

See OIF for more details

See Bidmanager for more details

[Xiria switchboard](#)

[Panel information \(Device note\)](#)

[] - [
O - [P01] - MIMIC for local SCI-Indicator 96mmx48mm_6103884,
O - [P02] - MIMIC for local SCI-Indicator 96mmx48mm_6103884,
O - [P03] - MIMIC for local SCI-Indicator 96mmx48mm_6103884]
O - P01 - MIMIC for local SCI-Indicator 96mmx48mm_6103884,
O - P02 - MIMIC for local SCI-Indicator 96mmx48mm_6103884,
O - P03 - MIMIC for local SCI-Indicator 96mmx48mm_6103884



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			Appr.	SSE	Drawing number				Inst. type	Xiria 630		



Xiria 630

Release 4.0

Sales organization		Please select		Project status		
Order number		Please fill in		Status	Date	Name
Customer		Please select				
Customer PO number		Please fill in				
Name of switchgear		Please fill in				
Project number		LLLTv_10_12kV_16kA				
Eaton order number		ESO_III_substations_Xiria_2025_05_31				
Eaton quote number		EU7O0530X5K1-0002-9				
Order manager		-				
Application engineer		-				
Electrical engineer		EEC				
Manufacturing year		2025				

Technical data of the switchboard

Electrotechnical Data According To	IEC
Rated voltage	12 kV
Service voltage	10 kV
Rated frequency	50 Hz
Neutral point	Isolated
Phase sequence	L1-L2-L3
Rated normal current	630A
Rated short time withstand current/time	16 kA/3 s
Rated peak withstand current	40 kA
Impulse / power frequency withstand voltage	75kV/28kV-1min
Ambient air temperature range	-25°C +40°C
Colour	RAL7035
Loss of service continuity	LSC2
Internal arc classification (iac)	AFL R
Internal arc resistance cable compartment	16-1 kA/s
Degree of protection in service	IP3X
Degree of protection with doors/covers open	IP2X

Technical data of the circuit breaker/load break switch/connector set






Description		Type	Rated normal current
Cable connector set	Screw type C short	C	630A
Xiria, vacuum load-break switch	630A, 12kV	SVR14BA-1206	630A
Cable connector set	Screw type C long	C	630A
Xiria, vacuum circuit breaker	200A, 12kV	NVR62BA-1202	200A

Notes

Panel wiring

If applicable and unless stated differently			
Current transformer circuits	2,5mm²	Grey	Halogen free
Voltage transformer circuit	2,5mm²	Grey	Halogen free
Other circuits	1mm²	Grey	Halogen free
Earthing circuits	2,5mm²	Yellow/Green	Halogen free

Explanation colour connection lines

Connection lines	Blue	Busbar connection	
Connection lines	Green	Standard bundle wire	
Connection lines	Grey	Non standard wire	
Connection lines	Brown	Saddle jumper	
Connection lines	Red Dotted	Connection to be made by client	

Cable clamp suitable for cables

Cable clamp	3x1 26-38 mm	Cable	3x1x 25...120mm² CU	/	3x1x 95...150mm² AL
Cable clamp	3x1 36-52 mm	Cable	3x1x 95...400mm² CU	/	3x1x 95...400mm² AL
Cable clamp	1x3 50-75 mm	Cable	1x3x 25...70mm² CU	/	-
Cable clamp	1x3 75-100 mm	Cable	1x3x 95...185mm² CU	/	-

Note drawnIf applicable

Q1	Open
Q2	In the operating position
S2.1/S2.2	Not activated
S4	Selector in the neutral (Middle) position
S5	Not activated
S7	Not ready for synchronised closing

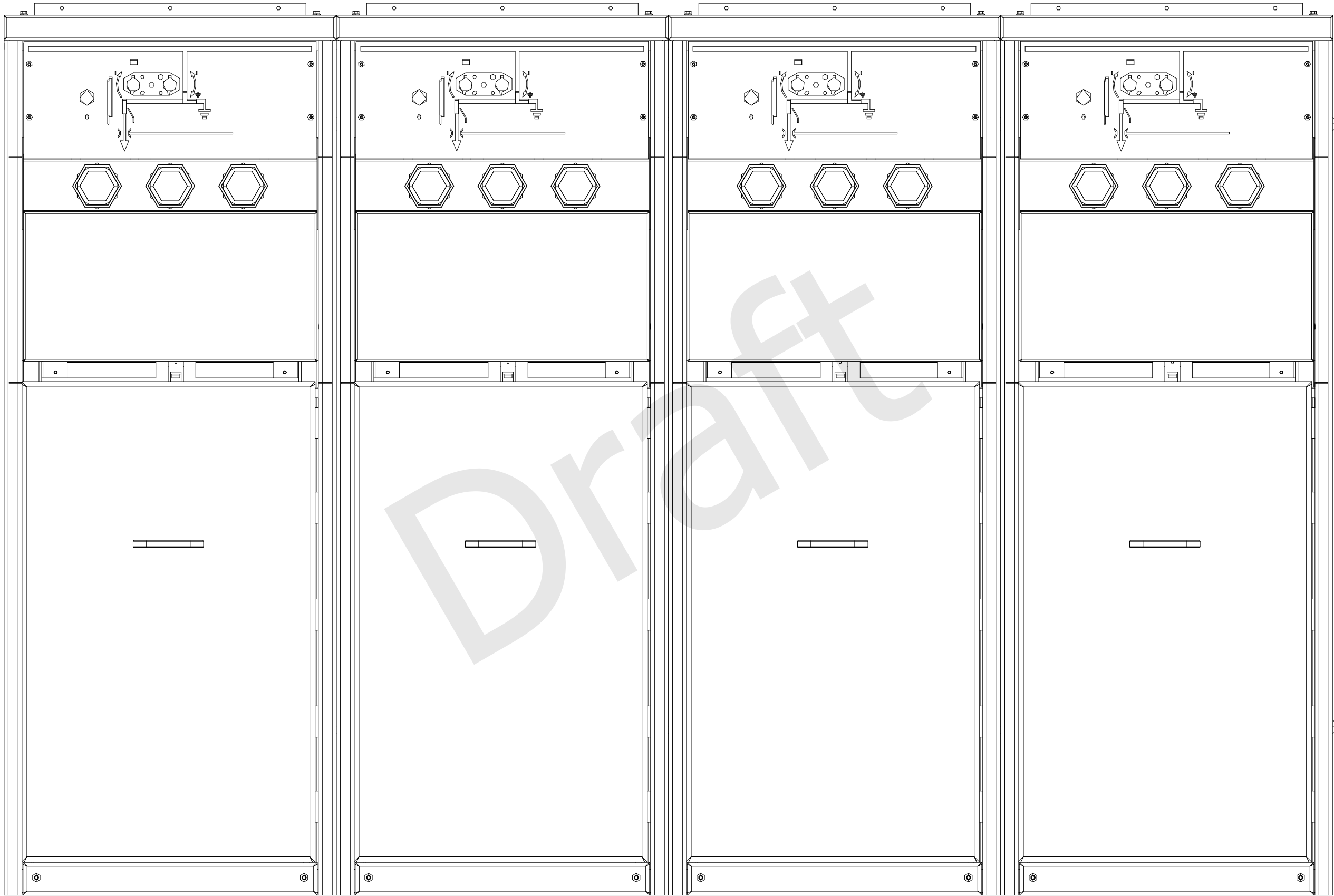
User manual



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			Appr.	SSE	Drawing number				Inst. type	Xiria 630		



General arrangement for indication

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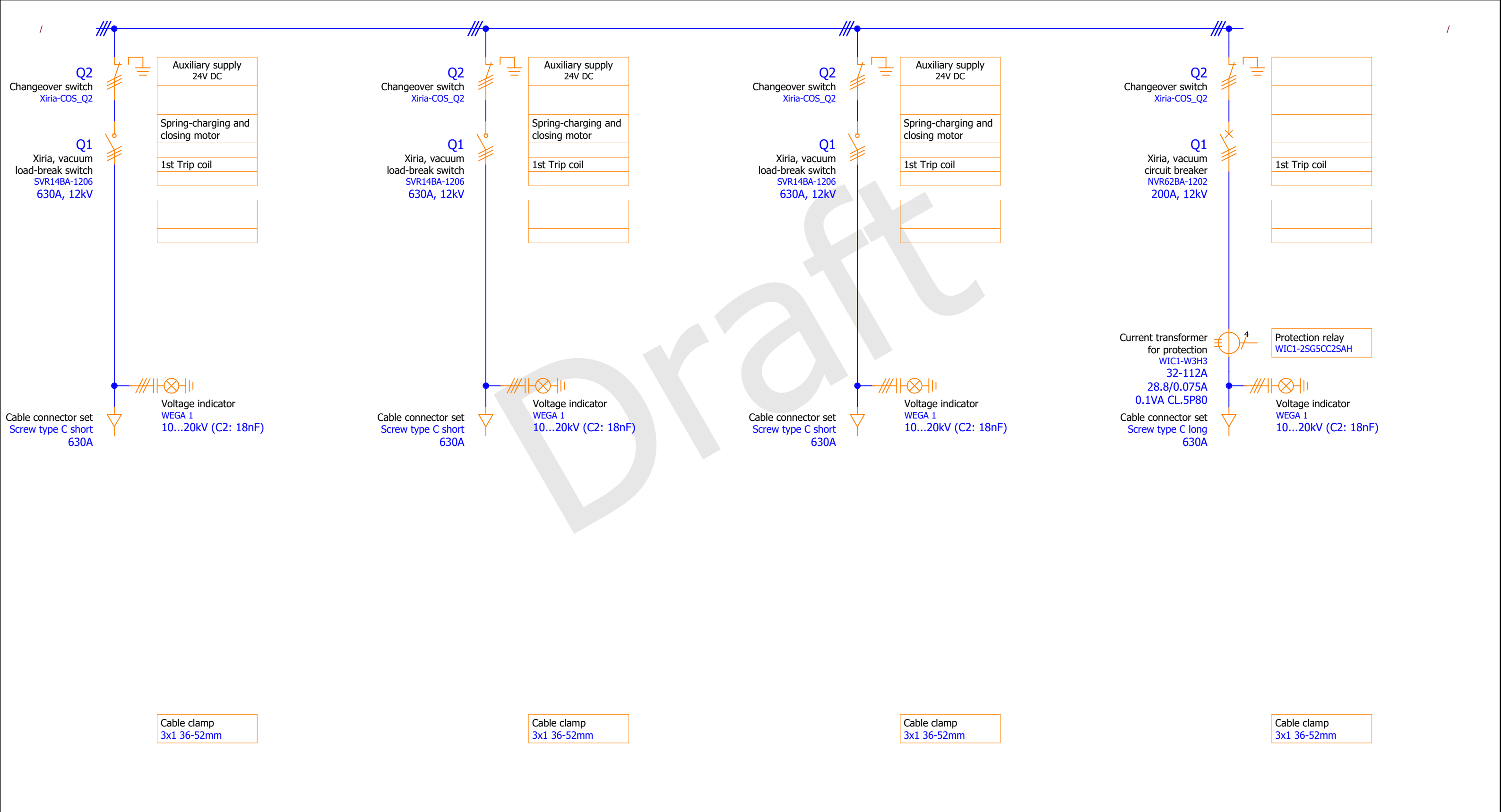
Interpanel wiring

