



JSC "Energo-Pro Georgia"

Phone.

F26\_001

Company / customer  
Project description  
Job number  
Commission

EPG2016\_6

Manufacturer (company) JSC "Energo-Pro Georgia"

Path

Project name Tetrtskaro\_110-10

make

Type

Place of installation

Responsible for project Vlastimil Cada

Part feature

Created on 23.08.2015

Edit date 27.03.2017 by (short name) VICa Vlastimil Cada

Number of pages 39

			Date	27.03.2017			JSC "Energo-Pro Georgia"	Tittle-page			=	
			Ed.	VICa Vlastimil Cada							+	
			Appr									
Modification	Date	Name	Original		Replacement of	Replaced by			EPG2016_6	Page	1	
											Page	39

# Table of contents

Column X: An automatically generated page was edited F06\_001

Page	Page description	supplementary page field	Date	Edited by	X
/1	Tittle-pages		24.03.2017	VCa Vlastimil Cada	
/2	Table of contents : /1 - =110kV+RTU/7		27.03.2017	VCa Vlastimil Cada	
/3	Table of contents : =110kV+RTU/8 - =110kV+RTU/13		27.03.2017	VCa Vlastimil Cada	
/4	Cable overview : WL1000 - WL11004		27.03.2017	VCa Vlastimil Cada	
/5	Cable overview : WL11004 - WS11006		27.03.2017	VCa Vlastimil Cada	
/6	Cable arrangement		27.03.2017	VCa Vlastimil Cada	
=10kV++RTU/1	10kV Single-line diagram 1	4	27.03.2017	VCa Vlastimil Cada	
=10kV++RTU/2	10kV Single-line diagram 2	4	27.03.2017	VCa Vlastimil Cada	
=10kV++RTU/3	10kV RTU Power supply	4	27.03.2017	VCa Vlastimil Cada	
=10kV++RTU/4	10kV RTU Configuration	4	27.03.2017	VCa Vlastimil Cada	
=10kV++RTU/5	10kV RTU Connection terminals	4	27.03.2017	VCa Vlastimil Cada	
=10kV++RTU/6	10kV RTU Comunication connection	4	27.03.2017	VCa Vlastimil Cada	
=10kV++RTU/7	10kV RTU Digital inputs 1/8	4	27.03.2017	VCa Vlastimil Cada	
=10kV++RTU/8	10kV RTU Digital inputs 2/8	4	27.03.2017	VCa Vlastimil Cada	
=10kV++RTU/9	10kV RTU Digital inputs 3/8	4	27.03.2017	VCa Vlastimil Cada	
=10kV++RTU/10	10kV RTU Digital inputs 4/8	4	27.03.2017	VCa Vlastimil Cada	
=10kV++RTU/11	10kV RTU Digital inputs 5/8	4	27.03.2017	VCa Vlastimil Cada	
=10kV++RTU/12	10kV RTU Digital inputs 6/8	4	27.03.2017	VCa Vlastimil Cada	
=10kV++RTU/13	10kV RTU Digital inputs 7/8	4	27.03.2017	VCa Vlastimil Cada	
=10kV++RTU/14	10kV RTU Digital inputs 8/8	4	27.03.2017	VCa Vlastimil Cada	
=10kV++RTU/15	10kV RTU Digital outputs 1/4	4	27.03.2017	VCa Vlastimil Cada	
=10kV++RTU/16	10kV RTU Digital outputs 2/4	4	27.03.2017	VCa Vlastimil Cada	
=10kV++RTU/17	10kV RTU Digital outputs 3/4	4	27.03.2017	VCa Vlastimil Cada	
=10kV++RTU/18	10kV RTU Digital outputs 4/4	4	27.03.2017	VCa Vlastimil Cada	
=10kV++RTU/19	10kV RTU Analog inputs 1/2	4	27.03.2017	VCa Vlastimil Cada	
=10kV++RTU/20	10kV RTU Analog inputs 2/2	4	27.03.2017	VCa Vlastimil Cada	
=110kV+RTU/1	110kV Single-line diagram		27.03.2017	VCa Vlastimil Cada	
=110kV+RTU/2	110kV RTU Configuration	4	27.03.2017	VCa Vlastimil Cada	
=110kV+RTU/3	110kV RTU Power Supply	4	27.03.2017	VCa Vlastimil Cada	
=110kV+RTU/4	110kV RTU Connection terminals 1	4	27.03.2017	VCa Vlastimil Cada	
=110kV+RTU/5	110kV RTU Connection terminals 2	4	27.03.2017	VCa Vlastimil Cada	
=110kV+RTU/6	110kV RTU Comunication connection	4	27.03.2017	VCa Vlastimil Cada	
=110kV+RTU/7	110kV RTU Digital inputs 1/4	4	27.03.2017	VCa Vlastimil Cada	

[illegible]

0

1

2

3

4

5

6

7

8

9

Table of contents

Column X: An automatically generated page was edited

F06\_001

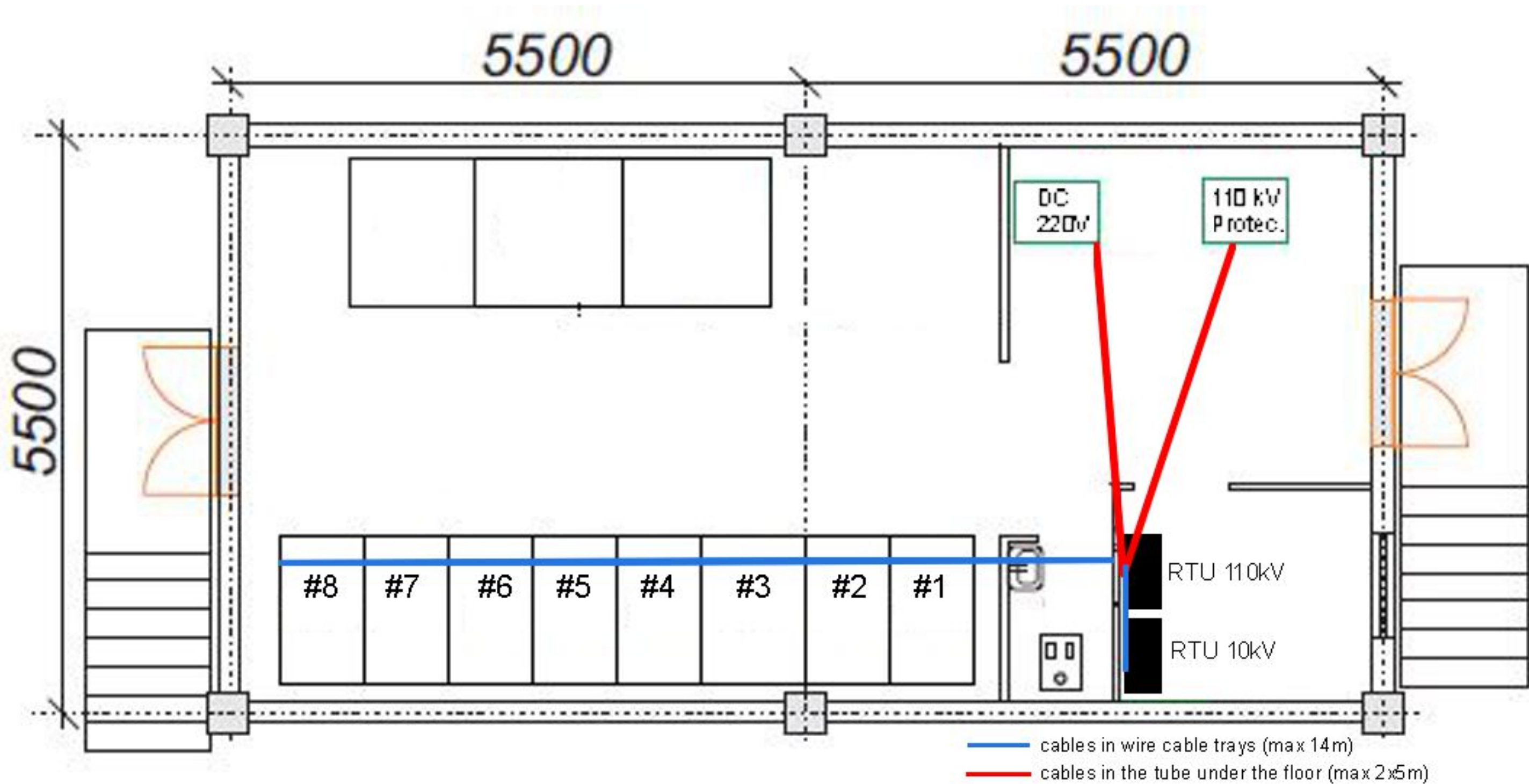
Page	Page description	supplementary page field	Date	Edited by	X
=110kV+RTU/8	110kV RTU Digital inputs 2/4	4	27.03.2017	VI	Ca Vlastimil Cada
=110kV+RTU/9	110kV RTU Digital inputs 3/4	4	27.03.2017	VI	Ca Vlastimil Cada
=110kV+RTU/10	110kV RTU Digital inputs 4/4	4	27.03.2017	VI	Ca Vlastimil Cada
=110kV+RTU/11	110kV RTU Digital outputs 1/2	4	27.03.2017	VI	Ca Vlastimil Cada
=110kV+RTU/12	110kV RTU Digital outputs 2/2	4	27.03.2017	VI	Ca Vlastimil Cada
=110kV+RTU/13	110kV RTU Analog inputs 1/1	4	27.03.2017	VI	Ca Vlastimil Cada
				</	

