

Contents:	
1 .sheet	General remarks
2 .sheet	Circuit function remarks 1. on 2. page
	Circuit function remarks 2. on 2. page
3 .sheet	Circuit function remarks 1. on 3. page
4 .sheet	+PLACE01 /-KS1 /-F1
	+PLACE02 /-H1 /-T1.L1 /-T1.L2
5 .sheet	+PLACE02 /-T1.L3
6 .sheet	=E82+PLACE03 /-H2 /-K1
7 .sheet	Cable:=E01: /1. /2. /3. /4.
8 .sheet	Cable:=E82: /101. /102.

Fitting places:		
=E01	+PLACE01	First fitting place
=E01	+PLACE02	Second fitting place
=E82	+PLACE03	Third fitting place

Bus wires:	
120kV	120kV Bus-bar
EQUIT 01	Equipotencial 01
EQUIT 02	Equipotencial 02

OmegaCAD user settings:

Memory

System

Recommended

Colors

Display

Function

Cursor

Item snap

Snap to point

Graphics

Graphical workspace background color:

>>>

Block sample area background color:

>>>

Background layers color:

>>>

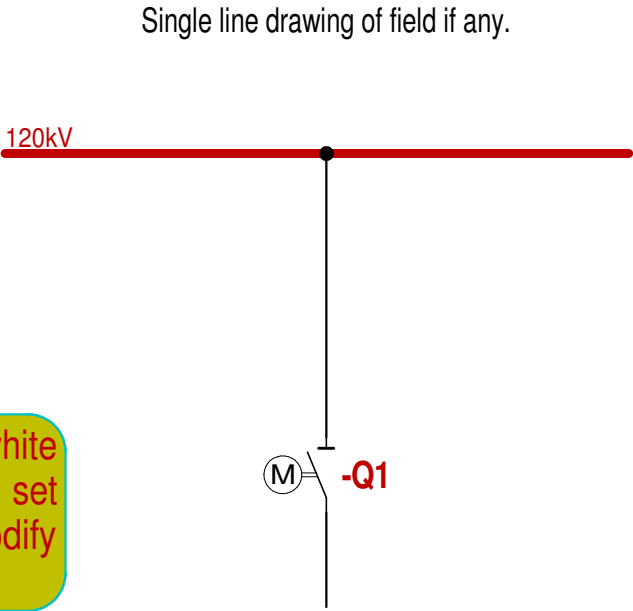
☒ Background layers color

Stamp color:

>>>

☒ Stamp colors:

Settings...



Made by with 'Make context' function. This funktion gathers all 'Context text' from the circuit logical plan, what the designer make, and from the apparatus and cable list page, what the system automatically placed

If likes to work on a white basis better then here set works colours. He may modify many other settings here!

This table made by with 'Make place table' function. This funktion gathers all fitting place from the circuit logical plan, what the designer set.

This table made by with 'Bus wire names table' function. This funktion gathers all bus wire from the circuit logical plan, what the designer set.

This plan data is set by 'Maintain project...' modul. In this modul you may bee set the first and second line the project name and the field name.

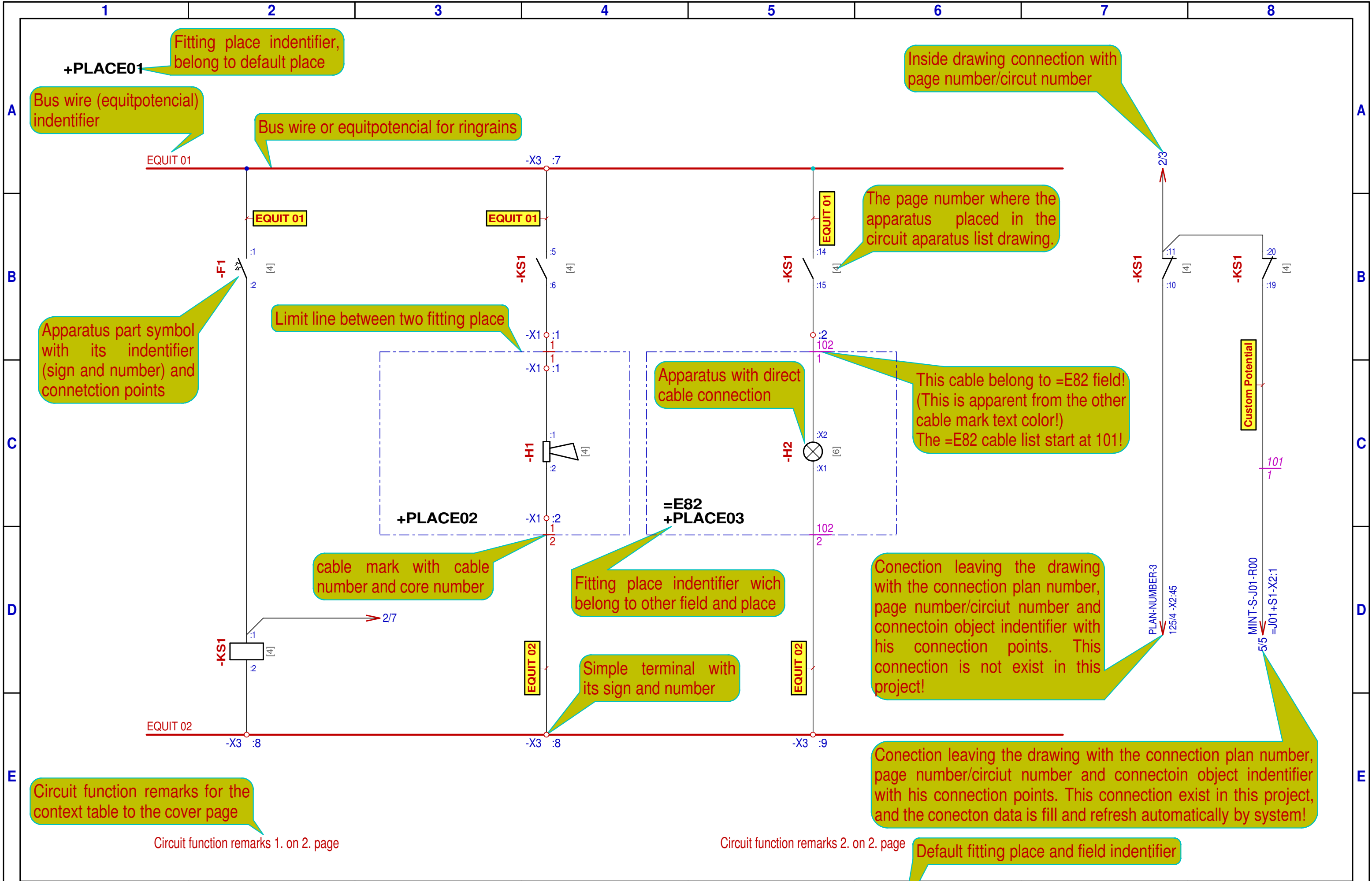
The your plan format you make in the 'Edit stamp' modul. You must be make own format all plan type for the cover and the next pages.

This plan data is set by 'Set plan stamp data' funktion.

General remarks

CHANGES						Head of department:	Dr. Boss	The interpretation of concepts in OmegaCAD ELEKTRO system		Example-Plan Ltd. H -1164 Budapest Takács str. 4. E-mail:info@omegasoft.hu	
						Leader designer:	Leslie Hegyaljai				
						Designer:	Omega-Soft Kft.	Theme: Circuit diagram (Plan type) "D" plan (Plan nature)		Demonstarion plan (Plan name)	
						Controller:	Example Controllor	=E01 The interpretation of concepts in OmegaCAD ELEKTRO system		PLAN-NUMBER-1 A	
						Editor:	OmegaCAD ELEKTRO				
						Date:	2009.03.03.	All sheet: 9		Sheetnumber: 1.	
						Scale:	M=1:1	Plan number/Change:			
						Sheet size:	A3 420x297mm	Plan code: PLAN-CODE			
						Printing date:	2015.2.18.	9h 16' 25".			
	A	2009.03.03.	Charles Szopko	OmegaManager	OmegaController	Demonstration plan change version	Change contents				
	Sign	Date	Designer	Manager	Controller						

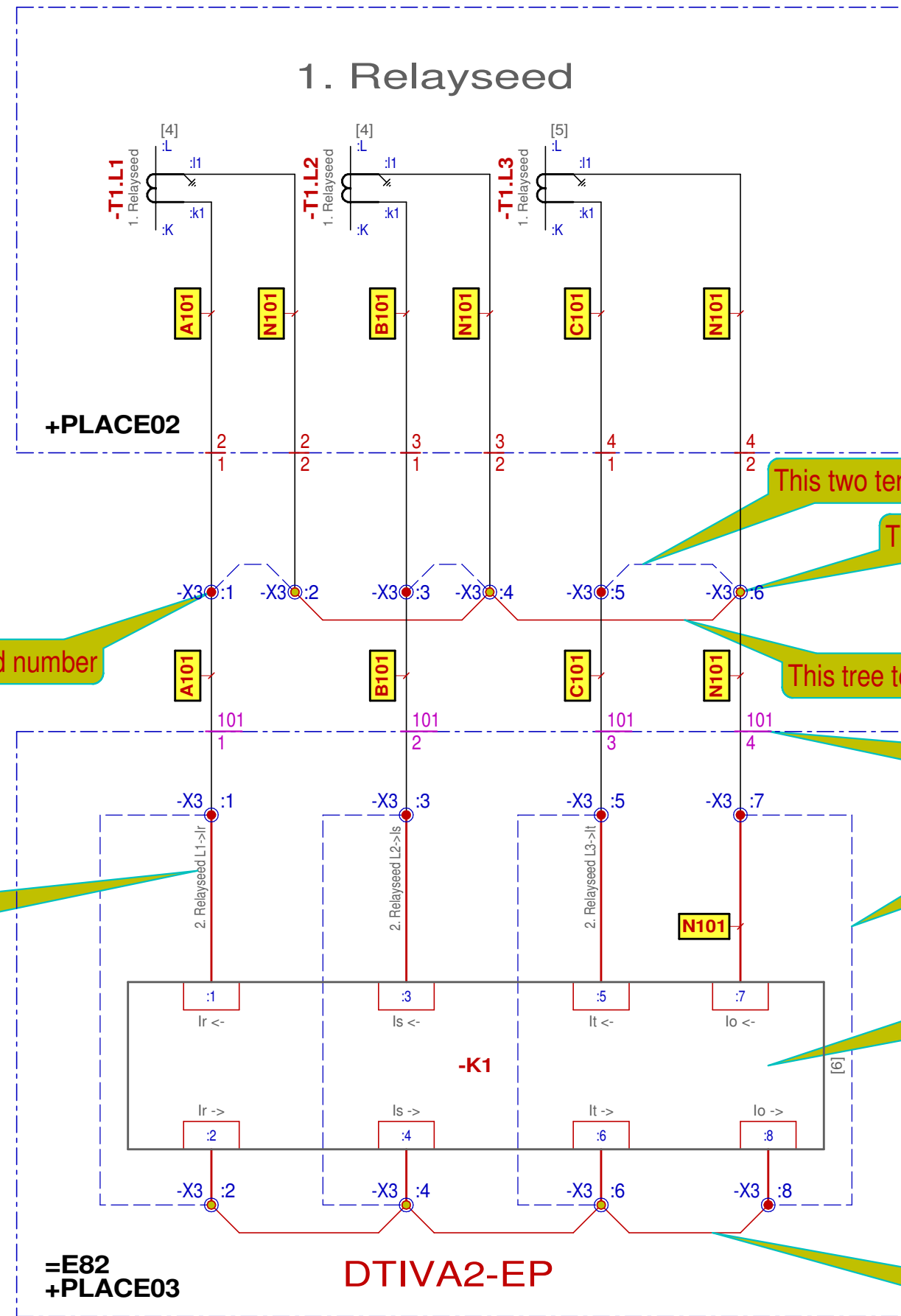
This plan data is set by 'Set plan stamp data' funktion.



The interpretation of concepts in OmegaCAD ELEKTRO system The interpretation of concepts in OmegaCAD ELEKTRO system				Change: A	Example-Plan Ltd. Example-Plan Ltd.	=E01 +PLACE01		Plan number: PLAN-NUMBER-1	Sheet: 2 9
				Date: 2009.03.03.				Plan code: PLAN-CODE	

+PLACE01

When you are redy making the circiut logical plan, you must be used the 'Evaluation' modul, and there must make all analyse! After the analyse the system fill all terminal number, and cable number and cable core number, what you do not set directly!



Disconnectable terminal with its sign and number

This terminal has 'Terminal name'. This text also appear in fitting plan.

This two terminal is sortcat!

Terminal rail screwed is in!

This tree terminal is connect with rail!

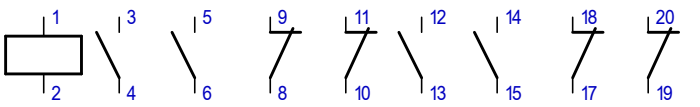
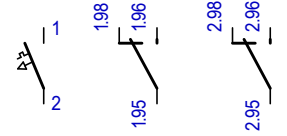
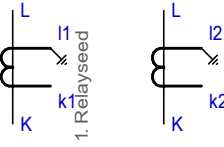
This cable belong to =E82 field! (This is apparent from the other cable mark text color!)

This two terminal is sortcat!

Apparatus part which appears with 'box' style.

This four terminal is connect with rail!

Circuit function remarks 1. on 3. page

Ftg. place	Apparatus name	Attributes	Nominal datas	Plansign	Pcs.	Placement of apparatus part [Sheet/Circuit diagram position]																																														
+PLACE01	auxiliary relay	RUs-18 4z+4ny Un érintk./In tipusszám	= 220 V~ = 4z+4ny = 714558	-KS1	1																																															
						<table><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>17</td><td>18</td><td>19</td><td>20</td></tr><tr><td>2</td><td>2</td><td>—</td><td>2</td><td>2</td><td>4</td><td>—</td><td>2</td><td>7</td><td>—</td><td>2</td><td>5</td><td>—</td><td>2</td><td>—</td><td>2</td><td>8</td><td>2</td><td>8</td></tr></table>																1	2	3	4	5	6	8	9	10	11	12	13	14	15	17	18	19	20	2	2	—	2	2	4	—	2	7	—	2	5	—
1	2	3	4	5	6	8	9	10	11	12	13	14	15	17	18	19	20																																			
2	2	—	2	2	4	—	2	7	—	2	5	—	2	—	2	8	2	8																																		
	cutout	BS C 2/1 In assist.co. I _r z/Un	= 2 A = - = 230 V AC	-F1	1																																															
						<table><tr><td>1</td><td>2</td><td>1.95</td><td>1.96</td><td>1.98</td><td>2.95</td><td>2.96</td><td>2.98</td></tr><tr><td>2</td><td>2</td><td>—</td><td>—</td><td>—</td><td>—</td><td>—</td><td>—</td></tr></table>								1	2	1.95	1.96	1.98	2.95	2.96	2.98	2	2	—	—	—	—	—	—																							
1	2	1.95	1.96	1.98	2.95	2.96	2.98																																													
2	2	—	—	—	—	—	—																																													
+PLACE02	bagpipe	EV-502 Un . .	= 220 V AC = - = -		1																																															
						<table><tr><td>1</td><td>2</td></tr><tr><td>2</td><td>2</td></tr></table>		1	2	2	2																																									
1	2																																																			
2	2																																																			
sound signal		Existing, unchanged! -H1				<table><tr><td>2</td><td>4</td></tr><tr><td>4</td><td>4</td></tr></table>		2	4	4	4																																									
2	4																																																			
4	4																																																			
	current transf.	ARM-20a (L) Up Ip Isz	= 20 kV = 500 A = 5/5 A	-T1.L1 -T1.L2	3									Before you generating the apparatus list plans must be used the 'Evaluation' modul, and there must make all analyse! The generated apparatus list plan will error free, if the 'Evaluation' analyse also is error free !																																						
						<table><tr><td>k1</td><td>K</td><td>I1</td><td>L</td><td>k2</td><td>K</td><td>I2</td><td>L</td></tr><tr><td>3</td><td>3</td><td>3</td><td>3</td><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>3</td><td>3</td><td>3</td><td>3</td><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>4</td><td>4</td><td>4</td><td>4</td><td>—</td><td>—</td><td>—</td><td>—</td></tr></table>																k1	K	I1	L	k2	K	I2	L	3	3	3	3	—	—	—	—	3	3	3	3	—	—	—	—	4	4	4	4	—	—	—
k1	K	I1	L	k2	K	I2	L																																													
3	3	3	3	—	—	—	—																																													
3	3	3	3	—	—	—	—																																													
4	4	4	4	—	—	—	—																																													

+PLACE01 /-KS1 /-F1+PLACE02 /-H1/-T1.L1/-T1.L2

Ftg. place	Apparatus name	Attributes	Nominal datas	Plansign	Pcs.			Placement of apparatus part [Sheet/Circuit diagram position]			
+PLACE02				-T1.L3		35	—				
+PLACE02 /-T1.L3											
The interpretation of concepts in OmegaCAD ELEKTRO system The interpretation of concepts in OmegaCAD ELEKTRO system				Change: A		Example-Plan Ltd. Example-Plan Ltd.		=E01	Plan number: PLAN-NUMBER-1		Sheet: 5
									Plan code: PLAN-CODE		9
				Date: 2009.03.03.							