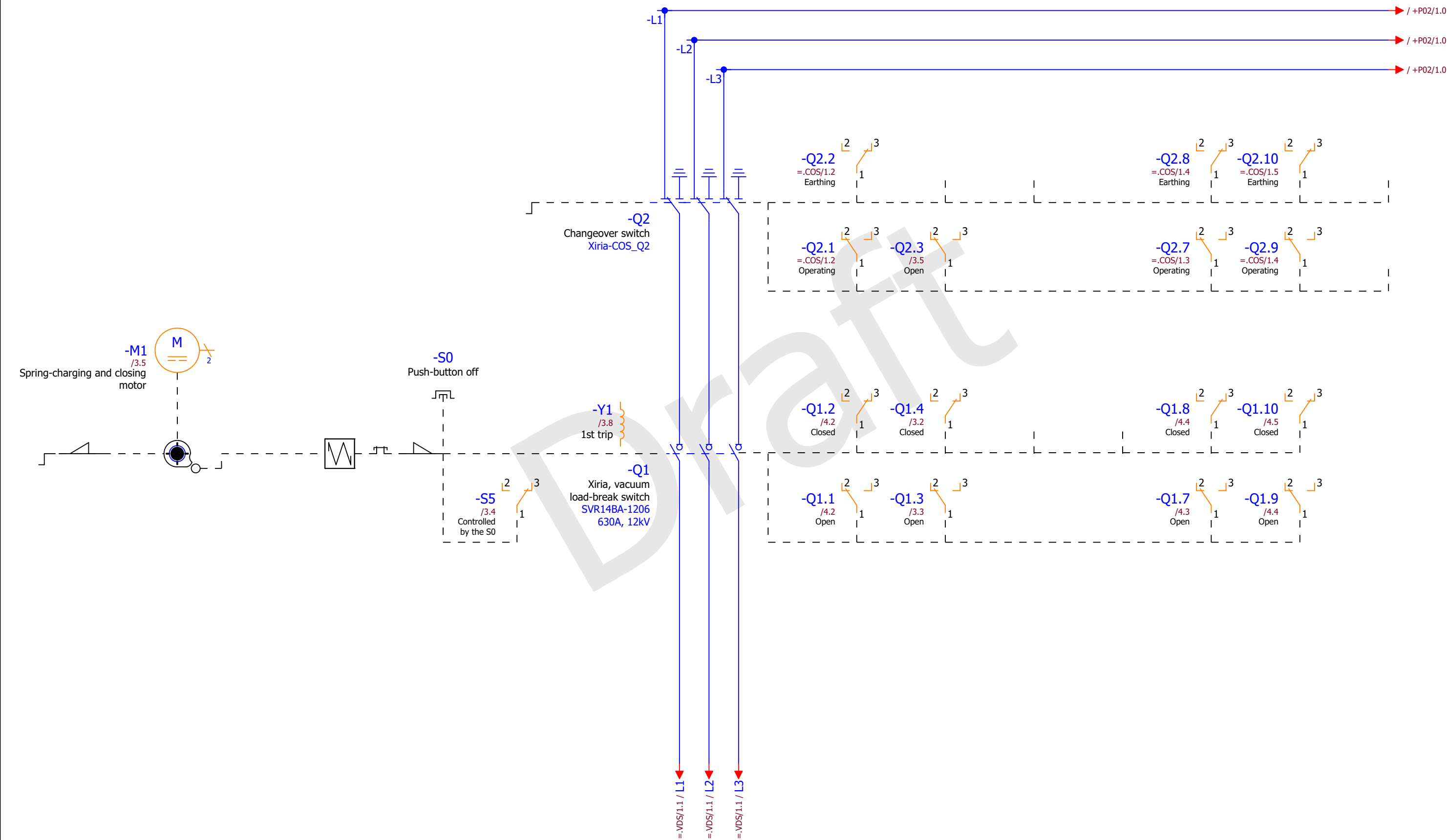
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			+P02-X1:1:a	+P03-X1:1:b													GY	2,5
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		Appr.	SSE	Drawing number				Inst. type	Xiria 630		

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P01			P02		P03			P04		Panel/client code
1			2		3			4		Nr. Fixed portion
-			-		-			-		System
Load break switch system			Load break switch system		Load break switch system			Circuit breaker system		Nameplate 1
L			L		L			Tv		Nameplate 2
-			-		-			-		Typical code
-			-		-			-		





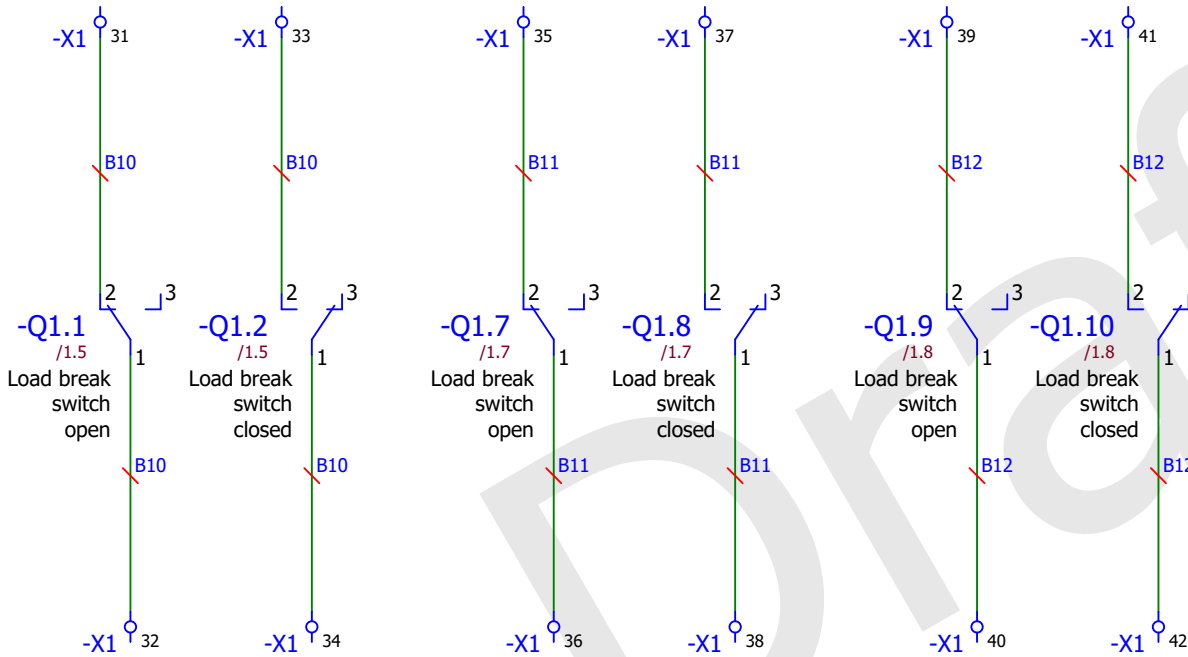
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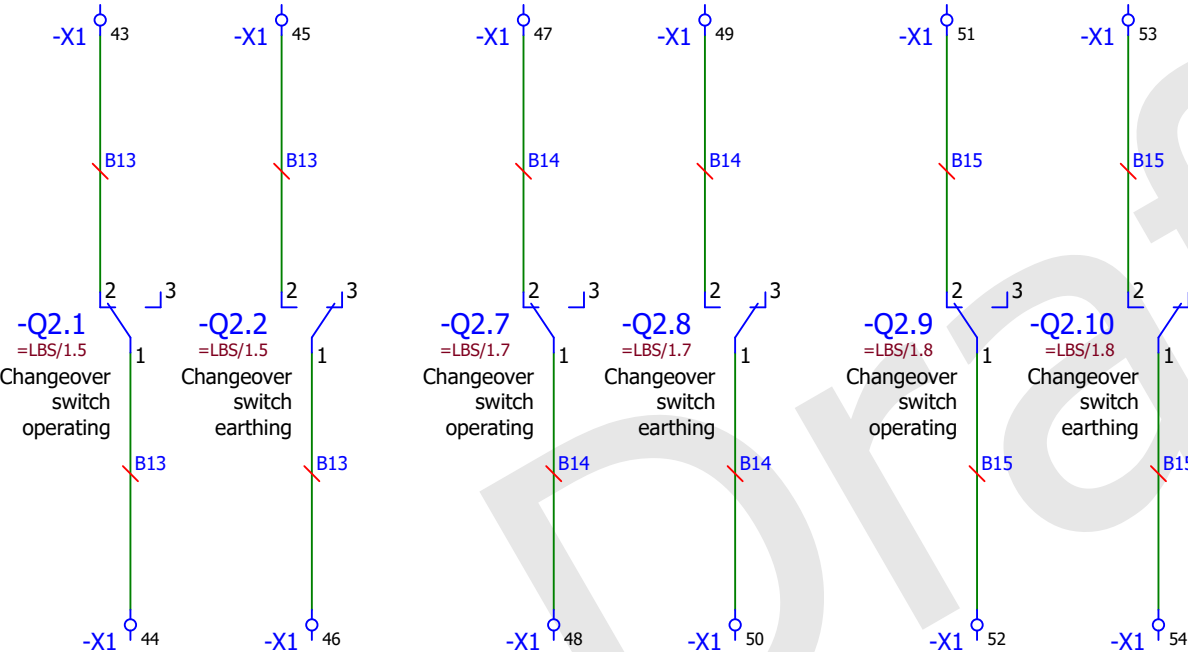
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



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			Appr.	SSE	Drawing number							

Summarized parts list

Device tag	Quantity	Description	Type	Manufacture	Part number	ERP number
A1	1 st	Integrated voltage detecting system (VDS) 10-20kV (C2: 18nF)	WEGA 1	Horstmann	51-1800-125	E6205078
B4	1 st	Wire bundle for remote control CB + LBS	Bundle 4	Eaton		E6099632
B5	1 st	Wire bundle for remote control CB + LBS	Bundle 5 + T.X1	Eaton		E6079619
B7	1 st	Wire bundle for closing and tripping LBS	Bundle 7	Eaton		E6079620
B10	1 st	Wire bundle for 1st set Auxiliary contacts Q1	Bundle 10 + T.X1	Eaton		E6099633
B11	1 st	Wire bundle for 2nd set Auxiliary contacts Q1	Bundle 11 + T.X1	Eaton		E6099634
B12	1 st	Wire bundle for 3rd set Auxiliary contacts Q1	Bundle 12 + T.X1	Eaton		E6099635
B13	1 st	Wire bundle for 1st set Auxiliary contacts Q2	Bundle 13 + T.X1	Eaton		E6099636
B14	1 st	Wire bundle for 2nd set Auxiliary contacts Q2	Bundle 14 + T.X1	Eaton		E6099637
B15	1 st	Wire bundle for 3rd set Auxiliary contacts Q2	Bundle 15 + T.X1	Eaton		E6099638
BA1	1 st	Wire bundle for voltage indicator	Bundle A1	Eaton		E6031010
BA1a	1 st	Earth wire for voltage indicator	Bundle A1a	Eaton		E6175310
C	1 st	Cable connector set Screw type C short	C	Eaton		665687
C1...C3	3 st	Capacitor for voltage indicator		Eaton		
F7	1 st	Fuse terminal	STK 2 BU - 1078.5	Contaclip		
F7	1 st	Glass fuse	Flink 3.15A/250V	Philips		
K7	1 st	Controller for remote control	E6036086 rev 02	Eaton		E6036086
K9;K12	2 st	Link		Eaton		
M1	1 st	Spring-charging and closing motor 24VDC	TT-555246000-24Vdc	Sgmada		6009016
Q1	1 st	Xiria, vacuum load-break switch 630A, 12kV	SVR14BA-1206	Eaton		
Q1.1...Q1.4;Q1.7...Q1.10 Q2.1...Q2.3;Q2.7...Q2.10;S2.1 S4;S5	18 st	Changeover auxiliary contact	X3M315N8MBT22	Johnson Electric	X3M315N8MBT22	6075486
Q2	1 st	Changeover switch	Xiria-COS_Q2	Eaton		
S0	1 st	Push-button off - " 0 " - mechanical tripping	M22	Eaton		6900074
S1	1 st	Push-button, flush, green (I), momentary	M22-D-G-X1	Eaton	216607	E6042915
S1	1 st	Adapter, for Contact and LED elements, 3-way	M22-A	Eaton	216374	E6042906
S1	1 st	Contact element 1N/O	M22-K10	Eaton	216376	E6042924
U10	1 st	4-conductor chassis-mount terminal strip	862-1552	Wago	862-1552	E6188003
X1	38 st	2-conductor through terminal block	280-101	Wago	280-101	G01KLE0498
Y1	1 st	Trip coil 16 VDC	YK-TA-Z06	Jiande Yuke Electric		E6126703
Y5	1 st	Blocking / Closing coil 24VDC	SDO-0837S-24A57.6	Zanty		6013636
cc	1 st	Cable clamp 3x1 36-52mm		Eaton		665868