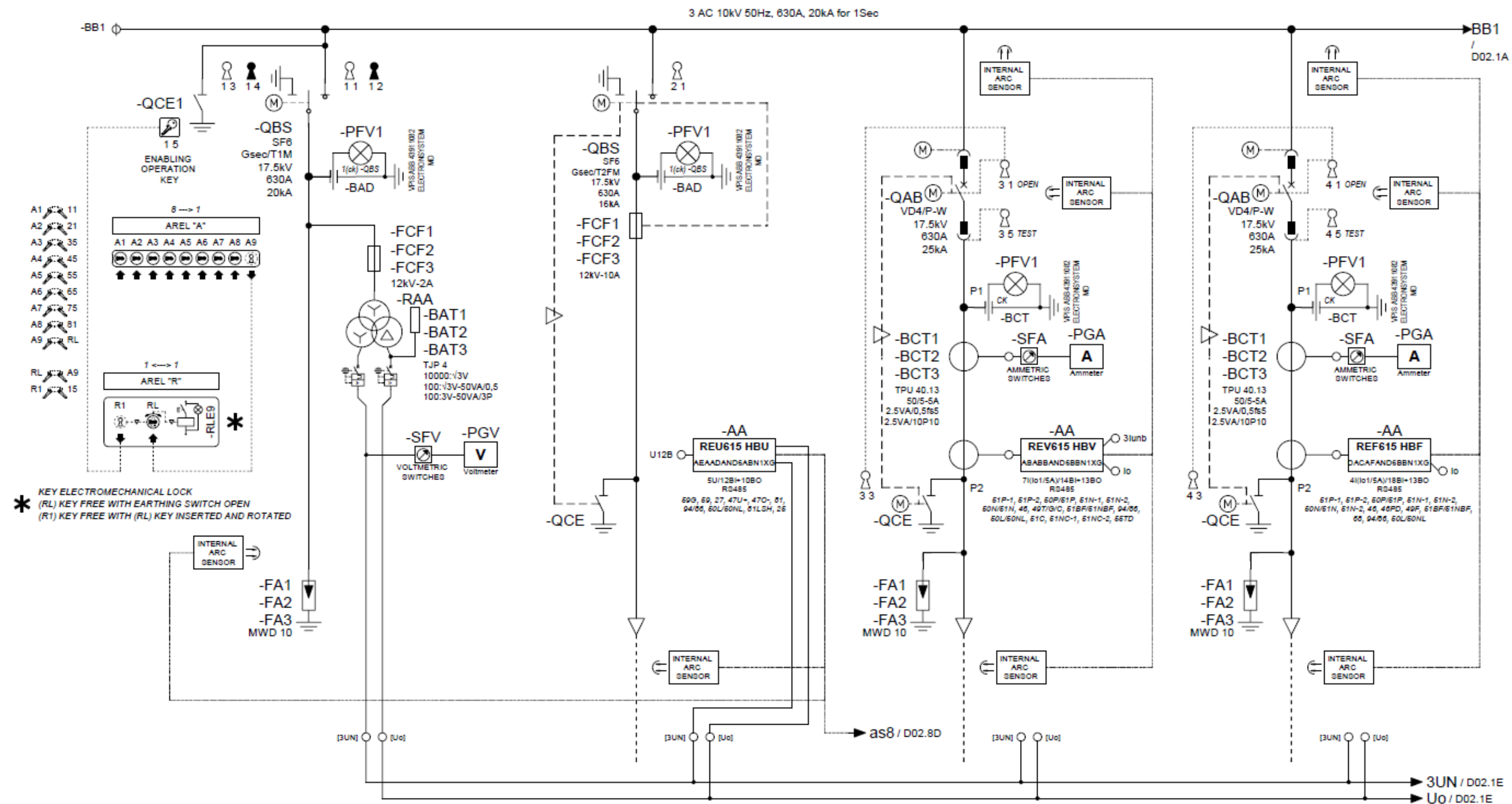
Cable overview

F10\_001

Cable name	Source (from)	Target (to)	cable type	all conductors	Conductors used	Cross-section [mm]	Length [m]	function text	Graphical page of cable diagram
WL1000	=10kV+RTU.10kV-X1	=DC Cabin+220VDC-FQ21	NY-Y-J	4x	2	1,5	15		
WL1001	=10kV+RTU.10kV-X2	=10kV+K01-XDC2	JYTY	14x	9	1	9		
	=10kV+RTU.10kV-X6								
WL1002	=10kV+RTU.10kV-X2	=10kV+K02-XDC2	JYTY	14x	8	1	10		
	=10kV+RTU.10kV-X6	=10kV+K02-XDC3							
WL1003	=10kV+RTU.10kV-X2	=10kV+K03-XDC1	JYTY	14x	11	1	11		
	=10kV+RTU.10kV-X6	=10kV+K03-XDC8							
		=10kV+K03-XDC3							
WL1004	=10kV+RTU.10kV-X2	=10kV+K04-XDC1	JYTY	14x	11	1	12		
	=10kV+RTU.10kV-X6	=10kV+K04-XDC8							
		=10kV+K04-XDC3							
WL1005	=10kV+RTU.10kV-X2	=10kV+K05-XDC1	JYTY	14x	11	1	13		
	=10kV+RTU.10kV-X6	=10kV+K05-XDC8							
		=10kV+K05-XDC3							
WL1006	=10kV+RTU.10kV-X2	=10kV+K06-XDC1	JYTY	14x	11	1	15		
	=10kV+RTU.10kV-X6	=10kV+K06-XDC8							
		=10kV+K06-XDC3							
WL1007	=10kV+RTU.10kV-X2	=10kV+K07-XDC1	JYTY	14x	11	1	16		
	=10kV+RTU.10kV-X6	=10kV+K07-XDC8							
		=10kV+K07-XDC3							
WL1008	=10kV+RTU.10kV-X2	=10kV+K08-XDC2	JYTY	14x	7	1	17		
	=10kV+RTU.10kV-X6								
WL1009	=10kV+RTU.10kV-X3	=10kV+K01-XDC2	JYTY	14x	8	1	9		
WL1010	=10kV+RTU.10kV-X3	=10kV+K02-XDC2	JYTY	14x	4	1	10		
WL1011	=10kV+RTU.10kV-X3	=10kV+K03-XDC1	JYTY	14x	12	1	11		
WL1012	=10kV+RTU.10kV-X3	=10kV+K04-XDC1	JYTY	14x	12	1	12		
WL1013	=10kV+RTU.10kV-X3	=10kV+K05-XDC1	JYTY	14x	12	1	13		
WL1014	=10kV+RTU.10kV-X3	=10kV+K08-XDC2	JYTY	14x	8	1	17		
WL1015	=10kV+RTU.10kV-X3	=10kV+K06-XDC1	JYTY	14x	12	1	15		
WL1016	=10kV+RTU.10kV-X3	=10kV+K07-XDC1	JYTY	14x	11	1	16		
WL1017	=10kV+RTU.10kV-X4	=10kV+K05-XDI6	JYTY	7x	4	1	13		
WL11001	=110kV+RTU.110kV-X1	=DC Cabin+220VDC-FQ20	NY-Y-J	4x	2	1,5	10		
WL11002	=110kV+110.1-X601	=110kV+RTU.110kV-X2	JYTY	14x	10	1	10		
WL11003	=110kV+110.1-K31	=110kV+RTU.110kV-X2	JYTY	14x	11	1	10		
	=110kV+110.1-K32	=110kV+RTU.110kV-X6							
	=110kV+110.1-K33								
	=110kV+110.1-K34								
	=110kV+110.1-K36								
	=110kV+110.1-K37								
	=110kV+110.1-X220								
	=110kV+110.1-X601								
WL11004	=110kV+110.1-K38	=110kV+RTU.110kV-X2	JYTY	14x	13	1	10		
	=110kV+110.1-K39								
	=110kV+110.1-K41								
	=110kV+110.1-K42								
	=110kV+110.1-XTRIP								







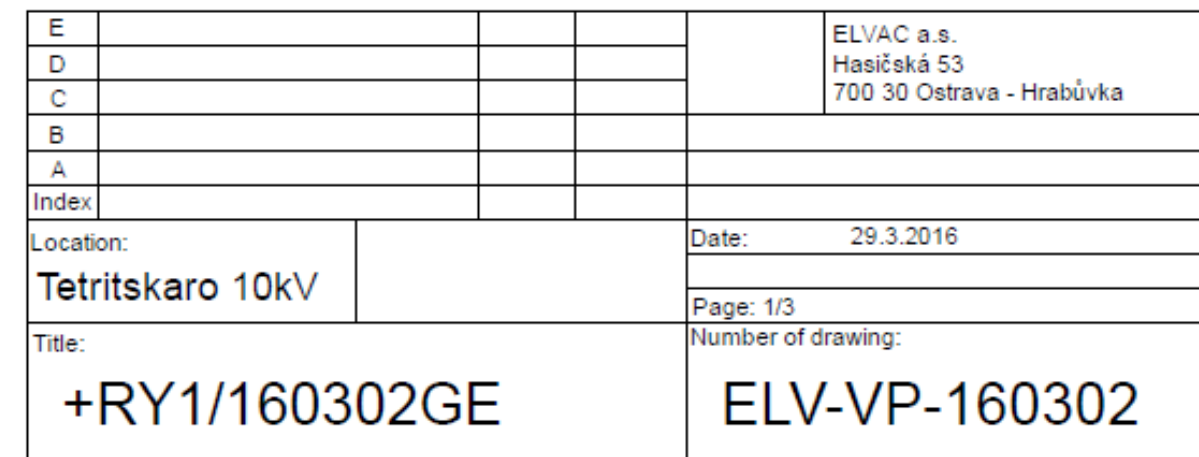
*Customer Single-line diagram reference*

Unit Designation	=K01	=K02	=K03	=K04
Unit Type	SDC	SFC	WBC	WBC
Unit Description	MEASURE UNIT	AUXILIARY TRANSFORMER FEEDER 40 kVA	CAPACITORS FEEDER (750 kVARr)	EARTHING FEEDER (1000 kVA)
Circuit Diagram	1VCE002670T0101	1VCE002670T0102	1VCE002670T0103	1VCE002670T0104