Ftg. place	Apparatus name	Attributes	Nominal datas	Plansign	Pcs.	Placement of apparatus part [Sheet/Circuit diagram position]															
+PLACE03	signallight	EF3 060261 Un Power Color	= 220 V-240V = 130 W = Red		1																
					X1 X2																
	red light signal				Used, reinstall needed -H2	2 5															
	overcurrent pr.	DTIVA2-EP AV Unfv In Un	= . = 5A = .		1																
				-K1																	

=E82+PLACE03 /-H2 /-K1

Num- ber	Cable number	From To	Sign	Placement of cable cores [Sheet/Circuit diagram position]																																																Comment	
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Type / Structure	
1	E01VE001	+PLACE01 +PLACE02	A	2	2																																												SZRMtKVM-J 7 x 1.5				
2	E01VE002	+PLACE01 +PLACE02	B	3	3																																												SZRMtKVM-J 4 x 2.5				
3	E01VE003	+PLACE01 +PLACE02	D	3	3																																												SZRMtKVM-J 4 x 2.5				
4	E01VE004	+PLACE01 +PLACE02	F	3	3																																												SZRMtKVM-J 4 x 2.5				

This core is available!

Where the core of cable found in the circuit logical plan.
Page number / circuit number

This core is used!

Separator, or break sign of the cable. This sign run from 'A' to 'Z', and is singular sign between two fitting places.
(Paralel cables separatos sign)

Cable code for cable, general of the project

Cable number, same as on the circuit number

Before you generaling the cable list plans must be used the 'Evaluation' modul, and there must make all analyse! The generated cable list plan will error free, if the 'Evaluation' analyse also is error free !

Cable:=E01: /1. /2. /3. /4.

The interpretation of concepts in OmegaCAD ELEKTRO system

A

2009.03.03.

Example-Plan Ltd.



=E01

Plan number: PLAN-NUMBER-1

Plan code: PLAN-CODE

Sheet:

7

9

Num- ber	Cable number	From To	Sign	Placement of cable cores [Sheet/Circuit diagram position]																																																Comment	
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Type / Structure	
101	E01VE101	=E01+PLACE01	A	3	3	3	3																																									SZRMtKVM-J	7 x 1.5				
		+PLACE03		4	4	5	6																																														
102	E01VE102	=E01+PLACE01	B	2	2																																											SZRMtKVM-J	7 x 1.5				
		+PLACE03		5	5																																																

Cable:=E82: /101. /102.

The interpretation of concepts in OmegaCAD ELEKTRO system The interpretation of concepts in OmegaCAD ELEKTRO system	Change:	A	Example-Plan Ltd.  Example-Plan Ltd.	=E82	Plan number:	PLAN-NUMBER-1	Sheet: 8 9
					Plan code:	PLAN-CODE	
	Date:	2009.03.03.					

[illegible]

MT50		1600 A		502992/03448	
120 kV				Fűtés F	
				400	
				401	
				406	
				407	
				403	Fűtés N
				404	
				408	
				409	
				410	Öntartás +
				411	
				428	
				412	
				413	
				414	Motor +
				415	
				424	
				416	
				417	
				418	Öntartás -
				419	
				429	
				420	Motor -
				421	
				422	
				430	Táv Be +
				431	
				444	
				432	Táv Ki +
				433	
				445	
				434	Táv Be/Ki -
				435	
				438	
				439	
				436	
				437	
				440	
				441	Reteszmágnes +
				442	
				443	Reteszmágnes -
				450	+
				451	+
				452	+
				453	Mot.fesz.kim.
				454	Motorvéd.kio.
				455	Táv
				456	0
				457	Helyi

Box connection point comment.
(This is set in main database modul)

This apparatus part connecting the other circuit plan

RUs-18 4z+4ny		4z+4ny		714558	
220 V ~					
-F1	:2	-KS1	:11	1	
		-X3	:8	2	
				3	
				4	
-F1	:1	-X3	:7	5	
		-X1	:1	6	
				8	
				9	
		PLAN-NUMBER-3		10	
-KS1	:1	-KS1	:20	11	
				12	
				13	
		EQUIT 01		14	
		-X1	:2	15	
				17	
				18	
				19	
		-KS1	:11	20	

Apparatus which bild from symbols

Apparatus
terminal
connection
points sign

Connection
reference,
where the wire
goes to.

This apparatus part connecting directly to the 'EQUIT 01' buswire (equitpotential) by the 'bind pont'

Apparatus which bild in box style

Apparatus type

Apparatus dates

Fit terminal type			
Block	Number	Type + codenumber	
X1 block	1 - 7	WDK 2.5	102150
X3 block	1 - 6		
	7 - 14	WDK 2.5	102150

Wiring plans of apparatus

Contents:	
1 .sheet	-Q1 /-KS1
2 .sheet	-X1:1 - 7. /-F1
3 .sheet	-X3:1 - 14.
4 .sheet	Cables: / 1. / 2. / 3. / 4. / 101. / 102. / 105.
5 .sheet	Bus wires: /EQUIT 01
6 .sheet	Wires inside fitting place:
7 .sheet	Chaining of binding points:

Made by with 'Place terminal tabée' function.
This fonction gathers all terminal, what is used
in this fitting place.

Made by with 'Make context' function. This funktion gathers all 'Context text' from the fitting, what the system automatically placed.

Before you generating the fitting plans must be used the 'Evaluation' modul, and there must make all analyse! The generated fitting plan will error free, if the 'Evaluation' analyse also is error free !

CHANGES							Head of department:	Dr. Boss		The interpretation of concepts in OmegaCAD ELEKTRO system		Example-Plan Ltd H -1164 Budapest Takács str. 4. E-mail:info@omegasoft.hu Example-Plan Ltd.
							Leader designer:	Leslie Hegyaljai				
							Designer:	Omega-Soft Kft.		Theme: Fitting plan (Plan type) "D" plan (Plan nature)		
							Controller:	Example Controller		Demonstarion plan (Plan name)		
							Editor:	OmegaCAD ELEKTRO		First fitting place		
							Date:	2009.03.03.		=E01 +PLACE01		
										The interpretation of concepts in OmegaCAD ELEKTRO system		
							Scale:	M=1:1		All sheet: 7		
							Sheet size:	A3 420x297mm		Sheetnumber: 1.		
										Plan number/Change:		
Sign	Date	Designer	Manager	Controller	Change contents	Printing date:	2015.2.18.	9h 16' 27".	Plan code: PLAN-CODE		PLAN-FIT-01	

Wiring plans of terminals

Cable core number

Cable number:	E01VE001
Cable number:	1.
Bind fitting place	+PLACE01
End fitting place	+PLACE02
Brake:	A
Type:	SZRMtKVM-J
Wire number:	7
Construction:	7 x 1.5
Note:	New cable

Wire number:	Bind point	Wire number:	Bind point
(Plan sign :Connection)	(Plan sign :Connection)	(Plan sign :Connection)	(Plan sign :Connection)
1. -X1	:1	5.	-
2. -X3	:8	6.	-
3.	-	7.	-
4.	-		

Cable number:	E01VE003
Cable number:	3.
Bind fitting place	+PLACE01
End fitting place	+PLACE02
Brake:	D
Type:	SZRMtKVM-J
Wire number:	4
Construction:	4 x 2.5
Note:	New cable

Wire number:	Bind point	Wire number:	Bind point
(Plan sign :Connection)	(Plan sign :Connection)	(Plan sign :Connection)	(Plan sign :Connection)
1. -X3	:3	3.	-
2. -X3	:4	4.	-

Cable number:	E01VE101
Cable number:	101.
Bind fitting place	+PLACE01
End fitting place	=E82+PLACE03
Brake:	A
Type:	SZRMtKVM-J
Wire number:	7
Construction:	7 x 1.5
Note:	New cable

Wire number:	Bind point	Wire number:	Bind point
(Plan sign :Connection)	(Plan sign :Connection)	(Plan sign :Connection)	(Plan sign :Connection)
1. -X3	:1	5.	-
2. -X3	:3	6.	-
3. -X3	:5	7.	-
4. -X3	:6		

Cable number:	E82VE005
Cable number:	105.
Bind fitting place	=E82+PLACE-04
End fitting place	=E82+PLACE-01
Brake:	A
Type:	SZRMtKVM-J
Wire number:	7
Construction:	7 x 1.5
Note:	New cable

Wire number:	Bind point	Wire number:	Bind point
(Plan sign :Connection)	(Plan sign :Connection)	(Plan sign :Connection)	(Plan sign :Connection)
1.	-	5.	-
2.	-	6.	-
3. -X12	:56	7.	-
4.	-		

Cable number:	E01VE002
Cable number:	2.
Bind fitting place	+PLACE01
End fitting place	+PLACE02
Brake:	B
Type:	SZRMtKVM-J
Wire number:	4
Construction:	4 x 2.5
Note:	New cable

Wire number:	Bind point	Wire number:	Bind point
(Plan sign :Connection)	(Plan sign :Connection)	(Plan sign :Connection)	(Plan sign :Connection)
1. -X3	:1	3.	-
2. -X3	:2	4.	-

Cable number:	E01VE004
Cable number:	4.
Bind fitting place	+PLACE01
End fitting place	+PLACE02
Brake:	F
Type:	SZRMtKVM-J
Wire number:	4
Construction:	4 x 2.5
Note:	New cable

Wire number:	Bind point	Wire number:	Bind point
(Plan sign :Connection)	(Plan sign :Connection)	(Plan sign :Connection)	(Plan sign :Connection)
1. -X3	:5	3.	-
2. -X3	:6	4.	-

Cable number:	E01VE102
Cable number:	102.
Bind fitting place	+PLACE01
End fitting place	=E82+PLACE03
Brake:	B
Type:	SZRMtKVM-J
Wire number:	7
Construction:	7 x 1.5
Note:	New cable

Wire number:	Bind point	Wire number:	Bind point
(Plan sign :Connection)	(Plan sign :Connection)	(Plan sign :Connection)	(Plan sign :Connection)
1. -X1	:2	5.	-
2. -X3	:9	6.	-
3.	-	7.	-
4.	-		

Cable code for cable, general of the project

Cable number, same as on the circuit number

Separator, or break sign of the cable. This sign run from 'A' to 'Z', and is singular sign between two fitting places. (Parallel cables separatos sign)

The cable core is connected to the terminal rail from below. (from the cable side to the terminal rail)

Cable core number

The cable core is connected to the terminal rail from above. (from the apparatus side to the terminal rail)

Wiring plans of cables

Cables: / 1. / 2. / 3. / 4. / 101. / 102. / 105.

The interpretation of concepts
in OmegaCAD ELEKTRO system
The interpretation of concepts
in OmegaCAD ELEKTRO system

Change:

Scale: M=1:1

Date: 2009.03.03.

Example-Plan Ltd.
Example-Plan Ltd.

=E01
+PLACE01

Plan number: PLAN-FIT-01

Plan code: PLAN-CODE

Sheet:

4**7**

Bus wire:	EQUIT 01
Equipotencial 01	
(Plan sign :Connection)	
-KS1	:14

Wiring plans of 'Bus wires'
if necessary!

Bus wires: /EQUIT 01

The interpretation of concepts in OmegaCAD ELEKTRO system The interpretation of concepts in OmegaCAD ELEKTRO system	Change:	 Example-Plan Ltd. <i>Example-Plan Ltd.</i>	=E01 +PLACE01	Plan number: PLAN-FIT-01	Sheet: 5 7
	Scale: M=1:1			Plan code: PLAN-CODE	
	Date: 2009.03.03.				

Wires inside fitting place:

1.	-KS1	:1	—	-KS1	:11
2.	-KS1	:1	—	-F1	:2
3.	-KS1	:2	—	-X3	:8
4.	-KS1	:5	—	-X3	:7
5.	-KS1	:5	—	-F1	:1
6.	-KS1	:6	—	-X1	:1
7.	-KS1	:10	—	PLAN-NUMBER-3	
8.	-KS1	:11	—	-KS1	:20
9.	-KS1	:14	—	EQUIT 01	
10.	-KS1	:15	—	-X1	:2

Wiring plans of 'Wires
inside fitting place'
if necessary!

Wires inside fitting place:

The interpretation of concepts in OmegaCAD ELEKTRO system The interpretation of concepts in OmegaCAD ELEKTRO system	Change:		 Example-Plan Ltd. <i>Example-Plan Ltd.</i>	=E01 +PLACE01	Plan number: PLAN-FIT-01	Sheet: 6 7
	Scale:	M=1:1			Plan code: PLAN-CODE	
	Date:	2009.03.03.				

Chaining of binding points:

Potential:	EQUIT 01			
-F1	:1		-KS1	:5

Wiring plans of
'Changing of binding
points'
if necessary!

Chaining of binding points:

The interpretation of concepts in OmegaCAD ELEKTRO system The interpretation of concepts in OmegaCAD ELEKTRO system	Change:		 Example-Plan Ltd. <i>Example-Plan Ltd.</i>	=E01 +PLACE01	Plan number: PLAN-FIT-01	Sheet: 7 7
	Scale: M=1:1				Plan code: PLAN-CODE	
	Date: 2009.03.03.					

Dokumentation registry

Field: =J01, 1. 20 kV turnout, Budapest transmission line

Fitting place	Place name	Plan number	Plan code	Date	Plan type	Plan nature	V. V.date	Change	Number	Scale	Drawing sheet
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Circuit plans

		MINT-S-J01-R00	MINT-S-J01-R00	2009.02.10.	Circuit diagram	Fruition plan	A	2009.02.24.The extension of a change	8 sheet	M=1:1	A3 420x297mm
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Dispozition and fitting plan sheets

+R1	Secondary cupboard	MINT-S-J01-E01	MINT-S-J01-E01	2009.02.24.	Dispozition plan	Fruition plan			1 sheet	M=1:10	A3 420x297mm
+R1	Secondary cupboard	MINT-S-J01-S01	MINT-S-J01-S02	2009.02.24.	Fitting plan	Fruition plan			7 sheet	M=1:1	A3 420x297mm
+S1	External cupboard	MINT-S-J01-E02	MINT-S-J01-E02	2009.02.24.	Diszpozition plan	Fruition plan			1 sheet	M=1:5	A3 420x297mm
+S1	External cupboard	MINT-S-J01-S02	MINT-S-J01-S02	2009.02.15.	Fitting plan	Fruition plan			3 sheet	M=1:1	A3 420x297mm
+T1	20 kV current transformers	MINT-S-J01-E03	MINT-S-J01-E03	2009.02.24.	Diszpozition plan	Fruition plan			1 sheet	M=1:2	A3 420x297mm
+T1	20 kV current transformers	MINT-S-J01-S03	MINT-S-J01-S03	2009.02.24.	Fitting plan	Fruition plan			3 sheet	M=1:1	A3 420x297mm

General plans

		MINT-S-J00-K00	MINT-S-J01-K00	2009.02.24.	Cable-laying plan	Fruition plan			1/4	M=1:20	A3 420x297mm
									2/4	M=1:20	A3 420x297mm
									3/4	M=1:10	A3 420x297mm
									4/4	M=1:10	A3 420x297mm

Cable list plans

		MINT-S-J01-K00	MINT-S-J01-K00	2009.02.15.	Cable list plan	Fruition plan			6 sheet	M=1:1	A3 420x297mm
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Materials list plans

		MINT-S-J01-A00	MINT-S-J01-A00	2009.02.24.	Materials list plan	Fruition plan			2 sheet	M=1:1	A3 420x297mm
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Contents:

1 .sheet	Field: =J01, 1. 20 kV turnout, Budapest transmission line
	Dokumentation registry
2 .sheet	Field: =J82, 20 kV devices buswires,

CHANGES							Head of department:	Dr. Boss		The interpretation of concepts in OmegaCAD ELEKTRO system			Example-Plan Ltd. H -1164 Budapest Takács str. 4. E-mail:info@omegasoft.hu Example-Plan Ltd.	
							Leader designer:	Leslie Hegyaljai						
							Designer:	Omega-Soft Kft.		Theme: Summary plan register Fruition plan Sample to the first step				
							Controller:	Example Controller						
							Editor:	OmegaCAD ELEKTRO		=J01 1. 20 kV turnout Budapest transmission line				
							Date:	2009.02.24.						
							Scale:	M=1:1		All sheet: 2 Sheetnumber: 1.		Plan number/Change: MINT-S-J01-D00		
							Sheet size:	A3 420x297mm						
Sign	Date	Designer	Manager	Controller	Change contents	Printing date:	2015.2.18.	9h 16' 28".	Plan code: MINT-S-J01-D00					

Field: =J82, 20 kV devices buswires,

Fitting place	Place name	Plan number	Plan code	Date	Plan type	Plan nature	V. V.date	Change	Number	Scale	Drawing sheet
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Circuit plans

		MINT-S-J82-R00	MINT-S-J82-J01	2009.02.10.	Circuit plan	Fruition plan			3 sheet	M=1:1	A3 420x297mm
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Disposition and fitting plan sheets

