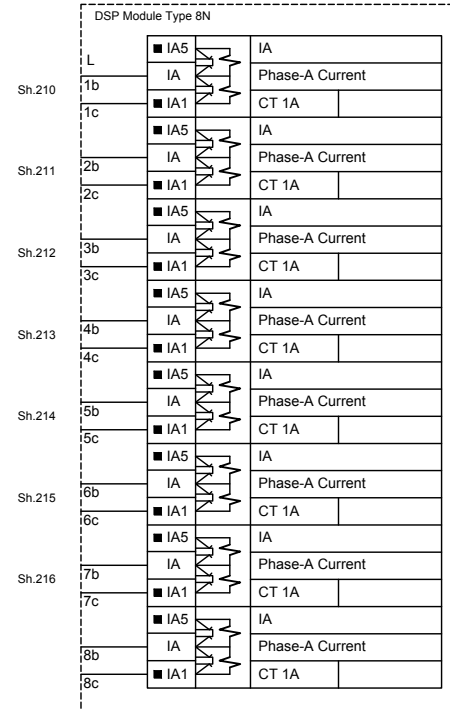
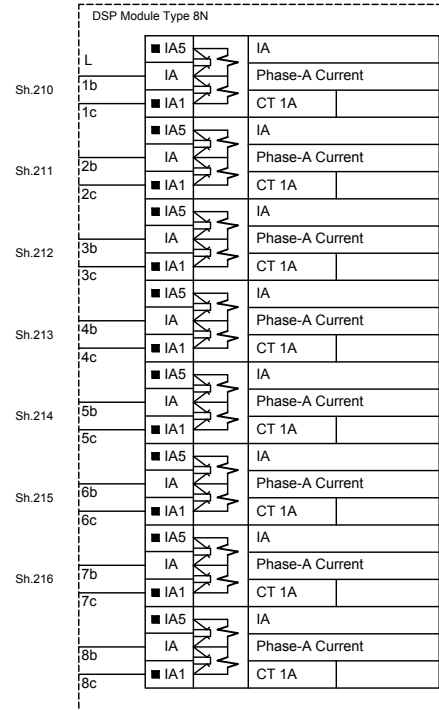
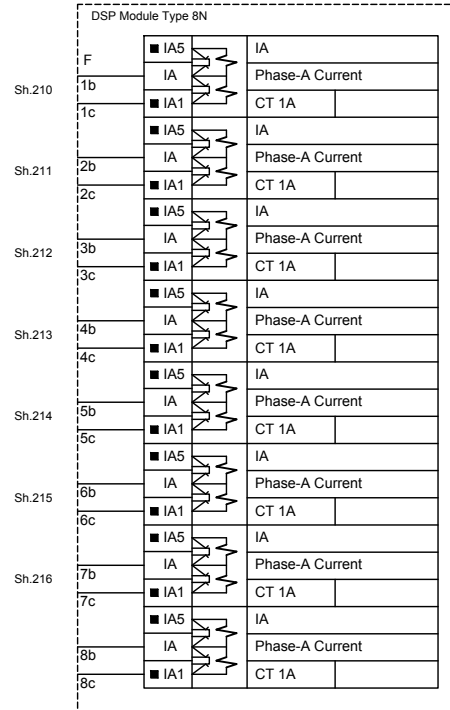
GE T&D India Ltd.
(Formerly Alstom T&D India Ltd.)
Grid Automation-Pallavaram India

SCHEMATIC DRAWING
PANEL TYPES: 204RP
TITLE: SPARE CONTACT DETAILS

FILE:

PREPARED BY: DRR	REVISION: A
CHECKED BY: DCS	DATE: 24.08.18
APPROVED BY: MVG	SCALE: --
DRG. NO.: CPD-KY3G-SC23	SHT180 NXT SHT 201

=204RP
87B1



FOR GE REF: ENGG.REF.NO.: KY3G
SCHEME TYPE: 220kV BUSBAR & BC C&R PANEL
BASE FILE:
SALES ORDER: 3269048463

CUSTOMER: ODISHA POWER TRANSMISSION CORPORATION
PROJECT: GODACHAK 220/132kV SS
P.O.NO.: Sr GM CPC-I-LIMITED-E-TENDER-AUTOMA
Dated 25.07.2018



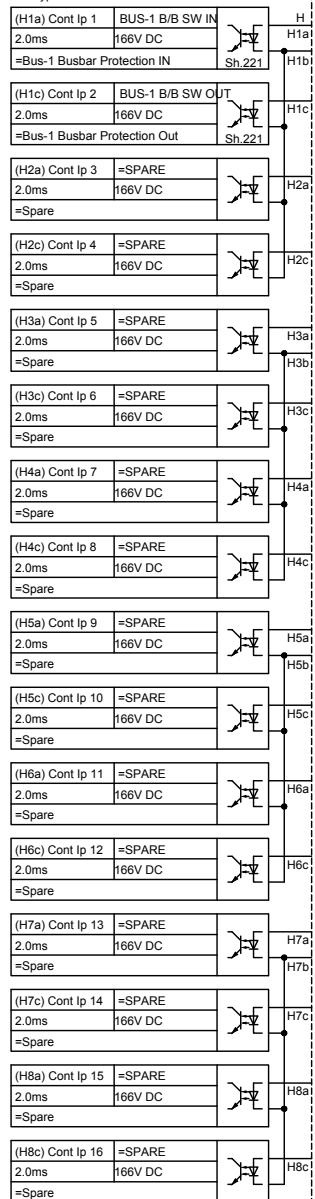
SCHEMATIC DRAWING
PANEL TYPES: 204RP
TITLE: BUS-1 BUSBAR PROTN. - 87B1
FILE:

PREPARED BY: DRR
CHECKED BY: DCS
APPROVED BY: MVG
DRG. NO.: CPD-KY3G-SC23

REVISION: A
DATE: 24.08.18
SCALE: --
SHT201 NXT SHT 202

=204RP
87B1

IO Module Type 6D



FOR GE REF: ENGG.REF.NO.: KY3G
SCHEME TYPE: 220kV BUSBAR & BC C&R PANEL
BASE FILE:
SALES ORDER: 3269048463

CUSTOMER: ODISHA POWER TRANSMISSION CORPORATION
PROJECT: GODACHAK 220/132kV SS
P.O.NO.: Sr GM CPC-I-LIMITED-E-TENDER-AUTOMA
Dated 25.07.2018



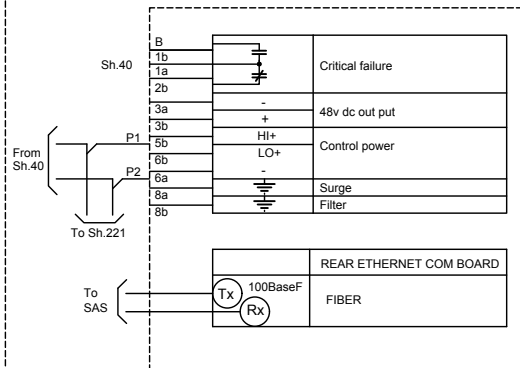
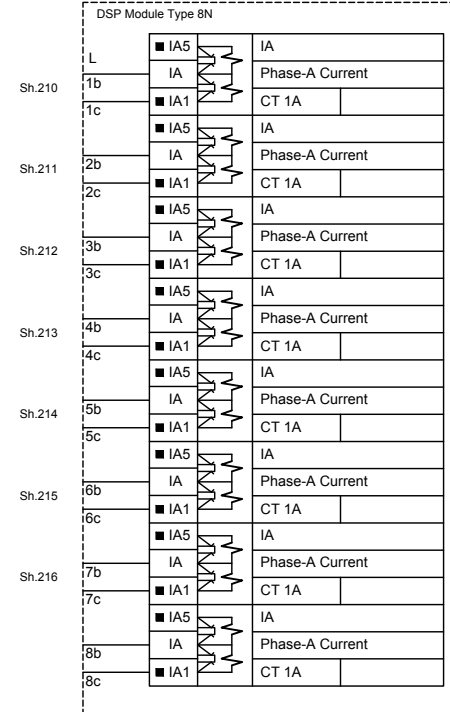
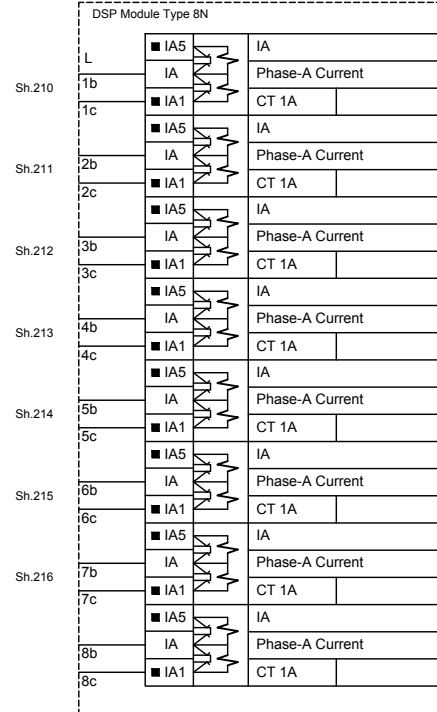
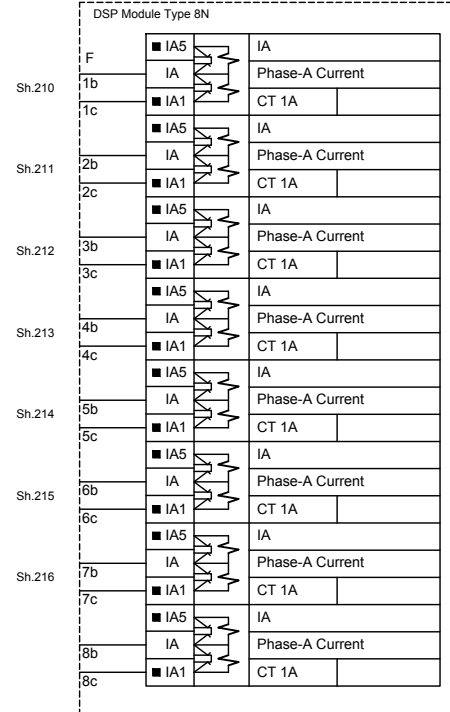
GE T&D India Ltd.
(Formerly Alstom T&D India Ltd.)
Grid Automation-Pallavaram India