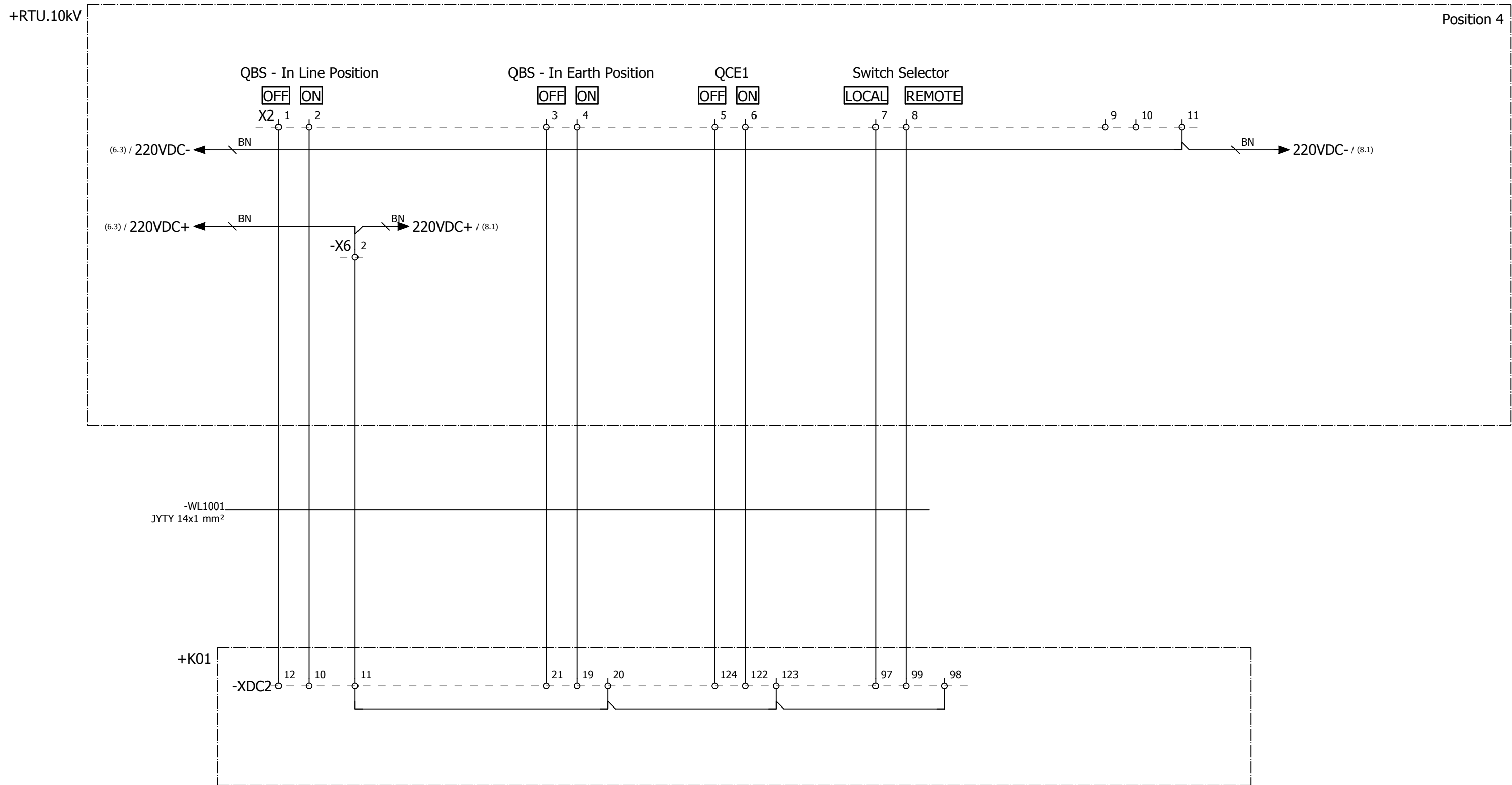


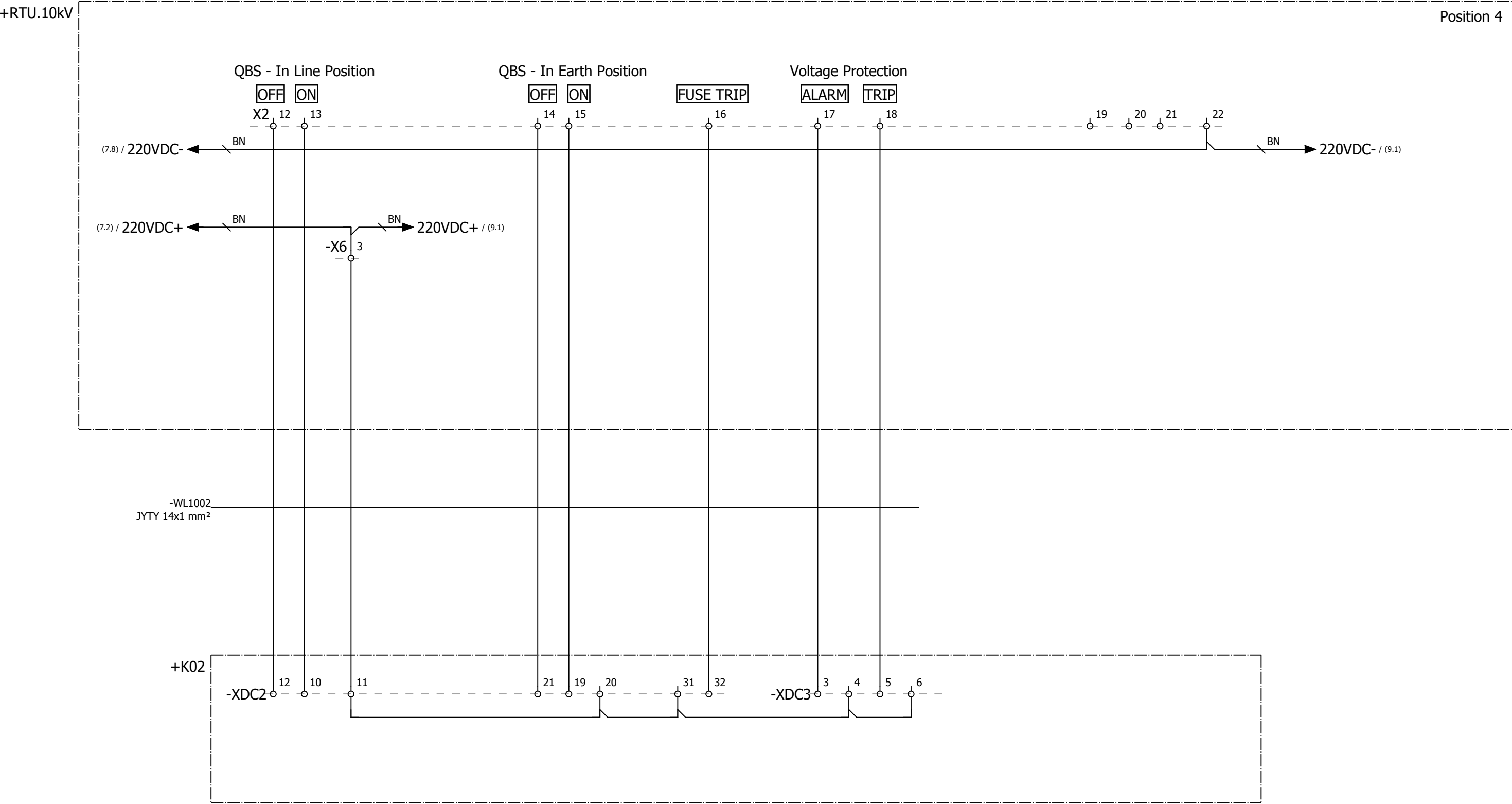








[illegible]