+S11	20 kV devices buswires	MINT-S-J82-R01	MINT-S-J82-R01	2009.02.24.	Fitting plan	Fruition plan			3 sheet	M=1:1	A3 420x297mm
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B

C

D

E

F

1

=J01

-X1 

-X1 

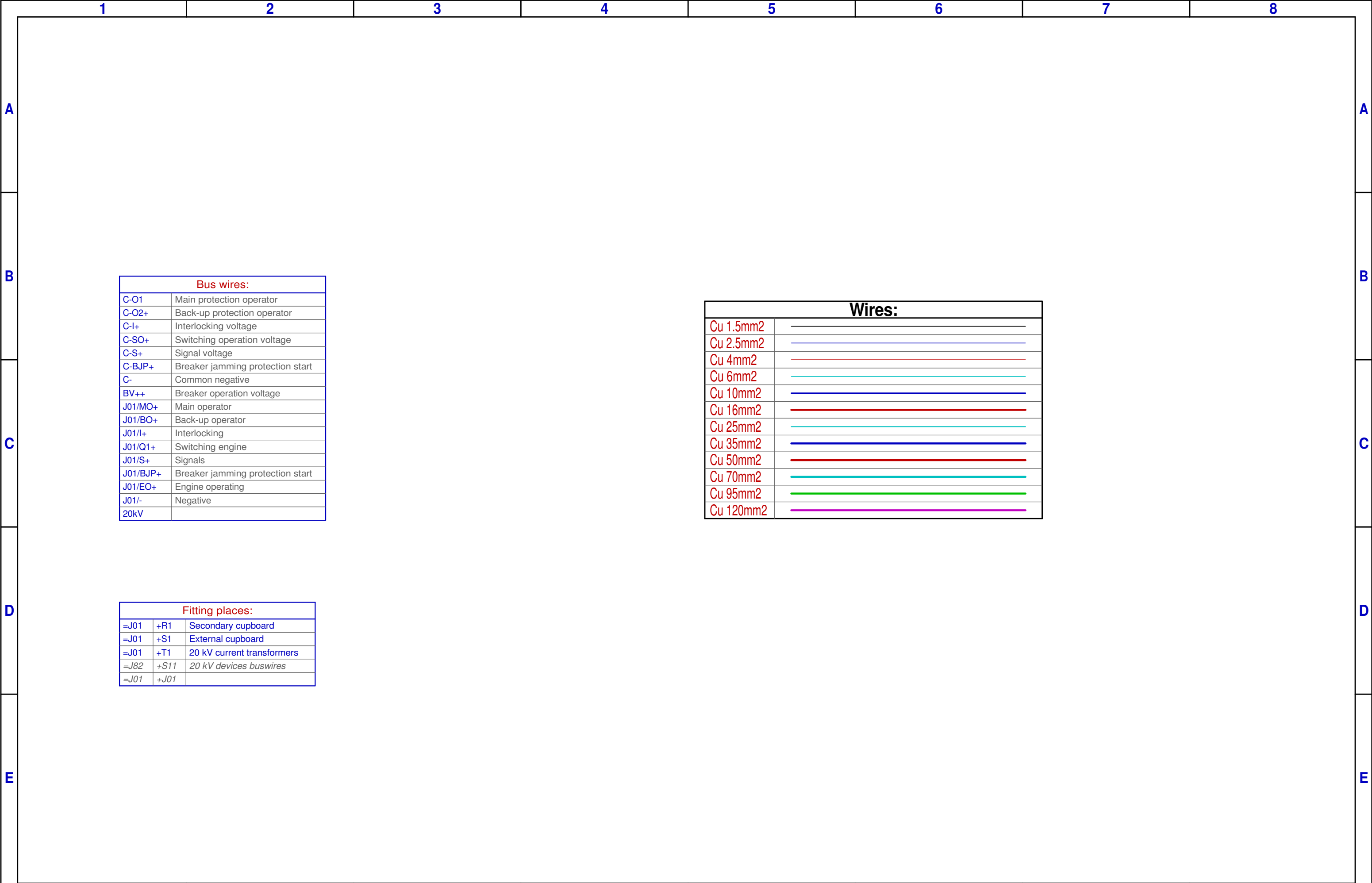
-X1 

-X1 

+S1

CHANGES

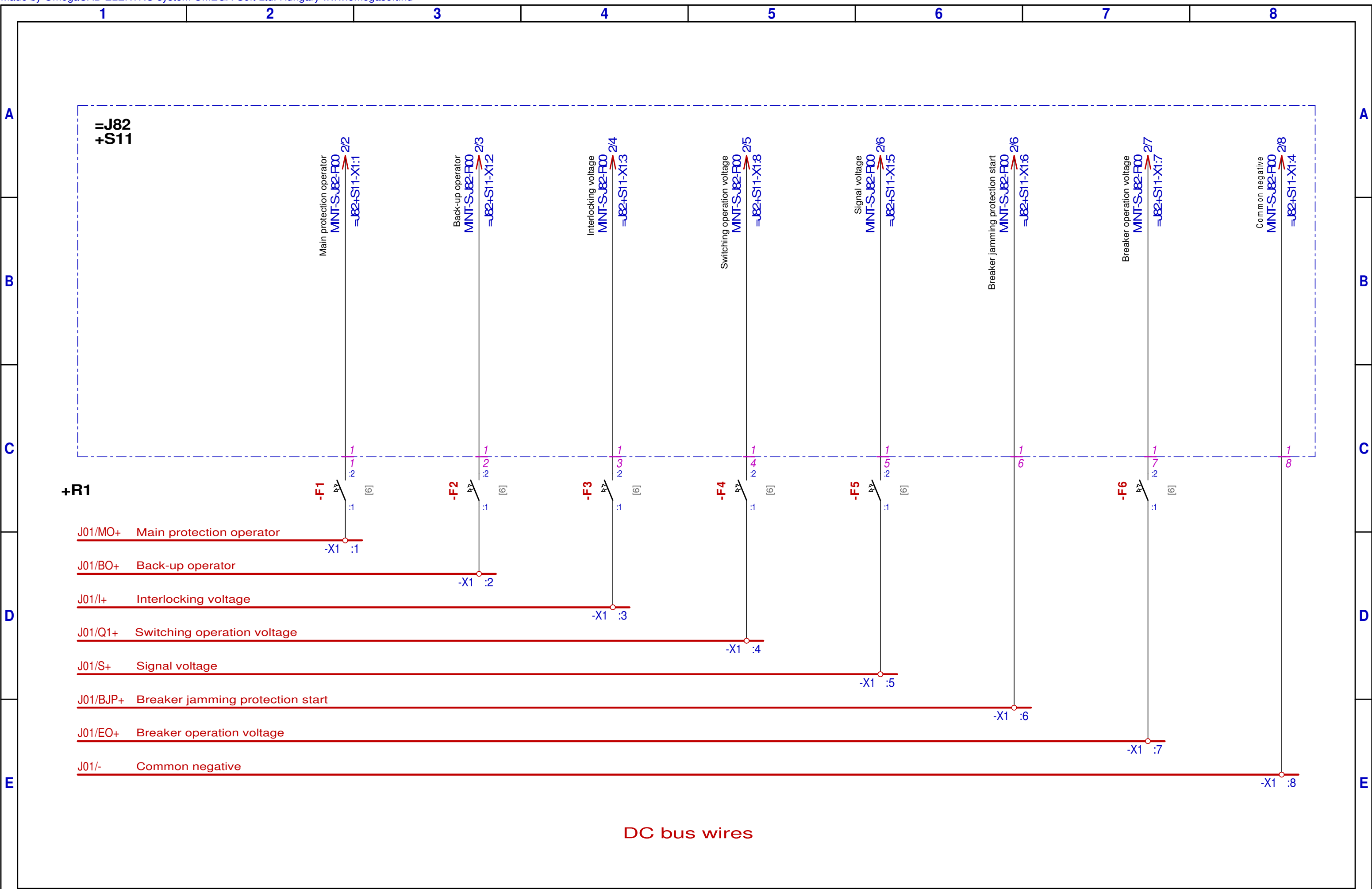
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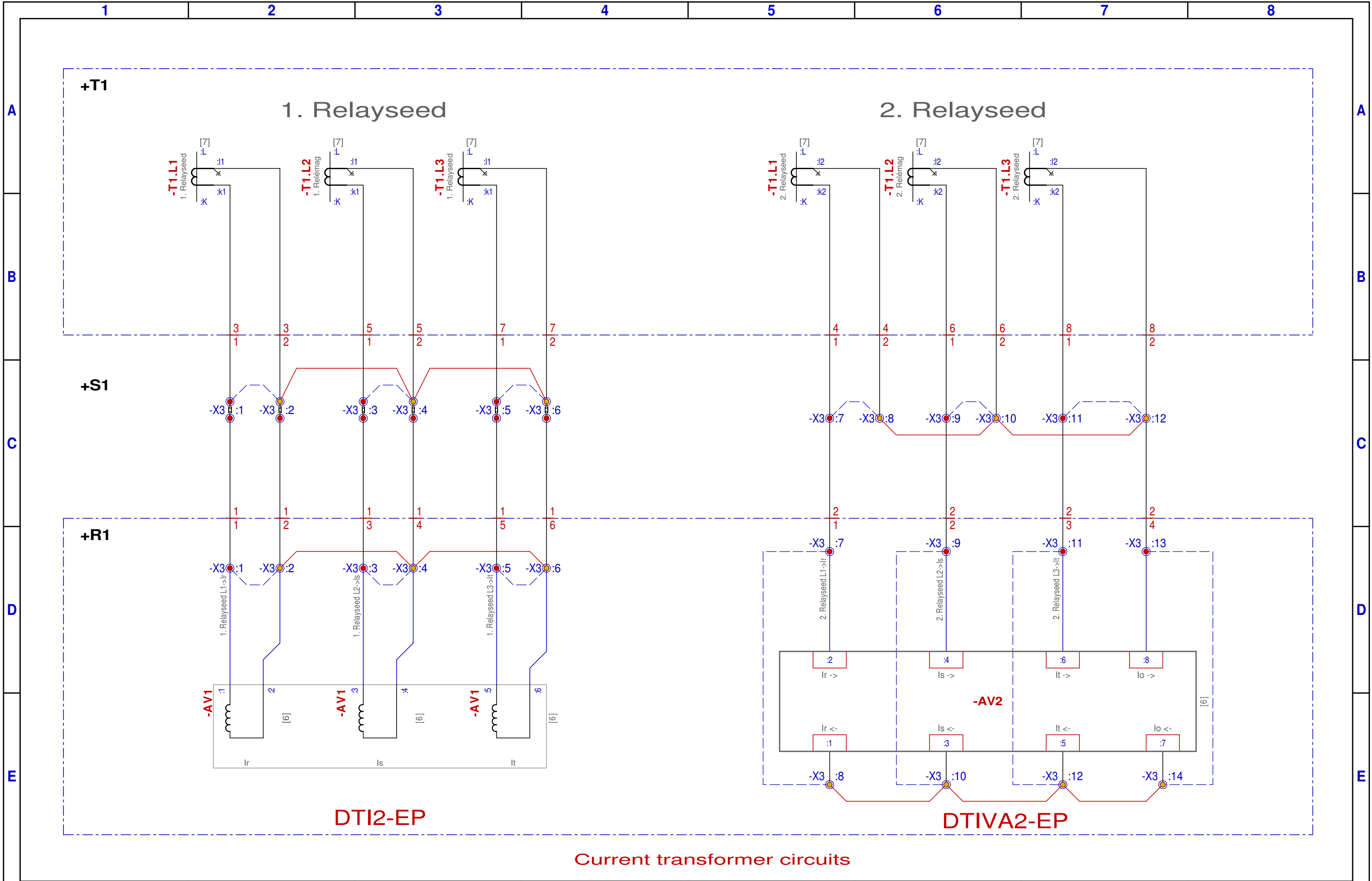


Bus wires:	
C-O1	Main protection operator
C-O2+	Back-up protection operator
C-I+	Interlocking voltage
C-SO+	Switching operation voltage
C-S+	Signal voltage
C-BJP+	Breaker jamming protection start
C-	Common negative
BV++	Breaker operation voltage
J01/MO+	Main operator
J01/BO+	Back-up operator
J01/I+	Interlocking
J01/Q1+	Switching engine
J01/S+	Signals
J01/BJP+	Breaker jamming protection start
J01/EO+	Engine operating
J01/-	Negative
20kV	

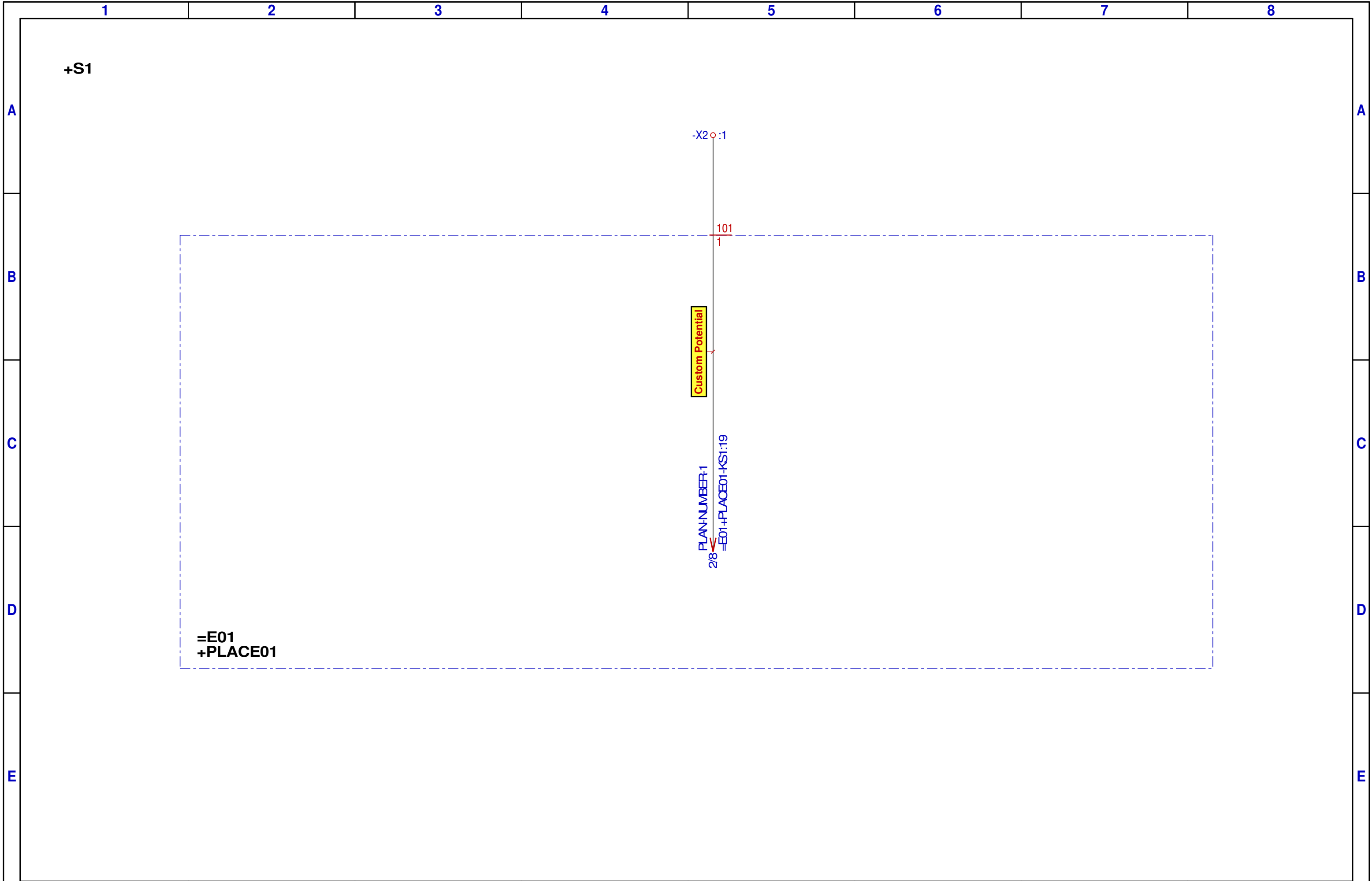
Fitting places:		
=J01	+R1	Secondary cupboard
=J01	+S1	External cupboard
=J01	+T1	20 kV current transformers
=J82	+S11	20 kV devices buswires
=J01	+J01	

Wires:	
Cu 1.5mm2	
Cu 2.5mm2	
Cu 4mm2	
Cu 6mm2	
Cu 10mm2	
Cu 16mm2	
Cu 25mm2	
Cu 35mm2	
Cu 50mm2	
Cu 70mm2	
Cu 95mm2	
Cu 120mm2	





123			4	5	6	7	8
The interpretation of concepts in OmegaCAD ELEKTRO system 1. 20 kV turnout Budapest transmission line			Change: A	Example-Plan Ltd. Example-Plan Ltd.	=J01 +S1	Plan number: MINT-S-J01-R00	Sheet: 4
			Date: 2009.02.10.			Plan code: MINT-S-J01-R00	9

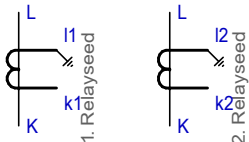


1	2	3	4	5	6	7	8
The interpretation of concepts in OmegaCAD ELEKTRO system 1. 20 kV turnout Budapest transmission line	Change: A		 Example-Plan Ltd. <i>Example-Plan Ltd.</i>	=J01 +S1	Plan number: MINT-S-J01-R00		Sheet: 5 9
					Plan code: MINT-S-J01-R00		
	Date: 2009.02.10.						