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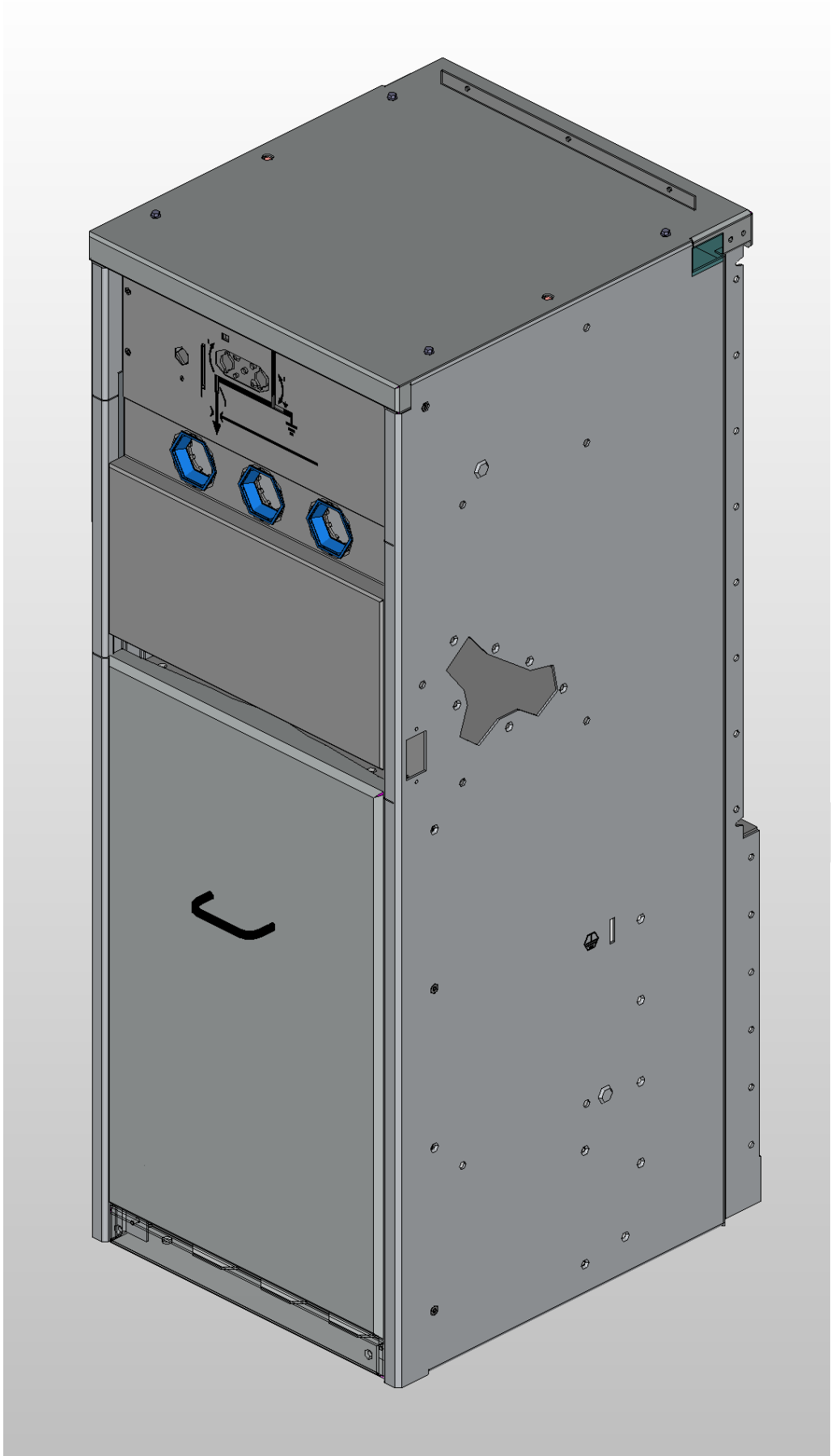
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			Appr.	SSE	Drawing number					Inst. type	Xiria 630		

Terminal diagram

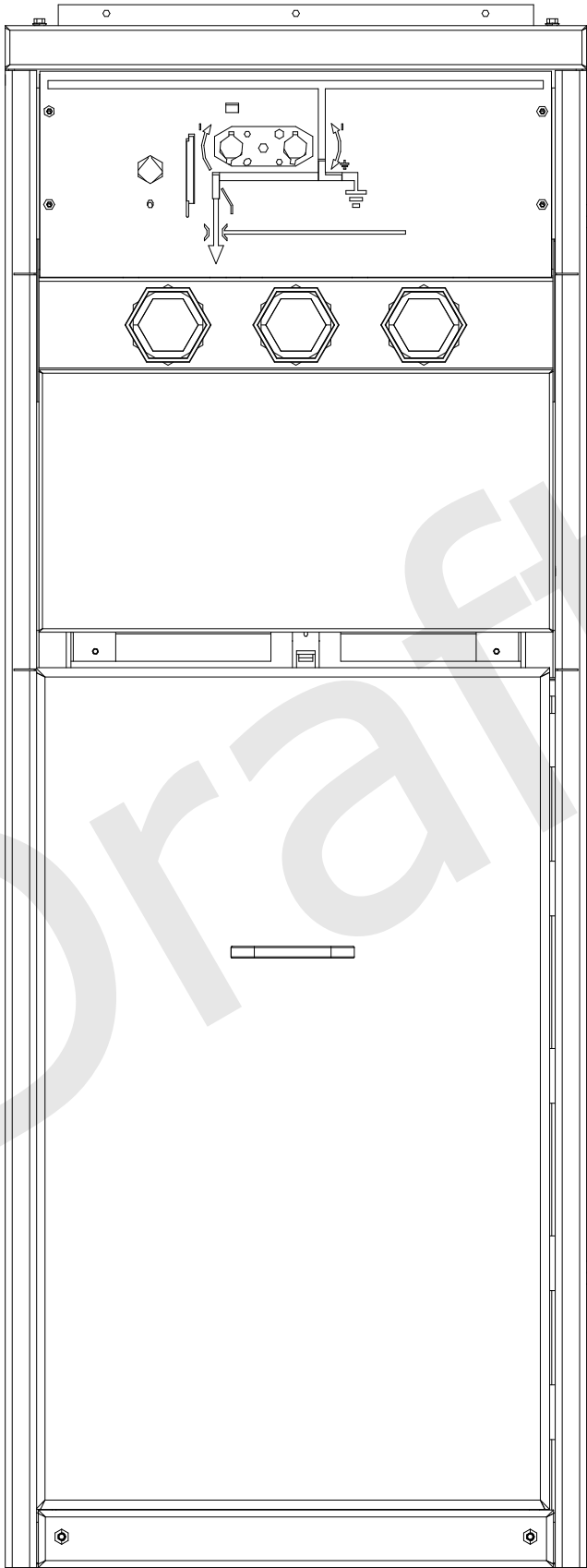
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Terminal diagram

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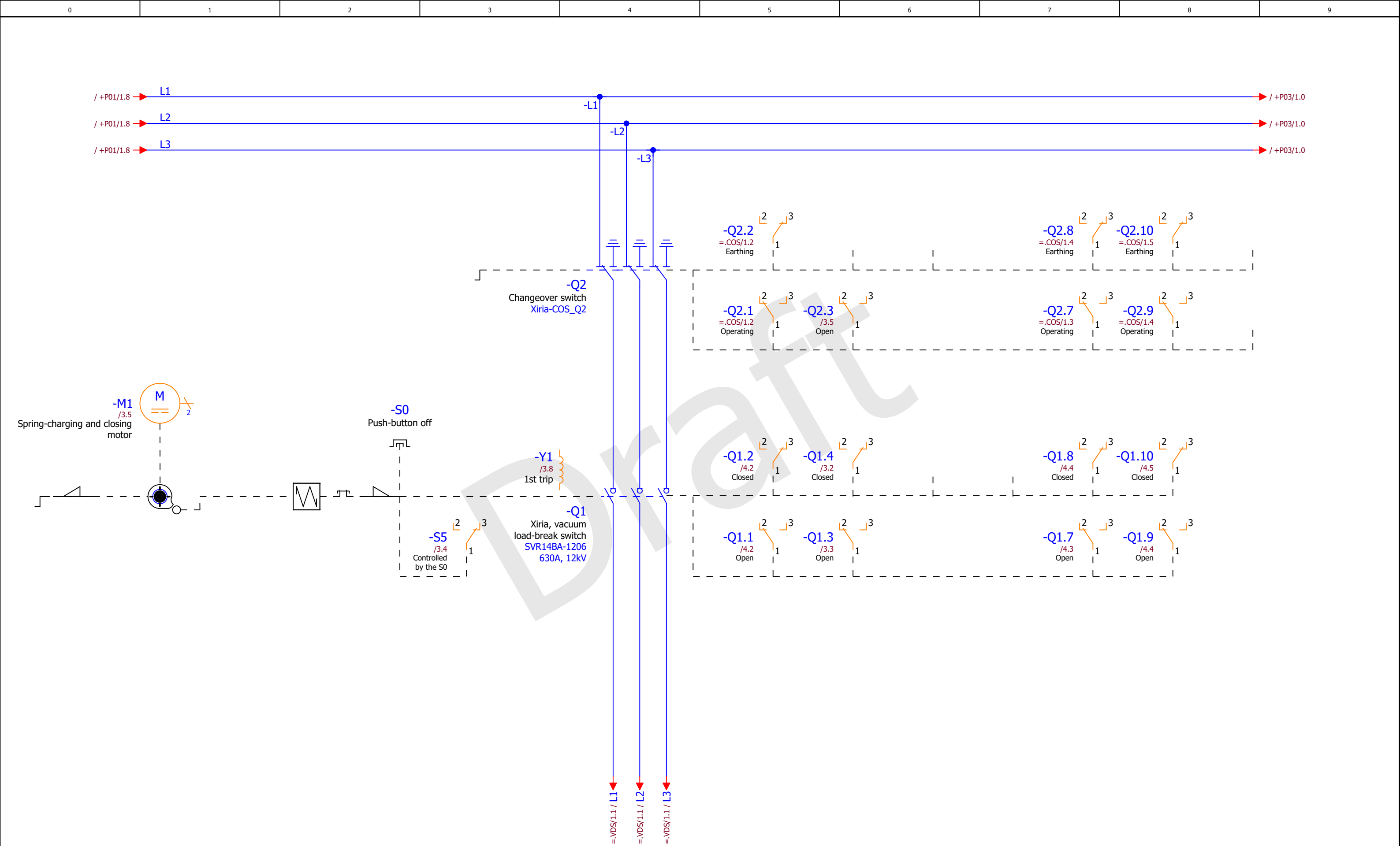


3D View



Front

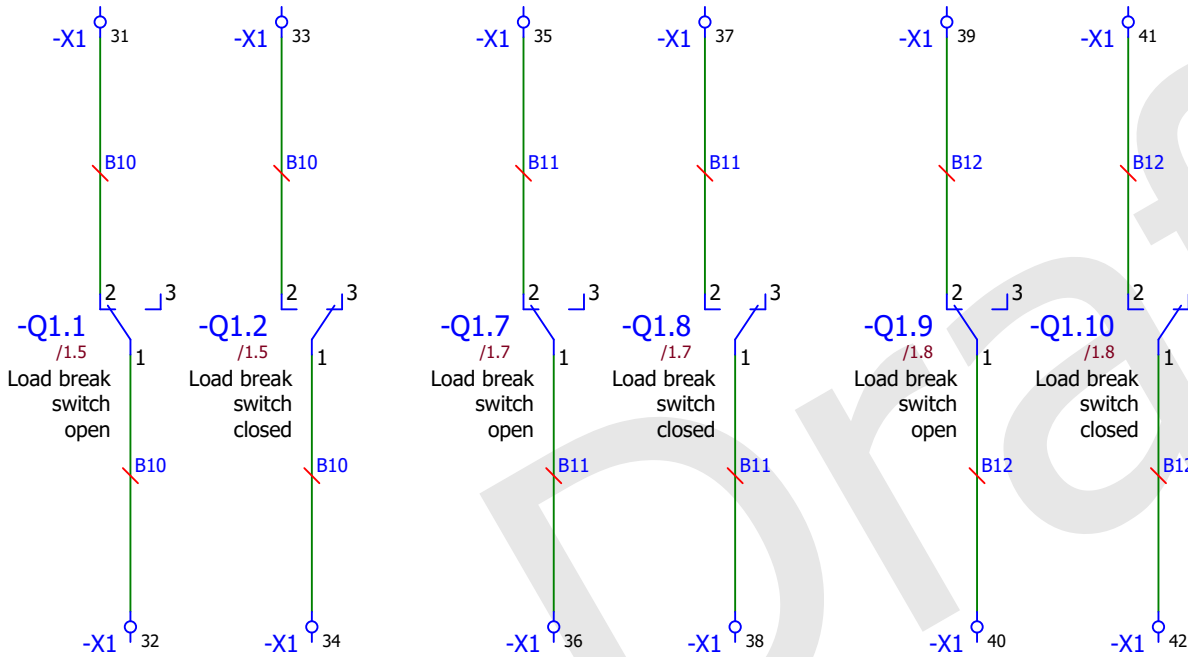
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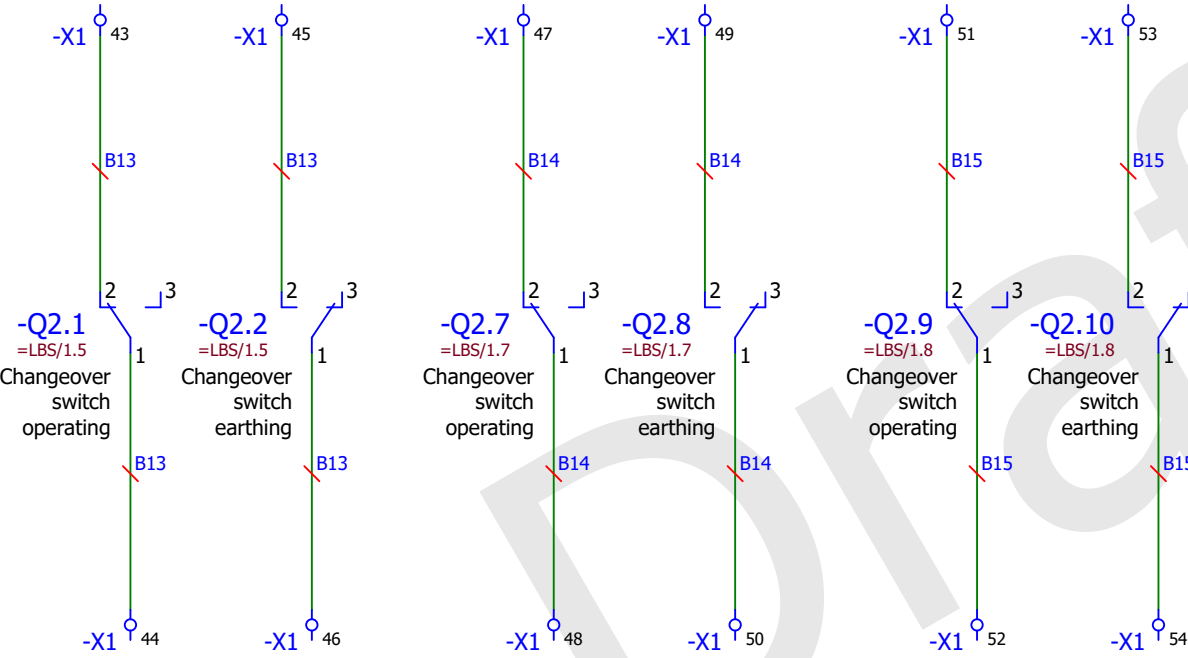
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
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Rev.	Date	Name	Date	11/12/2025	Customer	Please select		Auxiliary contacts	LBS	Load break switch system	Panel 2	1
			Drw.	EEC	Name of switchgear	Please fill in			LBS.COS	Changeover switch system		Page
			Check.	ESN	Project number	LLLTv_10_12kV_16kA			Inst. type	Xiria 630		22 /45
			Appr.	SSE	Drawing number							