-WL1002

JYTY 14x1 mm²

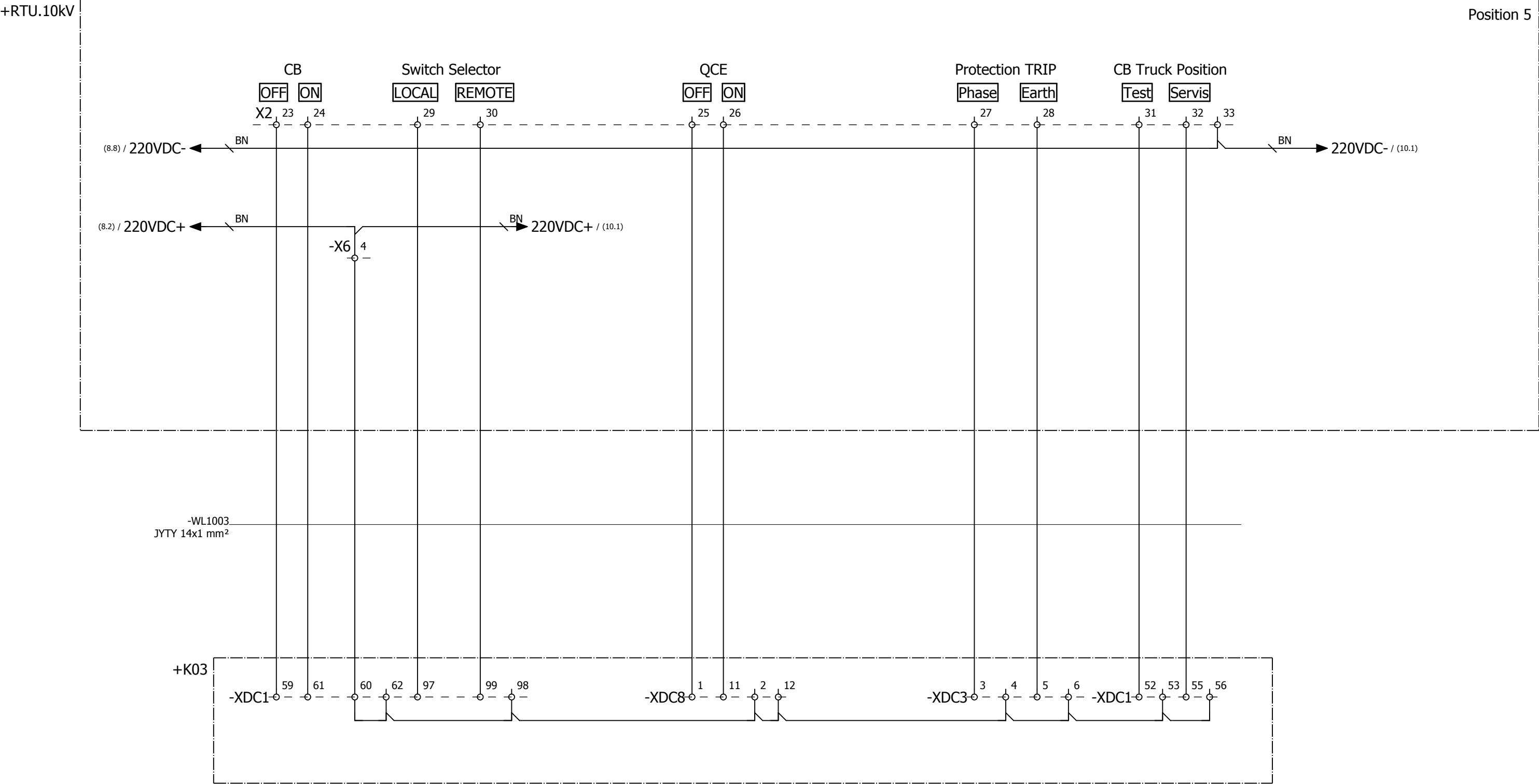
+K02

-XDC2 12 10 11

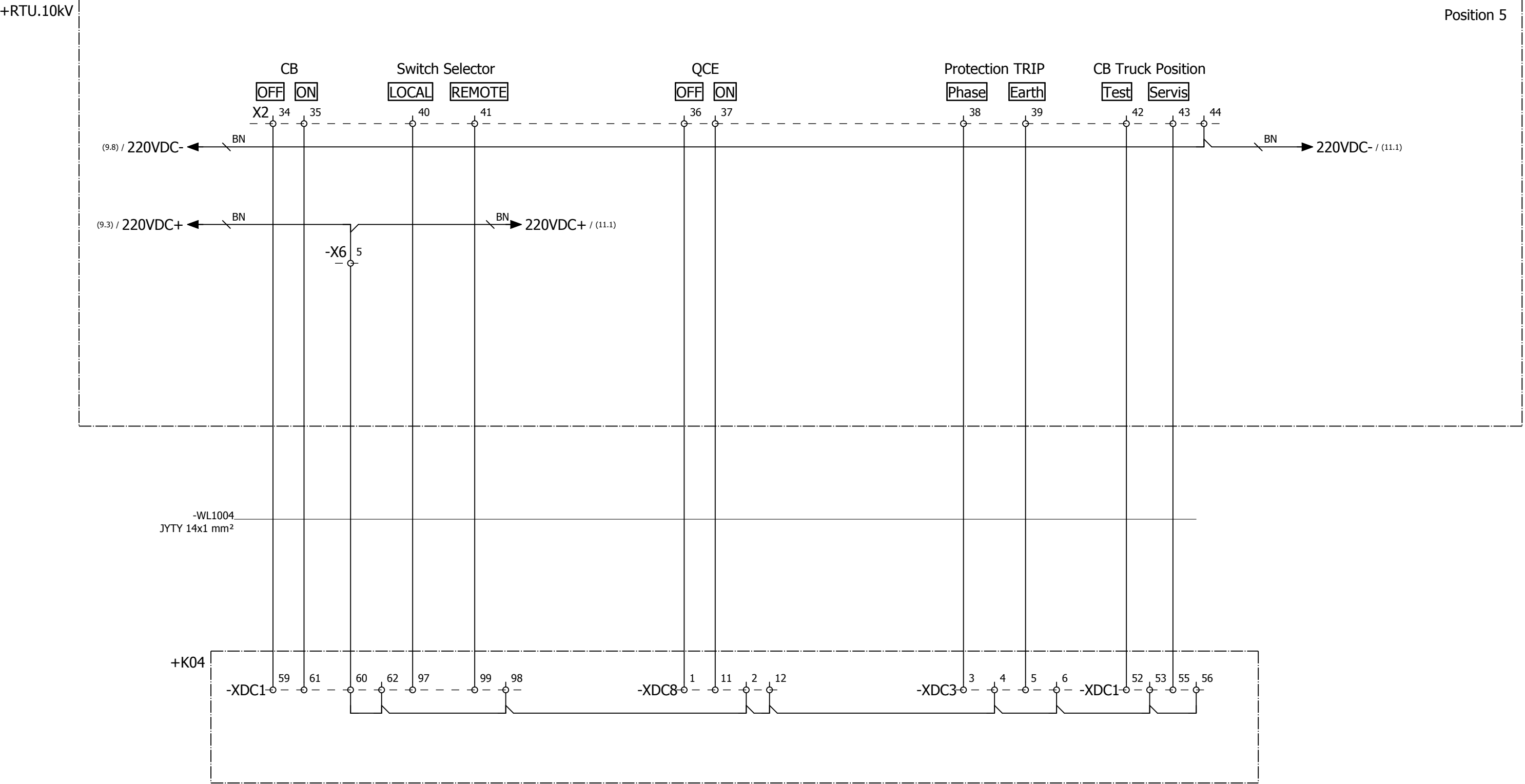
21 19 20 31 32

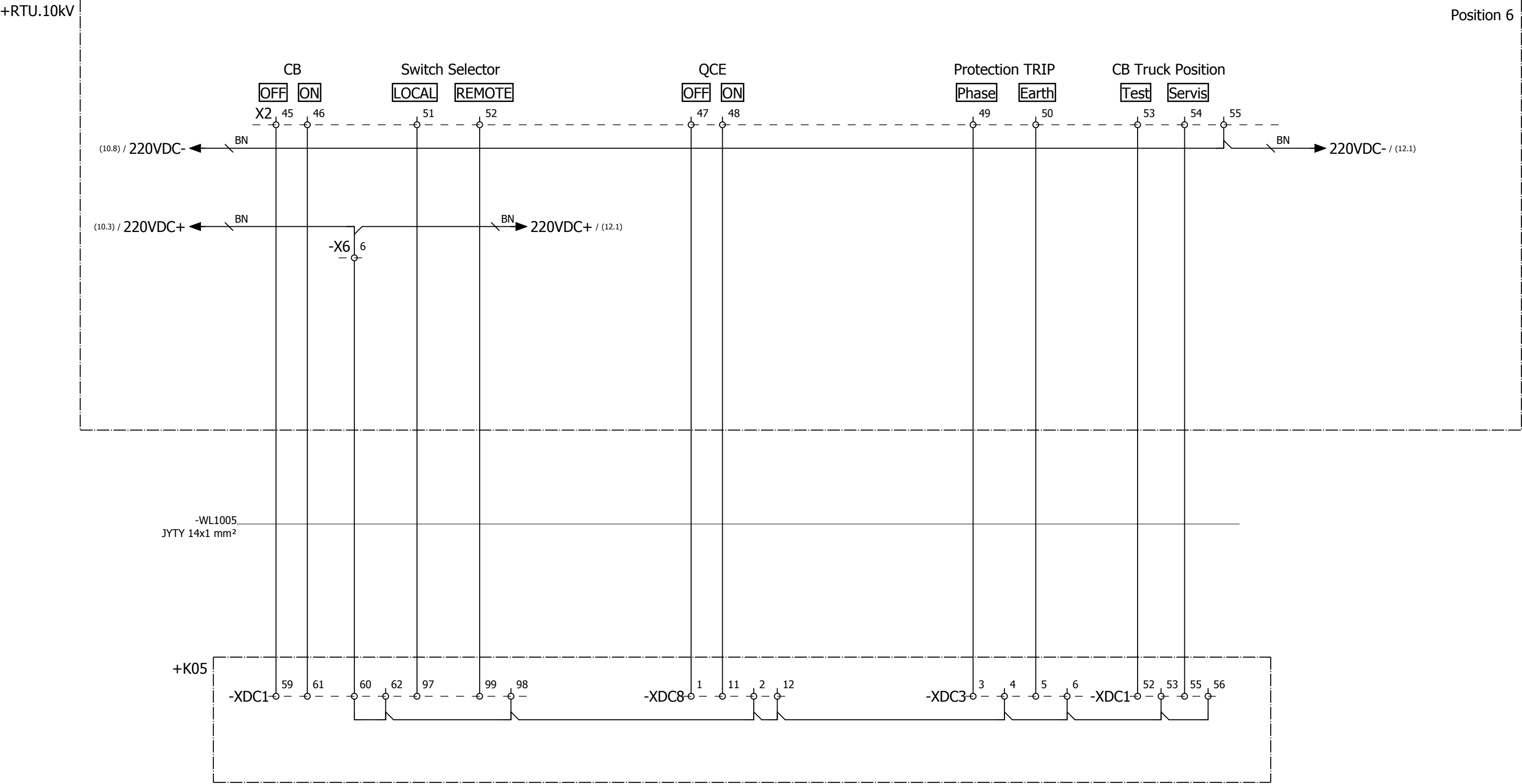
-XDC3 3 4 5 6

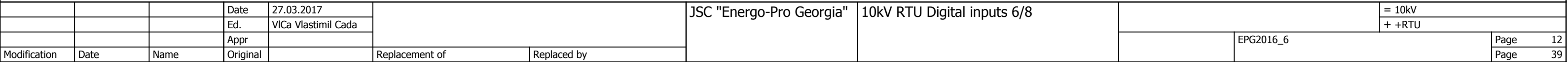
			Date	27.03.2017			JSC "Energo-Pro Georgia"	10kV RTU Digital inputs 2/8			= 10kV	
			Ed.	VICa Vlastimil Cada							+ +RTU	
			Appr									
Modification	Date	Name	Original		Replacement of	Replaced by			EPG2016_6		Page	8
											Page	39