Ftg. place	Apparatus name	Attributes	Nominal datas	Plansign	Pcs.	Placement of apparatus part [Sheet/Circuit diagram position]															
+R1	cutout	5SX5106-7 In assist.co. I _{rz} /U _n	= 6 A = 1n _y +1z = 220 V DC		6																
	Main protection operator			-F1		1	2	11	12	23	24										
	Back-up operator			-F2		3	2	—	—	—	—										
	Interlocking voltage			-F3		3	3	—	—	—	—										
	Switching operation voltage			-F4		3	4	—	—	—	—										
	Signal voltage			-F5		3	5	—	—	—	—										
	Breaker operation voltage			-F6		3	6	—	—	—	—										
	overcurrent pr.	DTI-EP AV Unfv In Un	= . = 5A = .		1																
				-AV1		1	2	3	4	5	6	7	8	Ir <-	Ir ->	Is <-	Is ->	It <-	It ->	Io <-	Io ->
						4	2	4	3	4	3	—	—	—	—	—	—	—	—	—	—
	overcurrent pr.	DTIVA2-EP AV Unfv In Un	= . = 5A = .		1																
				-AV2		1	2	3	4	5	6	7	8	Ir <-	Ir ->	Is <-	Is ->	It <-	It ->	Io <-	Io ->
						—	—	—	—	4	5	4	5	4	6	4	6	4	7	4	7

+R1/-F1/-F2 /-F3 /-F4 /-F5 /-F6 /-AV1/-AV2

The interpretation of concepts in OmegaCAD ELEKTRO system 1. 20 kV turnout Budapest transmission line	Change:	A	 Example-Plan Ltd. Example-Plan Ltd.	=J01	Plan number:	MINT-S-J01-R00	Sheet: 6 9
					Plan code:	MINT-S-J01-R00	
	Date:	2009.02.10.					

Ftg. place	Apparatus name	Attributes	Nominal datas	Plansign	Pcs.	Placement of apparatus part [Sheet/Circuit diagram position]								
+T1	current transf.	ARM-20a (L) Up Ip Isz	= 20 kV = 500 A = 5/5 A		3									
						k 1	K	I1	L	k 2	K	I2	L	
	Current Transformer L1			-T1.L1		4	2			4	5			
	Current Transformer L2			-T1.L2		4	2			4	6			
	Current Transformer L3			-T1.L3		4	3			4	7			

[illegible]

Cable:=J82: /1.

The interpretation of concepts in OmegaCAD ELEKTRO system

1. 20 kV turnout
Budapest transmission line

Change: A

A

Date:

2009.02.10.

Example-Plan Ltd.



Example-Plan Ltd.

=J82

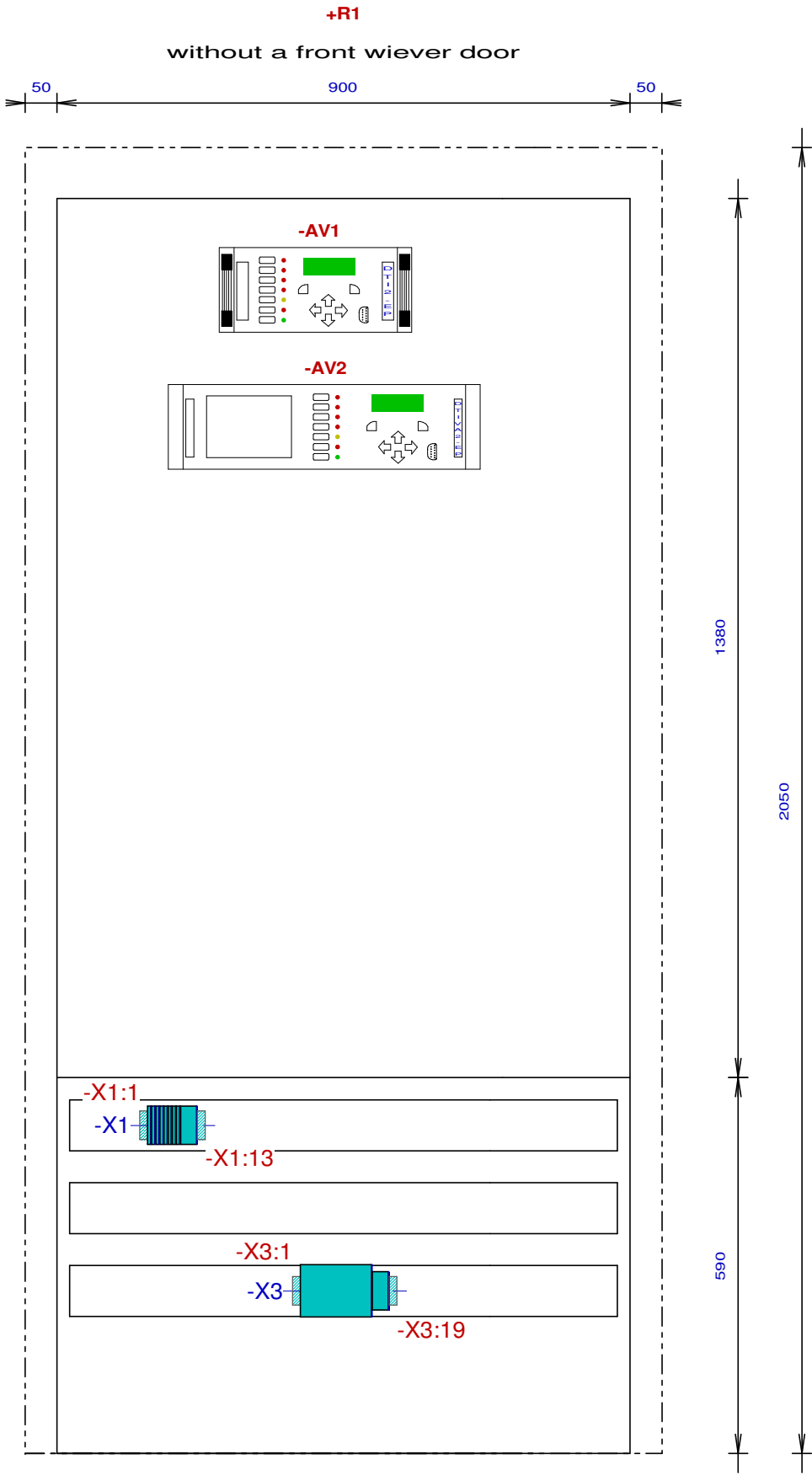
Plan number: MINT-S-J01-R00

Plan code: MINT-S-J01-R00

Sheet:

9

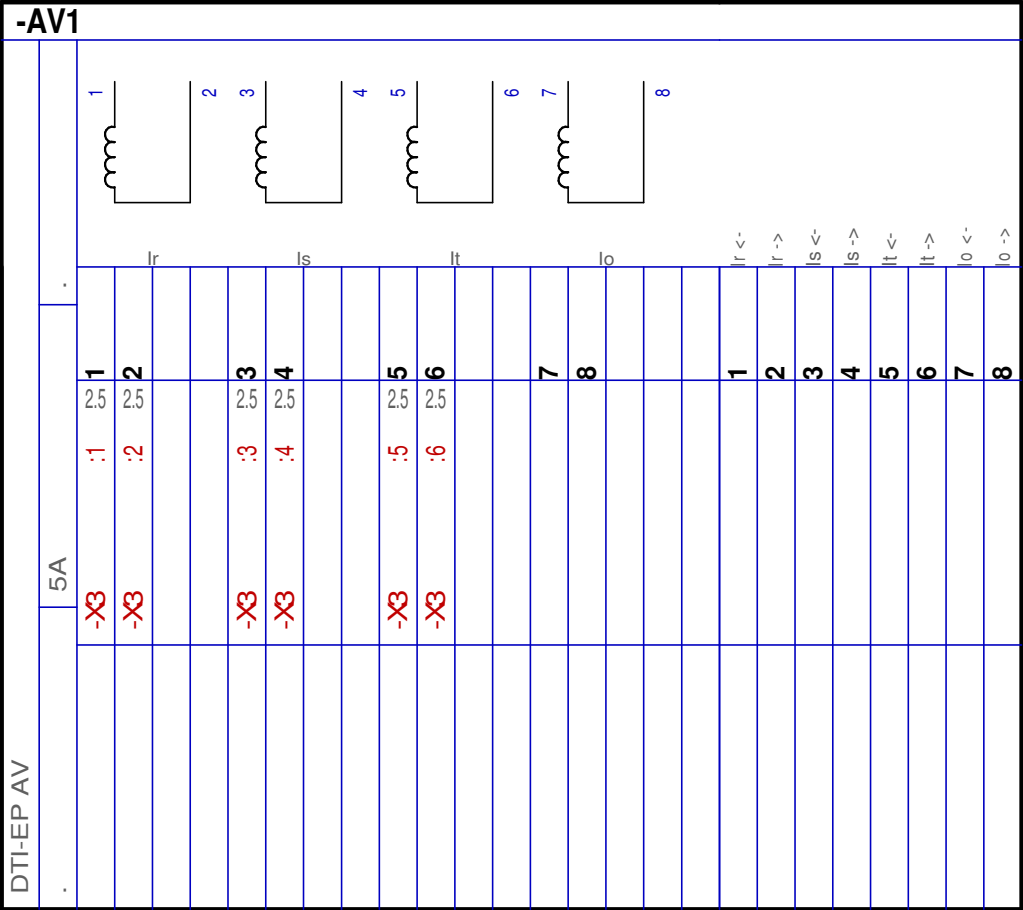
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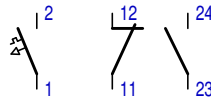


Type of fitting place:		KSZ	
Plansign	Type of apparatus	Nominal datas	
-AV1	DTI-EP AV	.	5A .
-AV2	DTIVA2-EP AV	.	5A .
-F1	5SX5106-7	6 A	1ny+1z 220 V DC
-F2	5SX5106-7	6 A	1ny+1z 220 V DC
-F3	5SX5106-7	6 A	1ny+1z 220 V DC
-F4	5SX5106-7	6 A	1ny+1z 220 V DC
-F5	5SX5106-7	6 A	1ny+1z 220 V DC
-F6	5SX5106-7	6 A	1ny+1z 220 V DC

Type of terminals			
Block	Serial number		Type + Code
X1 léc	1	- 13	WDU 2.5 102000
X2 léc	1	- 11	WDU 2.5 102000
X3 léc	1	- 14	SAKT 2/LT/35 010602
	15	- 19	WDU 2.5 102000

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							Leader designer:	Leslie Hegyaljai						
							Designer:	Omega-Soft Kft.		Theme: Dispozition plan Fruition plan Sample to the first step Secondary cupboard				
							Controller:	Example Controller						
							Editor:	OmegaCAD ELEKTRO		=J01 +R1 1. 20 kV turnout Budapest transmission line				
							Date:	2009.02.24.						
							Scale:	M=1:10		All sheet: 1 Sheetnumber: 1.		Plan number/Change: MINT-S-J01-E01		
							Sheet size:	A3 420x297mm						
Sign	Date	Designer	Manager	Controller	Change contents		Printing date:	2015.2.18.	9h 16' 29".	Plan code: MINT-S-J01-E01				



5SX5106-7			Back-up operator			220 V DC											
6 A			1ny+1z														
						1			14x1,5/16			=J82+S11			,A		
															1		
															1.5		
															2		
															11		
															12		
															23		
															24		

5SX5106-7		Switching operation voltage		-F4	
6 A	1ny+1z	220 V DC			
	1	14x1,5/16	=J82+S11	,A	
	-X1	4	1.5	4	1
				2	2
				11	11
				12	12
				23	23
				24	24

The interpretation of concepts in OmegaCAD ELEKTRO system

1. 20 kV turnout

Budapest transmission line

Date:	2009.02.24.
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**Example-Plan
Ltd.**

Plan code: MINT-S-J01-S02

2015.2.18. 9h 16' 29".

5SX5106-7		Breaker operation voltage		220 V DC	
6 A	1ny+1z	1		220 V DC	
14x1,5/16		=J82+S11		,A	
-X1		1		1,5	
		2		7	
		11			
		12			
		23			
		24			

2015.2.18. 9h 16' 29".

The interpretation of concepts in OmegaCAD ELEKTRO system

1. 20 kV turnout

Budapest transmission line

Date:	2009.02.24.
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**Example-Plan
Ltd.**

**=J01
+R1**

Plan code: MINT-S-J01-S02

$$\frac{4}{7}$$

The interpretation of concepts in OmegaCAD ELEKTRO system

1. 20 kV turnout

Budapest transmission line

Change:	
Scale:	M=1:1
Date:	2009.02.24.



**=J01
+R1**

Plan number:	MINT-S-J01-S01
Plan code:	MINT-S-J01-S02

Sheet:
5

7

Cable number:	J001W001
Cable number:	1.
Bind fitting place	+R1
End fitting place	+S1
Brake:	A
Type:	SZRMtKVM-J
Wire number:	7
Construction:	7 x 2.5
Note:	New cable
Wire number: Bind point (Plan sign :Connection)	Wire number: Bind point (Plan sign :Connection)
1. -X3 :1	5. -X3 :5
2. -X3 :2	6. -X3 :6
3. -X3 :3	7. -
4. -X3 :4	

Cable number:	J001W002
Cable number:	2.
Bind fitting place	+R1
End fitting place	+S1
Brake:	B
Type:	SZRMtKVM-J
Wire number:	7
Construction:	7 x 2.5
Note:	New cable
Wire number: Bind point (Plan sign :Connection)	Wire number: Bind point (Plan sign :Connection)
1. -X3 :7	5. -
2. -X3 :9	6. -
3. -X3 :11	7. -
4. -X3 :13	

Cable number:	J01EV001
Cable number:	1.
Bind fitting place	+R1
End fitting place	=J82+S11
Brake:	A
Type:	NYCY
Wire number:	14.
Construction:	14x1,5/16
Note:	New cable
Wire number: Bind point (Plan sign :Connection)	Wire number: Bind point (Plan sign :Connection)
1. -F1 :2	8. -X1 :8
2. -F2 :2	9. -
3. -F3 :2	10. -
4. -F4 :2	11. -
5. -F5 :2	12. -
6. -X1 :6	13. -
7. -F6 :2	14. -

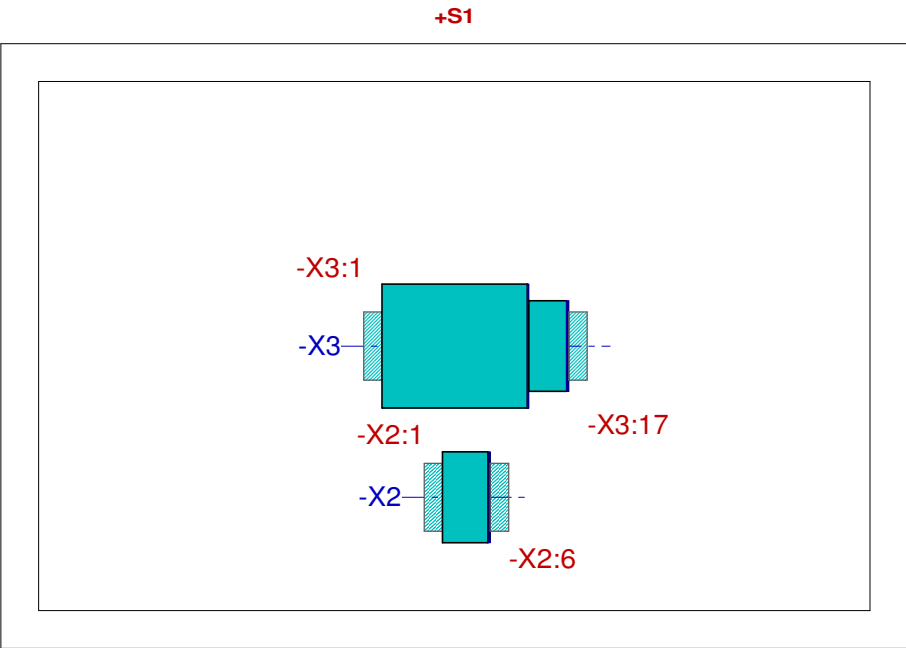
Cables: / 1. / 2. / 1.