Summarized parts list

Device tag	Quantity	Description	Type	Manufacture	Part number	ERP number
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B4	1 st	Wire bundle for remote control CB + LBS	Bundle 4	Eaton		E6099632
B5	1 st	Wire bundle for remote control CB + LBS	Bundle 5 + T.X1	Eaton		E6079619
B7	1 st	Wire bundle for closing and tripping LBS	Bundle 7	Eaton		E6079620
B10	1 st	Wire bundle for 1st set Auxiliary contacts Q1	Bundle 10 + T.X1	Eaton		E6099633
B11	1 st	Wire bundle for 2nd set Auxiliary contacts Q1	Bundle 11 + T.X1	Eaton		E6099634
B12	1 st	Wire bundle for 3rd set Auxiliary contacts Q1	Bundle 12 + T.X1	Eaton		E6099635
B13	1 st	Wire bundle for 1st set Auxiliary contacts Q2	Bundle 13 + T.X1	Eaton		E6099636
B14	1 st	Wire bundle for 2nd set Auxiliary contacts Q2	Bundle 14 + T.X1	Eaton		E6099637
B15	1 st	Wire bundle for 3rd set Auxiliary contacts Q2	Bundle 15 + T.X1	Eaton		E6099638
BA1	1 st	Wire bundle for voltage indicator	Bundle A1	Eaton		E6031010
BA1a	1 st	Earth wire for voltage indicator	Bundle A1a	Eaton		E6175310
C	1 st	Cable connector set Screw type C short	C	Eaton		665687
C1...C3	3 st	Capacitor for voltage indicator		Eaton		
F7	1 st	Fuse terminal	STK 2 BU - 1078.5	Contaclip		
F7	1 st	Glass fuse	Flink 3.15A/250V	Philips		
K7	1 st	Controller for remote control	E6036086 rev 02	Eaton		E6036086
K9;K12	2 st	Link		Eaton		
M1	1 st	Spring-charging and closing motor 24VDC	TT-555246000-24Vdc	Sgmada		6009016
Q1	1 st	Xiria, vacuum load-break switch 630A, 12kV	SVR14BA-1206	Eaton		
Q1.1...Q1.4;Q1.7...Q1.10 Q2.1...Q2.3;Q2.7...Q2.10;S2.1 S4;S5	18 st	Changeover auxiliary contact	X3M315N8MBT22	Johnson Electric	X3M315N8MBT22	6075486
Q2	1 st	Changeover switch	Xiria-COS_Q2	Eaton		
S0	1 st	Push-button off - " 0 " - mechanical tripping	M22	Eaton		6900074
S1	1 st	Push-button, flush, green (I), momentary	M22-D-G-X1	Eaton	216607	E6042915
S1	1 st	Adapter, for Contact and LED elements, 3-way	M22-A	Eaton	216374	E6042906
S1	1 st	Contact element 1N/O	M22-K10	Eaton	216376	E6042924
U10	1 st	4-conductor chassis-mount terminal strip	862-1552	Wago	862-1552	E6188003
X1	38 st	2-conductor through terminal block	280-101	Wago	280-101	G01KLE0498
Y1	1 st	Trip coil 16 VDC	YK-TA-Z06	Jiande Yuke Electric		E6126703
Y5	1 st	Blocking / Closing coil 24VDC	SDO-0837S-24A57.6	Zanty		6013636
cc	1 st	Cable clamp 3x1 36-52mm		Eaton		665868

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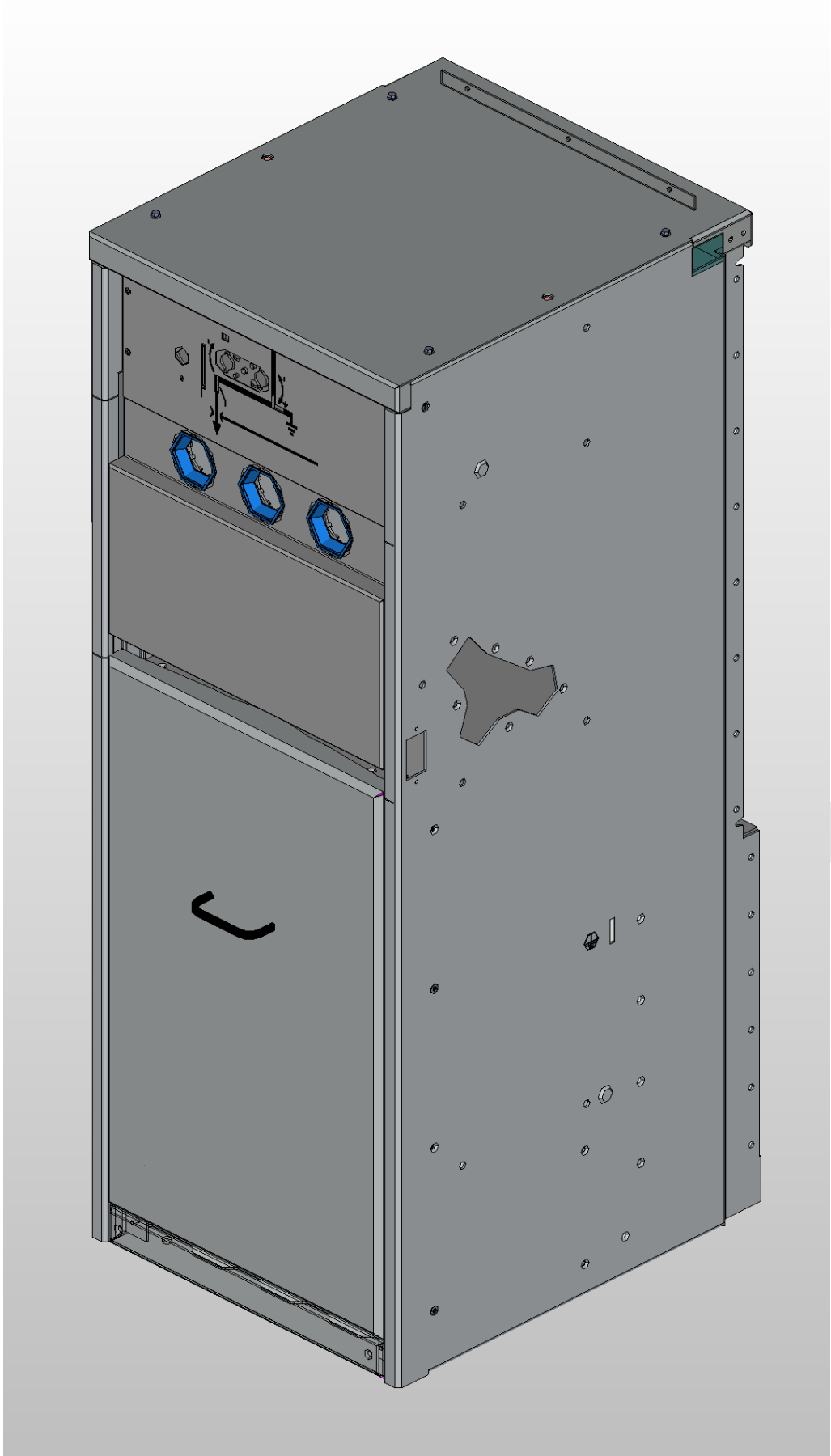
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			Appr.	SSE	Drawing number					Inst. type	Xiria 630		

Terminal diagram

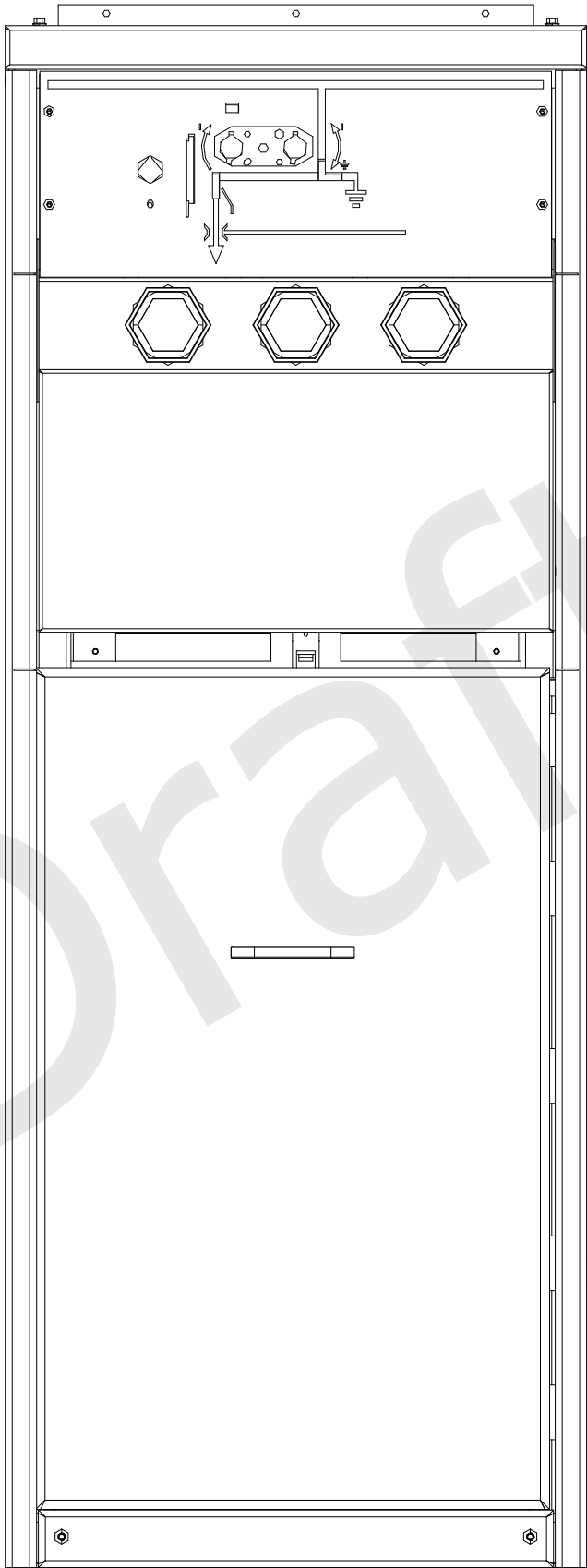
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Terminal diagram