SCHEMATIC DRAWING
PANEL TYPES: 204RP
TITLE: BUS-1 BUSBAR PROTN. - 87B1

FILE:

PREPARED BY: DRR	REVISION: A
CHECKED BY: DCS	DATE: 24.08.18
APPROVED BY: MVG	SCALE: --
DRG. NO.: CPD-KY3G-SC23	SHT202 NXT SHT 203

=204RP
87B2



FOR GE REF: ENGG.REF.NO.: KY3G
SCHEME TYPE: 220kV BUSBAR & BC C&R PANEL
BASE FILE:
SALES ORDER: 3269048463

CUSTOMER: ODISHA POWER TRANSMISSION CORPORATION
PROJECT: GODACHAK 220/132kV SS
P.O.NO.: Sr GM CPC-I-LIMITED-E-TENDER-AUTOMA
Dated 25.07.2018



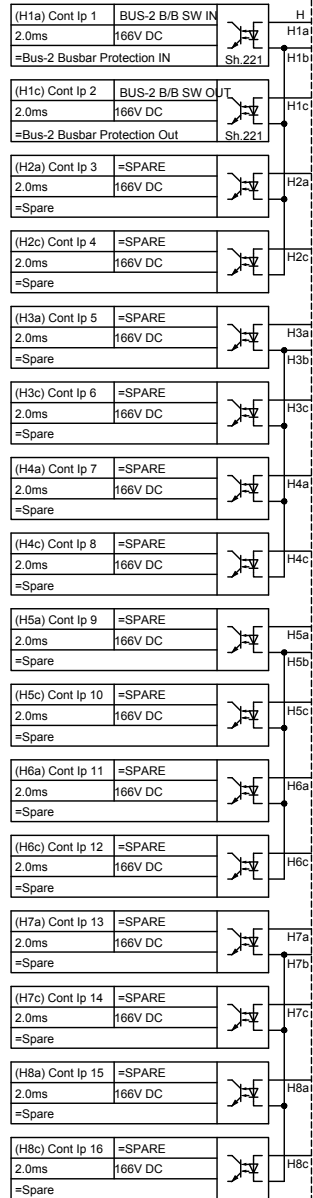
SCHEMATIC DRAWING
PANEL TYPES: 204RP
TITLE: BUS-2 BUSBAR PROTN. - 87B2

FILE:

PREPARED BY: DRR	REVISION: A
CHECKED BY: DCS	DATE: 24.08.18
APPROVED BY: MVG	SCALE: --
DRG. NO.: CPD-KY3G-SC23	SHT203 NXT SHT 204

=204RP
87B2

IO Module Type 6D



FOR GE REF: ENGG.REF.NO.: KY3G
SCHEME TYPE: 220kV BUSBAR & BC C&R PANEL
BASE FILE:
SALES ORDER: 3269048463

CUSTOMER: ODISHA POWER TRANSMISSION CORPORATION
PROJECT: GODACHAK 220/132kV SS
P.O.NO.: Sr GM CPC-I-LIMITED-E-TENDER-AUTOMA
Dated 25.07.2018



GE T&D India Ltd.
(Formerly Alstom T&D India Ltd.)
Grid Automation-Pallavaram India

