GTYP8000 1# Transformer protection cabinet

Electrical Design Documents

Project Name: DESIGN,SUPPLY,INSTALLATION AND COMMISSIONING OF OF ELECTRICAL POWER AT BERTHS 1-7 AND RO-RO BERTH AT DAR ES SALAAM PORT

TNRZ Power Tech (NJ) Co.,Ltd

2026.03.10

绘制软件	AutoCAD
更改记录	
底图编号	

Page No.	Content	Drawing No.
1	Drawing cover	
2	Drawing catalogue	ML
3	Cabinet (panel) layout	BBT-1
4	Protective power supply circuit diagram	ZDY1
5	Protection schematic(1n)	ZDY2
6	Protection schematic(21n)	ZDY3
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12	Wiring diagram for action and signal outlets	ZDY9
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33		
34		

Drawing Software

AutoCAD

Change Record

Base Drawing No

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Design by				2026.03.10
Check by				2026.03.10
Standardization				2026.03.10
Approved by				2026.03.10

GTYP8000

1#Transformer protection cabinet

Drawing Catalogue

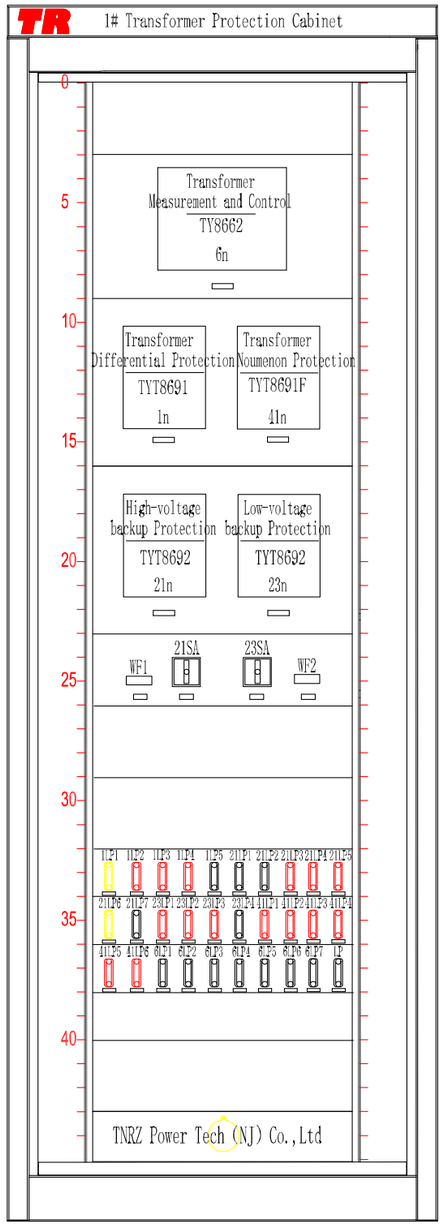
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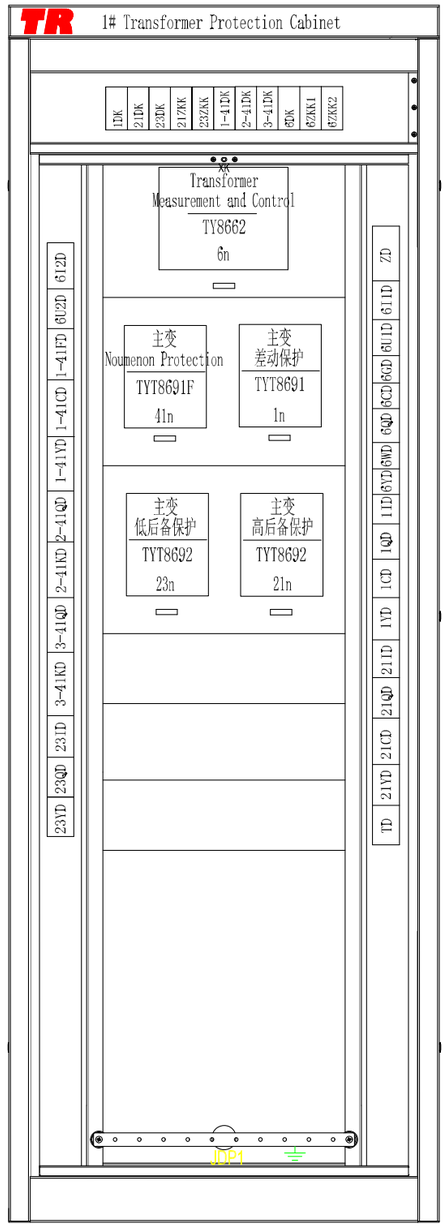
Total 34 pages | Page 02

Cabinet Dimensions:	2260*800*600 Left door hinge
Cabinet Color:	RAL7032
Power Supply:	220V

Front Layout



Back Layout



Instructions:

1. Shaker cabinet, total of 1 sides
2. Cabinet bottom screen printing: TNRZ Power Tech (NJ) Co.,Ltd
3. Eyebrow silk screen font: Heiti font height 35mm
4. Eyebrow silk screen background color: the same color as the cabinet body; Font color: black
5、Add the company LOGO at the forefront of the eyebrow

No.	Code	Component Name	Model and specification	Number	Remarks
17					
16					
15					
14					
13					
18					
17					
16	LD	Lamp	AC220V, 25W		
15	XK	Travel switch	LX19K		
14		Other terminal	Uk5N		
13		Current terminal	URTK/S		
12		Other lines	1.5 square millimeters		
11		Current lines	2.5 square millimeters		
10	JDP	Grounding copper bar		1	
9	LP	Connecting piece	YY1-D1-A1	30	15 red, 2 yellow, 13 gra
8	SA	Operation Switch	LW21-16NZTS7-6	2	
7	ZKK	AC voltage switch	NB1-63 B1 3P	4	
6	DK	Device power switch	NB1Z-63 B6 2P	7	
5	6n	Measurement and Control	TY8662	1	DC220V
4	41n	Transformer’ s Noumenon Protection	TYT8691F	1	DC220V
3	23n	Transformer low-voltage backup protection	TYT8692	1	DC220V
2	21n	Transformer high-voltage backup protection	TYT8692	1	DC220V
1	1n	Transformer Differential Protection	TYT8691	1	DC220V

Drawing Software: AutoCAD

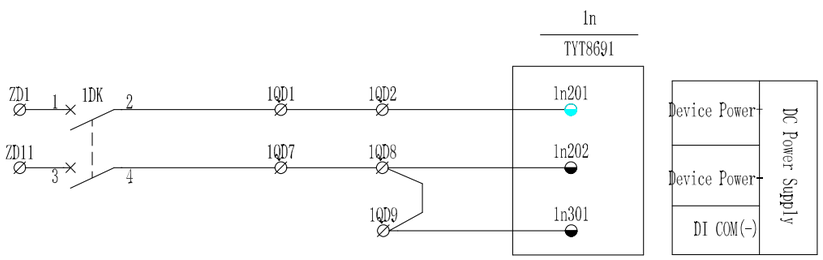
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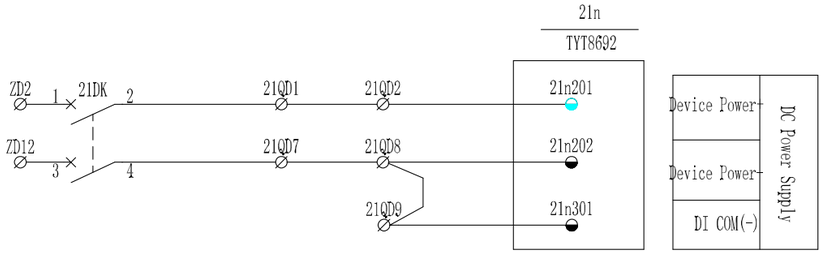
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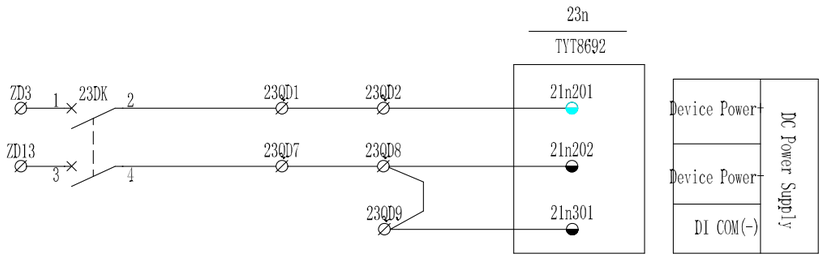
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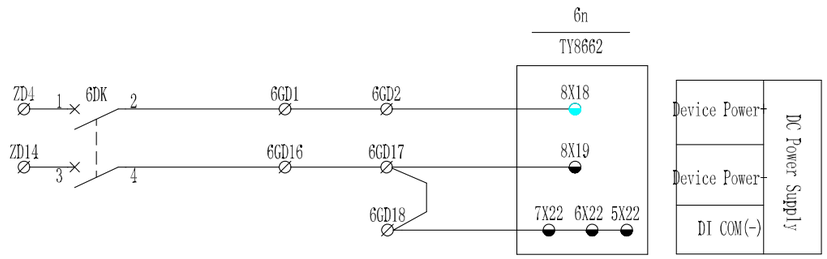
GTYP8000 1#Transformer protection cabinet