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3D View



Front

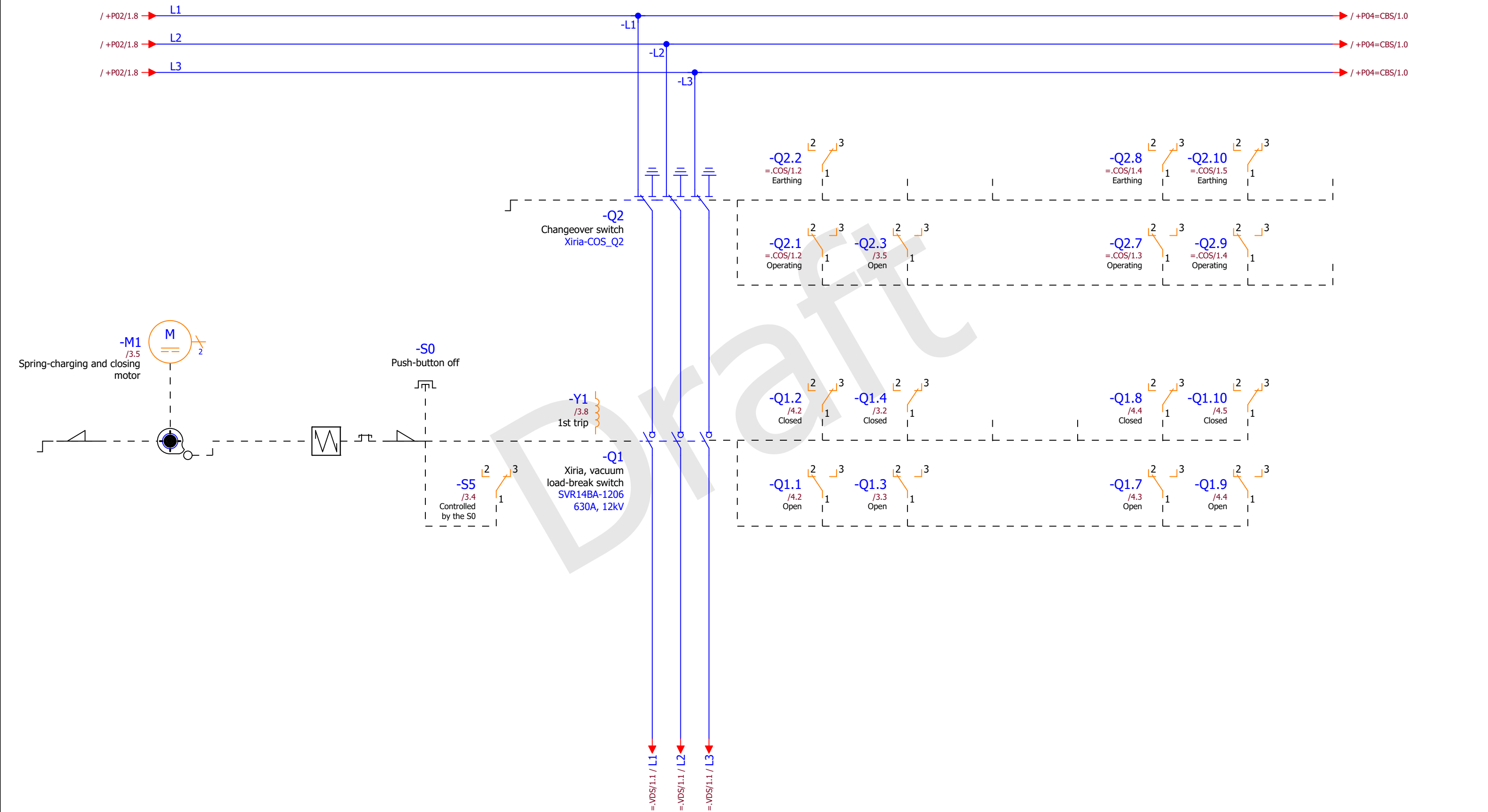
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			Appr.	SSE	Drawing number	



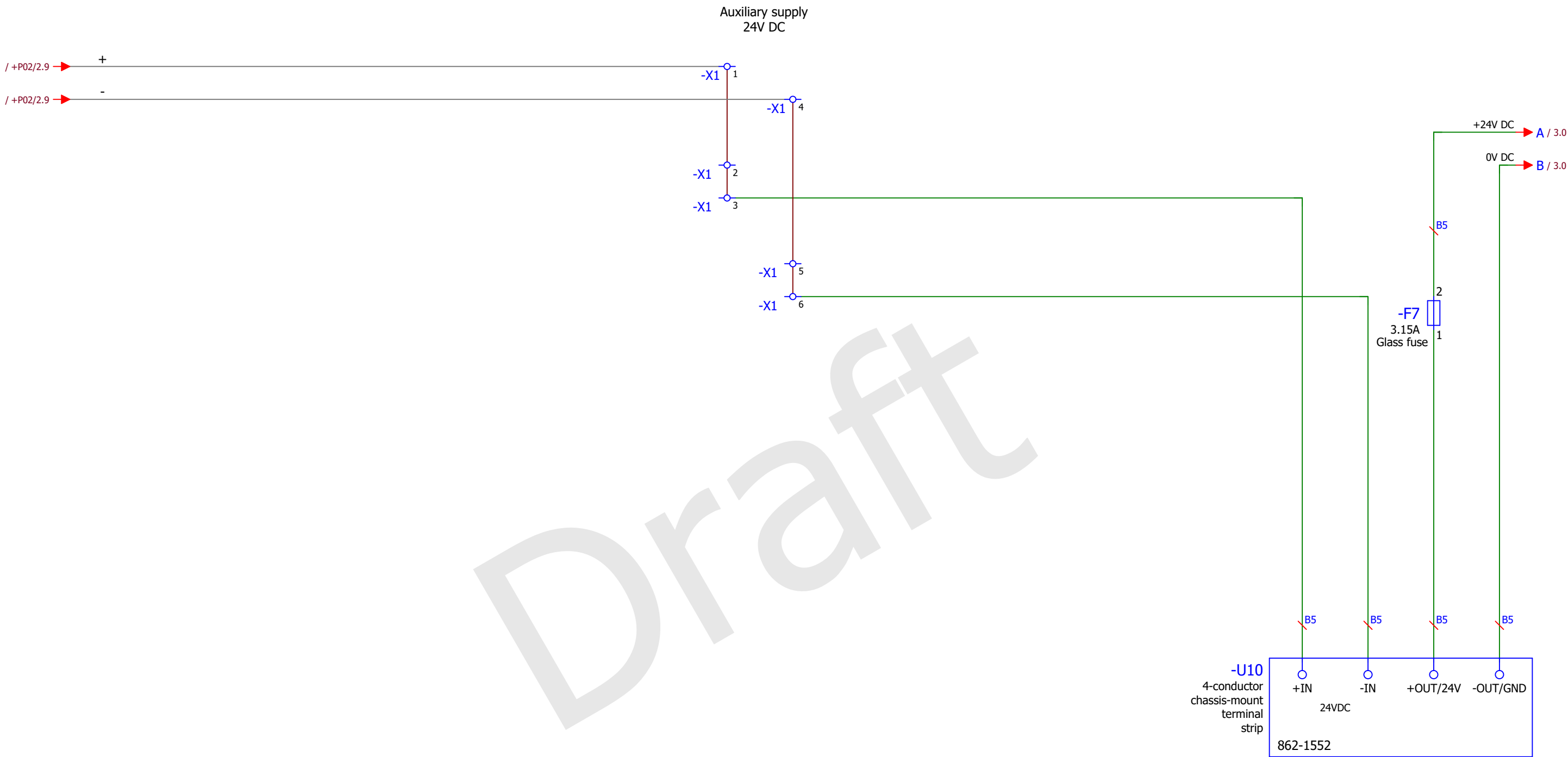
Page Description		Code	System data	Location data	Sheet
Model view - Panel layout				Panel 2	500
					Page 27 /45
		Inst. type Xiria 630			



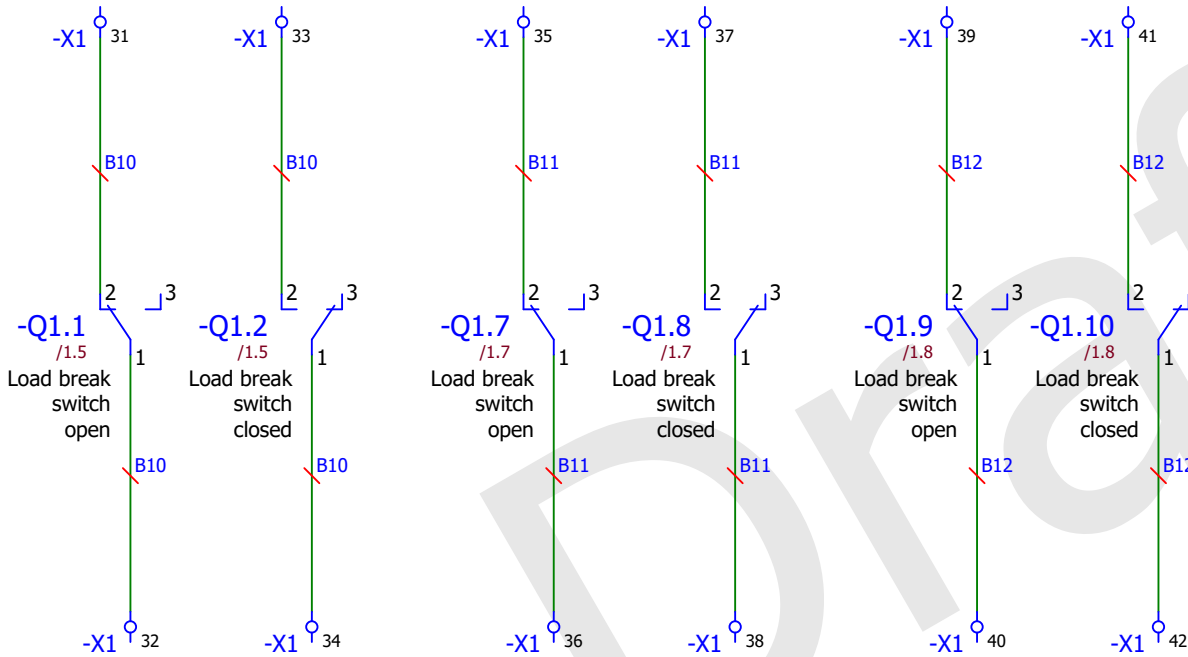
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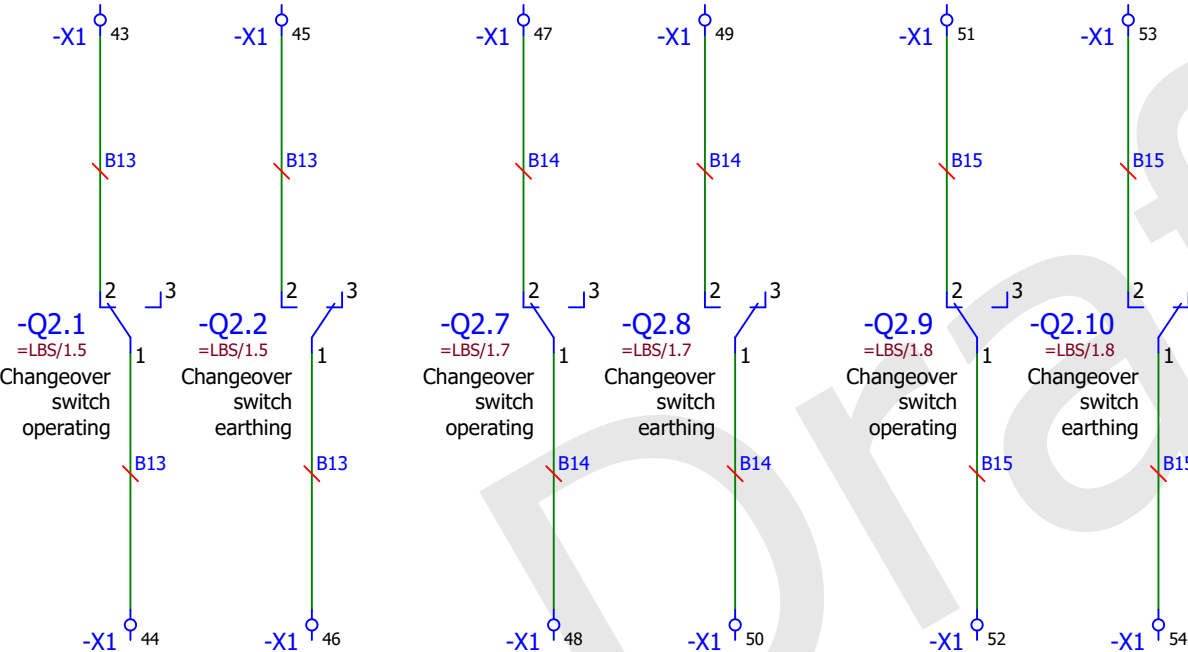
Status			Creation data		Project data		<div><div></div><div>EAT•N</div><div>Powering Business Worldwide</div></div>	Page description	Code	System data		Location data	Sheet
Rev.	Date	Name	Date	11/12/2025	Customer	Please select		Multi Line	LBS	Load break switch system		Panel 3	1
			Drw.	EEC	Name of switchgear	Please fill in							Page
			Check.	ESN	Project number	LLLTv_10_12kV_16kA							28 /45
			Appr.	SSE	Drawing number				Inst. type	Xiria 630			