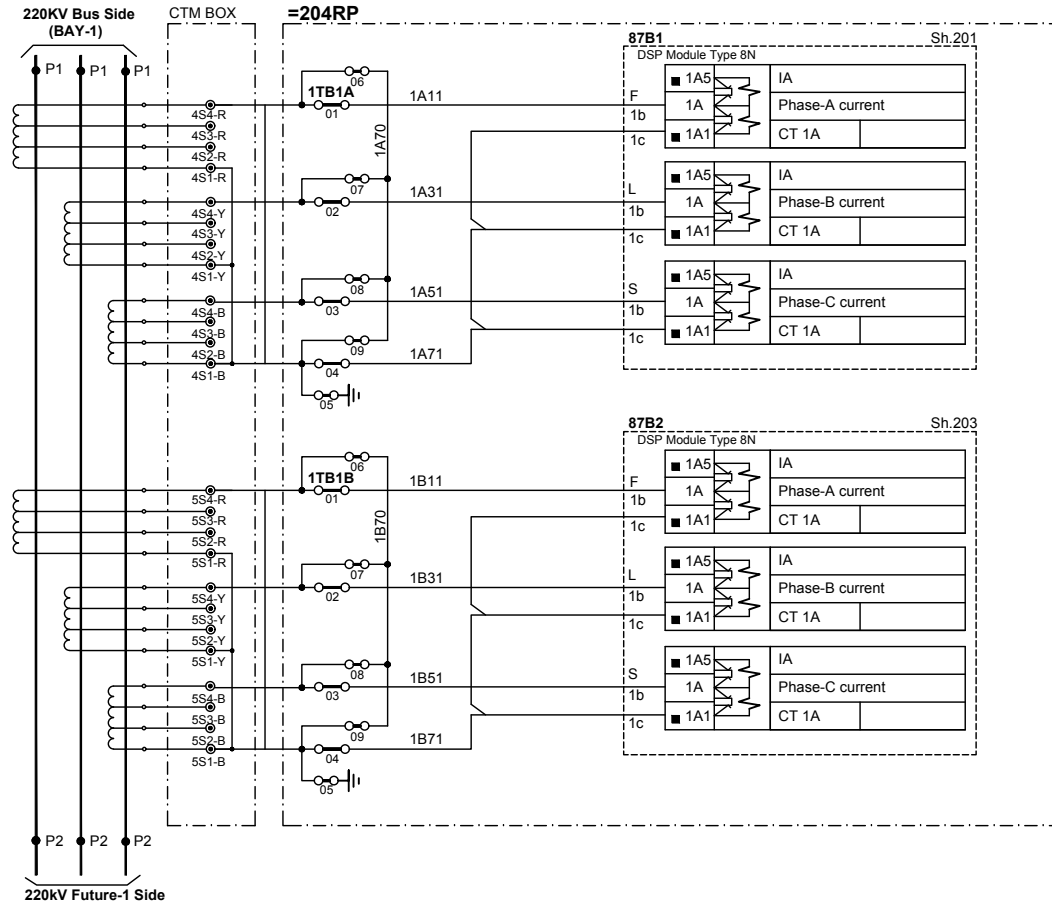
SCHEMATIC DRAWING
PANEL TYPES: 204RP
TITLE: BUS-2 BUSBAR PROTN. - 87B2

FILE:

PREPARED BY: DRR	REVISION: A
CHECKED BY: DCS	DATE: 24.08.18
APPROVED BY: MVG	SCALE: --
DRG. NO.: CPD-KY3G-SC23	SHT202 NXT SHT 210

201-CT
CORE - 4
CT Ratio:1200-600-300/1A
Class: PS

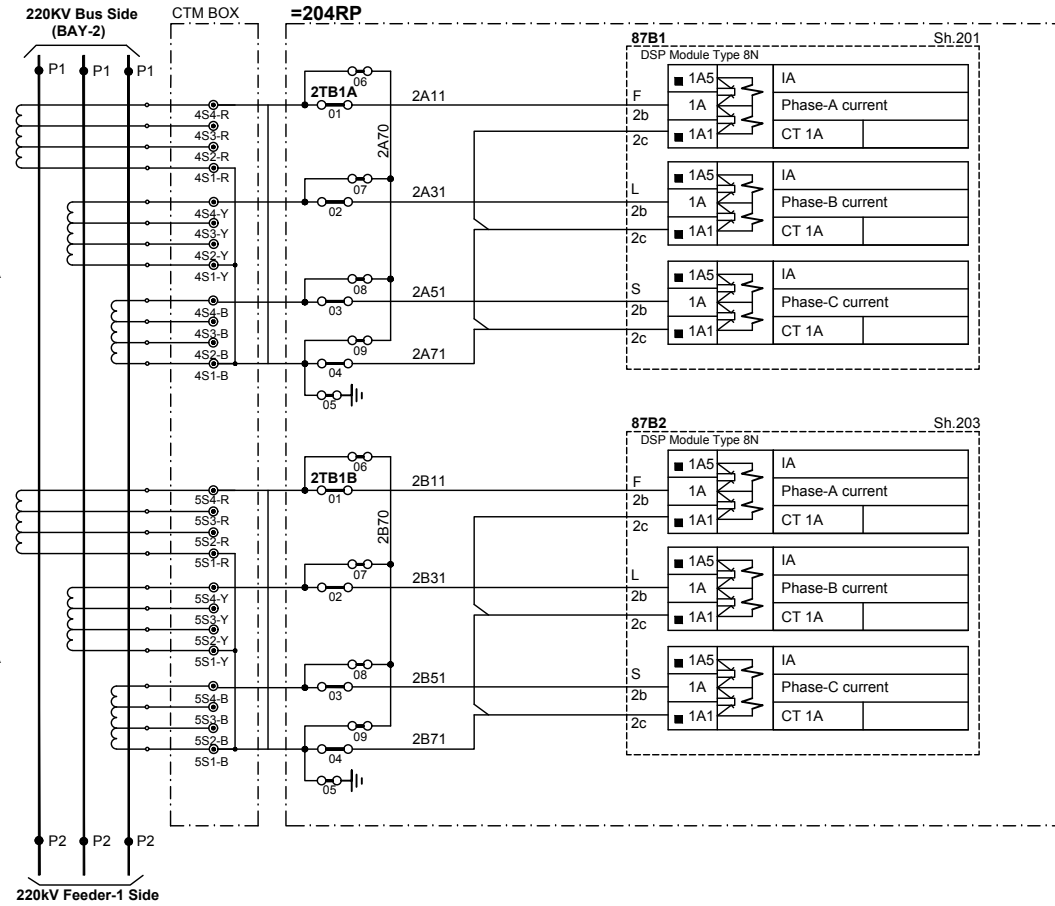
201-CT
CORE - 5
CT Ratio:1200-600-300/1A
Class: PS