Wires inside fitting place:

1.	-AV1	:1	—	-X3	:1	2.5
2.	-AV1	:2	—	-X3	:2	2.5
3.	-AV1	:3	—	-X3	:3	2.5
4.	-AV1	:4	—	-X3	:4	2.5
5.	-AV1	:5	—	-X3	:5	2.5
6.	-AV1	:6	—	-X3	:6	2.5
7.	-AV2	:1	—	-X3	:8	1.5
8.	-AV2	:2	—	-X3	:7	2.5
9.	-AV2	:3	—	-X3	:10	1.5
10.	-AV2	:4	—	-X3	:9	2.5
11.	-AV2	:5	—	-X3	:12	1.5
12.	-AV2	:6	—	-X3	:11	2.5
13.	-AV2	:7	—	-X3	:14	1.5
14.	-AV2	:8	—	-X3	:13	2.5
15.	-F1	:1	—	-X1	:1	1.5
16.	-F2	:1	—	-X1	:2	1.5
17.	-F3	:1	—	-X1	:3	1.5
18.	-F4	:1	—	-X1	:4	1.5
19.	-F5	:1	—	-X1	:5	1.5
20.	-F6	:1	—	-X1	:7	1.5

Wires inside fitting place:

The interpretation of concepts in OmegaCAD ELEKTRO system 1. 20 kV turnout Budapest transmission line	Change:		Example-Plan Ltd. Example-Plan Ltd.	=J01 +R1	Plan number: MINT-S-J01-S01	Sheet: 7 7
	Scale: M=1:1				Plan code: MINT-S-J01-S02	
	Date: 2009.02.24.					



Fitting place type:		GK-W642		
Plansign	Apparat type	Nominal data		
-F1	5SX5106-7	6 A	1ny+1z	220 V DC
-F2	5SX5106-7	6 A	1ny+1z	220 V DC
-F3	5SX5106-7	6 A	1ny+1z	220 V DC
-F4	5SX5106-7	6 A	1ny+1z	220 V DC
-F5	5SX5106-7	6 A	1ny+1z	220 V DC
-F6	5SX5106-7	6 A	1ny+1z	220 V DC

Fit terminal type			
Block	Number		Type + codenumber
X1 block	1	- 13	WDU 2.5 102000
X3 block	1	- 12	SAKT 2/LT/35 010602
	13	- 17	WDU 2.5 102000

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							Leader designer:	Leslie Hegyaljai						
							Designer:	Omega-Soft Kft.		Theme: Diszpozition plan Fruition plan Sample to the first step External cupboard				
							Controller:	Example Controller						
							Editor:	OmegaCAD ELEKTRO		=J01 +S1 1. 20 kV turnout Budapest transmission line				
							Date:	2009.02.24.						
							Scale:	M=1:5		All sheet: 1 Sheetnumber: 1.		Plan number/Change: MINT-S-J01-E02		
							Sheet size:	A3 420x297mm						
Sign	Date	Designer	Manager	Controller	Change contents		Printing date:	2015.2.18.	9h 16' 29".	Plan code: MINT-S-J01-E02				

Fit terminal type			
Block	Number	Type + codenumber	
X3 block	1 - 12	SAKT 2/LT/35	010602
	13 - 17	WDU 2.5	102000

Contents:	
2 .sheet	-X3:1 - 17.
3 .sheet	Cables:/ 1. / 2. / 3. / 4. / 5. / 6. / 7. / 8.

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							Leader designer:	Leslie Hegyaljai						
							Designer:	Omega-Soft Kft.		Theme: Fitting plan Fruition plan Sample to the first step External cupboard				
							Controller:	Example Controller						
							Editor:	OmegaCAD ELEKTRO						
							Date:	2009.02.15.		=J01 +S1 1. 20 kV turnout Budapest transmission line				
							Scale:	M=1:1						
							Sheet size:	A3 420x297mm						
	Sign	Date	Designer	Manager	Controller	Change contents	Printing date:	2015.2.18.	9h 16' 29".	Plan code: MINT-S-J01-S02		MINT-S-J01-S02		
									All sheet:	3	Sheetnumber:	1.	Plan number/Change:	

The interpretation of concepts in OmegaCAD ELEKTRO system

1. 20 kV turnout

Budapest transmission line

Date:	2009.02.15.
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**Example-Plan
Ltd.**

Plan code: MINT-S-J01-S02

2015.2.18. 9h 16' 29"

Cable number:	J001W001
Cable number:	1.
Bind fitting place	+S1
End fitting place	+R1
Brake:	A
Type:	SZRMtKVM-J
Wire number:	7
Construction:	7 x 2.5
Note:	New cable
Wire number: Bind point (Plan sign :Connection)	Wire number: Bind point (Plan sign :Connection)
1. -X3 :1	5. -X3 :5
2. -X3 :2	6. -X3 :6
3. -X3 :3	7. -
4. -X3 :4	

Cable number:	J001W002
Cable number:	2.
Bind fitting place	+S1
End fitting place	+R1
Brake:	B
Type:	SZRMtKVM-J
Wire number:	7
Construction:	7 x 2.5
Note:	New cable
Wire number: Bind point (Plan sign :Connection)	Wire number: Bind point (Plan sign :Connection)
1. -X3 :7	5. -
2. -X3 :9	6. -
3. -X3 :11	7. -
4. -X3 :12	

Cable number:	J001E003
Cable number:	3.
Bind fitting place	+S1
End fitting place	-T1.L1
Brake:	A
Type:	SZRMtKVM-J
Wire number:	4
Construction:	4 x 2.5
Note:	New cable
Current Tran. 1. relaysseed L1	
Wire number: Bind point (Plan sign :Connection)	Wire number: Bind point (Plan sign :Connection)
1. -X3 :1	3. -
2. -X3 :2	4. -

Cable number:	J001E004
Cable number:	4.
Bind fitting place	+S1
End fitting place	-T1.L1
Brake:	B
Type:	SZRMtKVM-J
Wire number:	4
Construction:	4 x 2.5
Note:	New cable
Current Tran. 2. relaysseed L1	
Wire number: Bind point (Plan sign :Connection)	Wire number: Bind point (Plan sign :Connection)
1. -X3 :7	3. -
2. -X3 :8	4. -

Cable number:	J000E005
Cable number:	5.
Bind fitting place	+S1
End fitting place	-T1.L2
Brake:	C
Type:	SZRMtKVM-J
Wire number:	4
Construction:	4 x 2.5
Note:	New cable
Current Tran. 1. relaysseed L2	
Wire number: Bind point (Plan sign :Connection)	Wire number: Bind point (Plan sign :Connection)
1. -X3 :3	3. -
2. -X3 :4	4. -

Cable number:	J001E006
Cable number:	6.
Bind fitting place	+S1
End fitting place	-T1.L2
Brake:	D
Type:	SZRMtKVM-J
Wire number:	4
Construction:	4 x 2.5
Note:	New cable
Current Tran. 2. relaysseed L2	
Wire number: Bind point (Plan sign :Connection)	Wire number: Bind point (Plan sign :Connection)
1. -X3 :9	3. -
2. -X3 :10	4. -

Cable number:	J001E007
Cable number:	7.
Bind fitting place	+S1
End fitting place	-T1.L3
Brake:	E
Type:	SZRMtKVM-J
Wire number:	4
Construction:	4 x 2.5
Note:	New cable
Current Tran. 1. relaysseed L3	
Wire number: Bind point (Plan sign :Connection)	Wire number: Bind point (Plan sign :Connection)
1. -X3 :5	3. -
2. -X3 :6	4. -

Cable number:	J001E008
Cable number:	8.
Bind fitting place	+S1
End fitting place	-T1.L3
Brake:	F
Type:	SZRMtKVM-J
Wire number:	4
Construction:	4 x 2.5
Note:	New cable
Current Tran. 2. relaysseed L3	
Wire number: Bind point (Plan sign :Connection)	Wire number: Bind point (Plan sign :Connection)
1. -X3 :11	3. -
2. -X3 :12	4. -

Cables: / 1. / 2. / 3. / 4. / 5. / 6. / 7. / 8.

The interpretation of concepts
in OmegaCAD ELEKTRO system
1. 20 kV turnout
Budapest transmission line

Change:

Scale: M=1:1

Date: 2009.02.15.

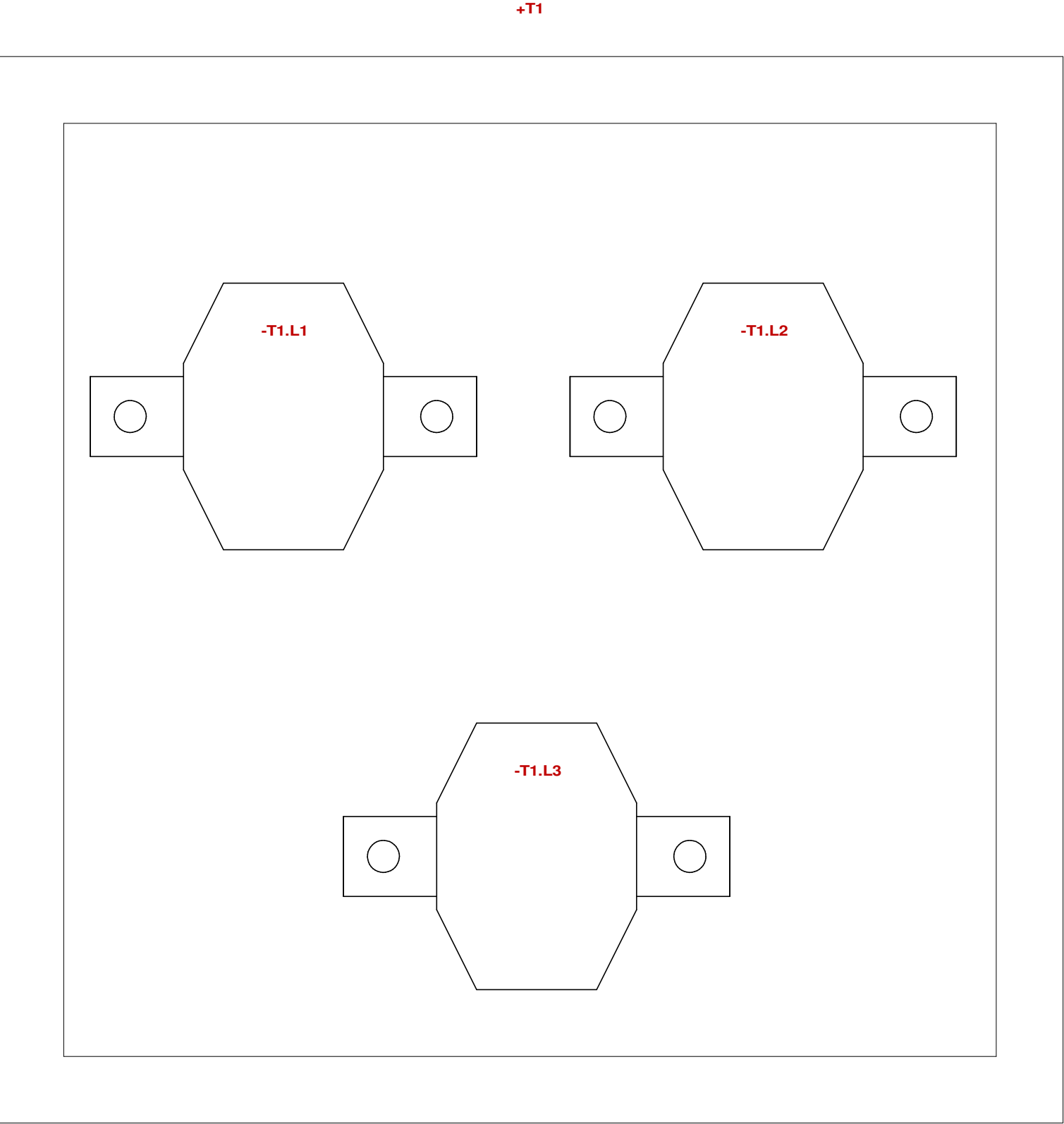
Example-Plan Ltd.
Example-Plan
Ltd.

=J01
+S1

Plan number: MINT-S-J01-S02

Plan code: MINT-S-J01-S02

Sheet:
3
3



Fitting place type:		GK-W441		
Plansign	Apparat type	Nominal data		
-T1.L1	ARM-20a (L)	20 kV	500 A	5/5 A
-T1.L2	ARM-20a (L)	20 kV	500 A	5/5 A
-T1.L3	ARM-20a (L)	20 kV	500 A	5/5 A

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							Leader designer:	Leslie Hegyaljai						
							Designer:	Omega-Soft Kft.		Theme: Diszpozition plan Fruition plan Sample to the first step 20 kV current transformers				
							Controller:	Example Controller						
							Editor:	OmegaCAD ELEKTRO		=J01 +T1 1. 20 kV turnout Budapest transmission line				
							Date:	2009.02.24.						
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							Sheet size:	A3 420x297mm						
Sign	Date	Designer	Manager	Controller	Change contents	Printing date:	2015.2.18.	9h 16' 29".	Plan code: MINT-S-J01-E03					

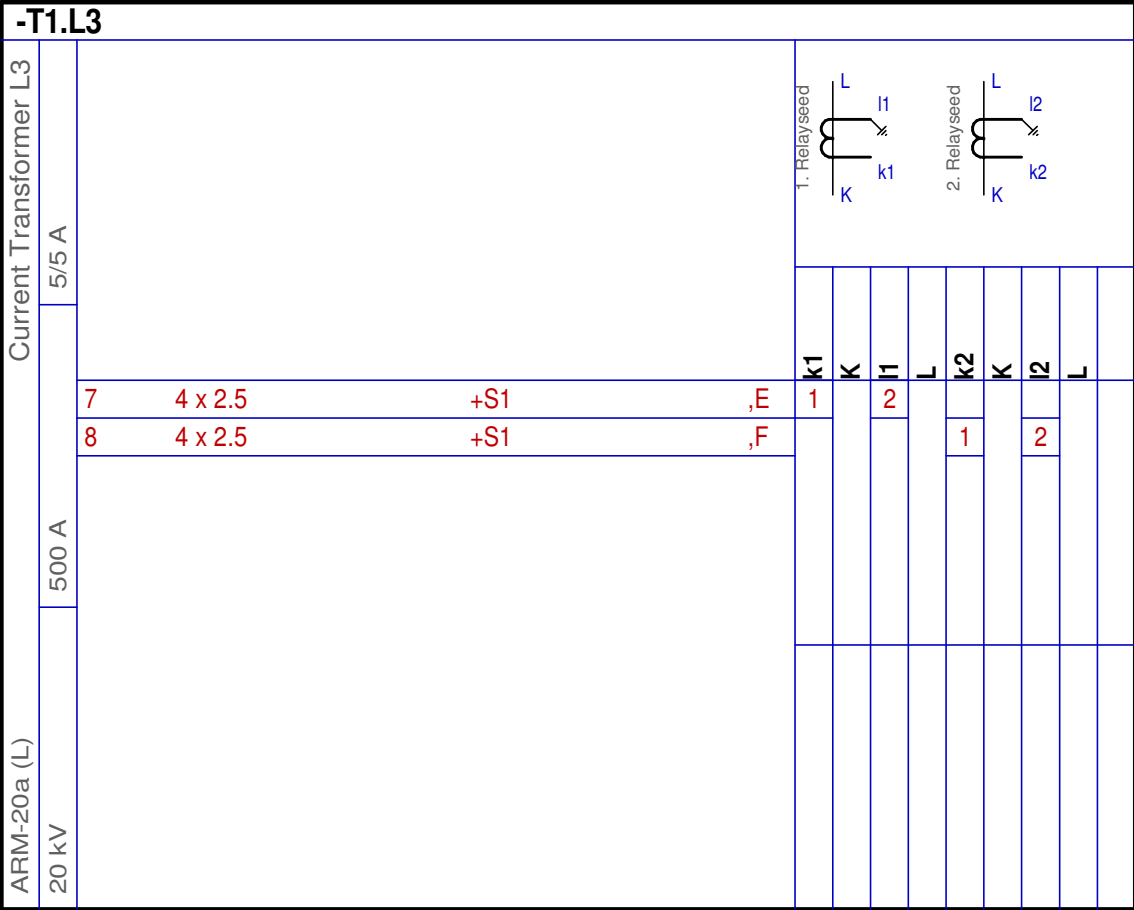
ARM-20a (L)		Current Transformer L1		-T1.L1									
20 kV	500 A	5/5 A											
		3	4 x 2.5	+S1	,A	k1	K	I1	L	k2	K	I2	L
		4	4 x 2.5	+S1	,B	1		2		1		2	

-T1.L2					
ARM-20a (L)	Current Transformer L2				
	20 kV	500 A		5/5 A	
	5	4 x 2.5	+S1	,C	k1 K I1 L k2 K I2 L
	6	4 x 2.5	+S1	,D	1 1 2 2

Contents:	
1 .sheet	-T1.L1 /-T1.L2
2 .sheet	-T1.L3
3 .sheet	Cables: / 3. / 4. / 5. / 6. / 7. / 8.