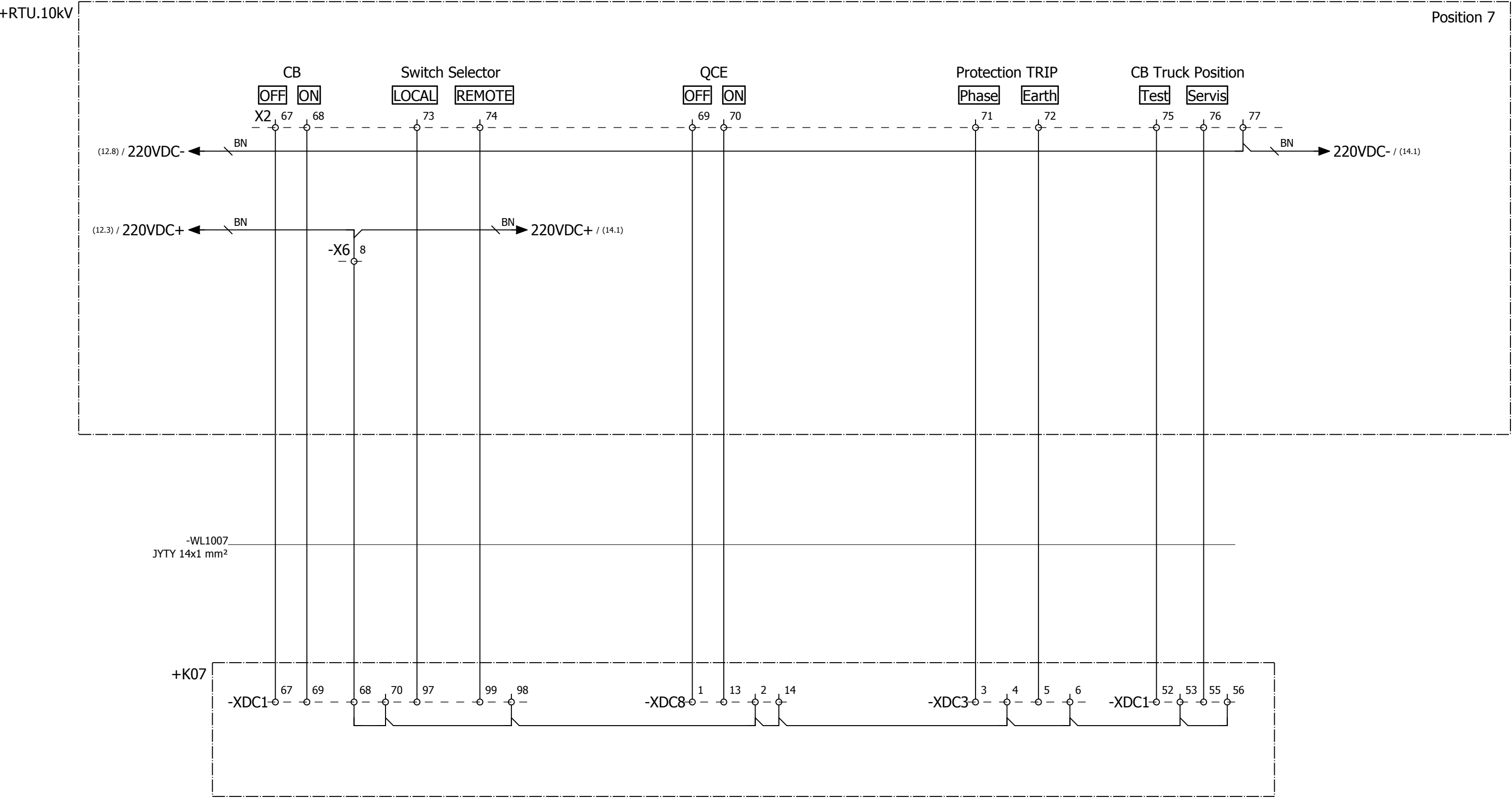




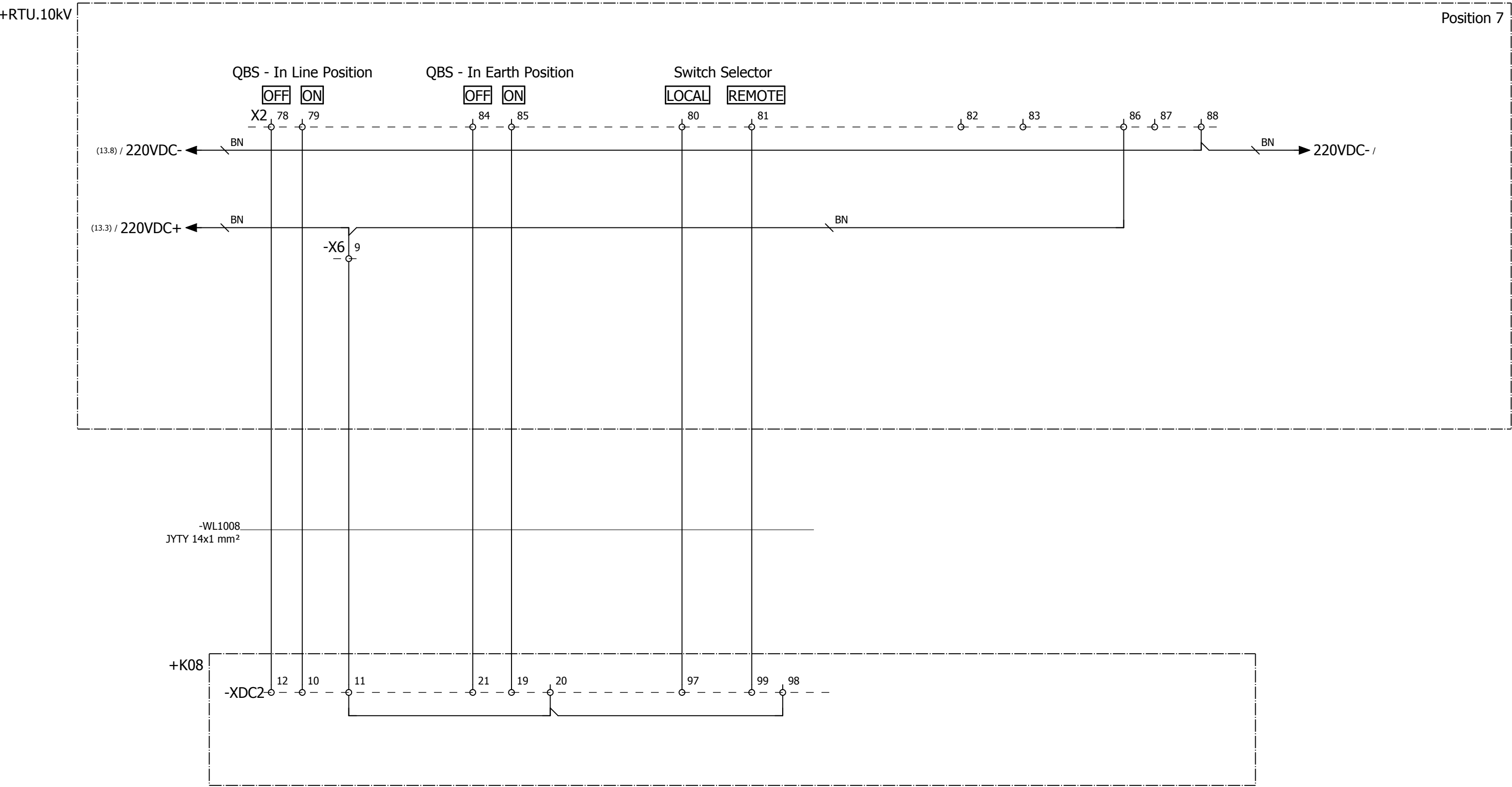


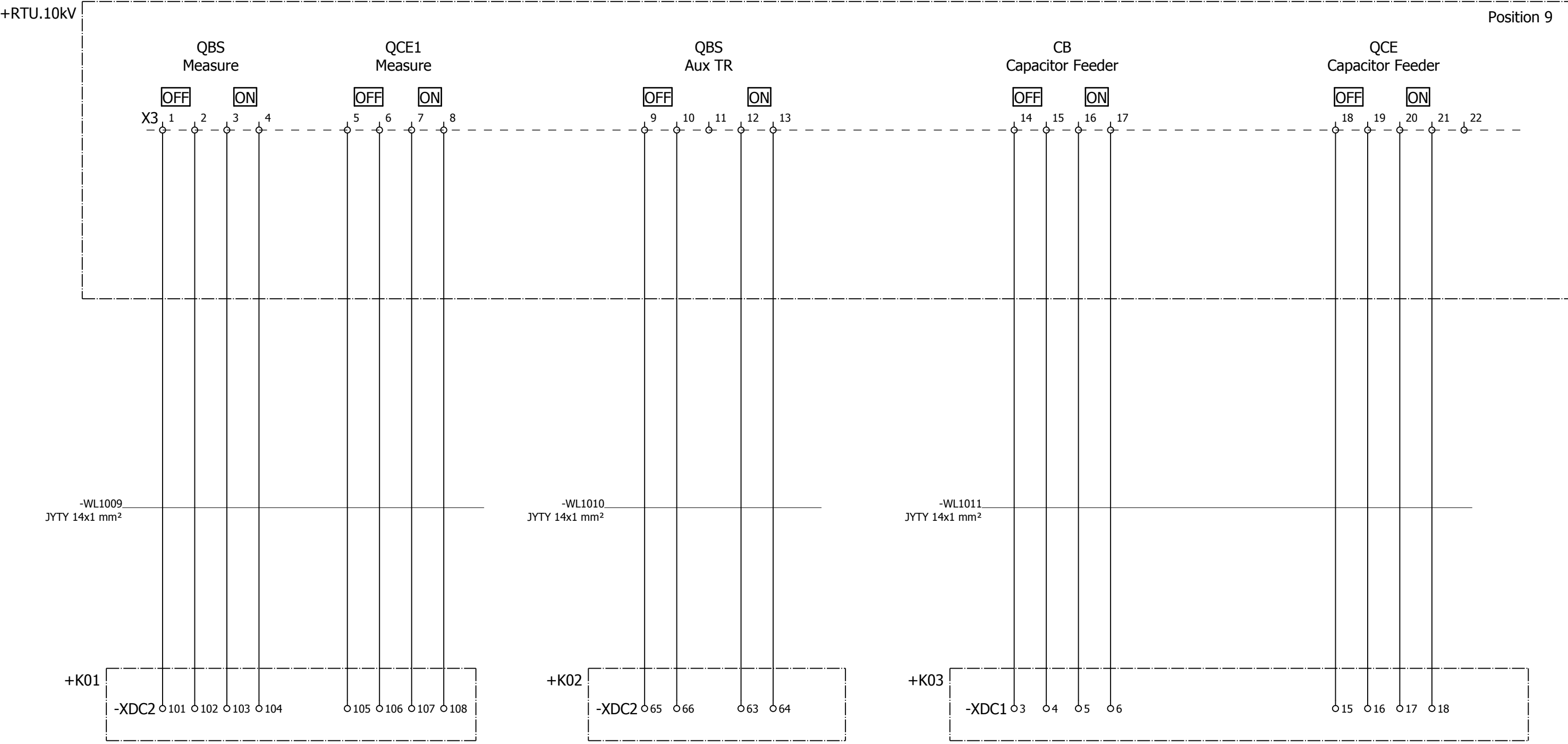


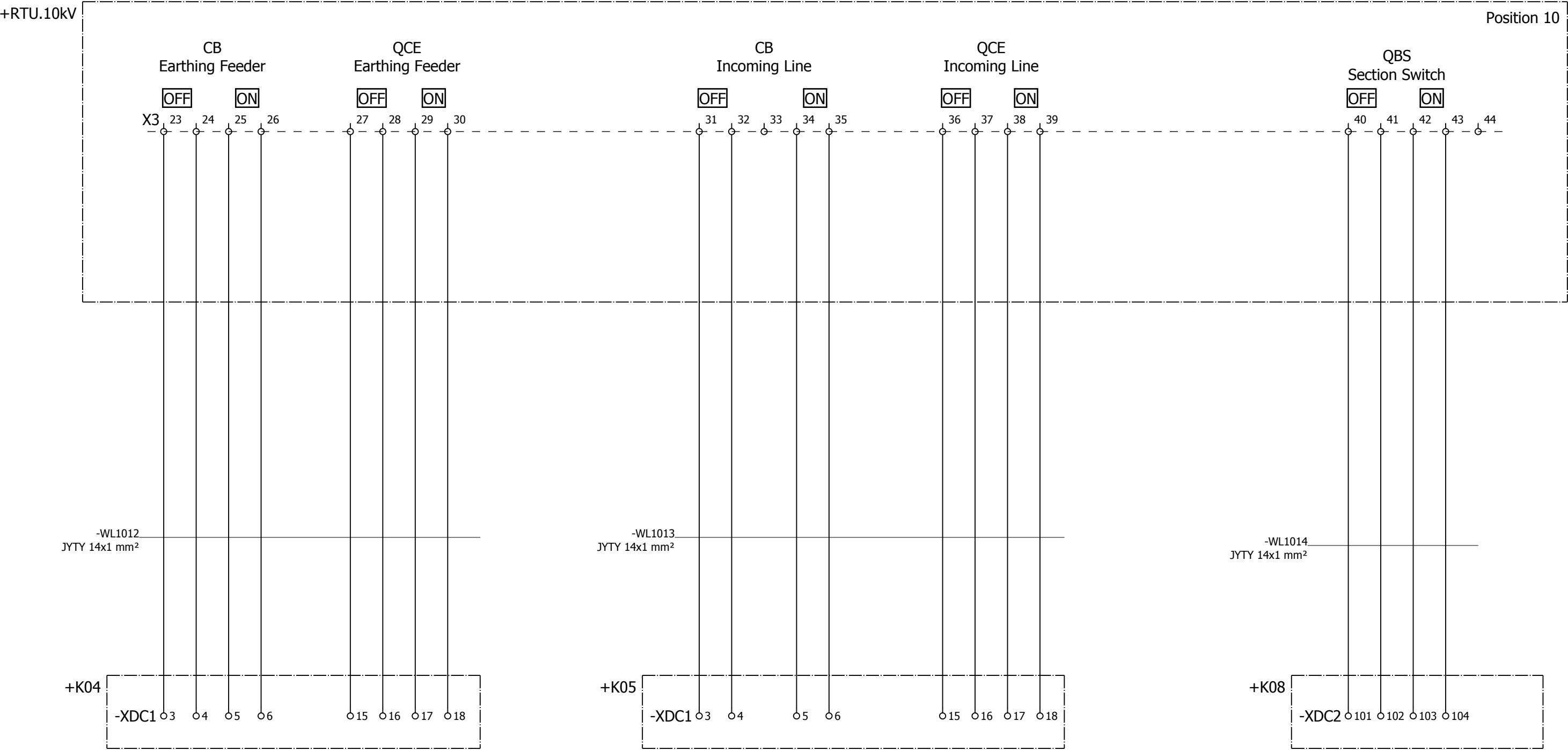




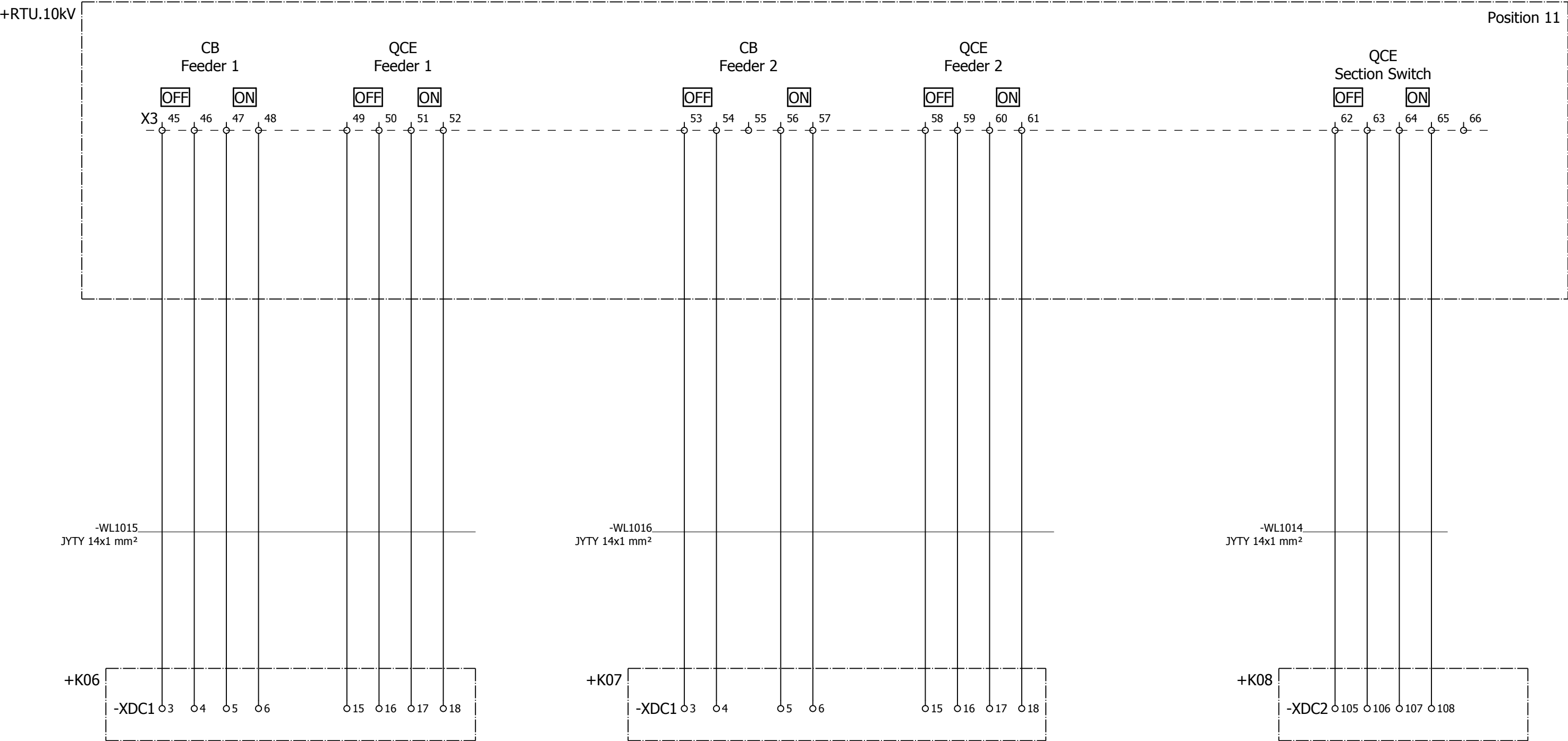
			Date	27.03.2017			JSC "Energo-Pro Georgia"	10kV RTU Digital inputs 7/8			= 10kV	