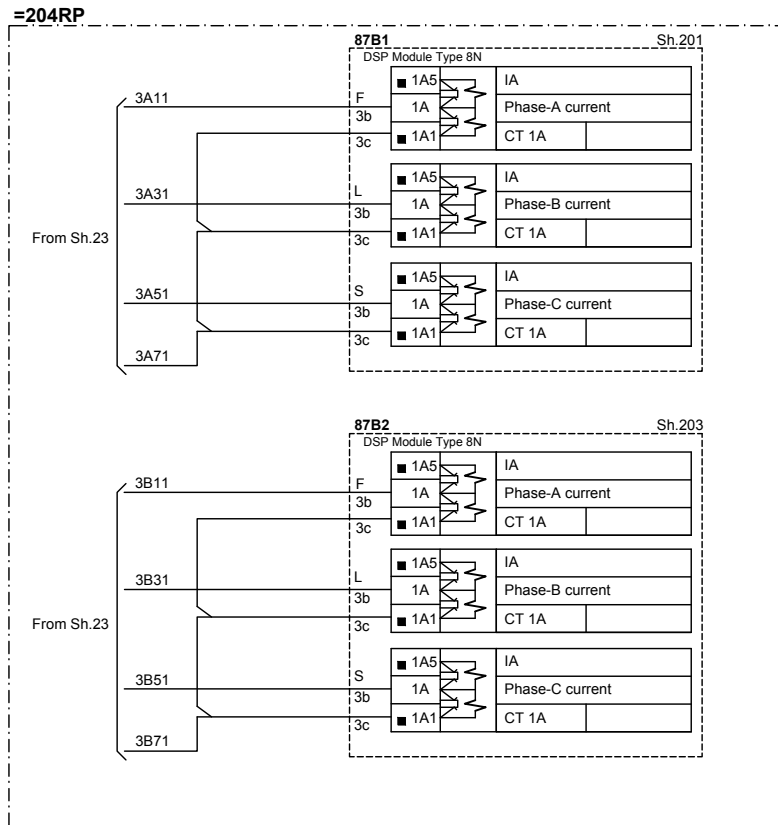
FOR GE REF:	ENGG.REF.NO.: KY3G	CUSTOMER: ODISHA POWER TRANSMISSION CORPORATION	GE T&D India Ltd. (Formerly Alstom T&D India Ltd.) Grid Automation-Pallavaram India	SCHEMATIC DRAWING PANEL TYPES: 204RP TITLE: BUS-1/2 BUSBAR PROTN. - CT CKT BAY-201 FUTURE-1	PREPARED BY: DRR CHECKED BY: DCS APPROVED BY: MVG DRG. NO.: CPD-KY3G-SC23	REVISION: A DATE: 24.08.18 SCALE: -- SHT210 NXT SHT 211
SCHEME TYPE: 220kV BUSBAR & BC C&R PANEL		PROJECT: GODACHAK 220/132kV SS		FILE:		
BASE FILE:		P.O.NO.: Sr GM CPC-I-LIMITED-E-TENDER-AUTOMA				
SALES ORDER: 3269048463		Dated 25.07.2018				

202-CT
CORE - 4
CT Ratio:1200-600-300/1A
Class: PS

202-CT
CORE - 5
CT Ratio:1200-600-300/1A
Class: PS



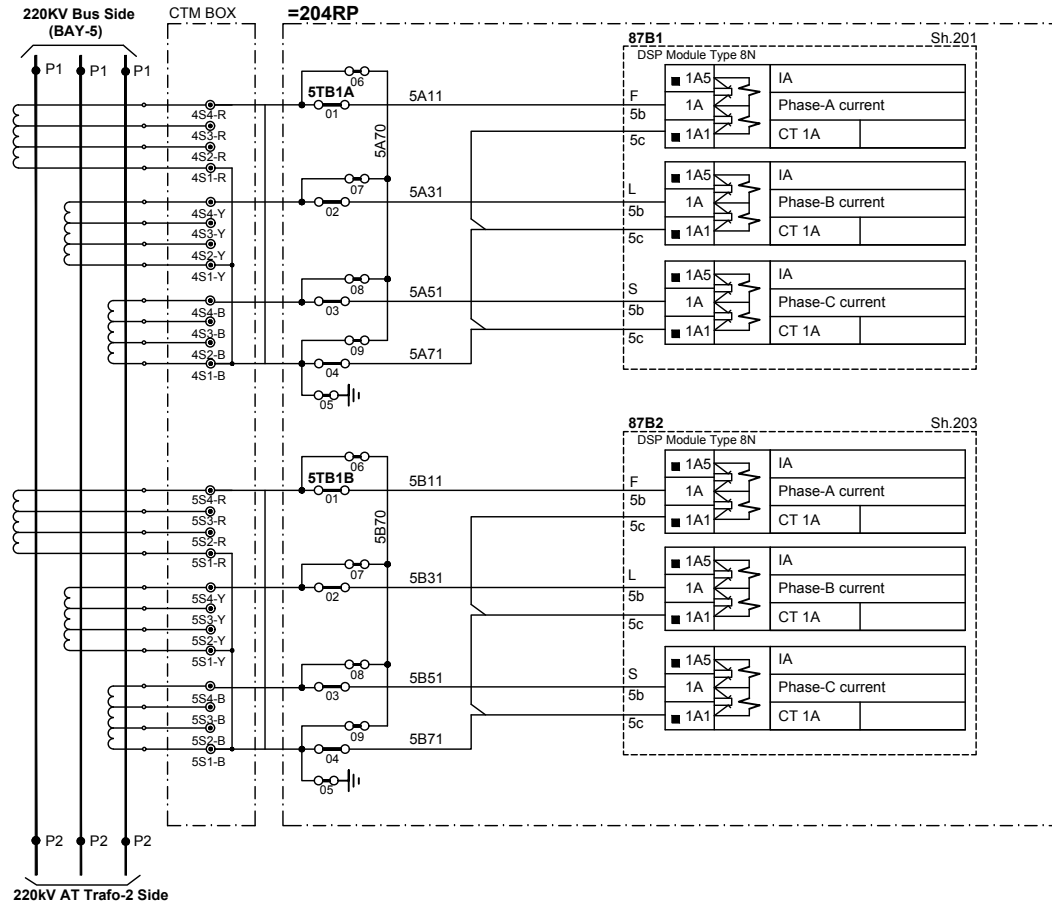
FOR GE REF:	ENGG.REF.NO.: KY3G	CUSTOMER: ODISHA POWER TRANSMISSION CORPORATION	GE T&D India Ltd. (Formerly Alstom T&D India Ltd.) Grid Automation-Pallavaram India	SCHEMATIC DRAWING PANEL TYPES: 204RP TITLE: BUS-1/2 BUSBAR PROTN. - CT CKT BAY-202 FEEDER-1	PREPARED BY: DRR CHECKED BY: DCS APPROVED BY: MVG DRG. NO.: CPD-KY3G-SC23	REVISION: A DATE: 24.08.18 SCALE: -- SHT211 NXT SHT 212
SCHEME TYPE: 220KV BUSBAR & BC C&R PANEL		PROJECT: GODACHAK 220/132kV SS		FILE:		
BASE FILE:		P.O.NO.: Sr GM CPC-I-LIMITED-E-TENDER-AUTOMA				
SALES ORDER: 3269048463		Dated 25.07.2018				