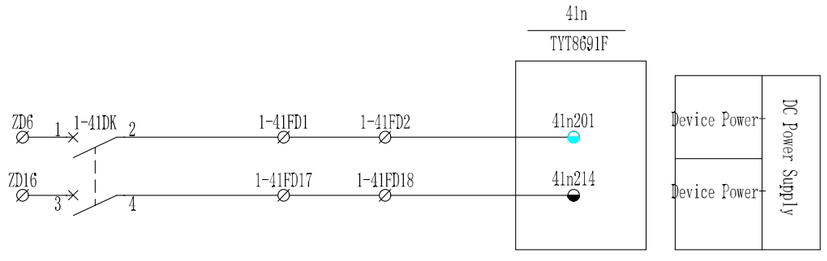
Cabinet (panel) layout BBT-1

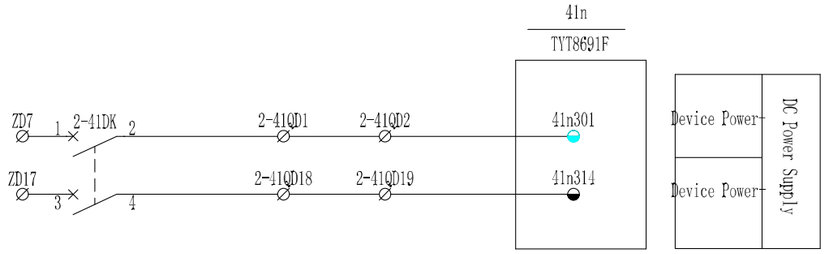


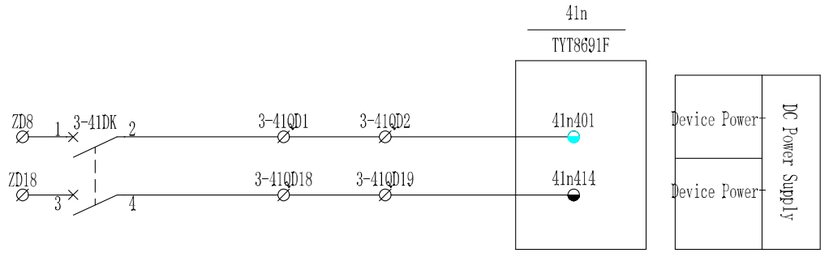


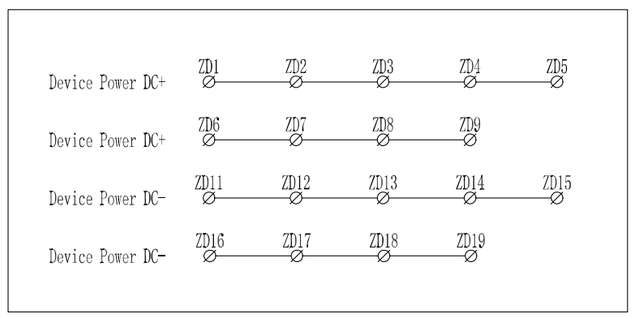












Drawing Software
AutoCAD

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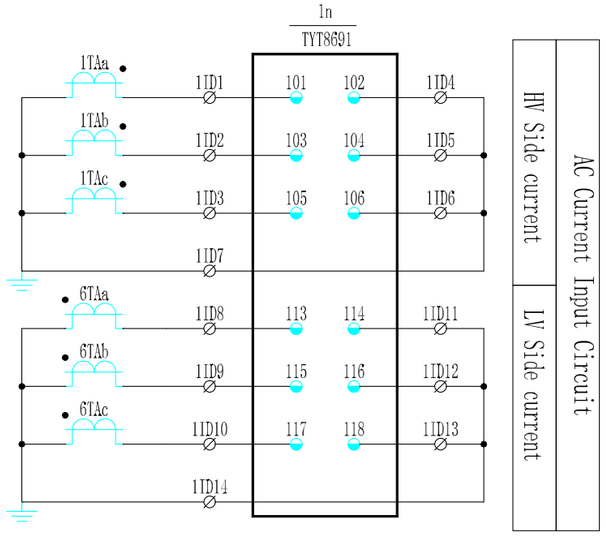
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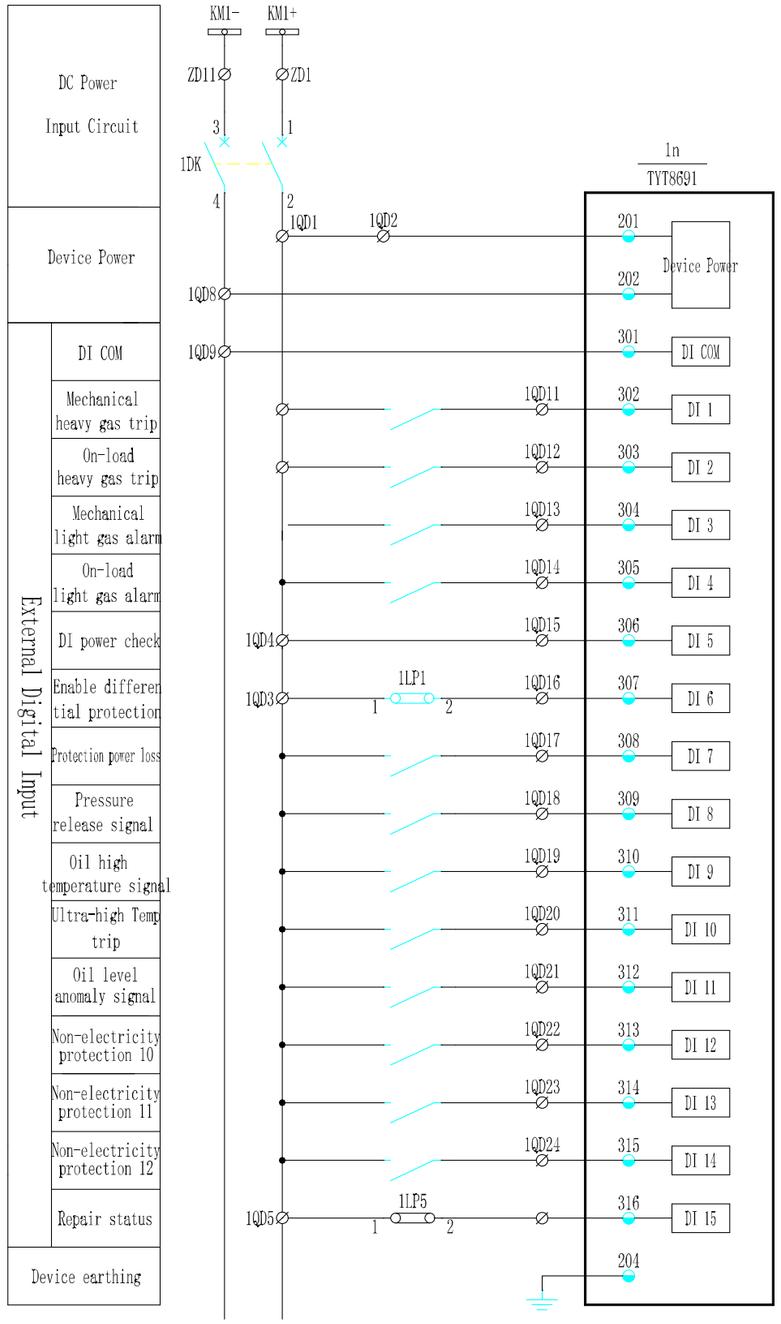
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Approved by		Date 2026.03.10

GTYP8000
1#Transformer protection cabinet

Protective power supply circuit diagram
ZDY1

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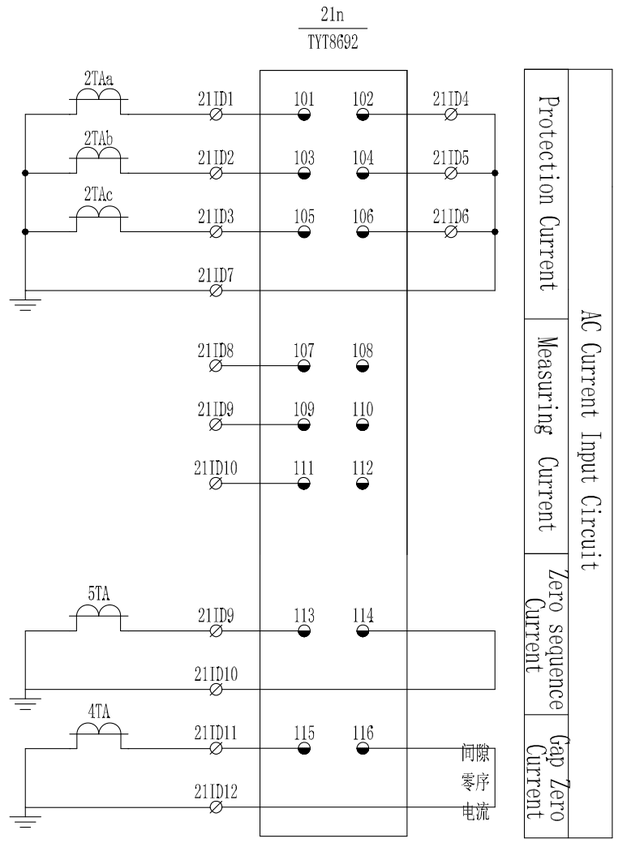


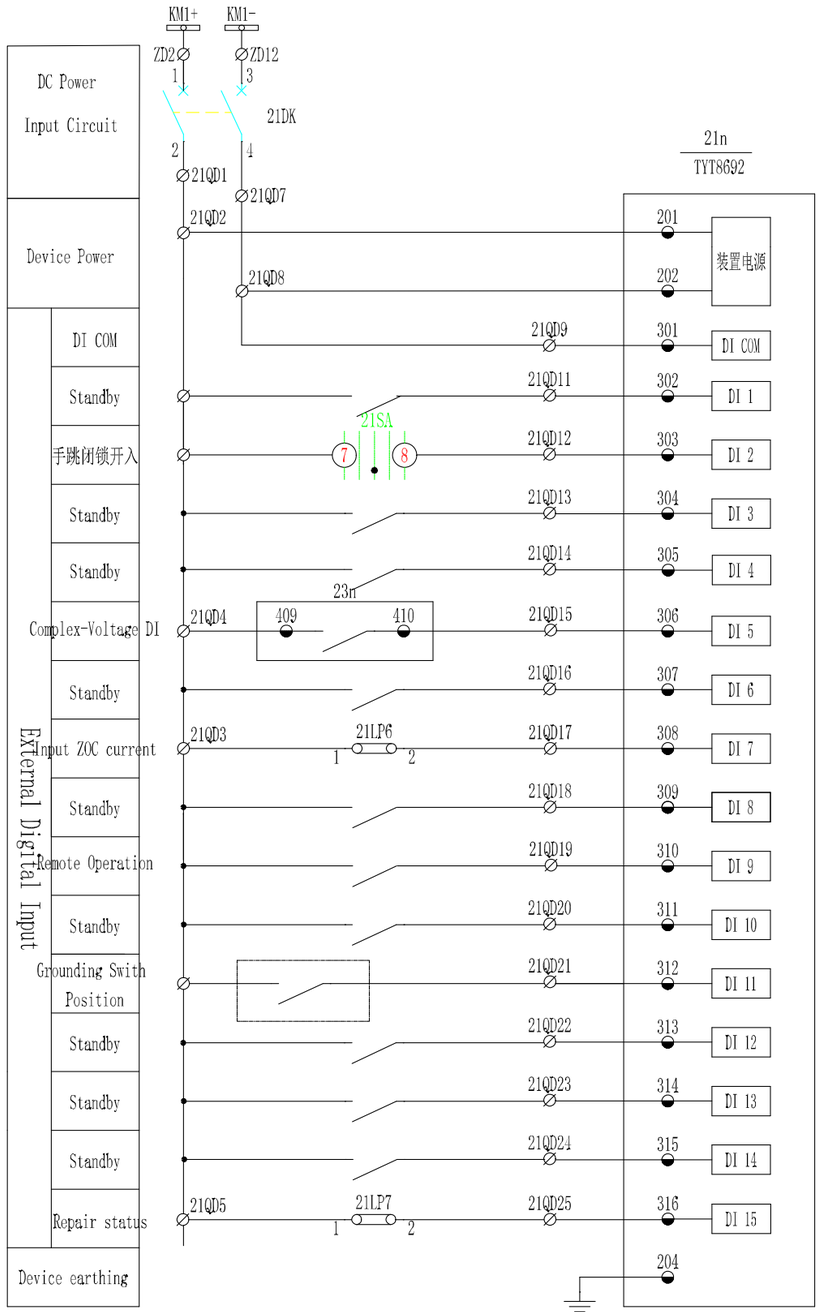


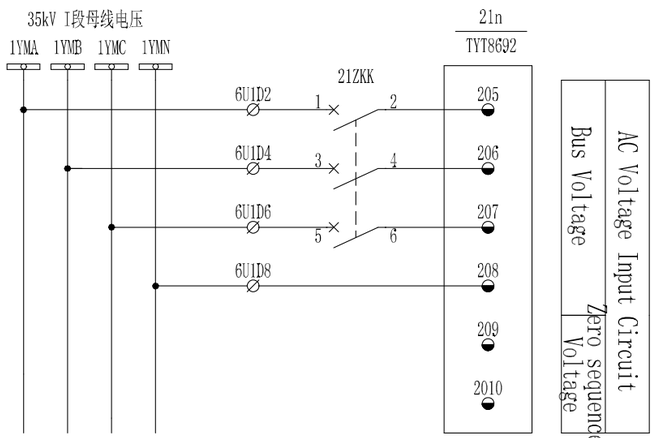
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GTYP8000	Protection schematic (1n)
1#Transformer protection cabinet	ZDY2
	Page 05
	Total 34 pages







Drawing Software
AutoCAD

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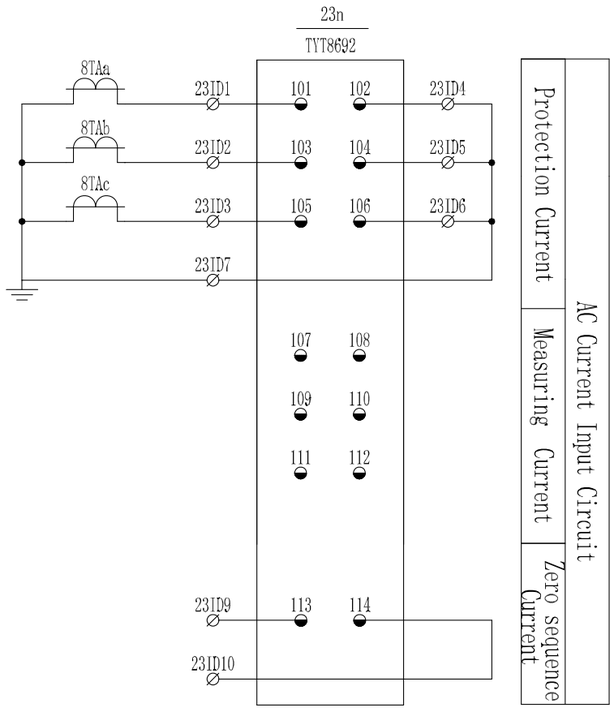
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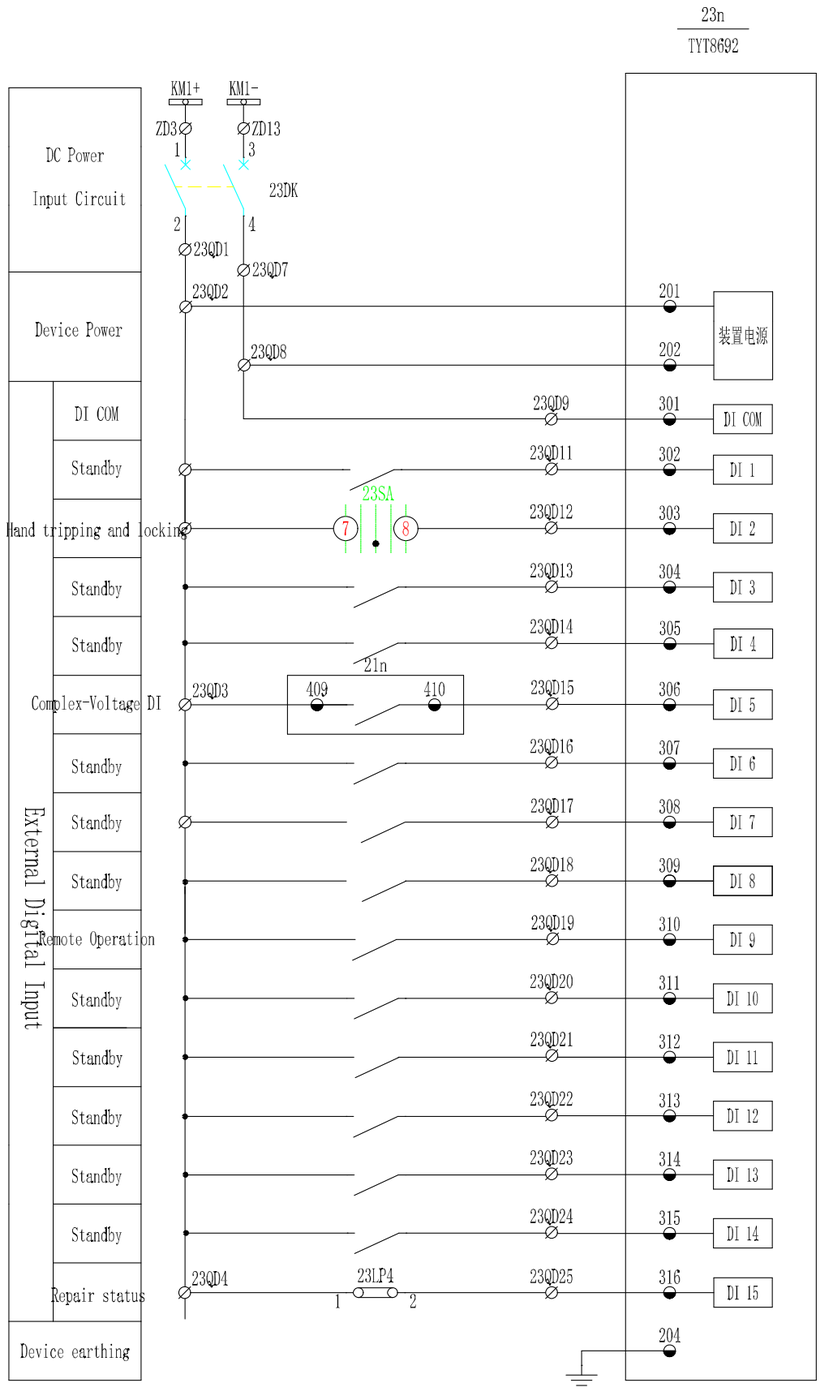
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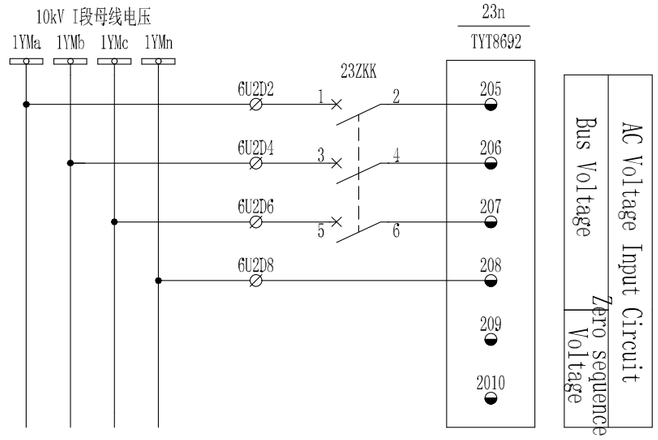
GTYP8000
1#Transformer protection cabinet