-T1.L1 /-T1.L2

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							Leader designer:	Leslie Hegyaljai							
							Designer:	Omega-Soft Kft.		Theme: Fitting plan Fruition plan Sample to the first step 20 kV current transformers =J01 +T1 1. 20 kV turnout Budapest transmission line					
							Controller:	Example Controller							
							Editor:	OmegaCAD ELEKTRO							
							Date:	2009.02.24.							
							Scale:	M=1:1				All sheet: 3			Sheetnumber: 1.
							Sheet size:	A3 420x297mm							
	Sign	Date	Designer	Manager	Controller	Change contents	Printing date:	2015.2.18.	9h 16' 29".	Plan code: MINT-S-J01-S03					



-T1.L3

The interpretation of concepts
in OmegaCAD ELEKTRO system
1. 20 kV turnout
Budapest transmission line

Change:

Scale: M=1:1

Date: 2009.02.24.

Example-Plan Ltd.
 Example-Plan Ltd.

=J01
+T1

Plan number: MINT-S-J01-S03

Plan code: MINT-S-J01-S03

Sheet:
2
3

Cable number:	J001E003
Cable number:	3.
Bind fitting place	-T1.L1
End fitting place	+S1
Brake:	A
Type:	SZRMtKVM-J
Wire number:	4
Construction:	4 x 2.5
Note:	New cable
Current Tran. 1. relaysseed L1	
Wire number: Bind point (Plan sign :Connection)	Wire number: Bind point (Plan sign :Connection)
1. -T1.L1 :k1	3. -
2. -T1.L1 :l1	4. -

Cable number:	J001E006
Cable number:	6.
Bind fitting place	-T1.L2
End fitting place	+S1
Brake:	D
Type:	SZRMtKVM-J
Wire number:	4
Construction:	4 x 2.5
Note:	New cable
Current Tran. 2. relaysseed L2	
Wire number: Bind point (Plan sign :Connection)	Wire number: Bind point (Plan sign :Connection)
1. -T1.L2 :k2	3. -
2. -T1.L2 :l2	4. -

Cable number:	J001E004
Cable number:	4.
Bind fitting place	-T1.L1
End fitting place	+S1
Brake:	B
Type:	SZRMtKVM-J
Wire number:	4
Construction:	4 x 2.5
Note:	New cable
Current Tran. 2. relaysseed L1	
Wire number: Bind point (Plan sign :Connection)	Wire number: Bind point (Plan sign :Connection)
1. -T1.L1 :k2	3. -
2. -T1.L1 :l2	4. -

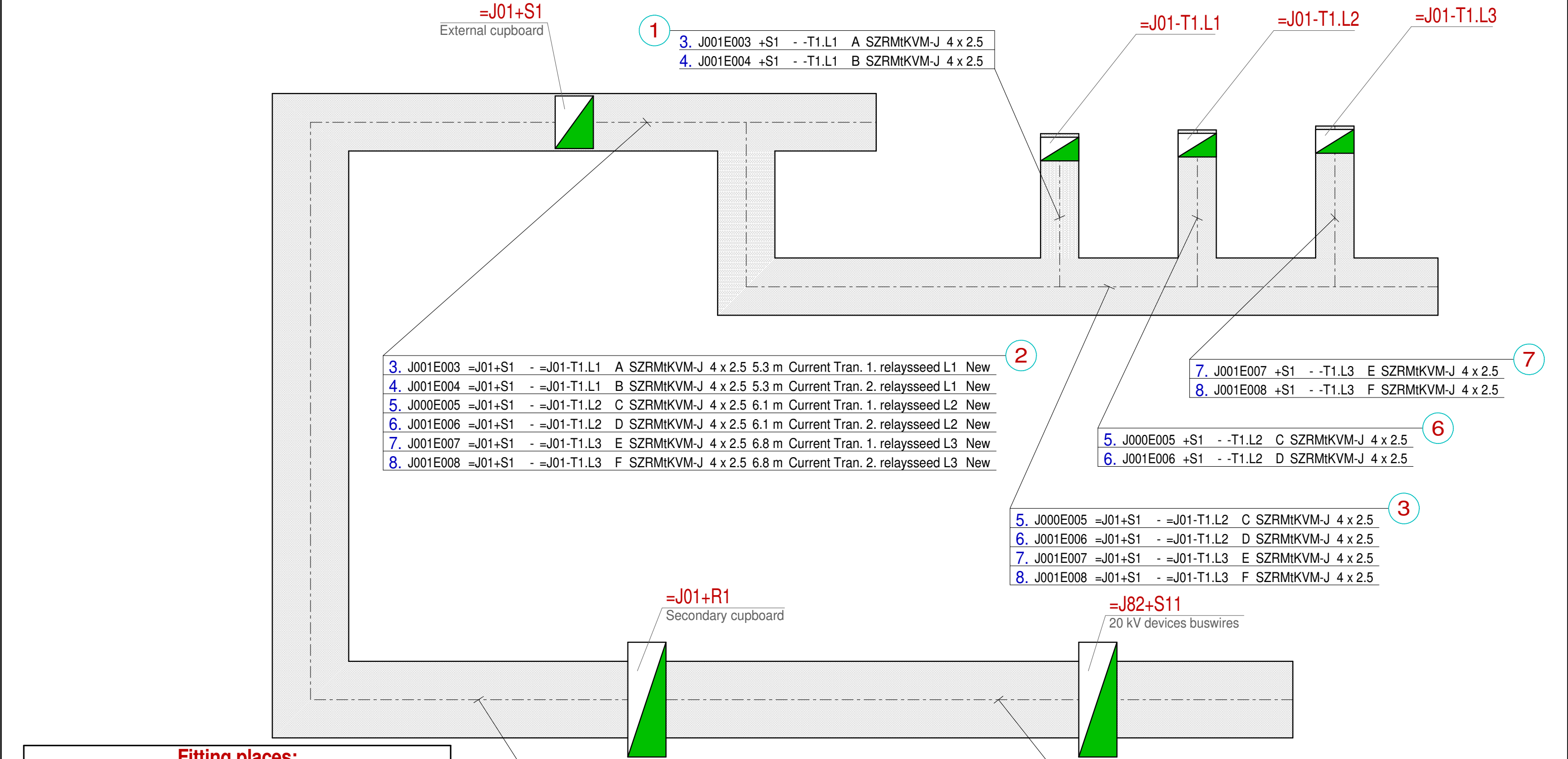
Cable number:	J001E007
Cable number:	7.
Bind fitting place	-T1.L3
End fitting place	+S1
Brake:	E
Type:	SZRMtKVM-J
Wire number:	4
Construction:	4 x 2.5
Note:	New cable
Current Tran. 1. relaysseed L3	
Wire number: Bind point (Plan sign :Connection)	Wire number: Bind point (Plan sign :Connection)
1. -T1.L3 :k1	3. -
2. -T1.L3 :l1	4. -

Cable number:	J000E005
Cable number:	5.
Bind fitting place	-T1.L2
End fitting place	+S1
Brake:	C
Type:	SZRMtKVM-J
Wire number:	4
Construction:	4 x 2.5
Note:	New cable
Current Tran. 1. relaysseed L2	
Wire number: Bind point (Plan sign :Connection)	Wire number: Bind point (Plan sign :Connection)
1. -T1.L2 :k1	3. -
2. -T1.L2 :l1	4. -

Cable number:	J001E008
Cable number:	8.
Bind fitting place	-T1.L3
End fitting place	+S1
Brake:	F
Type:	SZRMtKVM-J
Wire number:	4
Construction:	4 x 2.5
Note:	New cable
Current Tran. 2. relaysseed L3	
Wire number: Bind point (Plan sign :Connection)	Wire number: Bind point (Plan sign :Connection)
1. -T1.L3 :k2	3. -
2. -T1.L3 :l2	4. -

Cables: / 3. / 4. / 5. / 6. / 7. / 8.

The interpretation of concepts in OmegaCAD ELEKTRO system 1. 20 kV turnout Budapest transmission line	Change:	 Example-Plan Ltd.	=J01 +T1	Plan number: MINT-S-J01-S03	Sheet: 3 3
	Scale: M=1:1			Plan code: MINT-S-J01-S03	
	Date: 2009.02.24.				



Fitting places:

=J01	+R1	Secondary cupboard	1.sheet	KSZ	0x600x0 [mm]
=J01	+S1	External cupboard	1.sheet	GK-W642	0x275x0 [mm]
=J01	-T1.L1		1.sheet	AKM-0	0x124x0 [mm]
=J01	-T1.L2		1.sheet	AKM-0	0x124x0 [mm]
=J01	-T1.L3		1.sheet	AKM-0	0x124x0 [mm]
=J82	+S11	20 kV devices buswires	1.sheet	KSZ	0x600x0 [mm]

CHANGES						Head of department:	Dr. Boss		The interpretation of concepts in OmegaCAD ELEKTRO system		Example-Plan Ltd. H -1164 Budapest Takács str. 4. E-mail:info@omegasoft.hu	
						Leader designer:	Leslie Hegyaljai					
						Designer:	Omega-Soft Kft.		Theme: Cable-laying plan		Fruition plan	
						Controller:	Example Controller				Sample to the first step	
						Editor:	OmegaCAD ELEKTRO		=J01			
						Date:	2009.02.24.		1. 20 kV turnout			
						Scale:	M=1:20		Budapest transmission line			
	Sign	Date	Designer	Manager	Controller	Change contents	Printing date:	2015.2.18.	9h 16' 30".	All sheet: 4	Sheetnumber: 1.	Plan number/Change:
												MINT-S-J00-K00
										Plan code: MINT-S-J01-K00		



- 1
3. J001E003 +S1 - -T1.L1 A SZRMtKVM-J 4 x 2.5

4. J001E004 +S1 - -T1.L1 B SZRMtKVM-J 4 x 2.5

- 2
3. J001E003 =J01+S1 - =J01-T1.L1 A SZRMtKVM-J 4 x 2.5 5.3 m Current Tran. 1. relaysseed L1 New

4. J001E004 =J01+S1 - =J01-T1.L1 B SZRMtKVM-J 4 x 2.5 5.3 m Current Tran. 2. relaysseed L1 New

5. J000E005 =J01+S1 - =J01-T1.L2 C SZRMtKVM-J 4 x 2.5 6.1 m Current Tran. 1. relaysseed L2 New

6. J001E006 =J01+S1 - =J01-T1.L2 D SZRMtKVM-J 4 x 2.5 6.1 m Current Tran. 2. relaysseed L2 New

7. J001E007 =J01+S1 - =J01-T1.L3 E SZRMtKVM-J 4 x 2.5 6.8 m Current Tran. 1. relaysseed L3 New

8. J001E008 =J01+S1 - =J01-T1.L3 F SZRMtKVM-J 4 x 2.5 6.8 m Current Tran. 2. relaysseed L3 New

- 3
5. J000E005 =J01+S1 - =J01-T1.L2 C SZRMtKVM-J 4 x 2.5

6. J001E006 =J01+S1 - =J01-T1.L2 D SZRMtKVM-J 4 x 2.5

7. J001E007 =J01+S1 - =J01-T1.L3 E SZRMtKVM-J 4 x 2.5

8. J001E008 =J01+S1 - =J01-T1.L3 F SZRMtKVM-J 4 x 2.5

- 4
1. J01EV001 =J01+R1 - =J82+S11 A NYCY 14x1,5/16 3.6 m New

- 5
1. J001W001 =J01+R1 - =J01+S1 A SZRMtKVM-J 7 x 2.5 7.4 m New

2. J001W002 =J01+R1 - =J01+S1 B SZRMtKVM-J 7 x 2.5 7.4 m New

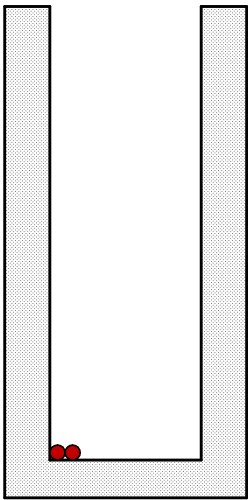
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5. J000E005 +S1 - -T1.L2 C SZRMtKVM-J 4 x 2.5

6. J001E006 +S1 - -T1.L2 D SZRMtKVM-J 4 x 2.5

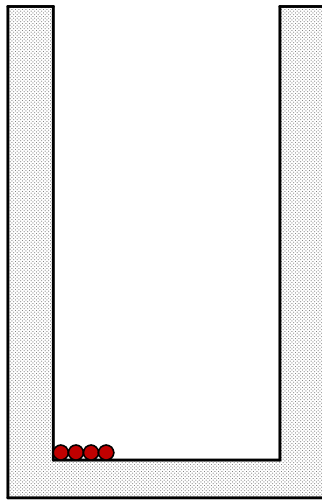
- 7
7. J001E007 +S1 - -T1.L3 E SZRMtKVM-J 4 x 2.5

8. J001E008 +S1 - -T1.L3 F SZRMtKVM-J 4 x 2.5

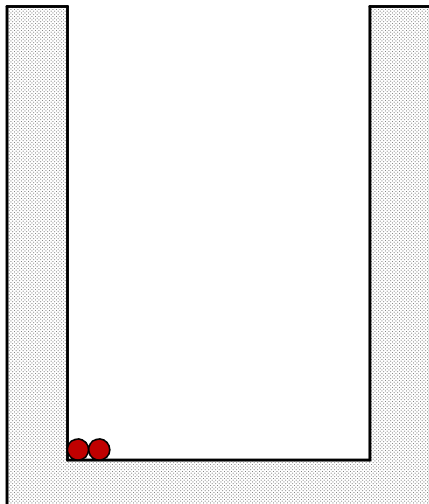
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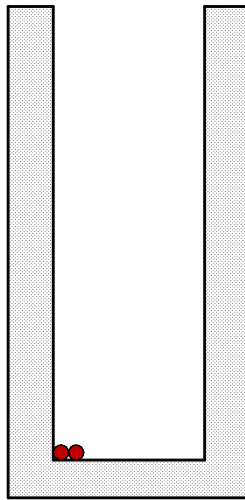
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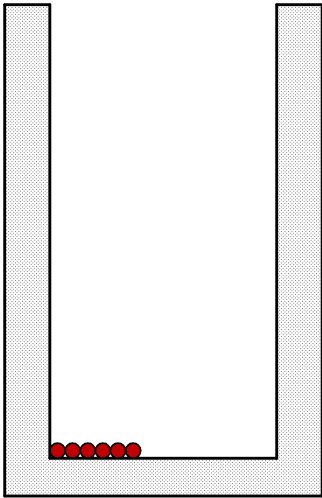
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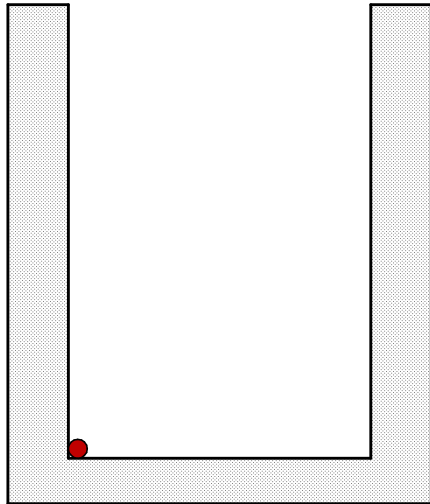
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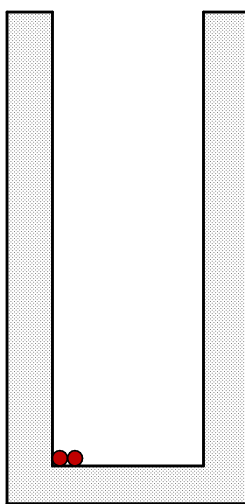
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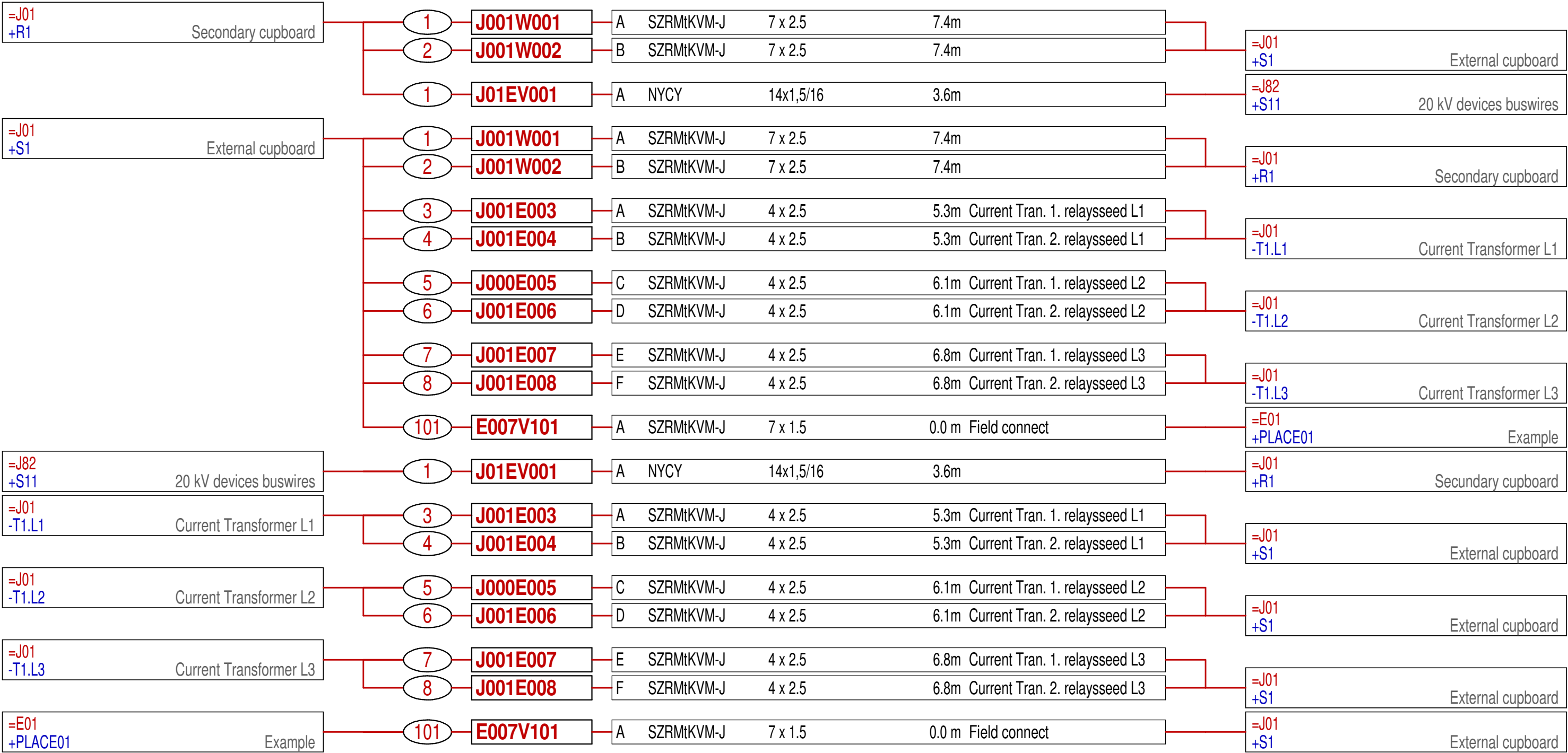
4