FOR GE REF:	ENGG.REF.NO.: KY3G	CUSTOMER: ODISHA POWER TRANSMISSION CORPORATION	 GE T&D India Ltd. (Formerly Alstom T&D India Ltd.) Grid Automation-Pallavaram India	SCHEMATIC DRAWING	PREPARED BY: DRR	REVISION: A
SCHEME TYPE: 220kV BUSBAR & BC C&R PANEL		PROJECT: GODACHAK 220/132kV SS		PANEL TYPES: 204RP	CHECKED BY: DCS	DATE: 24.08.18
BASE FILE:		P.O.NO.: Sr GM CPC-I-LIMITED-E-TENDER-AUTOMA		TITLE: BUS-1/2 BUSBAR PROTN. - CT CKT	APPROVED BY: MVG	SCALE: --
SALES ORDER: 3269048463		Dated 25.07.2018		FILE: BAY-203 BC	DRG. NO.: CPD-KY3G-SC23	SHT213 NXT SHT 214

205-CT
CORE - 4
CT Ratio:1200-600-300/1A
Class: PS

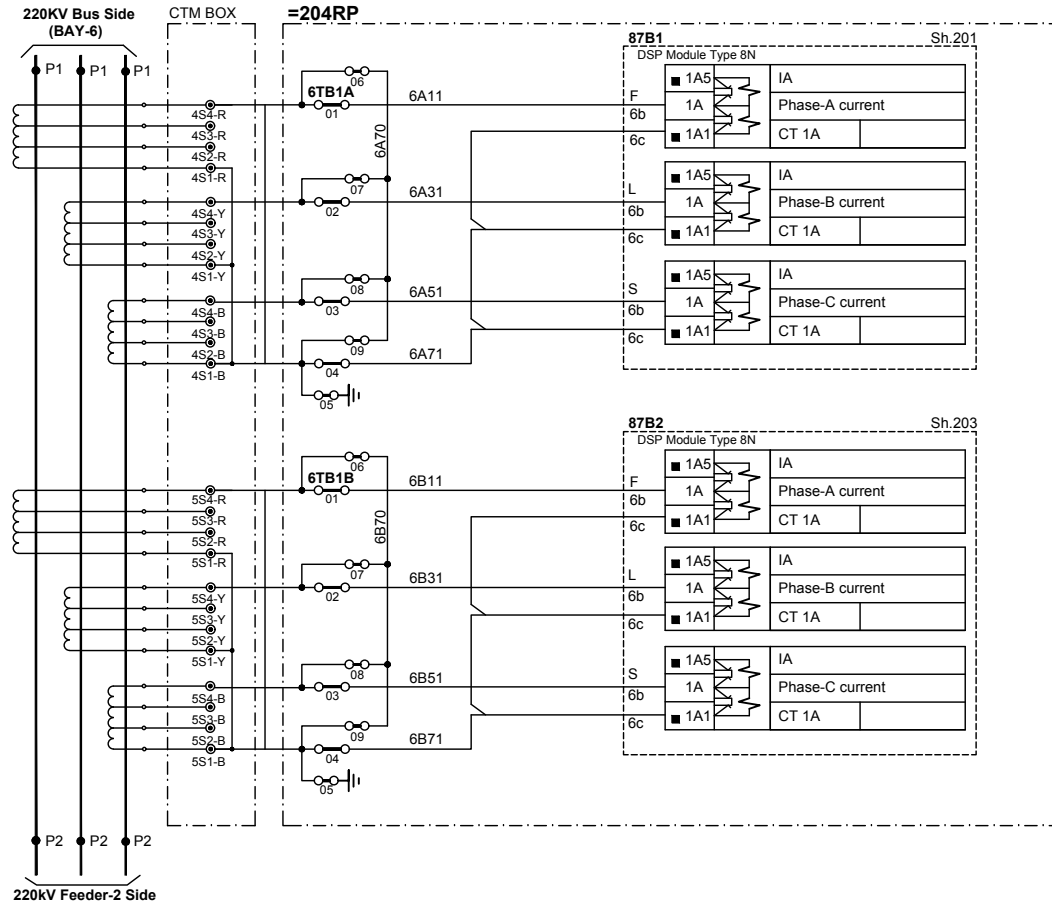
205-CT
CORE - 5
CT Ratio:1200-600-300/1A
Class: PS