Protection schematic(21n)
ZDY3

Page 06
Total 34 pages







Drawing Software
AutoCAD

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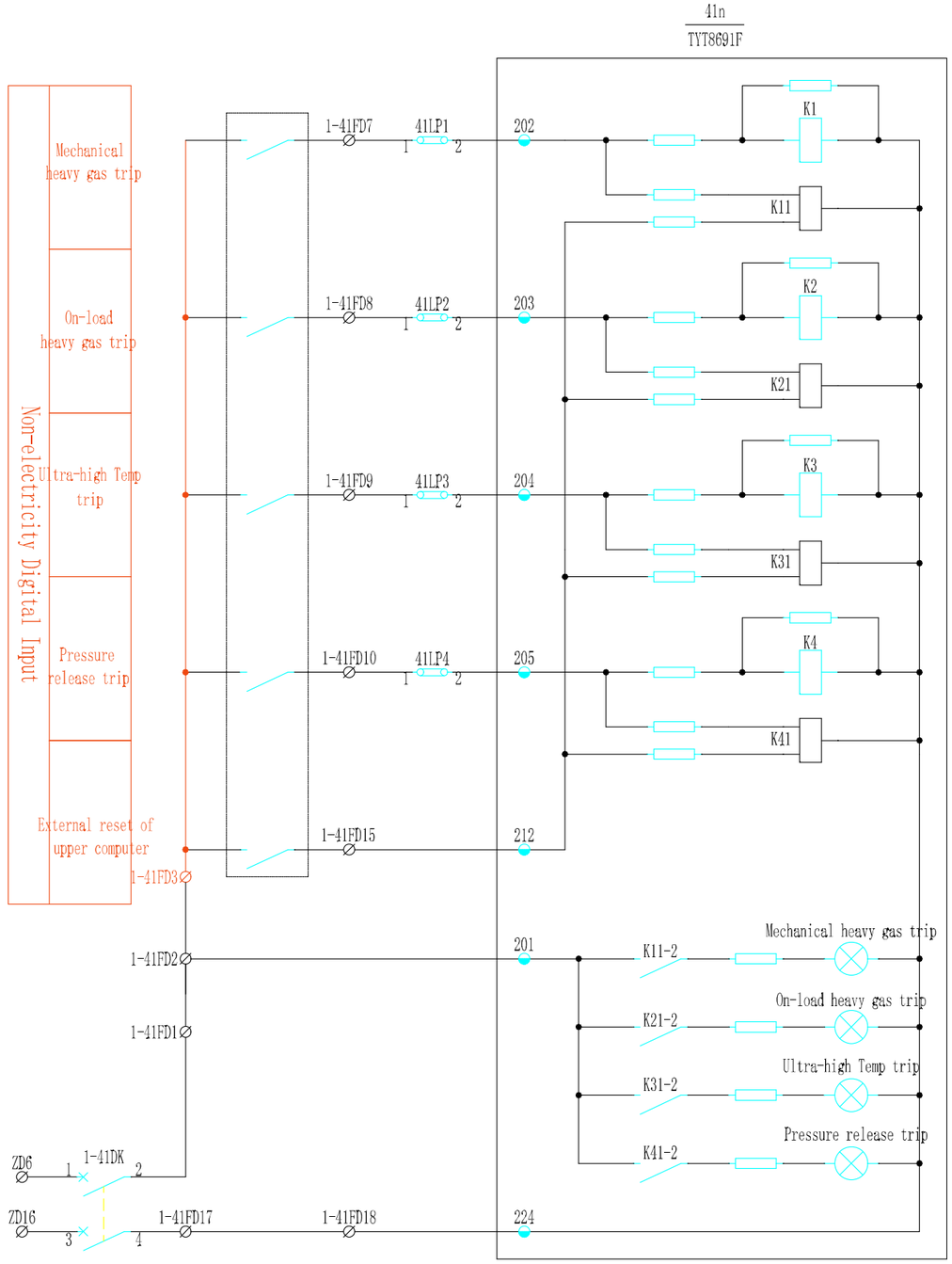
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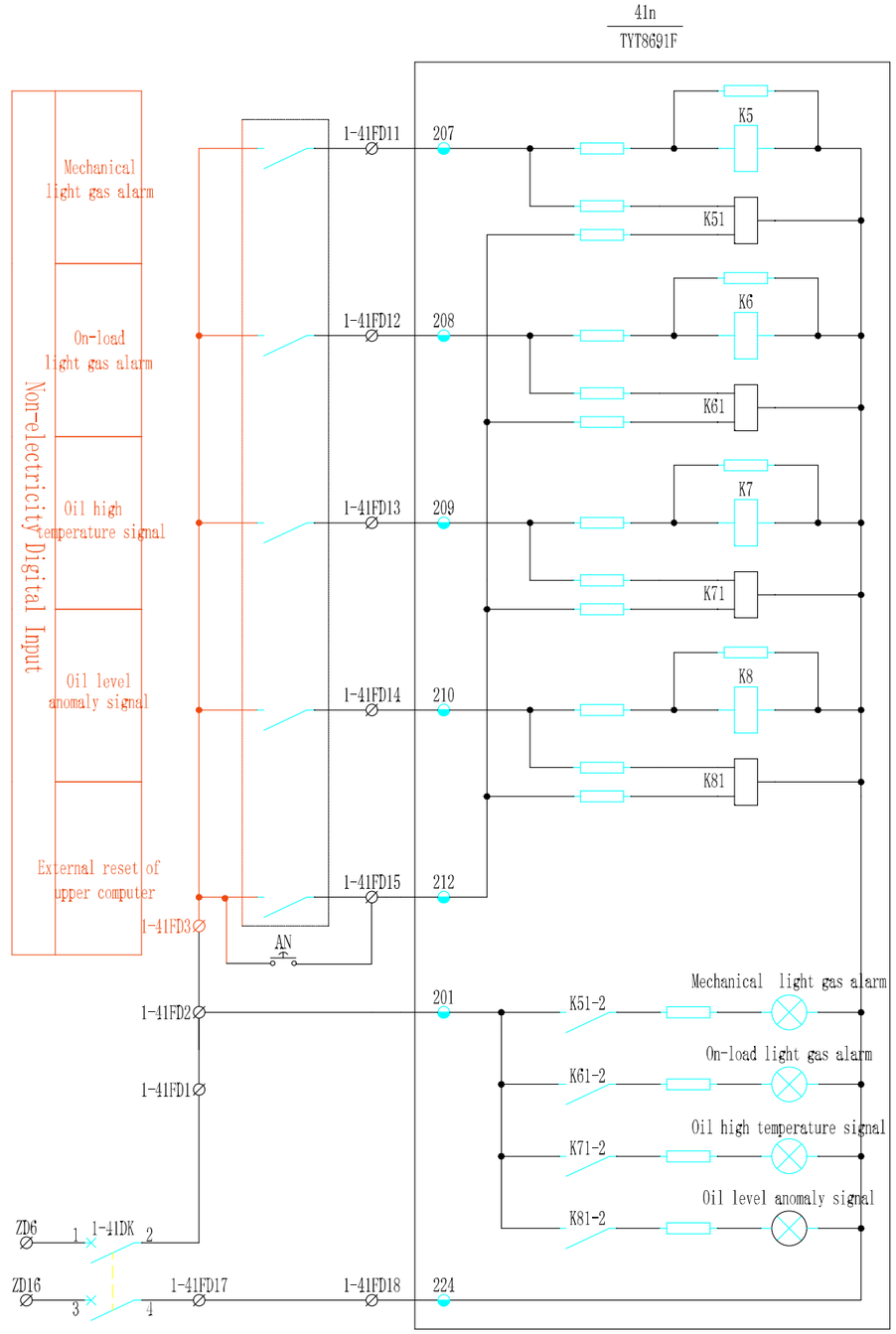
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GTYP8000
1#Transformer protection cabinet

Protection schematic(23n)
ZDY4

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Total 34 pages





Drawing Software
AutoCAD

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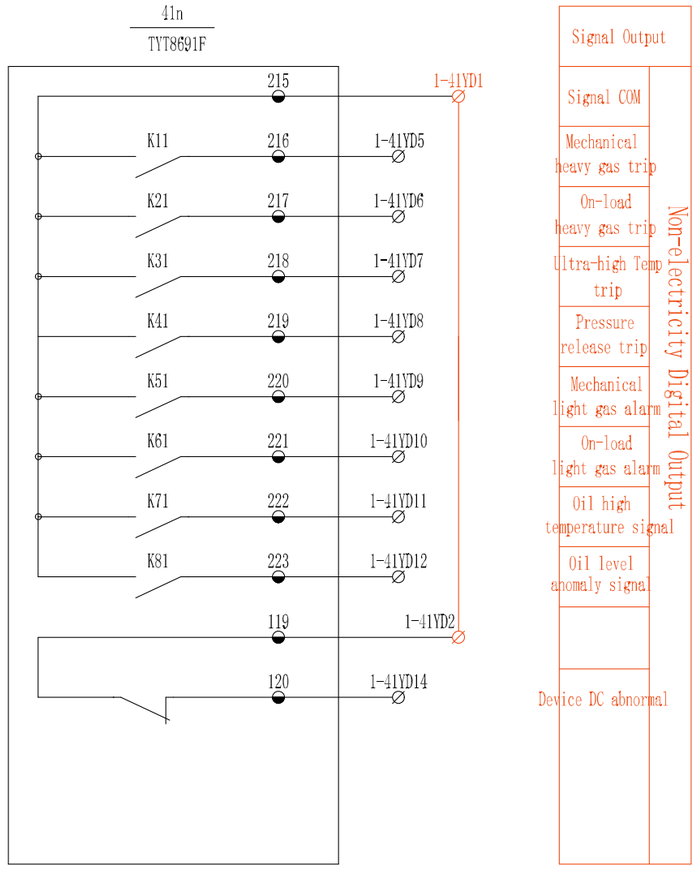
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GTYP8000
1#Transformer protection cabinet