6



Cable registry by fitting places



Contents:	
1 .sheet	Cable registry by fitting places
2 .sheet	Cable summary
3 .sheet	Cable between fields:
	'Needed cable amount'
	'Number of cable ends'

CHANGES						Head of department:	Dr. Boss	The interpretation of concepts in OmegaCAD ELEKTRO system		Example-Plan Ltd. H -1164 Budapest Takács str. 4. E-mail:info@omegasoft.hu	
						Leader designer:	Leslie Hegyaljai				
						Designer:	Omega-Soft Kft.	Theme: Cable list plan		Fruition plan Sample to the first step	
						Controller:	Example Controller				
						Editor:	OmegaCAD ELEKTRO	=J01 1. 20 kV turnout Budapest transmission line		Example-Plan Ltd.	
						Date:	2009.02.15.				
						Scale:	M=1:1	All sheet: 3		Sheetnumber: 1.	
						Sheet size:	A3 420x297mm				
Sign	Date	Designer	Manager	Controller	Change contents	Printing date:	2015.2.18.	9h 16' 30".	Plan number/Change: MINT-S-J01-K00		
30W001 OMEGA-soft Kft.										2015.2.18. 9h 16' 30".	

Cable summary
(Cable lengths must be checked before cutting!)

	Field	Number	Identifier	From	To	Break	Type	Structure	Length [m]	Name
1.	=J01	1.	J001W001	+R1	+S1	A	SZRMtKVM-J	7 x 2.5	7.4m	
2.	=J01	2.	J001W002	+R1	+S1	B	SZRMtKVM-J	7 x 2.5	7.4m	
3.	=J01	3.	J001E003	+S1	-T1.L1	A	SZRMtKVM-J	4 x 2.5	5.3m	Current Tran. 1. relaysseed L1
4.	=J01	4.	J001E004	+S1	-T1.L1	B	SZRMtKVM-J	4 x 2.5	5.3m	Current Tran. 2. relaysseed L1
5.	=J01	5.	J000E005	+S1	-T1.L2	C	SZRMtKVM-J	4 x 2.5	6.1m	Current Tran. 1. relaysseed L2
6.	=J01	6.	J001E006	+S1	-T1.L2	D	SZRMtKVM-J	4 x 2.5	6.1m	Current Tran. 2. relaysseed L2
7.	=J01	7.	J001E007	+S1	-T1.L3	E	SZRMtKVM-J	4 x 2.5	6.8m	Current Tran. 1. relaysseed L3
8.	=J01	8.	J001E008	+S1	-T1.L3	F	SZRMtKVM-J	4 x 2.5	6.8m	Current Tran. 2. relaysseed L3

Cable between fields:

	Number	Identifier	From	To	Break	Type	Structure	Length [m]	Name
9.	101.	E007V101	=J01+S1	=E01+PLACE01	A	SZRMtKVM-J	7 x 1.5	0.0 m	Field connect
10.	1.	J01EV001	=J82+S11	=J01+R1	A	NYCY	14x1,5/16	3.6m	

'Needed cable amount'

Type	Structure	Length [m]
SZRMtKVM-J	4 x 2.5	36.4 [m]
SZRMtKVM-J	7 x 2.5	14.7 [m]
NYCY	14x1,5/16	3.6 [m]

'Number of cable ends'

Type	Structure	Quantity
SZRMtKVM-J	4 x 2.5	12 piece
SZRMtKVM-J	7 x 1.5	2 piece
SZRMtKVM-J	7 x 2.5	4 piece
NYCY	14x1,5/16	2 piece

Write material list/calculation

Project: Example I. 120/20/10 kV-os, Transformer Substation

Collected to

Field: =J01, 1. 20 kV turnout, Budapest transmission line

Apparats

X: 3837.	current transf.:ARM-20a (L)	
	Up =20 kV	
	Ip =500 A	
	Isz =5/5 A	Quantity= 3 db
X: 4022.	cutout :5SX5106-7	
	In =6 A	
	s. érint. =1ny+1z	
	Irz/Un =220 V DC	Quantity= 6 db
X: 5439.	overcurrent pr.:DTI-EP AV	
	Unfv =	
	In =5A	
	Un =	Quantity= 1 pieces
X: 5440.	overcurrent pr.:DTIVA2-EP AV	
	Unfv =	
	In =5A	
	Un =.	Quantity= 1 pieces

Terminal

102000	Terminal: WDU [TS 35]	
	Type: WDU 2.5	
	Rail: TS 35	
	Un: 800V	
	In: 24A	
	Max.: 2.5mm2	
	Wire: 0.13 4mm2	
	Color: Beige, Material: Wemid	
	Ordering number: 102000	Quantity= 23 peaces
010602	Terminal: SAKT [TS 35]	
	Type: SAKT 2/LT/35	
	Rail: TS 35	
	Un: 400V	
	In: 27A	
	Max.: 6mm2	
	Color: Okker, Material: KrG	
	Ordering number: 010602	Quantity= 26 peaces
033830	Terminal parts: QL lamella line	
	Type: QL 10	
	Ordering number: 033830	Quantity= 4 peace
030730	Terminal parts: QVS closing	
	Type: QVS 2	
	Size -	
	Ordering number: 030730	Quantity= 13 peaces
036366	Terminal parts: Small reply card	
	Type: TSch 2	
	Size: -	
	Ordering number: 036366	Quantity= 2 peaces
035366	Terminal parts: End reply card	
	Type: TSch 2	
	Color: Dark beige, Material: Wemid	
	Size: 1mm	
	Ordering number: 035366	Quantity= 2 peaces
105010	Terminal parts: End reply card	
	Type: WTW 2.5-10	
	Color: Beige, Material: Wemid	
	Size: 1.5mm	
	Ordering number: 105010	Quantity= 12 peace

037710	Sorkapocs tartozék: Csavar	
	Típus: BS	
	Anyag: CuNi	
	Méret: M 3.0x20	
	Rendelési szám: 037710	Quantity= 13 darab
033470	Sorkapocs tartozék: Csavar	
	Típus: BS 25	
	Szín: Szín nélkül, Anyag: CuZn 39	
	Méret: -	
	Rendelési szám: 033470	Quantity= 26 darab
031800	Sorkapocs tartozék: Hüvely	
	Típus: VH 19	
	Anyag: CuZn 39	
	Méret: -	
	Rendelési szám: 031800	Quantity= 26 darab
020773	Sorkapocs tartozék: Szigetelő hüvely	
	Típus: DS 12.5	
	Méret: -	
	Rendelési szám: 020773	Quantity= 13 darab
105900	Sorkapocs tartozék: Végbak	
	Típus: WEW 35/1	
	Méret: 12.2x63x56	
	Rendelési szám: 105900	Quantity= 8 darab
174735	Sorkapocs tartozék: Tartósín	
	Típus: TS 35	
	Anyag: Nemesacél	
	Méret: 35x7.5	
	Rendelési szám: 174735	Quantity= 49 cm

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							Leader designer:	Leslie Hegyaljai						
							Designer:	Omega-Soft Kft.		Theme: Materials list plan Fruition plan Sample to the first step				
							Controller:	Example Controller						
							Editor:	OmegaCAD ELEKTRO		=J01 1. 20 kV turnout Budapest transmission line				
							Date:	2009.02.24.						
							Scale:	M=1:1		All sheet: 2 Sheetnumber: 1.		Plan number/Change: MINT-S-J01-A00		
							Sheet size:	A3 420x297mm						
	Sign	Date	Designer	Manager	Controller	Change contents	Printing date:	2015.2.18.	9h 16' 30".	Plan code: MINT-S-J01-A00				

Field: =J82, 20 kV devices buswires,

Terminal

102000	Terminal: WDU [TS 35] Type: WDU 2.5 Rail: TS 35 Un: 800V In: 24A Max.: 2.5mm2 Wire: 0.13 4mm2 Color: Beige, Material: Wemid Ordering number: 102000	Quantity= 13 peaces
--------	--	---------------------

Used cable amount

43-643-03146-0	Cable: SZRMiKVM-J / 4 x 2.5	Quantity= 36 m
43-643-03149-0	Cable: SZRMiKVM-J / 7 x 2.5	Quantity= 14 m
X: 68.	Cable: NYCY / 14x1,5/16	Quantity= 3 m

Other items belonging to used cables

7-43-63-14-015	cable core tying-2.5 2-5 core case	Quantity= 12 Db
7-43-63-14-016	cable core tying-2.5 7-10 core case	Quantity= 4 db
64-15-21-11	end training 2-5 core case	Quantity= 12 db
64-15-21-12	end training 7-10 core case	Quantity= 4 db

A

B

C

D

E

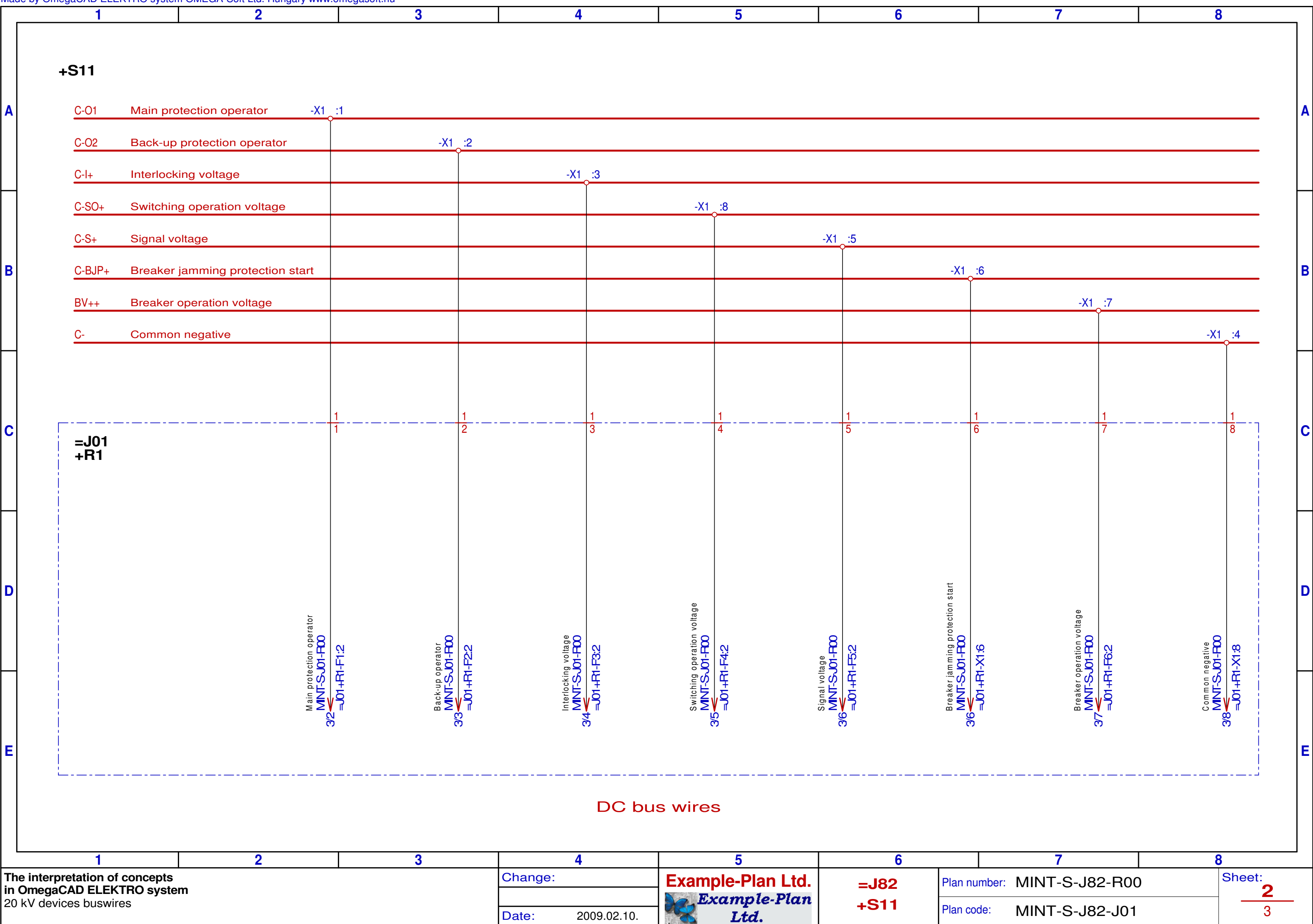
F

Fitting places:		
=J82	+S11	20 kV devices buswires
=J01	+R1	Secondary cupboard

Bus wires:	
C-O1	Main protection operator
C-O2	Back-up protection operator
C-I+	Interlocking voltage
C-	Common negative
C-S+	Signal voltage
C-BJP+	Breaker jamming protection start
BV++	Breaker operation voltage
J01/AM+	Alap működtető
J01/TM+	Tartalék működtető
J01/R+	Reteszelések
J01/Q1+	Szakaszoló motorhajtás
J01/J+	Jelzések
J01/MBM+	MBM
J01/KL+	Motorműködtetések
J01/-	Negatív
C-SO+	Szakaszoló hajtás tápfesz

Contents:	
2 .sheet	DC bus wires
3 .sheet	Cable:=J82: /1.

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							Leader designer:	Leslie Hegyaljai						
							Designer:	Omega-Soft Kft.		Theme: Circuit plan Fruition plan Sample to the first step				
							Controller:	Example Controller						
							Editor:	OmegaCAD ELEKTRO		=J82 20 kV devices buswires				
							Date:	2009.02.10.						
							Scale:	M=1:1		All sheet: 3	Sheetnumber: 1.	Plan number/Change: MINT-S-J82-R00		
							Sheet size:	A3 420x297mm						
Sign	Date	Designer	Manager	Controller	Change contents		Printing date:	2015.2.18.	9h 16' 30".	Plan code: MINT-S-J82-J01				



Num- ber	Cable number	From To	Sign	Placement of cable cores [Sheet/Circuit diagram position]																																																Comment	
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Type / Structure	
1	J01EV001	+S11 =J01+R1	A	2	2	2	2	2	2	2	2																																										
				2	3	4	5	6	6	7	8																																					NYCY14x1,5/16					

Cable:=J82: /1.

The interpretation of concepts in OmegaCAD ELEKTRO system

Change:

Date: 2009.02.10.

Example-Plan Ltd.



=J82

Plan number: MINT-S-J82-R00

Plan code: MINT-S-J82-J01

Sheet:

3

3

Fit terminal type			
Block	Number	Type + codenumber	
X1 block	1 - 13	WDU 2.5	102000

Contents:	
2 .sheet	-X1:1 - 13.
3 .sheet	Cables: / 1.