FOR GE REF:	ENGG.REF.NO.: KY3G	CUSTOMER: ODISHA POWER TRANSMISSION CORPORATION	GE T&D India Ltd. (Formerly Alstom T&D India Ltd.) Grid Automation-Pallavaram India	SCHEMATIC DRAWING PANEL TYPES: 204RP TITLE: BUS-1/2 BUSBAR PROTN. - CT CKT BAY-205 AT TRANSFORMER-2	PREPARED BY: DRR CHECKED BY: DCS APPROVED BY: MVG DRG. NO.: CPD-KY3G-SC23	REVISION: A DATE: 24.08.18 SCALE: -- SHT214 NXT SHT 215
SCHEME TYPE: 220kV BUSBAR & BC C&R PANEL		PROJECT: GODACHAK 220/132kV SS		FILE:		
BASE FILE:		P.O.NO.: Sr GM CPC-I-LIMITED-E-TENDER-AUTOMA				
SALES ORDER: 3269048463		Dated 25.07.2018				

206-CT
CORE - 4
CT Ratio:1200-600-300/1A
Class: PS

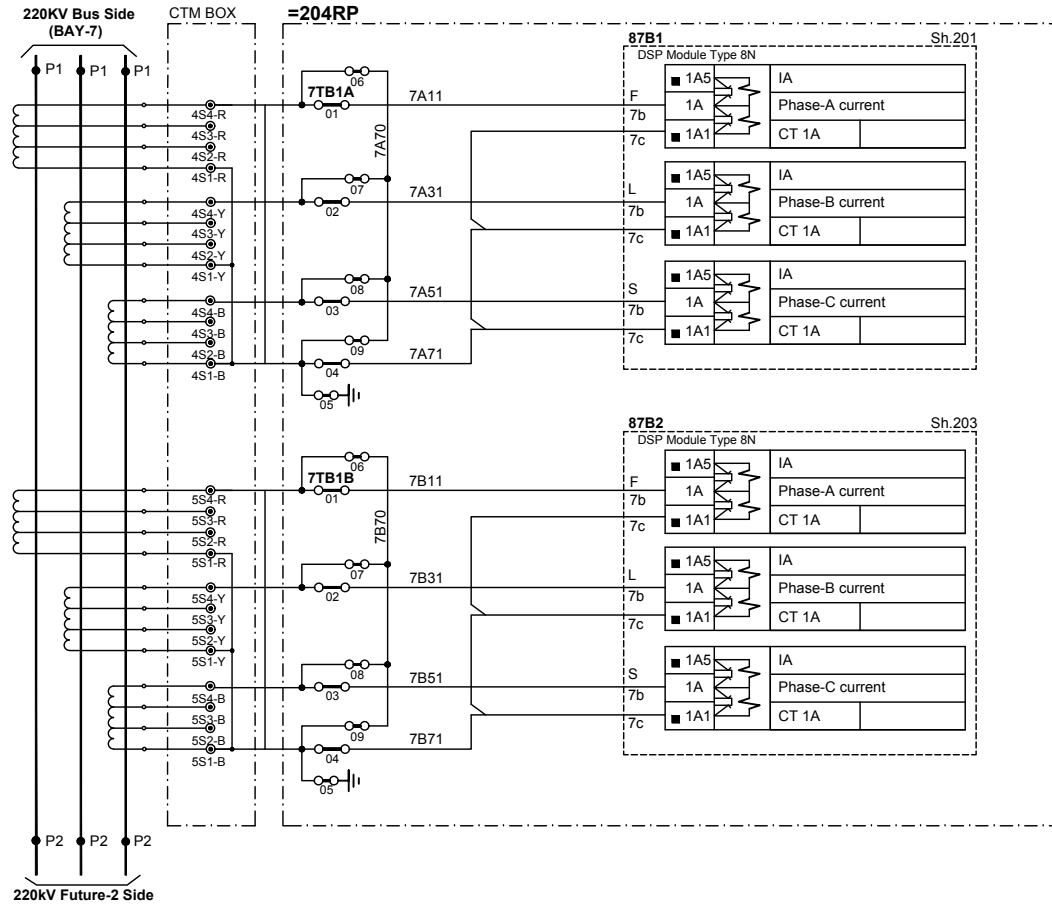
206-CT
CORE - 5
CT Ratio:1200-600-300/1A
Class: PS