Protection schematic #1(41n)
ZDY5

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Total 34 pages



Drawing Software
AutoCAD

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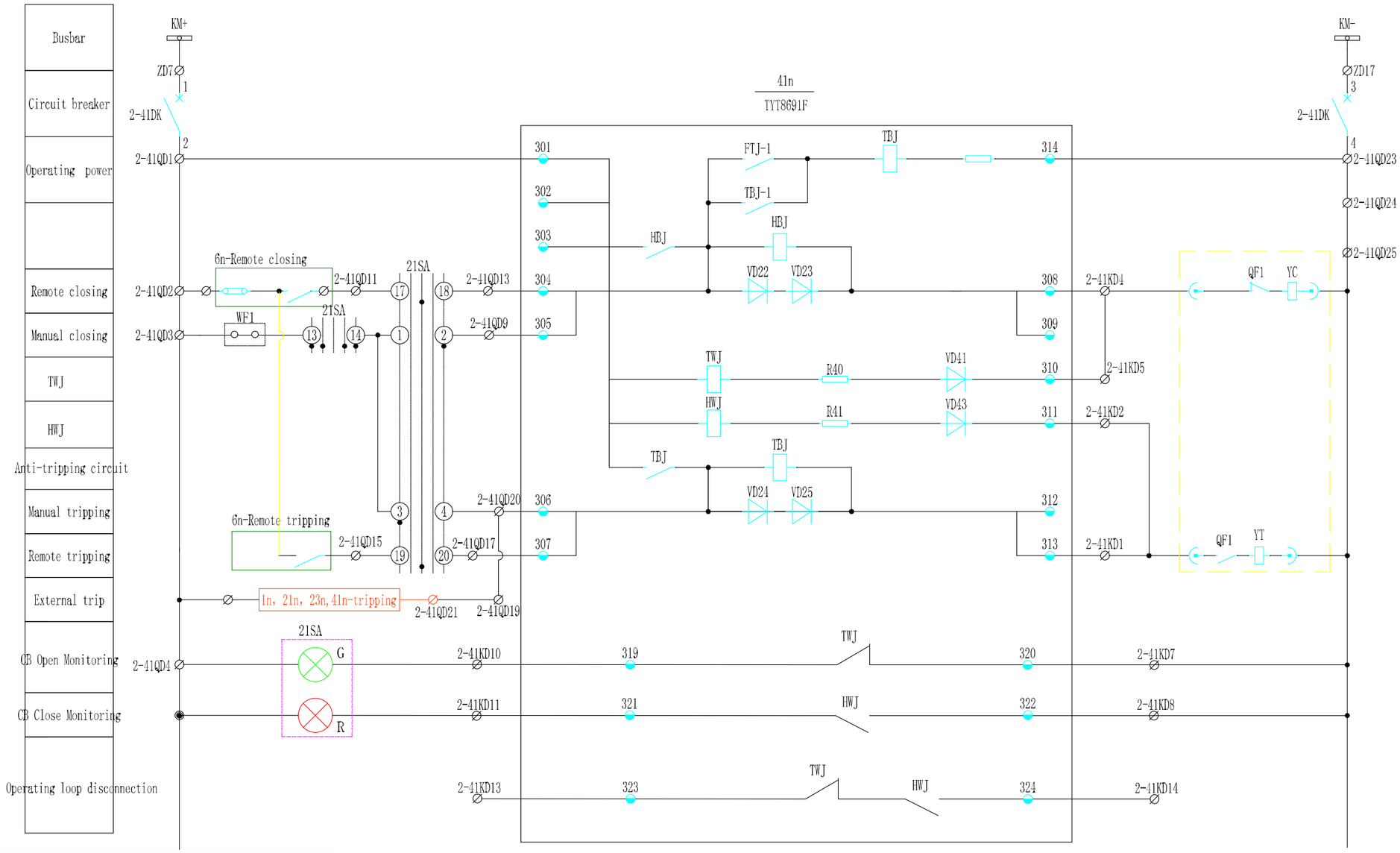
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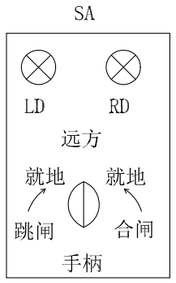
GTYP8000
1#Transformer protection cabinet

Protection schematic #2(41n)
ZDY6

Page 09
Total 34 pages



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3-4	X				
5-6					X
7-8	X				
9-10					X
11-12	X				
13-14	X	X		X	X
15-16	X	X		X	X
17-18			X		
19-20			X		
21-22			X		
23-24			X		



Drawing Software
AutoCAD

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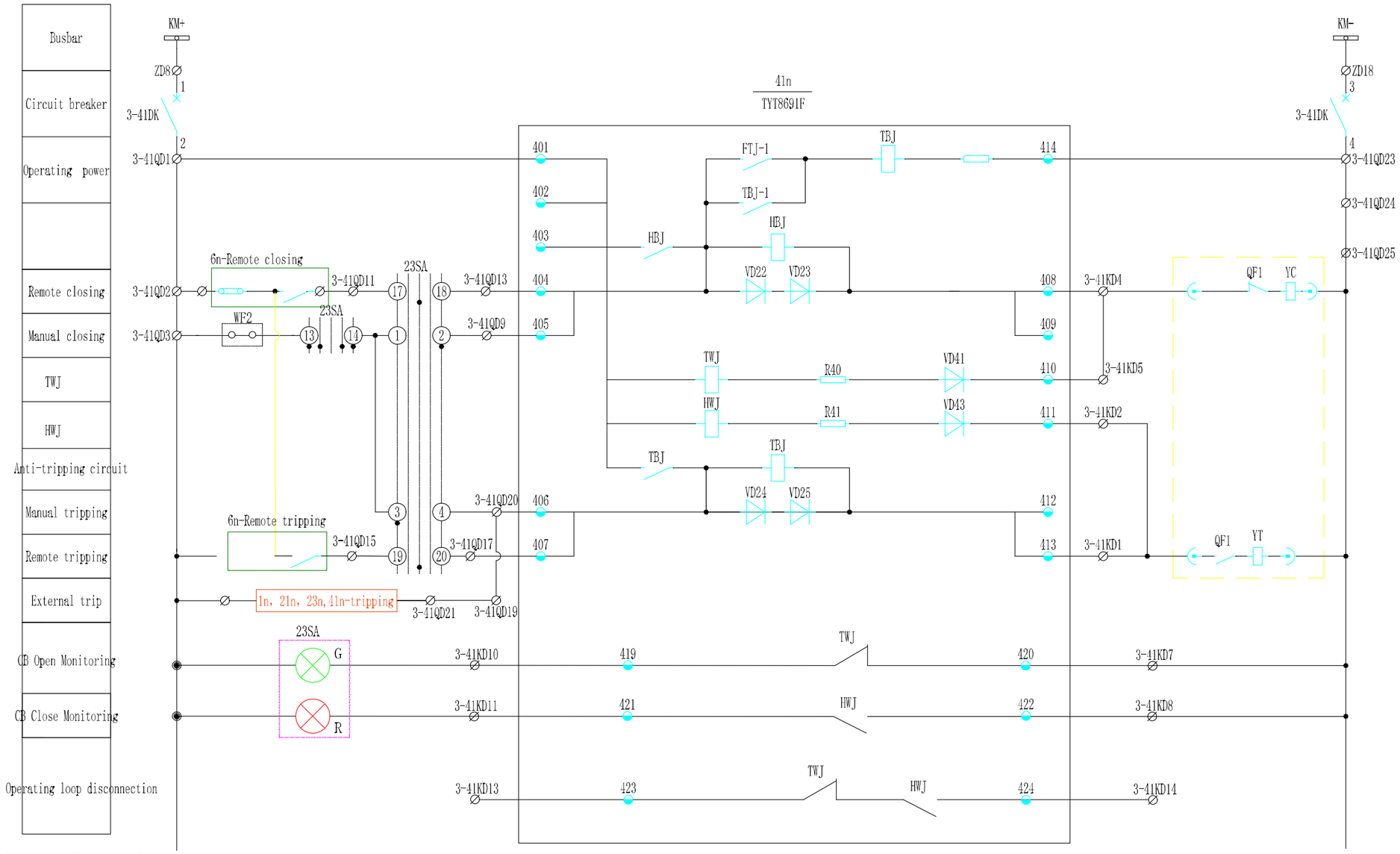
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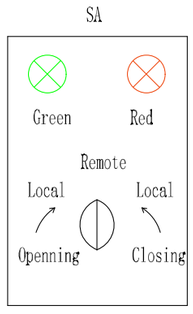
GTYP8000 35kV
1#Transformer protection cabinet

Operational circuit schematic diagram(41n)
ZDY7

Page 10
Total 34 pages



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11-12	X				
13-14	X	X		X	X
15-16	X	X		X	X
17-18			X		
19-20			X		
21-22			X		
23-24			X		



Drawing Software
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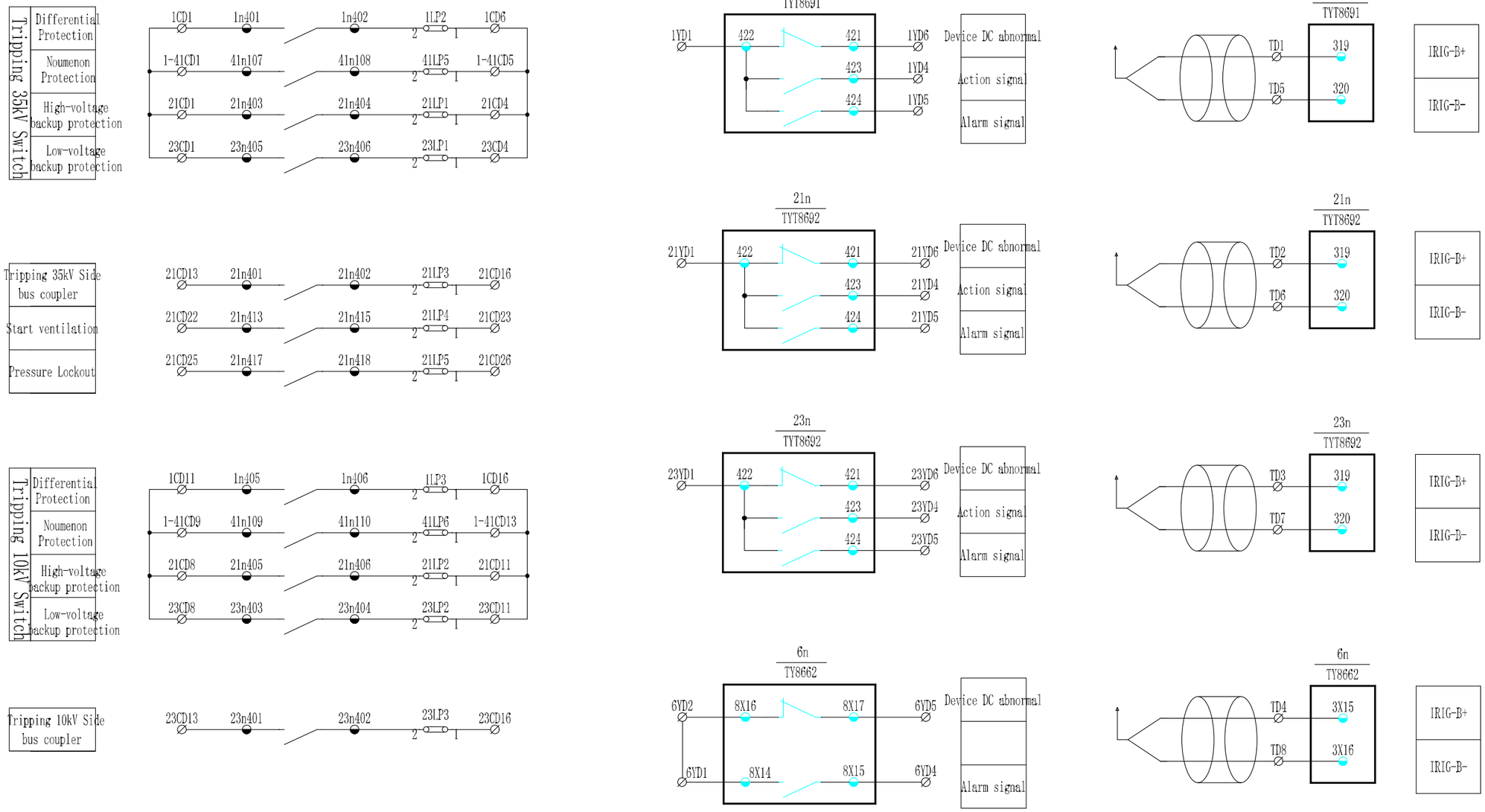
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GTYP8000 10kV
1#Transformer protection cabinet

Operational circuit schematic diagram (41n)
ZDY8

Page 11
Total 34 pages



Drawing Software	AutoCAD
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Change Record	
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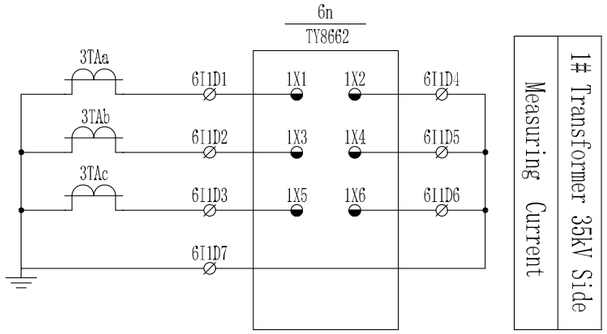
GTYP8000 1#Transformer protection cabinet