CHANGES							Head of department:	Dr. Boss		The interpretation of concepts in OmegaCAD ELEKTRO system			Example-Plan Ltd. H -1164 Budapest Takács str. 4. E-mail:info@omegasoft.hu Example-Plan Ltd.	
							Leader designer:	Leslie Hegyaljai						
							Designer:	Omega-Soft Kft.		Theme: Fitting plan Fruition plan Sample to the first step 20 kV devices buswires				
							Controller:	Example Controller						
							Editor:	OmegaCAD ELEKTRO		=J82 +S11 20 kV devices buswires				
							Date:	2009.02.24.						
							Scale:	M=1:1		All sheet: 3	Sheetnumber: 1.	Plan number/Change: MINT-S-J82-R01		
							Sheet size:	A3 420x297mm						
Sign	Date	Designer	Manager	Controller	Change contents		Printing date:	2015.2.18.	9h 16' 30".	Plan code: MINT-S-J82-R01				

The interpretation of concepts in OmegaCAD ELEKTRO system

Date:	2009.02.24.
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**Example-Plan
Ltd.**

+S11

Plan code: MINT-S-J82-R01

3

Cable number:	J01EV001
Cable number:	1.
Bind fitting place	+S11
End fitting place	=J01+R1
Brake:	A
Type:	NYCY
Wire number:	14.
Construction:	14x1,5/16
Note:	New cable
Wire number: Bind point (Plan sign :Connection)	Wire number: Bind point (Plan sign :Connection)
1. -X1 :1 	8. -X1 :4 
2. -X1 :2 	9. - 
3. -X1 :3 	10. - 
4. -X1 :8 	11. - 
5. -X1 :5 	12. - 
6. -X1 :6 	13. - 
7. -X1 :7 	14. - 

Cables: / 1.

The interpretation of concepts
in OmegaCAD ELEKTRO system
20 kV devices buswires

Change:

Scale: M=1:1

Date: 2009.02.24.

Example-Plan Ltd.
 Example-Plan
Ltd.

=J82
+S11

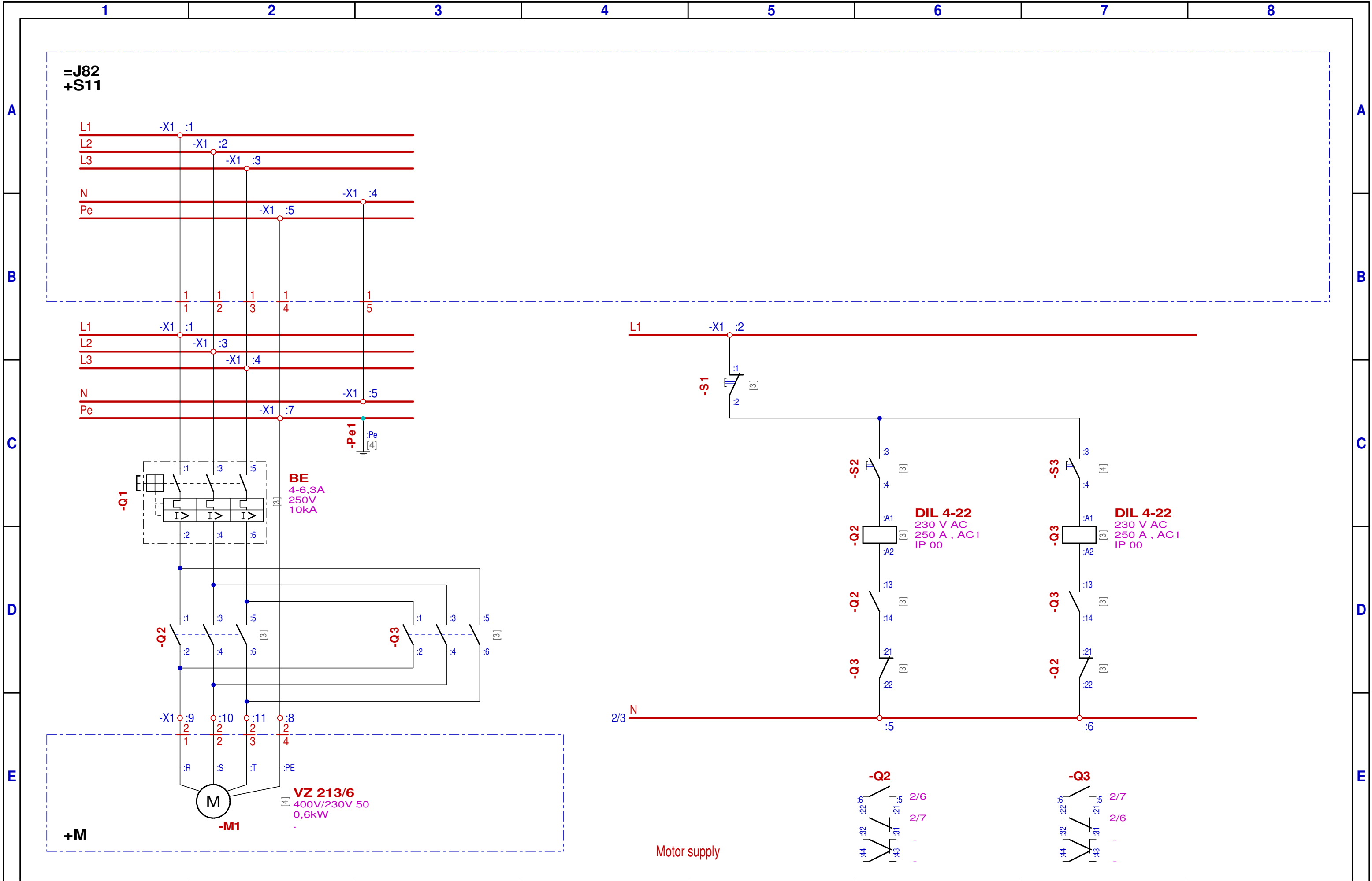
Plan number: MINT-S-J82-R01

Plan code: MINT-S-J82-R01

Sheet:
3

3

Made by OmegaCAD1ELEKTRO system										OMEGA-Soft Ltd. Hungary www.omegasoft.hu										3	4	5	6	7	8



The interpretation of concepts
in OmegaCAD ELEKTRO system
Engine operating

Change:

Date: 2009.09.04.

Example-Plan Ltd.
Example-Plan Ltd.

=M01
+S1

Plan number: MINTA S L 102

Plan code: MINTA

Sheet:

2
5

Ftg. place	Apparatus name	Attributes	Nominal datas	Plansign	Pcs.	Placement of apparatus part [Sheet/Circuit diagram position]																																																						
+S1	engine defender	BE In Un I _r z	= 4-6,3A = 250V = 10kA	-Q1	1																																																							
					<table><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td></td><td>11</td><td>12</td><td></td><td>21</td><td>24</td></tr></table>						1	2	3	4	5	6		11	12		21	24	<table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>																																					
					1	2	3	4	5	6		11	12		21	24																																												
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2						2																																																						
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	power contactor	DIL 4-22 Un In osculatory	= 230 V AC = 250 A , AC1 = IP 00	-Q2 -Q3	2																																																							
					<table><tr><td>A 1</td><td>A 2</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>13</td><td>14</td><td>21</td><td>22</td><td>31</td><td>32</td><td>43</td><td>44</td></tr></table>						A 1	A 2	1	2	3	4	5	6	13	14	21	22	31	32	43	44	<table><tr><td colspan="2">2</td><td colspan="4">2</td><td colspan="2">2</td><td colspan="2">2</td><td colspan="2">—</td><td colspan="2">—</td></tr><tr><td colspan="2">6</td><td colspan="4">2</td><td colspan="2">6</td><td colspan="2">7</td><td colspan="2"></td><td colspan="2"></td></tr></table>						2		2				2		2		—		—		6		2				6		7					
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	nyomógomb	C21AA03+230E01 osculatory In color	= 1ny = fekete = GANZ KK	-S1	1																																																							
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2																																																												
5																																																												
	nyomógomb	C21AA02+230E10 osculatory In color	= 1z = zöld = GANZ KK	-S2	2																																																							
					<table><tr><td>3</td><td>4</td></tr></table>		3	4																																																				
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2																																																												
6																																																												

+S1/-Q1/-Q2/-Q3/-S1/-S2

The interpretation of concepts in OmegaCAD ELEKTRO system Engine operating	Change:	Example-Plan Ltd. <i>Example-Plan Ltd.</i>	=M01	Plan number: MINTA S L 102	Sheet: 3 5
				Plan code: MINTA	
	Date: 2009.09.04.				

Ftg. place	Apparatus name	Attributes	Nominal datas	Plansign	Pcs.	Placement of apparatus part [Sheet/Circuit diagram position]	
+S1				-S3		2 7	
	földelés	Védőföldelés Anyag Keresztm. Jelleg	= Cu = 2.5 mm2 = Szig. flex.		1	Pe	
				-Pe1		Pe 2 3	
+M	ventillátor	VZ 213/6 Un Pn Légszáll.	= 400V/230V 50 = 0,6kW = .		1	R S T PE M	
						PE R S T	
				-M1		2 2	

+S1/-S3 /-Pe1 +M /-M1

[illegible]

Cable:=M01: /1. /2.

The interpretation of concepts in OmegaCAD ELEKTRO system

Change:

Date: 2009.09.04.

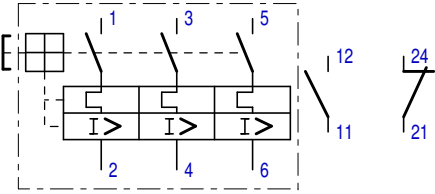
Example-Plan Ltd.

=M01

Plan number: MINTA S L 102

Plan code: MINTA

Sheet:
5
5

BE		-Q1	
4-6,3A	250V	10kA	
	-X1	1 1.5	
	-Q2	2 1.5	
	-X1	3 1.5	
	-Q2	4 1.5	
	-X1	5 1.5	
	-Q2	6 1.5	
		11	
		12	
		21	
		24	

-Q2					
DIL 4-22	230 V AC	250 A , AC1	IP 00		
	S	:4	A1 1.5		
	Q	:13	A2 1.5		
	Q	:2	1 1.5		
	Q	:2	2 1.5		
	Q	:4	3 1.5		
	Q	:4	4 1.5		
	Q	:6	5 1.5		
	Q	:6	6 1.5		
	Q	:A2	13 1.5		
	Q	:21	14 1.5		
	Q	:14	21 1.5		
	X	:6	22 1.5		
			31		
			32		
			43		
			44		

DIL 4-22		250 A, AC1		IP 00	
230 V AC					
		S3	4	A1	1.5
		Q8	:13	A2	1.5
		Q2	:5	1	1.5
X1	1.5	Q2	:2	2	1.5
		Q2	:3	3	1.5
X1	1.5	Q2	:4	4	1.5
		Q2	:1	5	1.5
X1	1.5	Q2	:6	6	1.5
		Q8	:A2	13	1.5
		Q2	:21	14	1.5
		Q2	:14	21	1.5
		X1	:5	22	1.5
				31	
				32	
				43	
				44	

C21AA03+230E01				-S1	
1ny	fekete	GANZ KK			
	X1	1 1.5	2 1.5		
	X2				

C21AA02+230E10				-S2			
1z	1.5	51	zöld	GANZ KK			
88	3	2	3	1.5	2	3	
		Q	4	1.5	A1	4	

C21AA02+230E10				-S3	
1z	zöld	GANZ KK			
	8	3	1.5	3	
	8	3	1.5	4	
		A1			

Védőföldelés		
Cu	2.5 mm2	Szig. flex.
	Pe	1.5 Pe

Contents:	
1 .sheet	-Q1 /-Q2 /-Q3 /-S1 /-S2 /-S3 /-Pe1
2 .sheet	-X1:1 - 16.
3 .sheet	Cables: / 1. / 2.
4 .sheet	Bus wires: /Pe
5 .sheet	Wires inside fitting place:
6 .sheet	Chaining of binding points:

-Q1 /-Q2 /-Q3 /-S1 /-S2 /-S3 /-Pe1

CHANGES						Head of department:	Dr. Boss		The interpretation of concepts in OmegaCAD ELEKTRO system			Example-Plan Ltd. H -1164 Budapest Takács str. 4. E-mail:info@omegasoft.hu  Example-Plan Ltd.	
						Leader designer:	Leslie Hegyaljai						
						Designer:	Omega-Soft Kft.		Theme: ? ? ? =M01 +S1 Engine operating Szekunder szekrény				
						Controller:	Example Controller						
						Editor:	OmegaCAD ELEKTRO						
						Date:	2009.09.04.						
						Scale:	M=1:1		All sheet: 6		Sheetnumber: 1.	Plan number/Change:	
						Sheet size:	A3 420x297mm					MINTA S S 351	
	Sign	Date	Designer	Manager	Controller	Change contents	Printing date:	2015.2.18.	9h 16' 31".	Plan code: MINTA			

The interpretation of concepts in OmegaCAD ELEKTRO system

Date: 2009.09.04.



**Example-Plan
Ltd.**

Plan code: **MINTA**

Sheet:
2
6

Cable number:	M82E0001
Cable number:	1.
Bind fitting place	+S1
End fitting place	=J82+S11
Brake:	A
Type:	SZRMtKVM-J
Wire number:	7
Construction:	7 x 2.5
Note:	New cable
Erőátvitel	
Wire number: Bind point (Plan sign :Connection)	Wire number: Bind point (Plan sign :Connection)
1. -X1 :1 	5. -X1 :5 
2. -X1 :3 	6. -
3. -X1 :4 	7. -
4. -X1 :7 	

Cable number:	M82E0002
Cable number:	2.
Bind fitting place	+S1
End fitting place	+M
Brake:	A
Type:	SZRMtKVM-J
Wire number:	4
Construction:	4 x 2.5
Note:	New cable
Zsomp szivattyú megtáplálás	
Wire number: Bind point (Plan sign :Connection)	Wire number: Bind point (Plan sign :Connection)
1. -X1 :9 	3. -X1 :11 
2. -X1 :10 	4. -X1 :8 

Cables: / 1. / 2.

The interpretation of concepts in OmegaCAD ELEKTRO system Engine operating	Change:	 Example-Plan Ltd.	=M01 +S1	Plan number: MINTA S S 351	Sheet: 3 6
	Scale: M=1:1			Plan code: MINTA	
	Date: 2009.09.04.				

Bus wire:	Pe
Földelés	
(Plan sign :Connection)	
-Pe1	:Pe 1.5

Bus wires: /Pe

The interpretation of concepts
in OmegaCAD ELEKTRO system
Engine operating

Change:

Scale: M=1:1

Date: 2009.09.04.

Example-Plan Ltd.

 *Example-Plan Ltd.*

=M01
+S1

Plan number: MINTA S S 351

Plan code: MINTA

Sheet:
4
6

Wires inside fitting place:

1.	-Q1	:1	—	-X1	:1	1.5
2.	-Q1	:2	—	-Q2	:1	1.5
3.	-Q1	:3	—	-X1	:3	1.5
4.	-Q1	:4	—	-Q2	:3	1.5
5.	-Q1	:5	—	-X1	:4	1.5
6.	-Q1	:6	—	-Q2	:5	1.5
7.	-Q2	:A1	—	-S2	:4	1.5
8.	-Q2	:A2	—	-Q2	:13	1.5
9.	-Q2	:1	—	-Q3	:5	1.5
10.	-Q2	:2	—	-Q3	:2	1.5
11.	-Q2	:3	—	-Q3	:3	1.5
12.	-Q2	:4	—	-Q3	:4	1.5
13.	-Q2	:5	—	-Q3	:1	1.5
14.	-Q2	:6	—	-Q3	:6	1.5
15.	-Q2	:14	—	-Q3	:21	1.5
16.	-Q2	:21	—	-Q3	:14	1.5
17.	-Q2	:22	—	-X1	:6	1.5
18.	-Q3	:A1	—	-S3	:4	1.5
19.	-Q3	:A2	—	-Q3	:13	1.5
20.	-Q3	:2	—	-X1	:9	1.5
21.	-Q3	:4	—	-X1	:10	1.5
22.	-Q3	:6	—	-X1	:11	1.5
23.	-Q3	:22	—	-X1	:5	1.5
24.	-S1	:1	—	-X1	:2	1.5
25.	-S1	:2	—	-S2	:3	1.5
26.	-S2	:3	—	-S3	:3	1.5
27.	-Pe1	:Pe	—	Pe		1.5

Wires inside fitting place:

The interpretation of concepts
in OmegaCAD ELEKTRO system
Engine operating

Change:

Scale: M=1:1

Date: 2009.09.04.

Example-Plan Ltd.



=M01
+S1

Plan number: MINTA S S 351

Plan code: MINTA

Sheet:

5

6

Chaining of binding points:

Potential:	-Q1:2		
-Q1	:2		
-Q2	:1		
-Q3	:5		

Potential:	-Q1:4		
-Q1	:4		
-Q2	:3		
-Q3	:3		

Potential:	-Q1:6		
-Q1	:6		
-Q2	:5		
-Q3	:1		

Potential:	-Q2:2		
-Q2	:2		
-Q3	:2		
		-X1	:9

Potential:	-Q2:4		
-Q2	:4		
-Q3	:4		
		-X1	:10

Potential:	-Q2:6		
-Q2	:6		
-Q3	:6		
		-X1	:11

Potential:	-S1:2		
-S1	:2		
-S2	:3		
-S3	:3		

Chaining of binding points:

The interpretation of concepts in OmegaCAD ELEKTRO system Engine operating	Change:		 Example-Plan Ltd. <i>Example-Plan Ltd.</i>	=M01 +S1	Plan number: MINTA S S 351	Sheet: 6 6
	Scale: M=1:1				Plan code: MINTA	
	Date: 2009.09.04.					