Status			Creation data		Project data		<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	Page description		Code	System data	Location data	Sheet
Rev.	Date	Name	Date	11/12/2025	Customer	Please select			Auxiliary supply		LBS	Load break switch system	Panel 3	2
			Drw.	EEC	Name of switchgear	Please fill in								Page
			Check.	ESN	Project number	LLLTv_10_12kV_16kA								29 /45
			Appr.	SSE	Drawing number						Inst. type	Xiria 630		



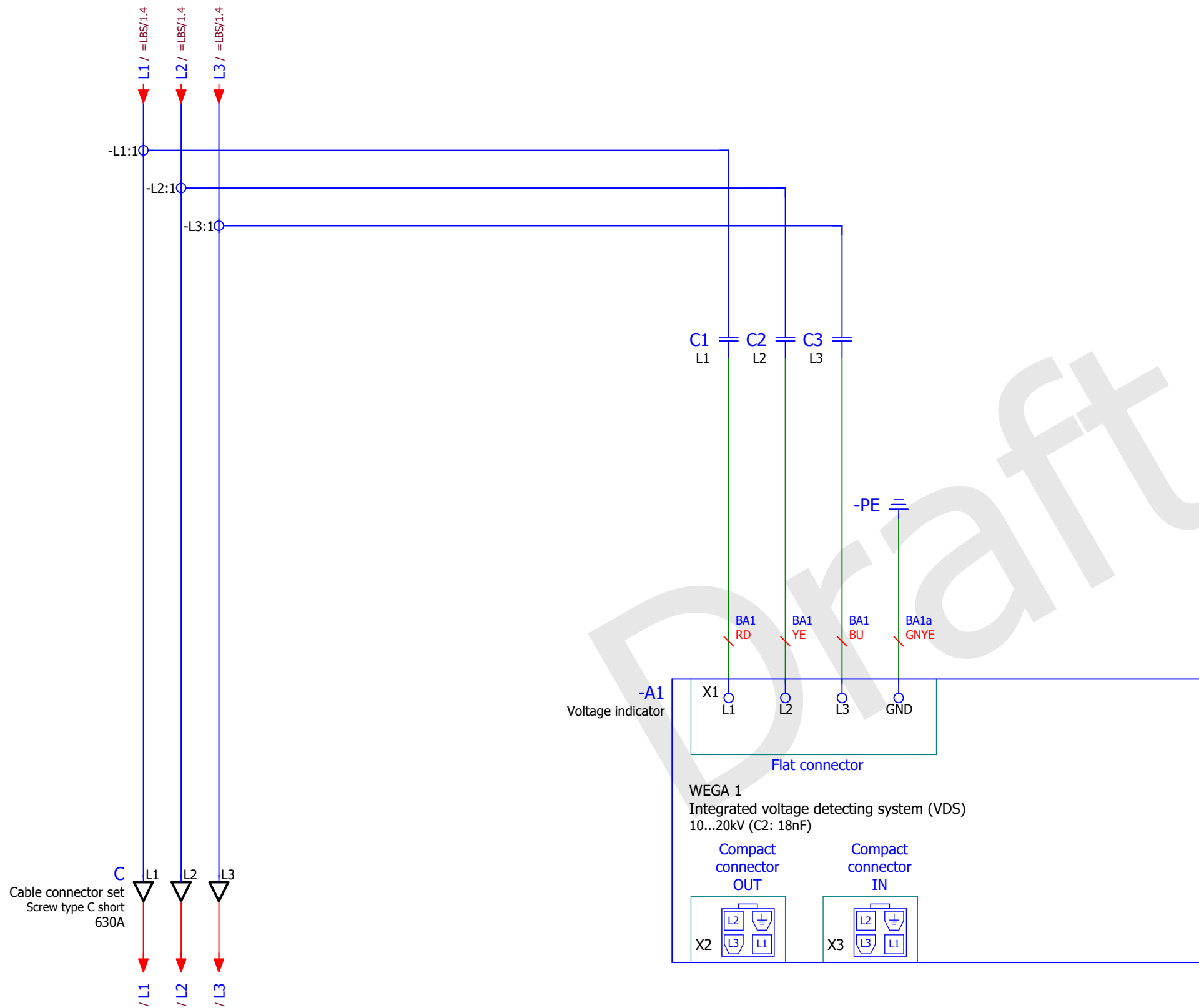
Status			Creation data		Project data		<div><div></div><div></div><div></div></div> <div>EAT•N</div> <div>Powering Business Worldwide</div>	Page description	Code	System data	Location data	Sheet
Rev.	Date	Name	Date	11/12/2025	Customer	Please select		Auxiliary contacts	LBS	Load break switch system	Panel 3	4
			Drw.	EEC	Name of switchgear	Please fill in						Page
			Check.	ESN	Project number	LLLTv_10_12kV_16kA						31 /45
			Appr.	SSE	Drawing number				Inst. type	Xiria 630		




 =LBS/4

=.VDS/1 

Status			Creation data		Project data			Page description	Code	System data	Location data	Sheet
Rev.	Date	Name	Date	11/12/2025	Customer	Please select		Auxiliary contacts	LBS	Load break switch system	Panel 3	1
			Drw.	EEC	Name of switchgear	Please fill in			LBS.COS	Changeover switch system		Page
			Check.	ESN	Project number	LLLTv_10_12kV_16kA			Inst. type	Xiria 630		32 /45
			Appr.	SSE	Drawing number							



 =.COS/1

=/200 

Status			Creation data		Project data			Page description	Code	System data		Location data	Sheet
Rev.	Date	Name	Date	11/12/2025	Customer	Please select		Voltage indicator circuit	LBS	Load break switch system		Panel 3	1
			Drw.	EEC	Name of switchgear	Please fill in			LBS.VDS	Voltage detection system			Page
			Check.	ESN	Project number	LLLTv_10_12kV_16kA			Inst. type	Xiria 630			33 /45
			Appr.	SSE	Drawing number								

Summarized parts list

Device tag	Quantity	Description	Type	Manufacture	Part number	ERP number
A1	1 st	Integrated voltage detecting system (VDS) 10-20kV (C2: 18nF)	WEGA 1	Horstmann	51-1800-125	E6205078
B4	1 st	Wire bundle for remote control CB + LBS	Bundle 4	Eaton		E6099632
B5	1 st	Wire bundle for remote control CB + LBS	Bundle 5 + T.X1	Eaton		E6079619
B7	1 st	Wire bundle for closing and tripping LBS	Bundle 7	Eaton		E6079620
B10	1 st	Wire bundle for 1st set Auxiliary contacts Q1	Bundle 10 + T.X1	Eaton		E6099633
B11	1 st	Wire bundle for 2nd set Auxiliary contacts Q1	Bundle 11 + T.X1	Eaton		E6099634
B12	1 st	Wire bundle for 3rd set Auxiliary contacts Q1	Bundle 12 + T.X1	Eaton		E6099635
B13	1 st	Wire bundle for 1st set Auxiliary contacts Q2	Bundle 13 + T.X1	Eaton		E6099636
B14	1 st	Wire bundle for 2nd set Auxiliary contacts Q2	Bundle 14 + T.X1	Eaton		E6099637
B15	1 st	Wire bundle for 3rd set Auxiliary contacts Q2	Bundle 15 + T.X1	Eaton		E6099638
BA1	1 st	Wire bundle for voltage indicator	Bundle A1	Eaton		E6031010
BA1a	1 st	Earth wire for voltage indicator	Bundle A1a	Eaton		E6175310
C	1 st	Cable connector set Screw type C short	C	Eaton		665687
C1...C3	3 st	Capacitor for voltage indicator		Eaton		
F7	1 st	Fuse terminal	STK 2 BU - 1078.5	Contaclip		
F7	1 st	Glass fuse	Flink 3.15A/250V	Philips		
K7	1 st	Controller for remote control	E6036086 rev 02	Eaton		E6036086
K9;K12	2 st	Link		Eaton		
M1	1 st	Spring-charging and closing motor 24VDC	TT-555246000-24Vdc	Sgmada		6009016
Q1	1 st	Xiria, vacuum load-break switch 630A, 12kV	SVR14BA-1206	Eaton		
Q1.1...Q1.4;Q1.7...Q1.10 Q2.1...Q2.3;Q2.7...Q2.10;S2.1 S4;S5	18 st	Changeover auxiliary contact	X3M315N8MBT22	Johnson Electric	X3M315N8MBT22	6075486
Q2	1 st	Changeover switch	Xiria-COS_Q2	Eaton		
S0	1 st	Push-button off - " 0 " - mechanical tripping	M22	Eaton		6900074
S1	1 st	Push-button, flush, green (I), momentary	M22-D-G-X1	Eaton	216607	E6042915
S1	1 st	Adapter, for Contact and LED elements, 3-way	M22-A	Eaton	216374	E6042906
S1	1 st	Contact element 1N/O	M22-K10	Eaton	216376	E6042924
U10	1 st	4-conductor chassis-mount terminal strip	862-1552	Wago	862-1552	E6188003
X1	38 st	2-conductor through terminal block	280-101	Wago	280-101	G01KLE0498
Y1	1 st	Trip coil 16 VDC	YK-TA-Z06	Jiande Yuke Electric		E6126703
Y5	1 st	Blocking / Closing coil 24VDC	SDO-0837S-24A57.6	Zanty		6013636
cc	1 st	Cable clamp 3x1 36-52mm		Eaton		665868

$$=LBS.VDS/1$$

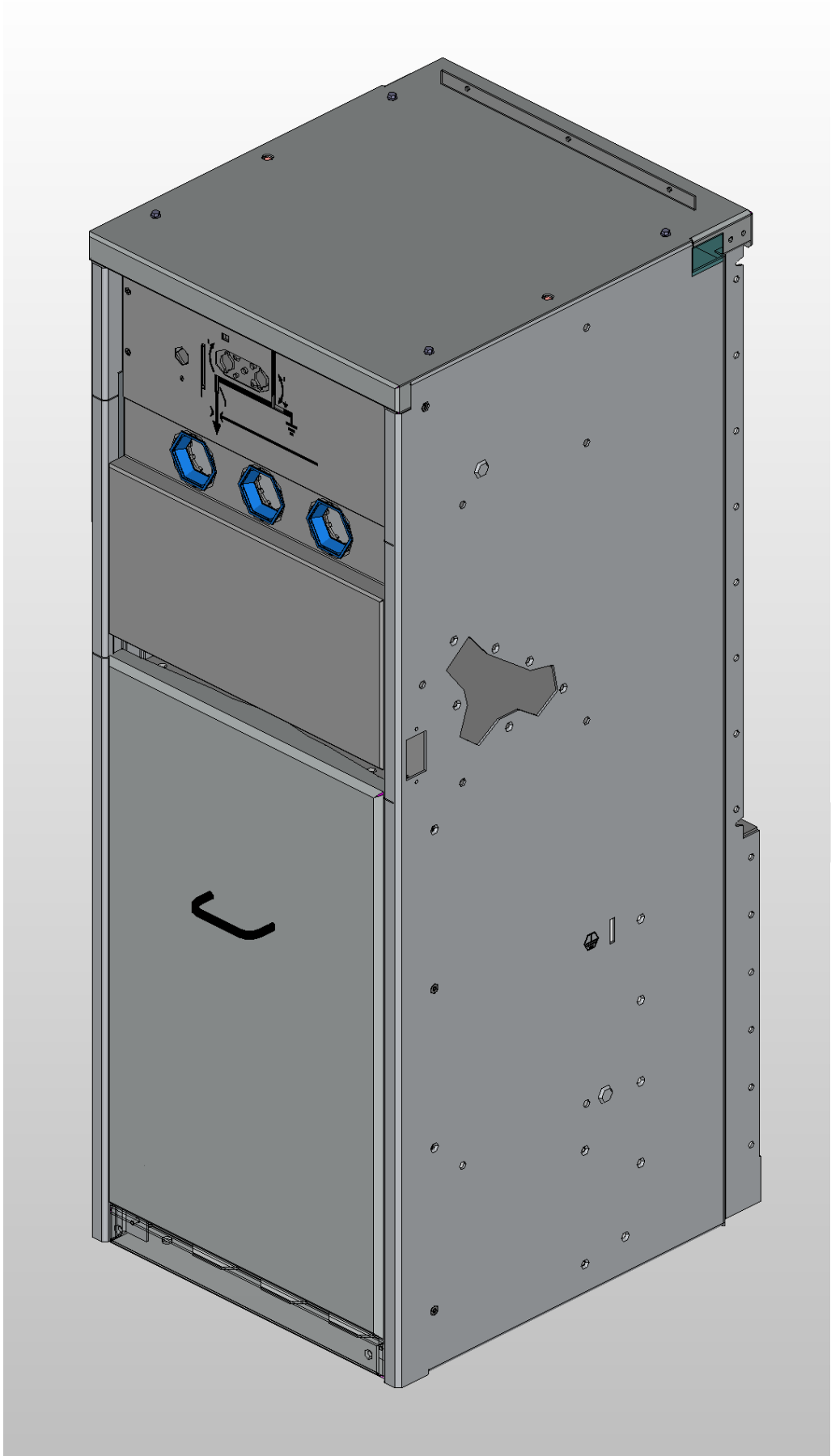
Status			Creation data		Project data			 <i>Powering Business Worldwide</i>	Page Description	Code	System data	Location data	Sheet
Rev.	Date	Name	Date	11/12/2025	Customer	Please select			Summarized parts list			Panel 3	200
			Drw.	EEC	Name of switchgear	Please fill in							Page 34 /45
			Check.	ESN	Project number	LLLTv_10_12kV_16kA							
			Appr.	SSE	Drawing number					Inst. type	Xiria 630		