			Ed.	VICa Vlastimil Cada							+ +RTU	
			Appr									
Modification	Date	Name	Original		Replacement of	Replaced by			EPG2016_6		Page	13
											Page	39





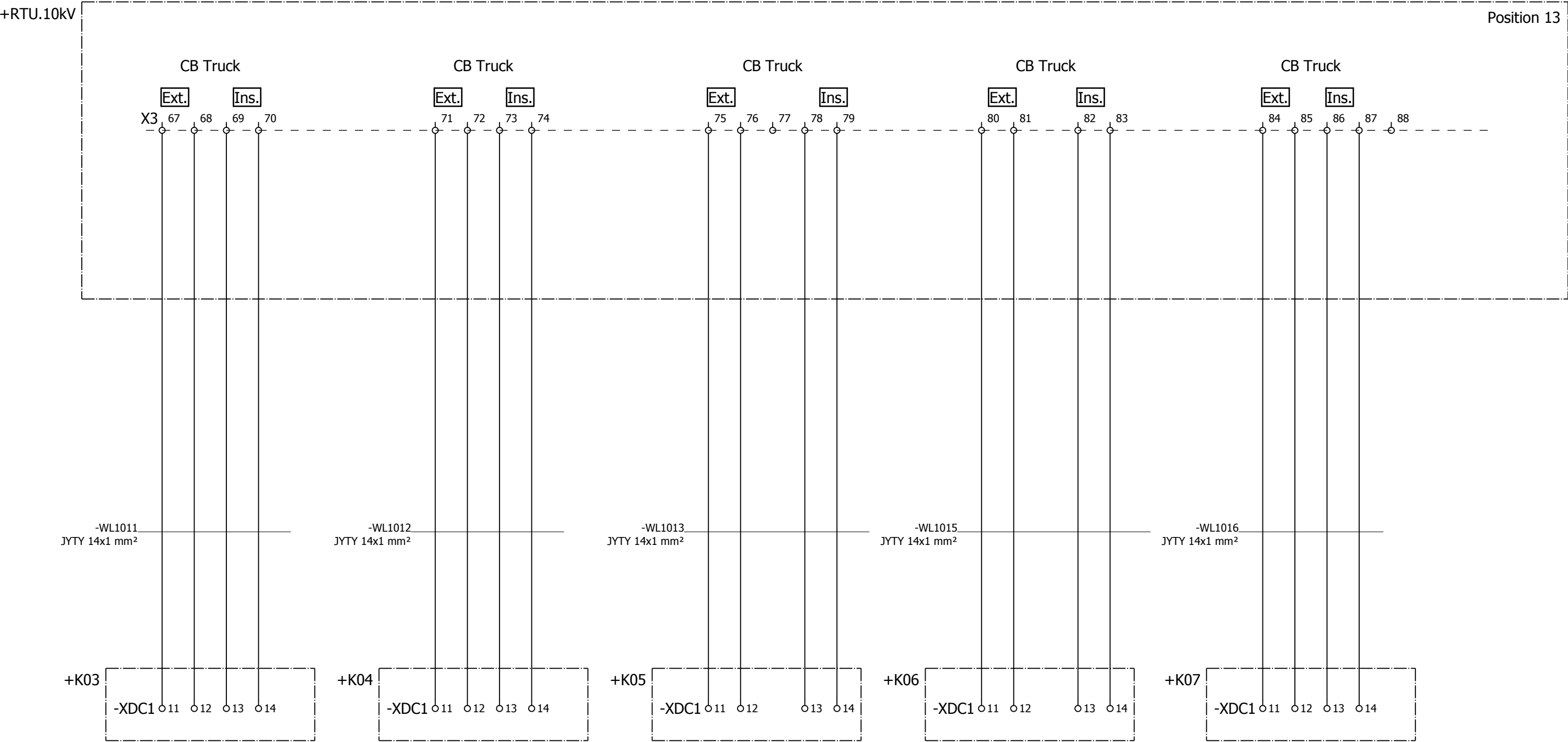






			Date	27.03.2017		
			Ed.	VICa Vlastimil Cada		
			Appr			
Modification	Date	Name	Original		Replacement of	Replaced by