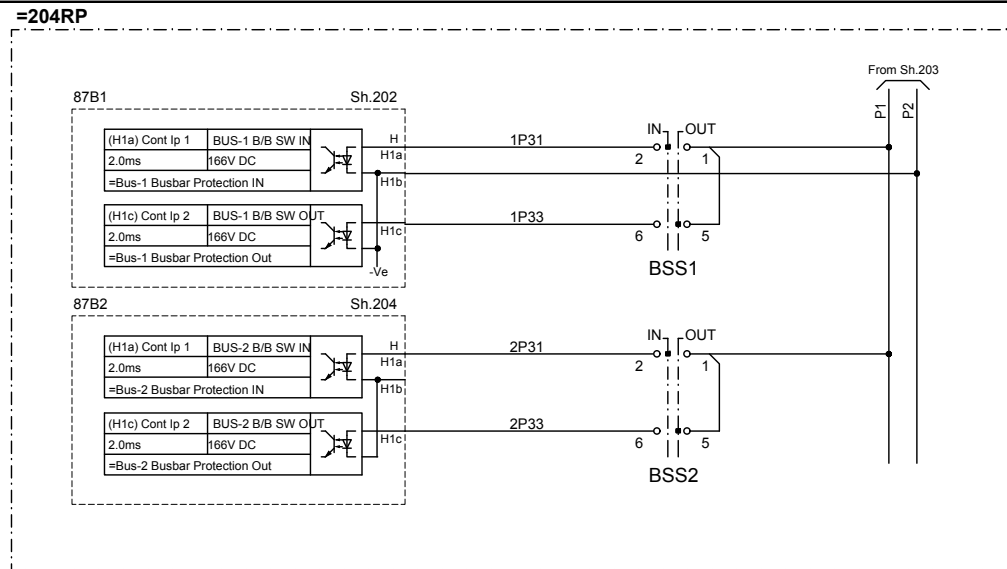
FOR GE REF:	ENGG.REF.NO.: KY3G	CUSTOMER: ODISHA POWER TRANSMISSION CORPORATION	GE T&D India Ltd. (Formerly Alstom T&D India Ltd.) Grid Automation-Pallavaram India	SCHEMATIC DRAWING PANEL TYPES: 204RP TITLE: BUS-1/2 BUSBAR PROT.N. - CT CKT BAY-206 FEEDER-2	PREPARED BY: DRR CHECKED BY: DCS APPROVED BY: MVG DRG. NO.: CPD-KY3G-SC23	REVISION: A DATE: 24.08.18 SCALE: -- SHT215 NXT SHT 216
SCHEME TYPE: 220kV BUSBAR & BC C&R PANEL		PROJECT: GODACHAK 220/132kV SS		FILE:		
BASE FILE:		P.O.NO.: Sr GM CPC-I-LIMITED-E-TENDER-AUTOMA				
SALES ORDER: 3269048463		Dated 25.07.2018				

207-CT
CORE - 4
CT Ratio:1200-600-300/1A
Class: PS

207-CT
CORE - 5
CT Ratio:1200-600-300/1A
Class: PS



FOR GE REF:	ENGG.REF.NO.: KY3G	CUSTOMER: ODISHA POWER TRANSMISSION CORPORATION	GE T&D India Ltd. (Formerly Alstom T&D India Ltd.) Grid Automation-Pallavaram India	SCHEMATIC DRAWING PANEL TYPES: 204RP TITLE: BUS-1/2 BUSBAR PROT.N. - CT CKT BAY-207 FUTURE-2	PREPARED BY: DRR CHECKED BY: DCS APPROVED BY: MVG DRG. NO.: CPD-KY3G-SC23	REVISION: A DATE: 24.08.18 SCALE: -- SHT216 NXT SHT 221
SCHEME TYPE: 220kV BUSBAR & BC C&R PANEL		PROJECT: GODACHAK 220/132kV SS		FILE:		
BASE FILE:		P.O.NO.: Sr GM CPC-I-LIMITED-E-TENDER-AUTOMA				
SALES ORDER: 3269048463		Dated 25.07.2018				



FOR GE REF:	ENGG.REF.NO.: KY3G	CUSTOMER: ODISHA POWER TRANSMISSION CORPORATION	 GE T&D India Ltd. (Formerly Alstom T&D India Ltd.) Grid Automation-Pallavaram India	SCHEMATIC DRAWING	FILE:	PREPARED BY: DRR	REVISION: A
SCHEME TYPE: 220kV BUSBAR & BC C&R PANEL		PROJECT: GODACHAK 220/132kV SS		PANEL TYPES: 204RP		CHECKED BY: DCS	DATE: 24.08.18
BASE FILE:		P.O.NO.: Sr GM CPC-I-LIMITED-E-TENDER-AUTOMA		TITLE: BUSBAR PROTECTION SELECTOR SWITCH		APPROVED BY: MVG	SCALE: --
SALES ORDER: 3269048463		Dated 25.07.2018				DRG. NO.: CPD-KY3G-SC23	SHT 221 NXT SHT NIL