Terminal diagram

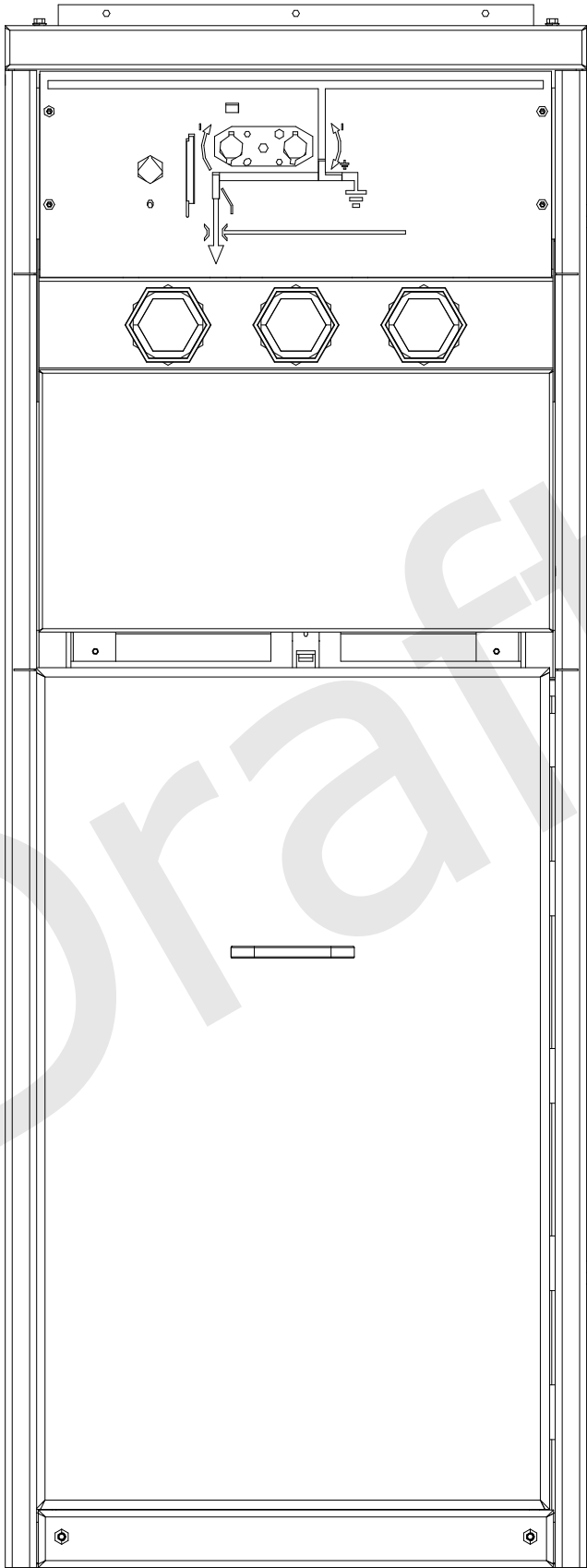
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Terminal diagram

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3D View



Front

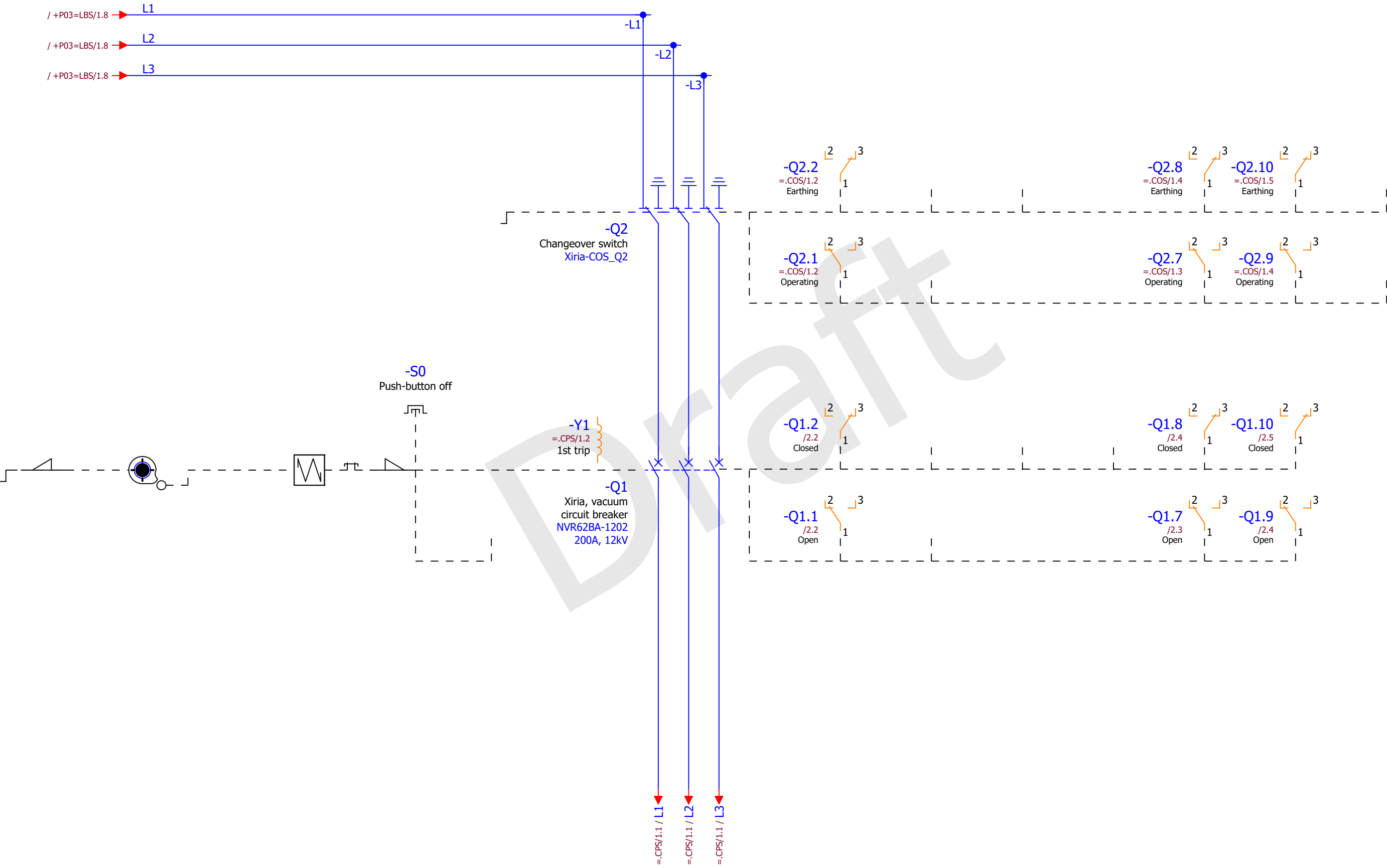
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Rev.	Date	Name	Date	11/12/2025	Customer	Please select
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			Check.	ESN	Project number	LLLTv_10_12kV_16kA
			Appr.	SSE	Drawing number	



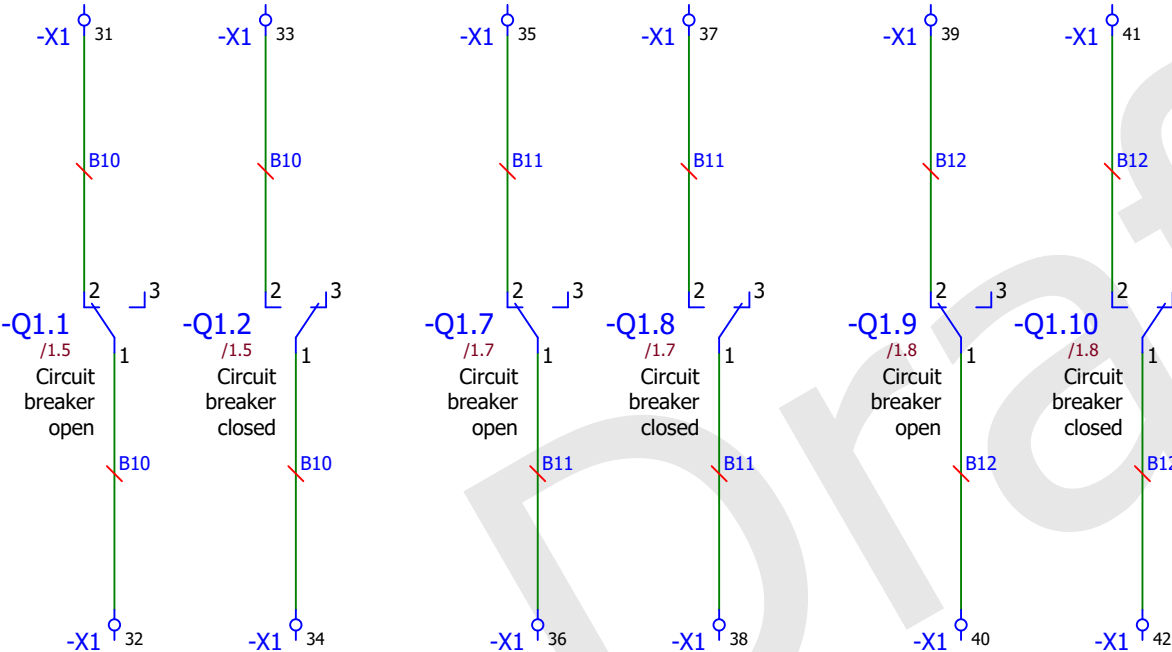
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Model view - Panel layout			Panel 3	500
				Page 37 /45
	Inst. type	Xiria 630		