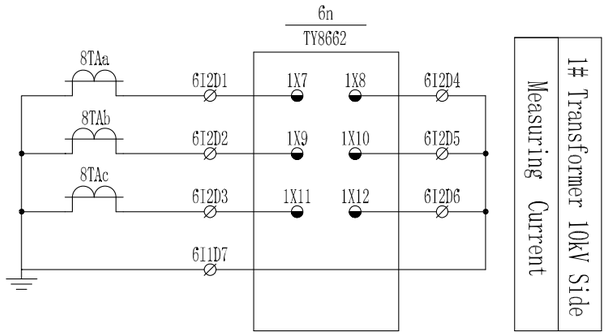
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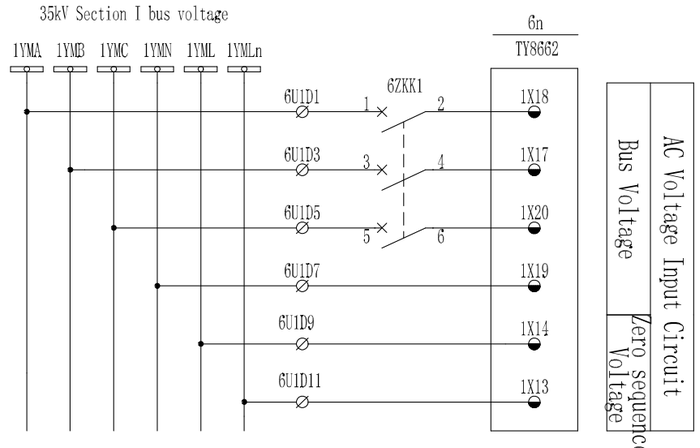
ZDY9

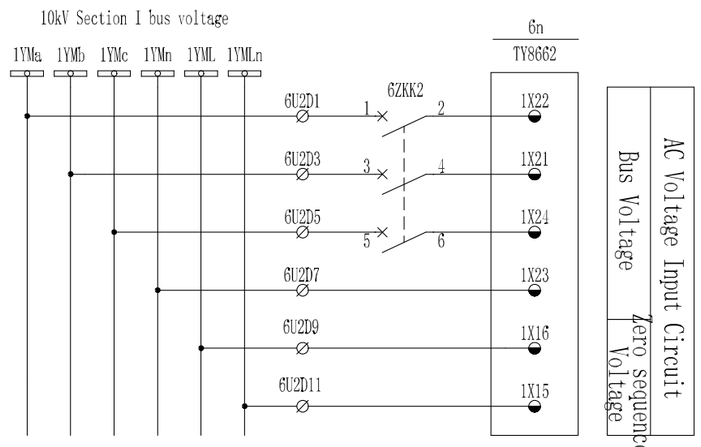
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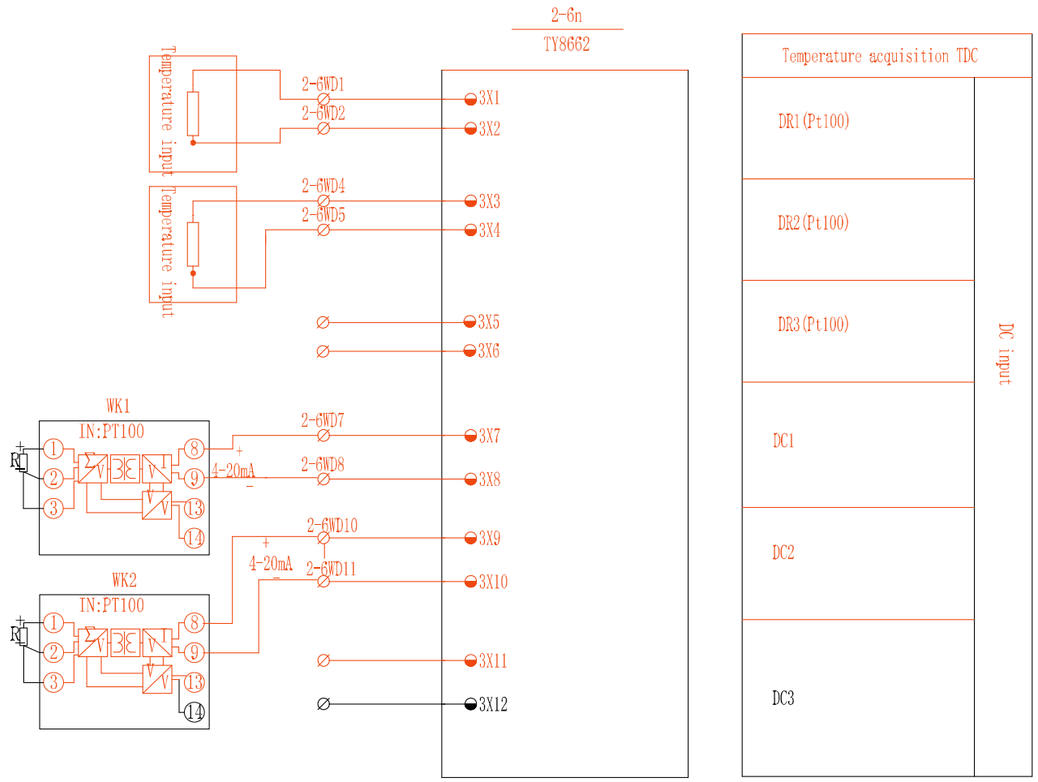
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GTYP8000 1#Transformer protection cabinet	AC Schematic(6n) ZDY10	Page 13 Total 34 pages



Drawing Software
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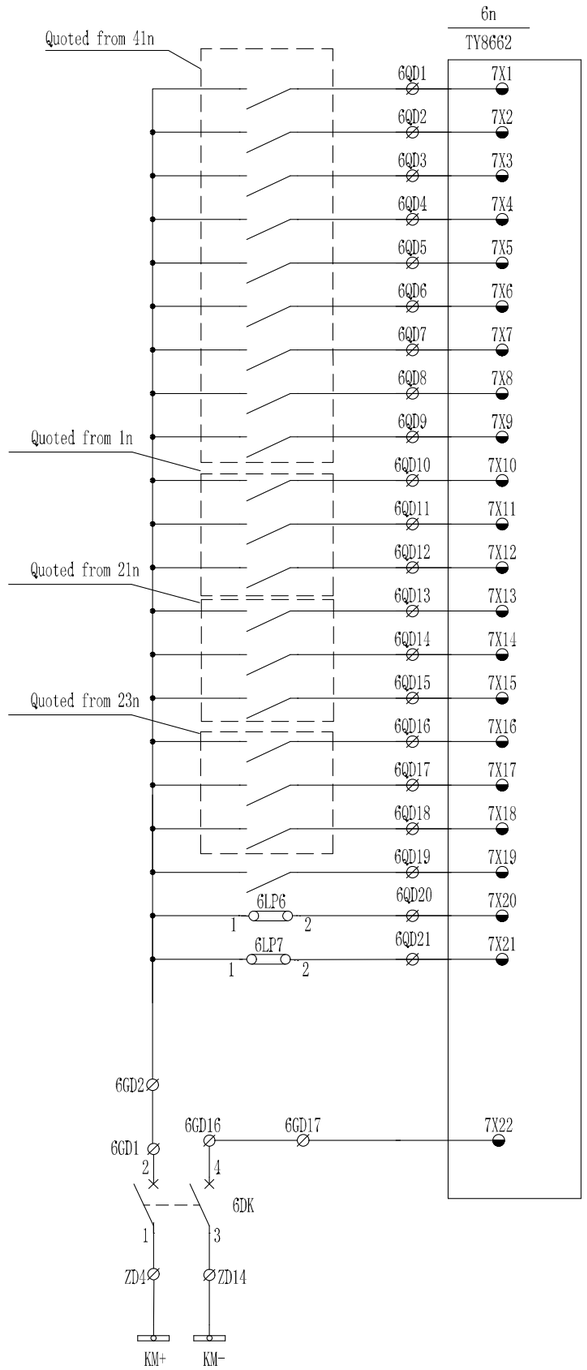
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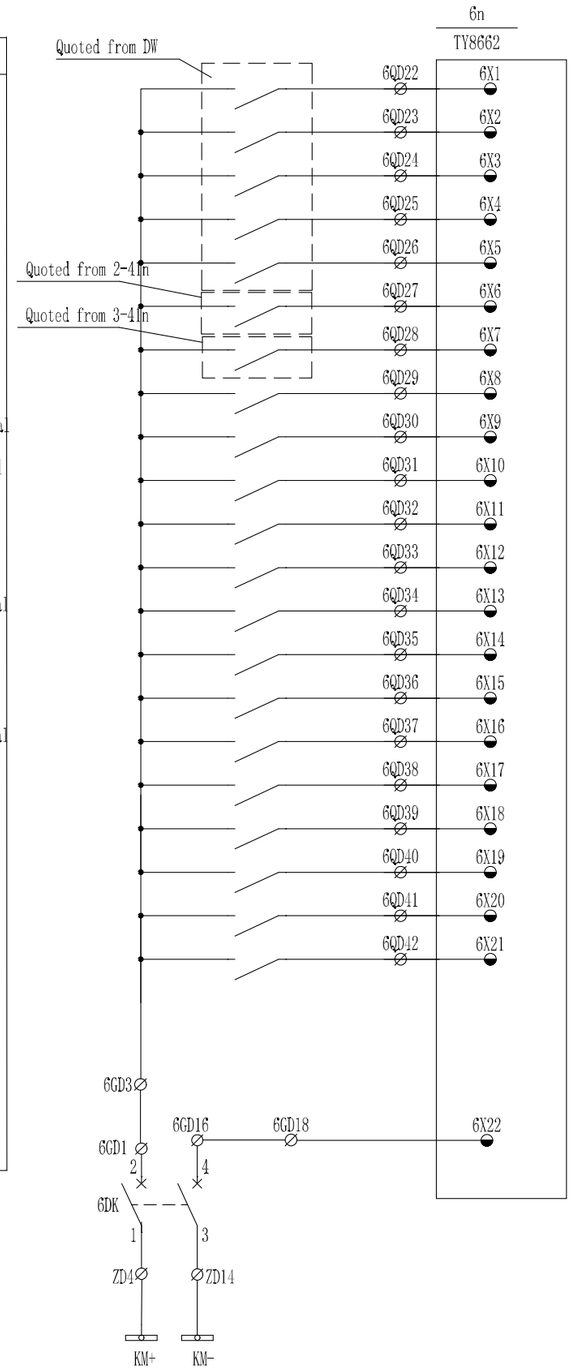
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DC Schematic
ZDY11

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Total 34 pages



DI Module	
DI1	Mechanical heavy gas
DI2	On-load heavy gas
DI3	Ultra-high Temp
DI4	Pressure release
DI5	Mechanical light gas
DI6	On-load light gas
DI7	Oil high temperature
DI8	Oil level anomaly
DI9	41n-Device DC abnormal
DI10	1n-Device DC abnormal
DI11	1n-Action signal
DI12	1n-Alarm signal
DI13	21n-Device DC abnormal
DI14	21n-Action signal
DI15	21n-Alarm signal
DI16	23n-Device DC abnormal
DI17	23n-Action signal
DI18	23n-Alarm signal
DI19	Input
DI20	检修状态
DI21	远方位置
+220VDC	
-220VDC	



DI Module		
DI22	BCD:1	External Digital Input
DI23	BCD:2	
DI24	BCD:4	
DI25	BCD:8	
DI26	BCD:10	
DI27	35kV Side Operating loop disconnection	
DI28	10kV Side Operating loop disconnection	
DI29	Input	
DI30	Input	
DI31	Input	
DI32	Input	
DI33	Input	
DI34	Input	
DI35	Input	
DI36	Input	
DI37	Input	
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DI40	Input	
DI41	Input	
DI42	Input	
+220VDC		
-220VDC		

Drawing Software
AutoCAD

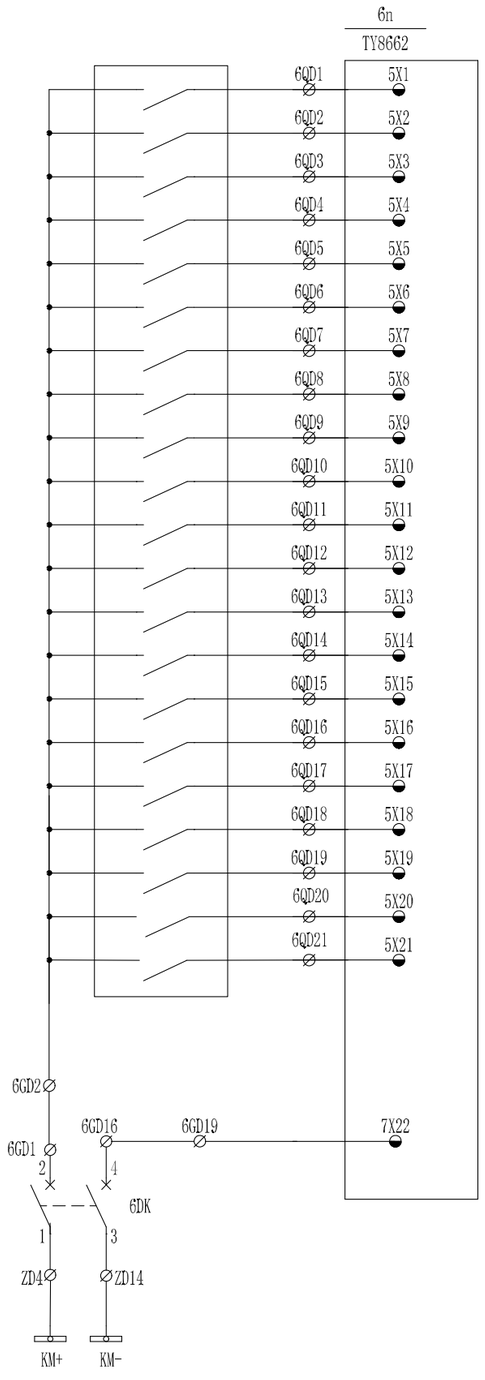
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GTYP8000
1#Transformer protection cabinet