		= 10kV	
		+ +RTU	
	EPG2016_6	Page	17
		Page	39



-WL1011

JYTY 14x1 mm<sup>2</sup>

-WL1012

JYTY 14x1 mm<sup>2</sup>

-WL1013

JYTY 14x1 mm<sup>2</sup>

-WL1015

JYTY 14x1 mm<sup>2</sup>

-WL1016

JYTY 14x1 mm<sup>2</sup>

+K03

-XDC1

11 12 13 14

+K04

-XDC1

11 12 13 14

+K05

-XDC1

11 12 13 14

+K06

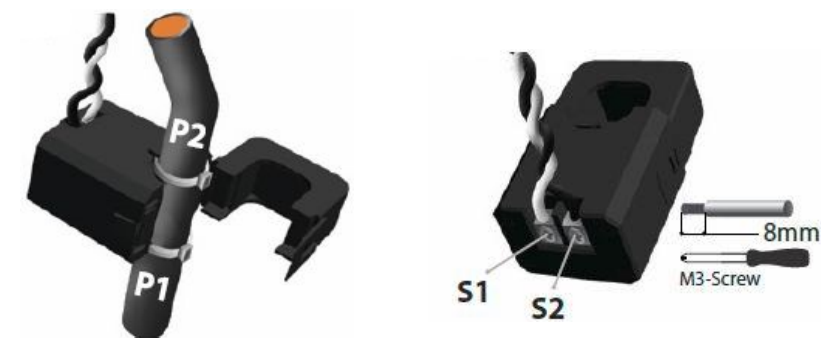
-XDC1

11 12 13 14

+K07

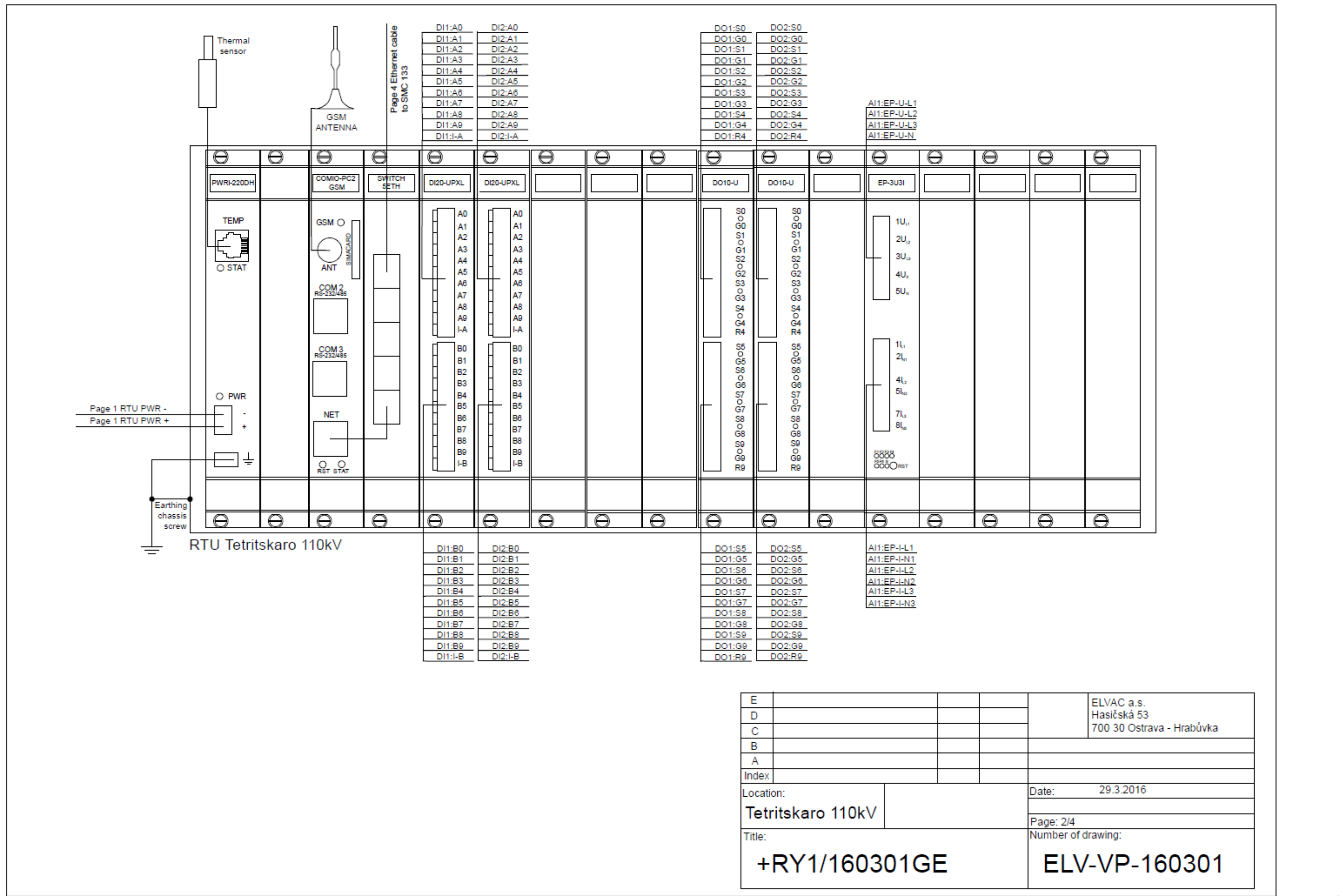
-XDC1

11 12 13 14



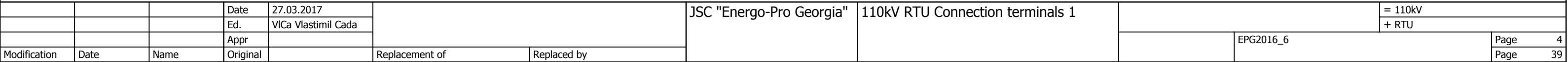
[illegible]