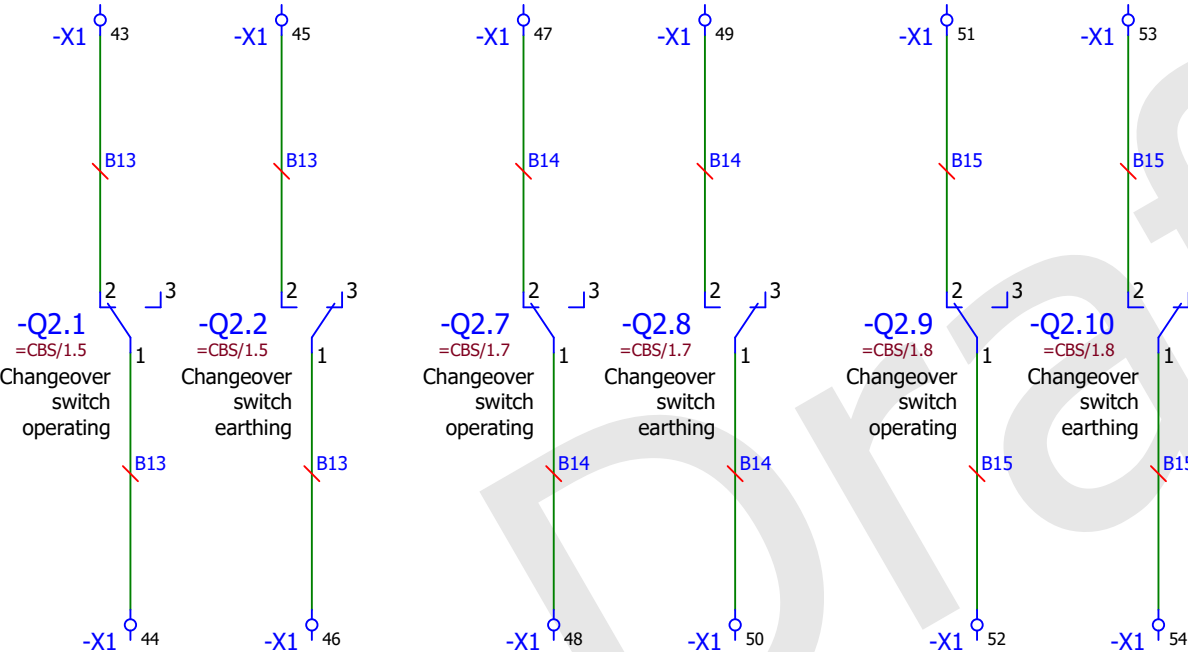
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
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Status			Creation data		Project data		<div> Powering Business Worldwide</div>	Page description	Code	System data	Location data	Sheet
Rev.	Date	Name	Date	11/12/2025	Customer	Please select		Multi Line	CBS	Circuit breaker system	Panel 4	1
			Drw.	EEC	Name of switchgear	Please fill in						Page
			Check.	ESN	Project number	LLLTv_10_12kV_16kA						38 /45
			Appr.	SSE	Drawing number				Inst. type	Xiria 630		



Status			Creation data		Project data		<div><div></div><div></div><div></div></div>	<div><div><div>EAT•N</div><div>Powering Business Worldwide</div></div></div>	Page description	Code	System data	Location data	Sheet
Rev.	Date	Name	Date	11/12/2025	Customer	Please select			Auxiliary contacts	CBS	Circuit breaker system	Panel 4	2
			Drw.	EEC	Name of switchgear	Please fill in							Page
			Check.	ESN	Project number	LLLTv_10_12kV_16kA							39 /45
			Appr.	SSE	Drawing number					Inst. type	Xiria 630		



 =CBS/2

=.CPS/1 

Status			Creation data		Project data			Page description	Code	System data	Location data	Sheet
Rev.	Date	Name	Date	11/12/2025	Customer	Please select		Auxiliary contacts	CBS	Circuit breaker system	Panel 4	1
			Drw.	EEC	Name of switchgear	Please fill in			CBS.COS	Changeover switch system		Page
			Check.	ESN	Project number	LLLTv_10_12kV_16kA			Inst. type	Xiria 630		40 /45
			Appr.	SSE	Drawing number							

Summarized parts list

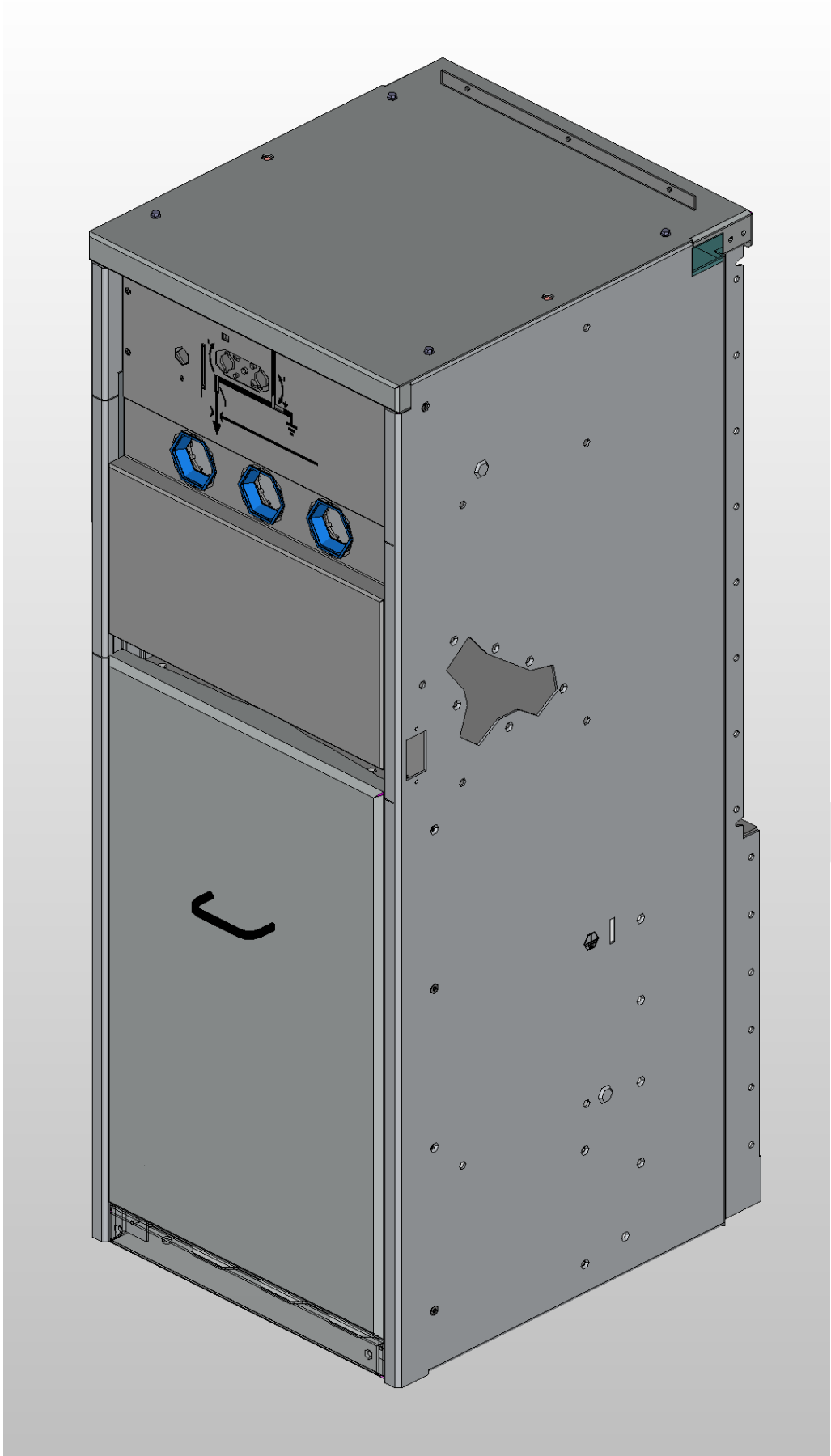
Device tag	Quantity	Description	Type	Manufacture	Part number	ERP number
A1	1 st	Integrated voltage detecting system (VDS) 10-20kV (C2: 18nF)	WEGA 1	Horstmann	51-1800-125	E6205078
B3	1 st	Wire bundle for Tripping Circuit breaker WIC protection	Bundle 3	Eaton		E6079621
B10	1 st	Wire bundle for 1st set Auxiliary contacts Q1	Bundle 10 + T.X1	Eaton		E6099633
B11	1 st	Wire bundle for 2nd set Auxiliary contacts Q1	Bundle 11 + T.X1	Eaton		E6099634
B12	1 st	Wire bundle for 3rd set Auxiliary contacts Q1	Bundle 12 + T.X1	Eaton		E6099635
B13	1 st	Wire bundle for 1st set Auxiliary contacts Q2	Bundle 13 + T.X1	Eaton		E6099636
B14	1 st	Wire bundle for 2nd set Auxiliary contacts Q2	Bundle 14 + T.X1	Eaton		E6099637
B15	1 st	Wire bundle for 3rd set Auxiliary contacts Q2	Bundle 15 + T.X1	Eaton		E6099638
BA1	1 st	Wire bundle for voltage indicator	Bundle A1	Eaton		E6031010
BA1a	1 st	Earth wire for voltage indicator	Bundle A1a	Eaton		E6175310
C	1 st	Cable connector set Screw type C long	C	Eaton		665688
C1...C3	3 st	Capacitor for voltage indicator		Eaton		
F1	1 st	CT Powered Time Overcurrent and Ground Current Relay Gen.2 - 50 Hz - measured earth current	WIC1-2SG5CC2SAH	Eaton	WIC1-2SG5CC2SAH	E6210969
Q1	1 st	Xiria, vacuum circuit breaker 200A, 12kV	NVR62BA-1202	Eaton		6077325
Q1.1;Q1.2;Q1.7...Q1.10;Q2.1 Q2.2;Q2.7...Q2.10;S2.1	13 st	Changeover auxiliary contact	X3M315N8MBT22	Johnson Electric	X3M315N8MBT22	6075486
Q2	1 st	Changeover switch	Xiria-COS_Q2	Eaton		
S0	1 st	Push-button off - " 0 " - mechanical tripping	M22	Eaton		6900074
T7...T9	3 st	Current transformer for protection 32-112A	WIC1-W3H3	Narayan Powertech Private Limited		E6106095
X1	24 st	2-conductor through terminal block	280-101	Wago	280-101	G01KLE0498
Y1	1 st	Trip coil 16 VDC	YK-TA-Z06	Jiande Yuke Electric		E6126703
cc	1 st	Cable clamp 3x1 36-52mm		Eaton		665868

=CBS.VDS/1

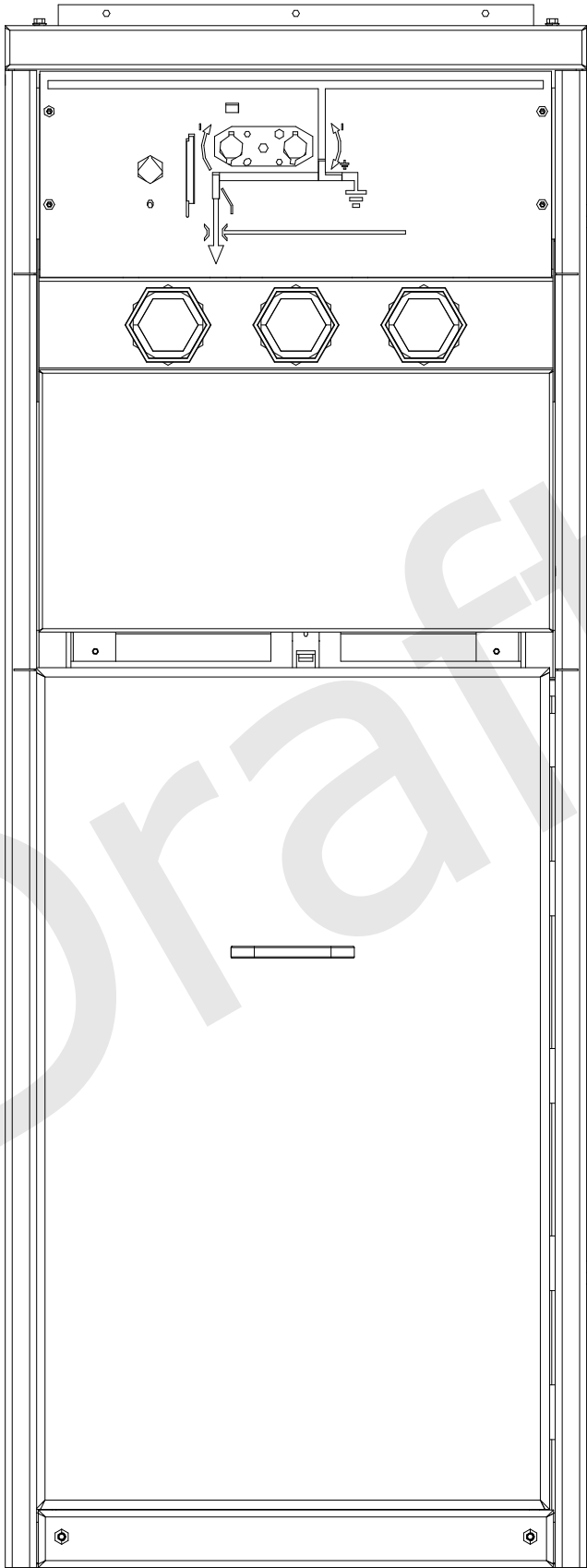
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Terminal diagram

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3D View



Front

400

Status			Creation data		Project data	
Rev.	Date	Name	Date	11/12/2025	Customer	Please select
			Drw.	EEC	Name of switchgear	Please fill in
			Check.	ESN	Project number	LLLTv_10_12kV_16kA
			Appr.	SSE	Drawing number	



Page Description		Code	System data	Location data	Sheet
Model view - Panel layout				Panel 4	500
					Page
		Inst. type	Xiria 630		45 /45