Signal Schematic #1(6n)
ZDY12



DI Module		
DI43	Input	External Digital Input
DI44	Input	
DI45	Input	
DI46	Input	
DI47	Input	
DI48	Input	
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DI60	Input	
DI61	Input	
DI62	Input	
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+220VDC		
-220VDC		

Drawing Software
AutoCAD

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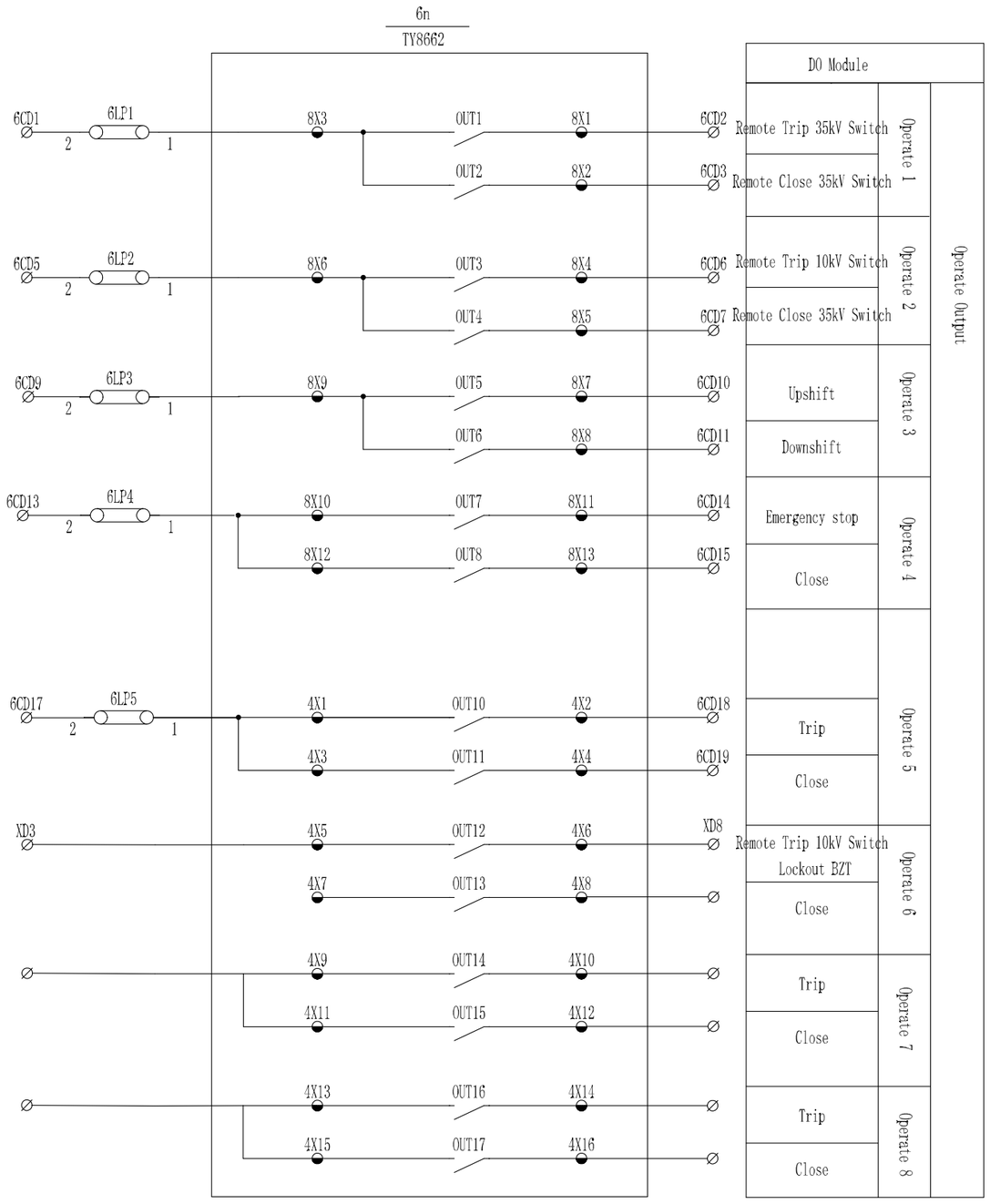
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GTYP8000
1#Transformer protection cabinet

Signal Schematic #2(6n)
ZDY13

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GTYP8000
1#Transformer protection cabinet

Connection point schematic(6n)
ZDY14

1n
TYT8691

Trip 35kV Switch	401	1CD1	DI COM-	301	1QD9
	402	1LP2:2	Mechanical heavy gas trip	302	1QD11
Trip Bus coupler Switch	403	1CD21	On-load heavy gas trip	303	1QD12
	404	1LP4:2	Mechanical light gas alarm	304	1QD13
Trip 10kV Switch	405	1CD11	On-load light gas alarm	305	1QD14
	406	1LP3:2	DI power check	306	1QD15
Lockout BZT	407		Enable differential protection	307	1QD16
	408		Protection power loss	308	1QD17
Standby output2	409		Pressure release signal	309	1QD18
	410		Oil high temperature signal	310	1QD19
Standby output3	411		Ultra-high Temp signal	311	1QD20
	412		Oil level anomaly signal	312	1QD21
	413		Non-electricity protection 10	313	1QD22
	414		Non-electricity protection 11	314	1QD23
	415		Non-electricity protection 12	315	1QD24
	416		Repair status	316	1QD25
	417		RS485A	317	
	418		RS485B	318	
	419		IRIG-B+	319	TD1
	420		IRIG-B-	320	TD5
Device DC abnormal	421	1YD6			
COM	422	1YD1			
Action signal	423	1YD4			
Alarm signal	424	1YD5			

L/+	201	1QD2		205	
L/-	202	1QD8		206	
	203			207	
Gound	204			208	
				209	
				210	

1ID1	101	HIa*	HIa	102	1ID4	
1ID2	103	HIb*	HIb	104	1ID5	
1ID3	105	HIc*	HIc	106	1ID6	
	107	MIa*	MIa	108		
	109	MIb*	MIb	110		
	111	MIc*	MIc	112		
1ID8	113	LIa*	LIa	114	1ID11	
1ID9	115	LIb*	LIb	116	1ID12	
1ID10	117	LIc*	LIc	118	1ID13	
	119			120		

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GTYP8000
1#Transformer protection cabinet

Backplane terminal wiring diagram(1n)
ZDY15

21n
TYT8692

Trip 35kV Side Bus coupler Switch	401	21CD13	
	402	21LP3:2	
Trip 35kV Switch	403	21CD1	
	404	21LP1:2	
Trip 10kV Switch	405	21CD7	
	406	21LP2:2	
Lockout BZT	407		
	408		
Complex-voltage Trip	409	21CD19	
	410	21CD20	
Complex-voltage Trip	411		
	412		
COM	413	21CD22	
	414		
Start ventilation	415	21LP4:2	
	416		
COM	417	21CD25	
Pressure Lockout	418	21LP5:2	
	419		
	420		
Device DC abnormal	421	21YD6	
COM	422	21YD1	
Action signal	423	21YD4	
Alarm signal	424	21YD5	

	DI COM-	301	21QD9
	Input 1	302	21QD11
Hand tripping and locking		303	21QD12
	Input 3	304	21QD13
	Input 4	305	21QD14
Complex-voltage DI		306	21QD15
	Input 6	307	21QD16
Input ZOC current		308	21QD17
	Input 8	309	21QD18
Remote Operation		310	21QD19
	Input 10	311	21QD20
Grounding Swith Position		312	21QD21
	Input 12	313	21QD22
	Input 13	314	21QD23
	Input 14	315	21QD24
	Repair status	316	21QD25
#	RS485A	317	
#	RS485B	318	
#	IRIG-B+	319	TD2
#	IRIG-B-	320	TD6

L+	201	21QD2
L-	202	21QD8
	203	
Gound	204	

Ua	205	21ZKK:2			
Ub	206	21ZKK:4			
Uc	207	21ZKK:6			
Un	208	6U1D10			
Uo	209				
Uon	210				

21ID1	101	Pla*	Pla	102	21ID4
21ID2	103	Plb*	Plb	104	21ID5
21ID3	105	Plc*	Plc	106	21ID6
	107	Mla*	Mla	108	
	109	Mlb*	Mlb	110	
	111	Mlc*	Mlc	112	
21ID9	113	Io*	Io	114	21ID10
21ID11	115	Iojx*	Iojx	116	21ID12
	117			118	
	119			120	

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GTYP8000
1#Transformer protection cabinet

Backplane terminal wiring diagram(21n)
ZDY16

23n
TYT8692

Trip 10kV Side Bus coupler Switch	401	23CD13
	402	23LP3:2
Trip 10kV Switch	403	23CD7
	404	23LP2:2
Trip 35kV Switch	405	23CD1
	406	23LP1:2
Lockout BZT	407	
	408	
Complex-voltage Trip	409	23CD19
	410	23CD20
Complex-voltage Trip	411	
	412	
COM	413	
	414	
Start ventilation	415	
	416	
COM	417	
Pressure Lockout	418	
	419	
	420	
Device DC abnormal	421	23YD6
COM	422	23YD1
Action signal	423	23YD4
Alarm signal	424	23YD5

DI COM-	301	23QD9
Input 1	302	23QD11
Hand tripping and locking	303	23QD12
Input 3	304	23QD13
Input 4	305	23QD14
Complex-voltage DI	306	23QD15
Input 6	307	23QD16
Input 7	308	23QD17
Input 8	309	23QD18
Remote Operation	310	23QD19
Input 10	311	23QD20
Input 11	312	23QD21
Input 12	313	23QD22
Input 13	314	23QD23
Input 14	315	23QD24
Repair status	316	23QD25
# RS485A	317	
# RS485B	318	
# IRIG-B+	319	TD3
# IRIG-B-	320	TD7

L+	201	23QD2
L-	202	23QD8
	203	
Gound	204	
Ua	205	23ZKK:2
Ub	206	23ZKK:4
Uc	207	23ZKK:6
Un	208	6U2D8
Uo	209	
Uon	210	

23ID1	101	PIa*	PIa	102	23ID4
23ID2	103	PIb*	PIb	104	23ID5
23ID3	105	PIc*	PIc	106	23ID6
	107	MIa*	MIa	108	
	109	MIb*	MIb	110	
	111	MIc*	MIc	112	
23ID9	113	Io*	Io	114	23ID10
	115	Iojx*	Iojx	116	
	117			118	
	119			120	

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GTYP8000
1#Transformer protection cabinet

Backplane terminal wiring diagram(23n)
ZDY17

41n
TYT8691F

Operating power+	401	3-41QD2	Operating power+	301	2-41QD2	Non-electricity power+	201	1-41FD2		101					
Operating power+	402		Operating power+	302		Mechanical heavy gas input	202	41LP1:2		102					
Operating power+	403		Operating power+	303		On-load heavy gas input	203	41LP2:2		103					
Closing input	404	3-41QD12	Closing input	304	2-41QD12	Ultra-high Temp signal	204	41LP3:2		104					
Closing input	405	3-41QD8	Closing input	305	2-41QD8	Pressure release signal	205	41LP4:2		105					
Tripping input	406	3-41QD19	Tripping input	306	2-41QD19		206			106					
Tripping input	407	3-41QD16	Tripping input	307	2-41QD16	Mechanical light gas input	207	1-41FD11	Non-electricity trip 35kV switch	107	1-41CD1				
To closing coils	408	3-41KD4	To closing coils	308	2-41KD4	On-load light gas input	208	1-41FD12		108	41LP5:2				
To closing coils	409		To closing coils	309		Oil high temperature signal	209	1-41FD13	Non-electricity trip 10kV switch	109	1-41CD9				
TWJ-	410	3-41KD5	TWJ-	310	2-41KD5	Oil level anomaly signal	210	1-41FD14		110	41LP6:2				
HWJ-	411	3-41KD2	HWJ-	311	2-41KD2		211		Non-electricity tripping output 3	111	1-41CD17				
To tripping coils	412		To tripping coils	312		Remote reset	212	1-41FD15		112	1-41CD19				
To tripping coils	413	3-41KD1	To tripping coils	313	2-41KD1		213		Lockout BZT	113					
Operating power-	414	3-41QD24	Operating power-	314	2-41QD24		214			114					
	415			315		Signal COM	215	1-41YD1	Non-electricity tripping output 3	115					
	416			316		Mechanical heavy gas signal	216	1-41YD5		116					
	417			317		On-load heavy gas signal	217	1-41YD6		117					
	418			318		Ultra-high Temp signal	218	1-41YD7		118					
TWJ	419	3-41KD10	TWJ	319	2-41KD10	Pressure release signal	219	1-41YD8	Device DC abnormal	119	1-41YD2				
	420	3-41KD7		320	2-41KD7	Mechanical light gas signal	220	1-41YD9		120	1-41YD14				
HWJ	421	3-41KD11	HWJ	321	2-41KD11	On-load light gas signal	221	1-41YD10		121					
	422	3-41KD8		322	2-41KD8	Oil high temperature signal	222	1-41YD11		122					
Operating loop disconnection	423	3-41KD13	Operating loop disconnection	323	2-41KD13	Oil level anomaly signal	223	1-41YD12		123					
	424	3-41KD14		324	2-41KD14	Non-electricity power+	224	1-41FD17		124					