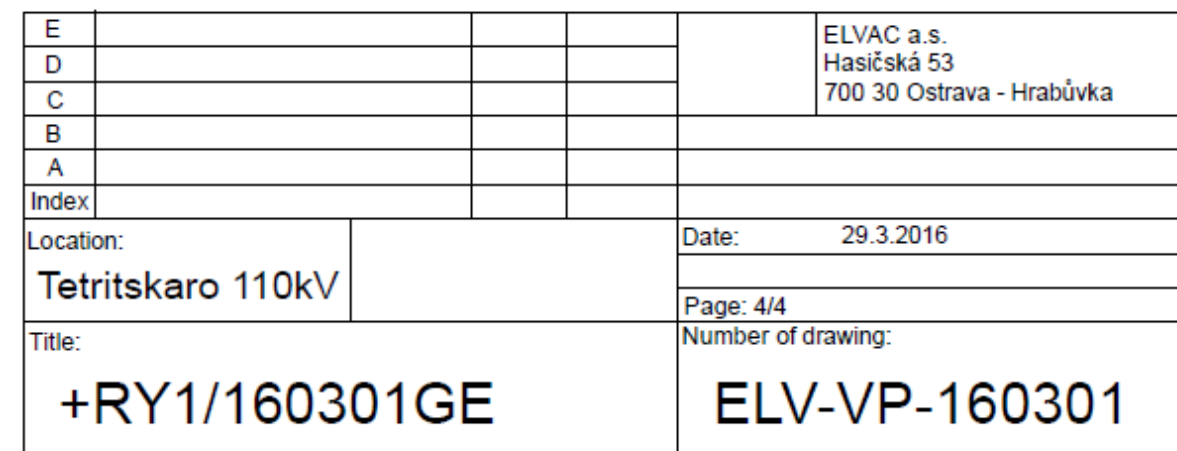


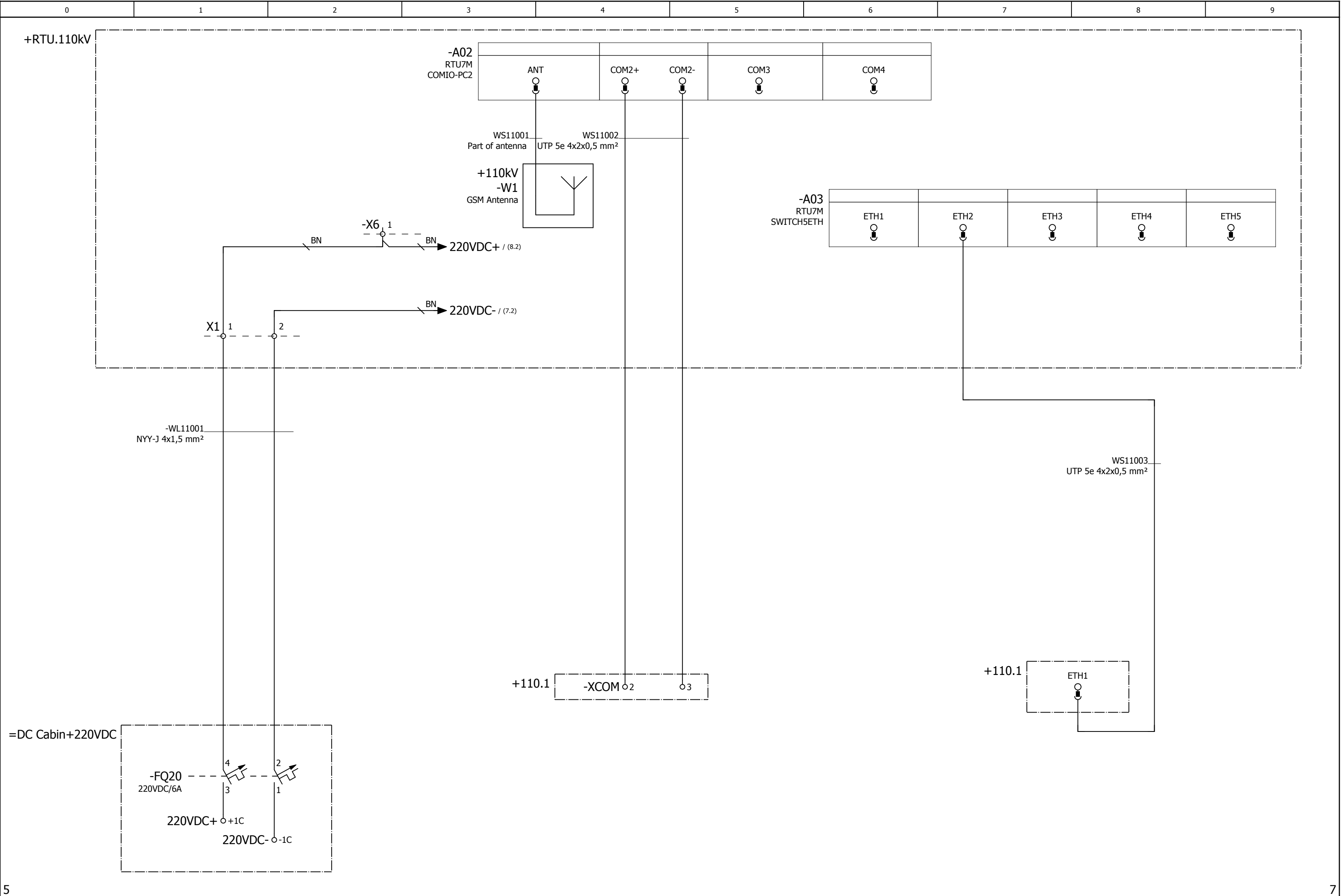




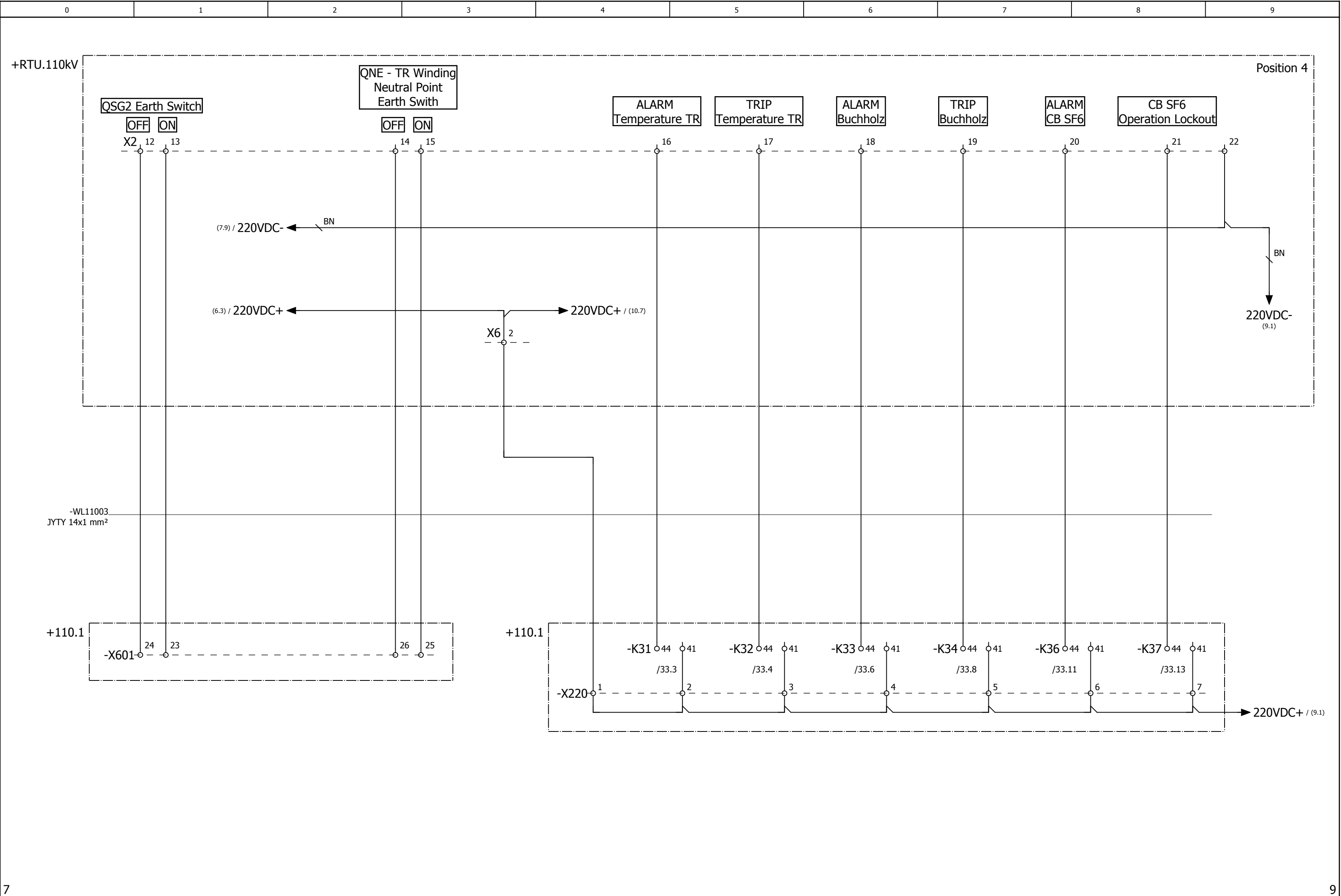


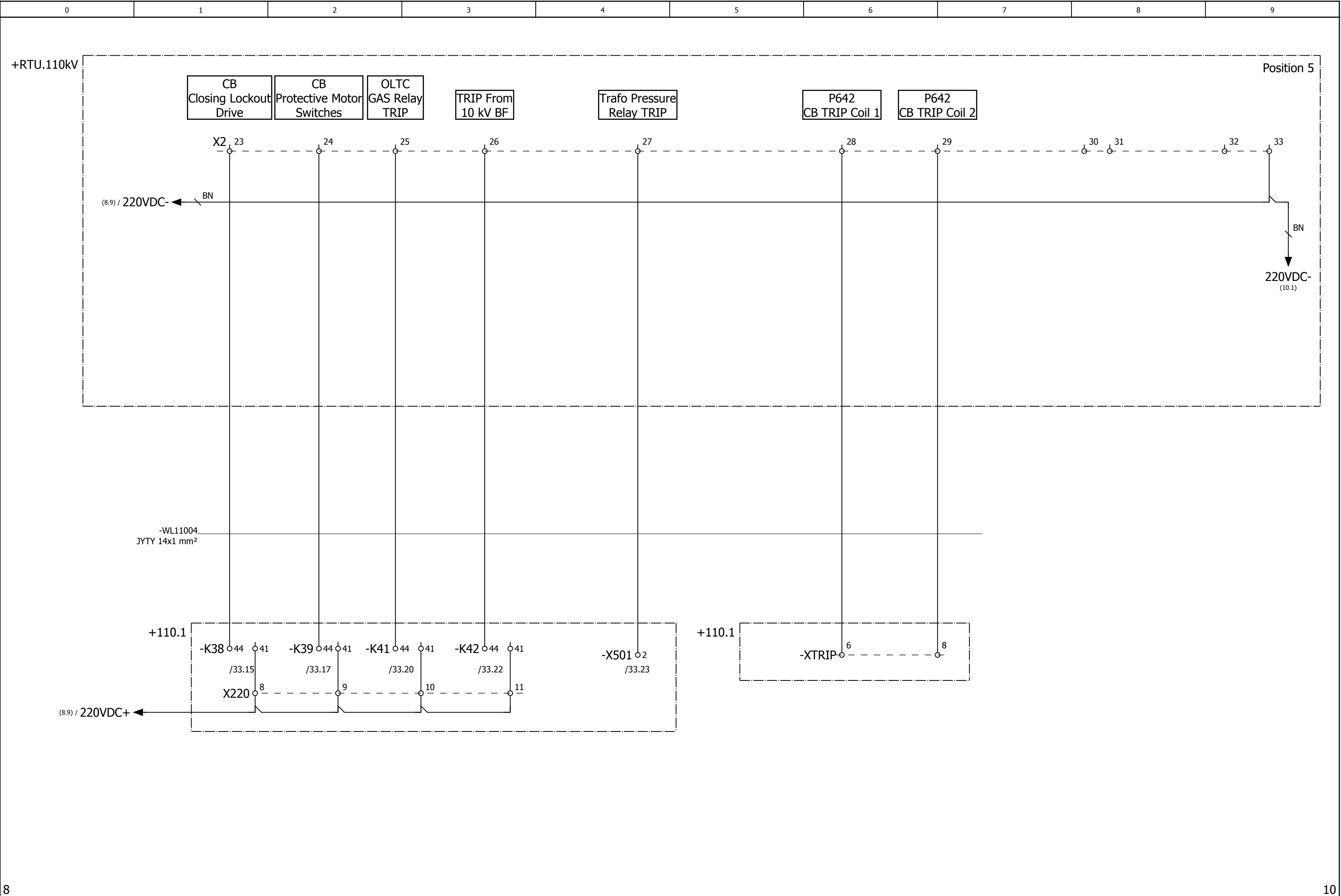


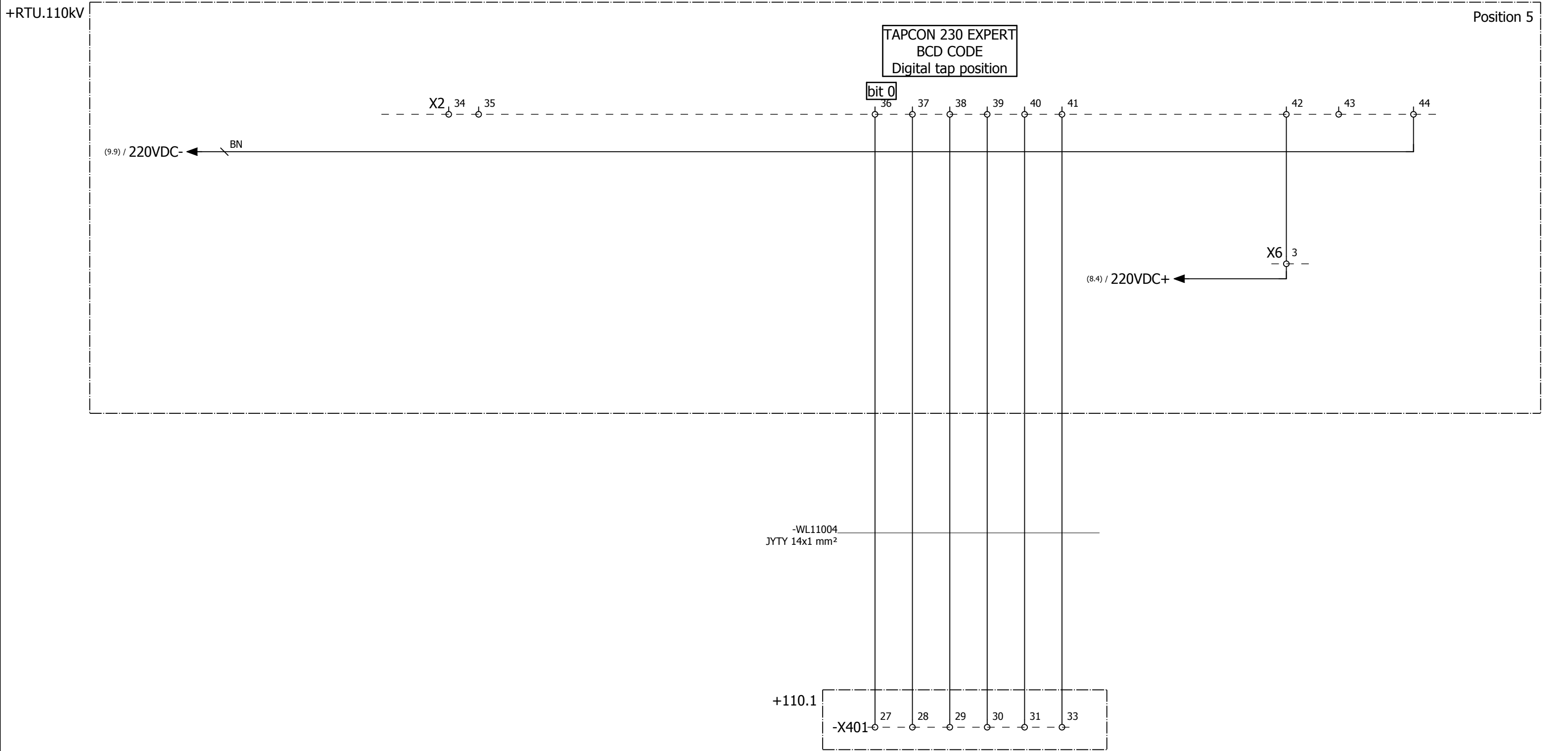
[illegible]











			Date	27.03.2017	JSC "Energo-Pro Georgia"		110kV RTU Digital inputs 4/4		= 110kV + RTU			
			Ed.	VICa Vlastimil Cada							Page	10
			Appr								Page	39
Modification	Date	Name	Original		Replacement of	Replaced by			EPG2016_6			