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GTYP8000
1#Transformer protection cabinet

Backplane terminal wiring diagram(41n)
ZDY18

6n

TY8662

DO&POWER 8X

Remote Trip 35kV Switch	1	6CD2	
Remote Close 35kV Switch	2	6CD3	
COM 1	3	6LP1:1	
Remote Trip 10kV Switch	4	6CD6	
Remote Close 10kV Switch	5	6CD7	
COM 2	6	6LP2:1	
Upshift	7	6CD10	
Downshift	8	6CD11	
COM 3	9	6LP3:1	
Emergency stop	10	6LP4:1	
	11	6CD14	
Remote Closing 4	12		
	13	6CD15	
Alarm signal	14	6YD1	
	15	6YD3	
Device DC abnormal	16	6YD2	
	17	6YD4	
Device Power+	18	6GD5	
Device Power-	19	6GD20	
Gound	20		

DI1 7X

Mechanical heavy gas	1	6QD1
On-load heavy gas	2	6QD2
Ultra-high Temp	3	6QD3
Pressure release	4	6QD4
Mechanical light gas	5	6QD5
On-load light gas	6	6QD6
Oil high temperature	7	6QD7
Oil level anomaly	8	6QD8
4In-Device DC abnormal	9	6QD9
1n-Device DC abnormal	10	6QD10
1n-Action signal	11	6QD11
1n-Alarm signal	12	6QD12
2In-Device DC abnormal	13	6QD13
2In-Action signal	14	6QD14
2In-Alarm signal	15	6QD15
23n-Device DC abnormal	16	6QD16
23n-Action signal	17	6QD17
23n-Alarm signal	18	6QD18
Input 19	19	6QD19
Repair status	20	6QD20
Remote Operation	21	6QD21
Input COM	22	6GD17

DI2 6X

BCD:1	1	6QD22
BCD:2	2	6QD23
BCD:4	3	6QD24
BCD:8	4	6QD25
BCD:10	5	6QD26
35kV Side Operating loop disconnection	6	6QD27
10kV Side Operating loop disconnection	7	6QD28
Input 29	8	6QD29
Input 30	9	6QD30
Input 31	10	6QD31
Input 32	11	6QD32
Input 33	12	6QD33
Input 34	13	6QD34
Input 35	14	6QD35
Input 36	15	6QD36
Input 37	16	6QD37
Input 38	17	6QD38
Input 39	18	6QD39
Input 40	19	6QD40
Input 41	20	6QD41
Input 42	21	6QD42
Input COM	22	6GD18

DI3 5X

Input 43	1	6QD43
Input 44	2	6QD44
Input 45	3	6QD45
Input 46	4	6QD46
Input 47	5	6QD47
Input 48	6	6QD48
Input 49	7	6QD49
Input 50	8	6QD50
Input 51	9	6QD51
Input 52	10	6QD52
Input 53	11	6QD53
Input 54	12	6QD54
Input 55	13	6QD55
Input 56	14	6QD56
Input 57	15	6QD57
Input 58	16	6QD58
Input 59	17	6QD59
Input 60	18	6QD60
Input 61	19	6QD61
Input 62	20	6QD62
Input 63	21	6QD63
Input COM	22	6GD19

DO2 4X

Remote tripping 5	1	6LP5:1
	2	6CD18
Remote Closing 5	3	
	4	6CD19
Remote tripping 6	5	
	6	
Remote Closing 6	7	
	8	
Remote tripping 7	9	
	10	
Remote Closing 7	11	
	12	
Remote tripping 8	13	
	14	
Remote Closing 8	15	
	16	
COM 9	17	
Remote tripping 9	18	
Remote Closing 9	19	
	20	
	21	
	22	

CPU 3X

Ethernet1

Ethernet2

TEMP 1+	1	6WD1
TEMP 1-	2	6WD2
TEMP 2+	3	6WD4
TEMP 2-	4	6WD5
TEMP 3+	5	
TEMP 3-	6	
DC1+	7	6WD7
DC1-	8	6WD8
DC2+	9	6WD10
DC2-	10	6WD11
DC3+	11	
DC3-	12	
RS-485A	13	
RS-485B	14	
IRIG-B+	15	TD4 #
IRIG-B-	16	TD8 #

AC 1X

6I1D4	02	Ia1	Ia1*	01	6I1D1
6I1D5	04	Ib1	Ib1*	03	6I1D2
6I1D6	06	Ic1	Ic1*	05	6I1D3
6I2D4	08	Ia2	Ia2*	07	6I2D1
6I2D5	10	Ib2	Ib2*	09	6I2D2
6I2D6	12	Ic2	Ic2*	11	6I2D3
6U1D9	14	U01	U01n	13	6U1D11
6U2D9	16	U02	U02n	15	6U2D11
6ZKK1:2	18	UA1	UB1	17	6ZKK1:4
6ZKK1:6	20	UC1	UN1	19	6U1D7
6ZKK2:2	22	UA2	UB2	21	6ZKK2:4
6ZKK2:6	24	UC2	UN2	23	6U2D7

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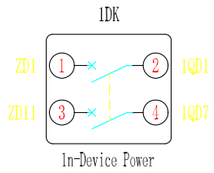
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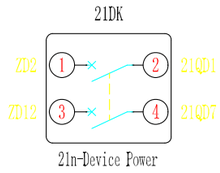
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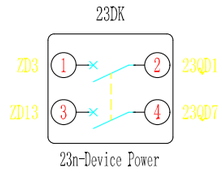
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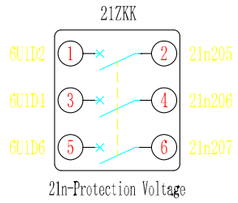
Backplane terminal wiring diagram(6n)

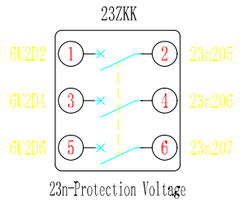
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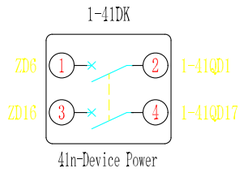


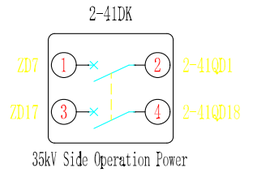


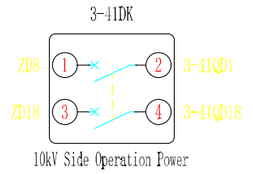


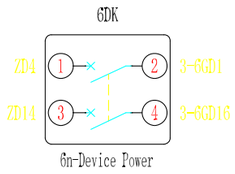


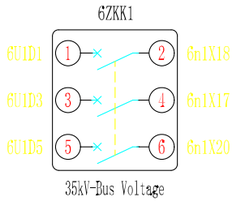


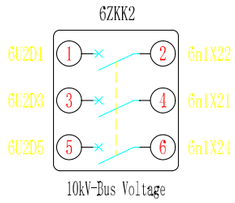


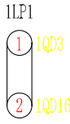


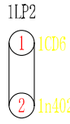


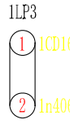


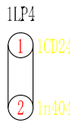


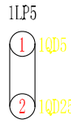


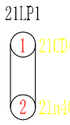


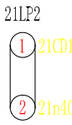


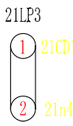


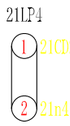


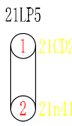


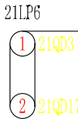


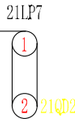


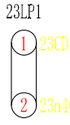


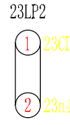


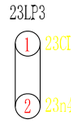


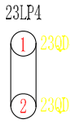


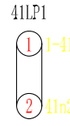


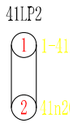


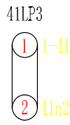


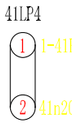


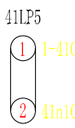


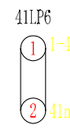


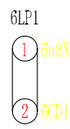


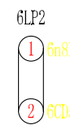


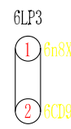


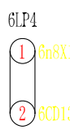


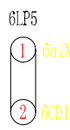




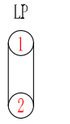












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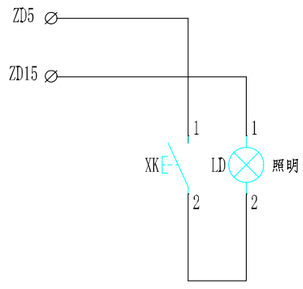
GTYP8000
1#Transformer protection cabinet

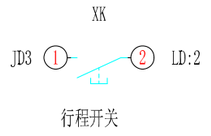
Wiring diagram #1
ZDY20

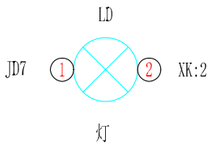
Page 23
Total 34 pages

	ZD		DC power supply
1DK:1	1		DC+
21DK:1	2		
23DK:1	3		
6DK:1	4		
XK:1	5		
1-41DK:1	6		DC+
2-41DK:1	7		
3-41DK:1	8		
	9		
	10		
1DK:3	11		DC-
21DK:3	12		
23DK:3	13		
6DK:3	14		
LD:1	15		
1-41DK:3	16		DC-
2-41DK:3	17		
3-41DK:3	18		
	19		
	20		

	TD		B code time synchronization
1n319	1		IRIG-B+
21n319	2		
23n319	3		
6n3X15	4		
1n320	5		IRIG-B-
21n320	6		
23n320	7		
6n3X16	8		







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Wiring diagram #2
ZDY15

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Total 34 pages

	1TD			AC current input
1n101		1		35kV Side Ia1
1n103		2		Ib1
1n105		3		Ic1
1n102		4		Ia1'
1n104		5		Ib1'
1n106		6		Ic1'
JDP1		7		In1
1n113		8		10kV Side Ia3
1n115		9		Ib3
1n117		10		Ic3
1n114		11		Ia3'
1n116		12		Ib3'
1n118		13		Ic3'
JDP1		14		In3

	1QD			HV Analog Input
1DK:2		1		Device Power DC+
1n201		2		DI COM
1LP1:1		3		
1QD15		4		
1LP5:1		5		
		6		
1DK:4		7		Device Power DC-
1n202		8		
1n301		9		
		10		
1n302		11		Mechanical heavy gas trip
1n303		12		On-load heavy gas trip
1n304		13		Mechanical light gas alarm
1n305		14		On-load light gas alarm
1n306	1QD4	15		DI power check
1n307	1LP1:2	16		Enable differential protection
1n308		17		Protection power loss
1n309		18		Pressure release signal
1n310		19		Oil high temperature signal
1n311		20		Ultra-high Temp signal
1n312		21		Oil level anomaly signal
1n313		22		Non-electricity protection 10
1n314		23		Non-electricity protection 11
1n315		24		Non-electricity protection 12
1n316	1LP5:2	25		Repair status

	1CD			Trip
1n401		1		Trip HV side switch +
21CD2		2		
23CD2		3		
1-41CD2		4		
		5		
1LP2:1		6		Trip HV side switch -
21CD5		7		
23CD5		8		
1-41CD6		9		
		10		
1n405		11		Trip LV side switch +
21CD8		12		
23CD8		13		
1-41CD10		14		
		15		
1LP3:1		16		Trip LV side switch -
21CD11		17		
23CD11		18		
1-41CD14		19		
		20		
1n403		21		Trip Bus coupler+
		22		
		23		
1LP4:1		24		Trip Bus coupler-
		25		

	1YD			Signal
1n422	6GD6	1		COM
		2		
		3		
1n423	6QD10	4		Action signal
1n424	6QD11	5		Alarm signal
1n421	6QD12	6		Device DC abnormal

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Wiring Terminal Diagram(1n)
ZDY16

21ID			HV side AC current input
21n101	1		Protection Current Ia1
21n103	2		Ib1
21n105	3		Ic1
21n102	4		Ia1'
21n104	5		Ib1'
21n106	6		Ic1'
1DP1	7		In1
	8		
21n113	9		Zero sequence I0
21n114	10		I0'
21n115	11		Gap zero flow I0JX
21n116	12		I0JX'

21QD			HV Analog Input
21DK:2	1		Device Power DC+
21n201	2		DI COM
21LP6:1	3		
23CD19	4		
21SA:7	5		
	6		
21DK:4	7		Device Power DC-
21n202	8		
21n301	9		
	10		
21n302	11		Input 1
21n303 21SA:8	12		Hand tripping and locking
21n304	13		Input 3
21n305	14		Input 4
21n306 23CD20	15		Complex-voltage DI
21n307	16		Input 6
21n308 21LP6:2	17		Input ZOC current
21n309	18		Input 8
21n310	19		Remote Operation
21n311	20		Input 10
21n312	21		Grounding Swith Position
21n313	22		Input 12
21n314	23		Input 13
21n315	24		Input 14
21n316 21LP7:2	25		Repair status

21CD				Trip
21n403	1			Trip 35kV Switch+
1CD2	2			
	3			
21LP1:1	4			Trip 35kV Switch-
1CD7	5			
	6			
21n405	7			Trip 10kV Switch+
1CD12	8			
	9			
21LP2:1	10			Trip 10kV Switch-
1CD17	11			
	12			
21n401	13			Trip Bus coupler Switch+
	14			
	15			
21LP3:1	16			Trip Bus coupler Switch-
	17			
	18			
21n409	19		23QD3	Complex-voltage Trip+
21n410	20		23QD15	Complex-voltage Trip-
	21			
21n413	22			Start ventilation+
21LP4:1	23			Start ventilation-
	24			
21n417	25			Pressure Lockout+
21LP5:1	26			Pressure Lockout-
	27			

21YD				Signal
21n422 6GD7	1			COM
	2			
	3			
21n423 6QD13	4			Action signal
21n424 6QD14	5			Alarm signal
21n421 6QD15	6			Device DC abnormal

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Wiring Terminal Diagram(21n)
ZDY17

23ID				低压侧电流
	1	23n101	Protection Current	Ia1
	2	23n103		Ib1
	3	23n105		Ic1
	4	23n102		Ia1'
	5	23n104		Ib1'
	6	23n106		Ic1'
JDP1	7			In1
	8			
	9	23n113	Zero sequence	I0
	10	23n114		I0'

23QD				HV Analog Input
	1	23DK:2		Device Power DC+
	2	23n201		DI COM
	3	21CD19		
	4	23LP4:1		
	5	23SA:7		
	6			
	7	23DK:4		Device Power DC+
	8	23n202		
	9	23n301		
	10			
	11	23n302		Input 1
	12	23n303	23SA:8	Hand tripping and locking
	13	23n304		Input 3
	14	23n305		Input 4
	15	23n306	21CD20	Complex-voltage DI
	16	23n307		Input 6
	17	23n308		Input ZOC current
	18	23n309		Input 8
	19	23n310		Remote Operation
	20	23n311		Input 10
	21	23n312		Input 11
	22	23n313		Input 12
	23	23n314		Input 13
	24	23n315		Input 14
	25	23n316	23LP4:2	Repair status

23CD				Trip
	1	23n405		Trip 35kV Switch+
	2	1CD3		
	3			
	4	23LP1:1		Trip 35kV Switch-
	5	1CD8		
	6			
	7	23n403		Trip 10kV Switch+
	8	1CD13		
	9			
	10	23LP2:1		Trip 10kV Switch-
	11	1CD18		
	12			
	13	23n401		Trip Bus coupler Switch+
	14			
	15			
	16	23LP3:1		Trip Bus coupler Switch-
	17			
	18			
	19	23n409	21QD4	Complex-voltage Trip+
	20	23n410	21QD15	Complex-voltage Trip-

23YD				Signal
	1	23n422	6GD8	COM
	2			
	3			
	4	23n423	6QD16	Action signal
	5	23n424	6QD17	Alarm signal
	6	23n421	6QD18	Device DC abnormal

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Wiring Terminal Diagram(23n)
ZDY18

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1-41FD			HV Analog Input
	1	1-41DK:2	Device Power DC+
	2	41n201	DI COM
	3		
	4		
	5		
	6		
	7	1-41LP1:1	Mechanical heavy gas input
	8	1-41LP2:1	On-load heavy gas input
	9	1-41LP3:1	Ultra-high Temp signal
	10	1-41LP4:1	Pressure release signal
	11	41n207	Mechanical light gas input
	12	41n208	On-load light gas input
	13	41n209	Oil high temperature signal
	14	41n210	Oil level anomaly signal
	15	41n212	Remote reset
	16		
	17	1-41DK:4	Device Power DC-
	18	41n224	

1-41CD			Trip
	1	41n107	Trip 35kV Switch+
	2	1CD4	
	3	2-41QD3	
	4		
	5	1-41LP5:1	Trip 35kV Switch-
	6	1CD9	
	7	2-41QD21	
	8		
	9	41n109	Trip 10kV Switch+
	10	1CD14	
	11	3-41QD3	
	12		
	13	1-41LP6:1	Trip 10kV Switch-
	14	1CD19	
	15	3-41QD21	
	16		
	17	41n111	Tripping output3 +
	18		
	19	41n112	Tripping output3 -

1-41YD				Signal
	1	41n215		COM
	2	41n119		
	3	6GD3		
	4			
	5	41n216	6QD1	Mechanical heavy gas signal
	6	41n217	6QD2	On-load heavy gas signal
	7	41n218	6QD3	Ultra-high Temp signal
	8	41n219	6QD4	Pressure release signal
	9	41n220	6QD5	Mechanical light gas signal
	10	41n221	6QD6	On-load light gas signal
	11	41n222	6QD7	Oil high temperature signal
	12	41n222	6QD8	Oil level anomaly signal
	13			
	14	41n120	6QD9	Device DC abnormal

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Wiring Terminal Diagram #1(41n)
ZDY19

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2-41QD 35kV Switch operation circuit

	1	2-41DK:2	Operation Power+
	2	41n301	
	3	1-41CD3	
	4	21SA:C+	
	5	WF1:1	
	6	6CD1	
	7		
	8	41n305	Closing input
	9	21SA:2	
	10		
	11	21SA:17 6CD3	Remote closing
	12	41n304	
	13	21SA:18	
	14		
	15	21SA:19 6CD2	Remote tripping
	16	41n307	
	17	21SA:20	
	18		
	19	41n306	Tripping input
	20	21SA:4	
	21	1-41CD7	
	22		
	23	2-41DK:4	Operation Power-
	24	41n314	
	25	2-41KD9	
	26		
	27	21SA:21	Remote Operation
	28	21SA:22	Remote Operation

2-41KD 35kV Switch operation circuit outlet

	1	41n313	To tripping coils
	2	41n311	HWJ-
	3		
	4	41n308	To closing coils
	5	41n310	TWJ-
	6		
	7	41n320	Common terminal
	8	41n322	
	9	2-41QD25	
	10	41n319 21SA:G	CB Open
	11	41n321 21SA:R	CB Close
	12		
	13	41n323 6GD9	Operating loop disconnection
	14	41n324 6QD27	Operating loop disconnection

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Wiring Terminal Diagram #2(41n)
ZDY20

3-41QD		10kV Switch operation circuit	
	1	3-41DK:2	Operation Power+
	2	41n401	
	3	1-41CD11	
	4	23SA:C+	
	5	WF2:1	
	6	6CD5	
	7		
	8	41n405	Closing input
	9	23SA:2	
	10		
	11	23SA:17 6CD7	Remote closing
	12	41n404	
	13	23SA:18	
	14		
	15	23SA:19 6CD6	Remote tripping
	16	41n407	
	17	23SA:20	
	18		
	19	41n406	Tripping input
	20	23SA:4	
	21	1-41CD15	
	22		
	23	3-41DK:4	Operation Power-
	24	41n414	
	25	3-41KD9	
	26		
	27	23SA:21	Remote Operation
	28	23SA:22	Remote Operation

3-41KD		10kV Switch operation circuit outlet	
	1	41n413	To tripping coils
	2	41n411	HWJ-
	3		
	4	41n408	To closing coils
	5	41n410	TWJ-
	6		
	7	41n420	Common terminal
	8	41n422	
	9	3-41QD25	
	10	41n419 23SA:G	CB Open
	11	41n421 23SA:R	CB Close
	12		
	13	41n423 6GD10	Operating loop disconnection
	14	41n424 6QD28	Operating loop disconnection

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Wiring Terminal Diagram #3(41n)
ZDY15

6I1D			35kV Side Measuring Current
6n1X1	1	Measuring Current	Ia1
6n1X3	2		Ib1
6n1X5	3		Ic1
6n1X2	4		Ia1'
6n1X4	5		Ib1'
6n1X6	6		Ic1'
JDP1	7		In1

6I2D			10kV Side Measuring Current
	1	6n1X7 Measuring Current	Ia2
	2	6n1X9	Ib2
	3	6n1X11	Ic2
	4	6n1X8	Ia2'
	5	6n1X10	Ib2'
	6	6n1X12	Ic2'
JDP1	7		In2

6U1D			35kV bus voltage
6ZKK1:1	1		1YMA
21ZKK:1	2		
6ZKK1:3	3		1YMB
21ZKK:3	4		
6ZKK1:5	5		1YMC
21ZKK:5	6		
6n1X19	7		1YMN
21n208	8		
6n1X14	9		1YML
	10		
6n1X13	11		1YMLn
	12		

6U2D			10kV bus voltage
	1	6ZKK2:1	1YMa
	2	23ZKK:1	
	3	6ZKK2:3	1YMb
	4	23ZKK:3	
	5	6ZKK2:5	1YMc
	6	23ZKK:5	
	7	6n1X23	1YMn
	8	23n208	
	9	6n1X16	1YML'
	10		
	11	6n1X15	1YMLn'
	12		

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Wiring Terminal Diagram #1(6n)
ZDY16

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Total 34 pages

6GD				Signaling common
6DK2:2	1			Signaling+
6LP6:1	2			
1-41YD3	3			
	4			
6n8X18	5			
1YD1	6			
21YD1	7			
23YD1	8			
2-41KD13	9			
3-41KD13	10			
	11			
	12			
	13			
	14			
	15			
6DK2:4	16			Signaling-
6n7X22	17			
6n6X22	18			
6n5X22	19			
6n8X19	20			

6CD				Remote control export
6LP1:2	2-41QD6	1		COM1
6n8X1	2-41QD15	2		Remote Trip 35kV Switch
6n8X2	2-41QD11	3		Remote Close 35kV Switch
		4		
6LP2:2	3-41QD6	5		COM2
6n8X4	3-41QD15	6		Remote Trip 10kV Switch
6n8X5	3-41QD11	7		Remote Close 10kV Switch
		8		
6LP3:2		9		COM3
6n8X7		10		Upshift
6n8X8		11		Downshift
		12		
6LP4:2		13		COM4
6n8X11		14		Emergency stop
6n8X13		15		Remote Closing 4
		16		
6LP5:2		17		COM5
6n4X2		18		Remote tripping 5
6n4X4		19		Remote Closing 5

6QD				HV Analog Input
6n7X1	1-41YD5	1		Mechanical heavy gas
6n7X2	1-41YD6	2		On-load heavy gas
6n7X3	1-41YD7	3		Ultra-high Temp
6n7X4	1-41YD8	4		Pressure release
6n7X5	1-41YD9	5		Mechanical light gas
6n7X6	1-41YD10	6		On-load light gas
6n7X7	1-41YD11	7		Oil high temperature
6n7X8	1-41YD12	8		Oil level anomaly
6n7X9	1-41YD14	9		41n-Device DC abnormal
6n7X10	1YD4	10		1n-Device DC abnormal
6n7X11	1YD5	11		1n-Action signal
6n7X12	1YD6	12		1n-Alarm signal
6n7X13	21YD4	13		21n-Device DC abnormal
6n7X14	21YD5	14		21n-Action signal
6n7X15	21YD6	15		21n-Alarm signal
6n7X16	23YD4	16		23n-Device DC abnormal
6n7X17	23YD5	17		23n-Action signal
6n7X18	23YD6	18		23n-Alarm signal
6n7X19		19		DI19
6n7X20	6LP6:2	20		Repair status
6n7X21	6LP7:2	21		Remote Operation
6n6X1		22		BCD:1
6n6X2		23		BCD:2
6n6X3		24		BCD:4
6n6X4		25		BCD:8
6n6X5		26		BCD:10
6n6X6	2-41KD14	27		35kV Side Operating loop disconnection
6n6X7	3-41KD14	28		10kV Side Operating loop disconnection
6n6X8		29		DI29
6n6X9		30		DI30
6n6X10		31		DI31
6n6X11		32		DI32
6n6X12		33		DI33
6n6X13		34		DI34
6n6X14		35		DI35
6n6X15		36		DI36
6n6X16		37		DI37
6n6X17		38		DI38
6n6X18		39		DI39
6n6X19		40		DI40
6n6X20		41		DI41
6n6X21		42		DI42
6n5X1		43		DI43
6n5X2		44		DI44
6n5X3		45		DI45
6n5X4		46		DI46
6n5X5		47		DI47
6n5X6		48		DI48

Connect to 6QD -48				HV Analog Input
6n5X7	49			DI49
6n5X8	50			DI50
6n5X9	51			DI51
6n5X10	52			DI52
6n5X11	53			DI53
6n5X12	54			DI54
6n5X13	55			DI55
6n5X14	56			DI56
6n5X15	57			DI57
6n5X16	58			DI58
6n5X17	59			DI59
6n5X18	60			DI60
6n5X19	61			DI61
6n5X20	62			DI62
6n5X21	63			DI63

6WD				DC temperature measurement
6n3X1	1			DR1(Pt100)
6n3X2	2			DR1(Pt100)
	3			
6n3X3	4			DR2(Pt100)
6n3X4	5			DR2(Pt100)
	6			
6n3X7	7			4-20mA(1)
6n3X8	8			4-20mA(1)
	9			
6n3X9	10			4-20mA(2)
6n3X10	11			4-20mA(2)
	12			
WK1:1	13			TEMP1: R1+
WK1:2	14			R1-
WK1:3	15			R1-
	16			
WK2:1	17			TEMP2: R2+
WK2:2	18			R2-
WK2:3	19			R2-

6YD				Signal
6n8X14	1			COM
6n8X16	2			
	3			
6n8X15	4			Alarm signal
6n8X17	5			Device DC abnormal

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Wiring Terminal Diagram #2(6n)
ZDY17