

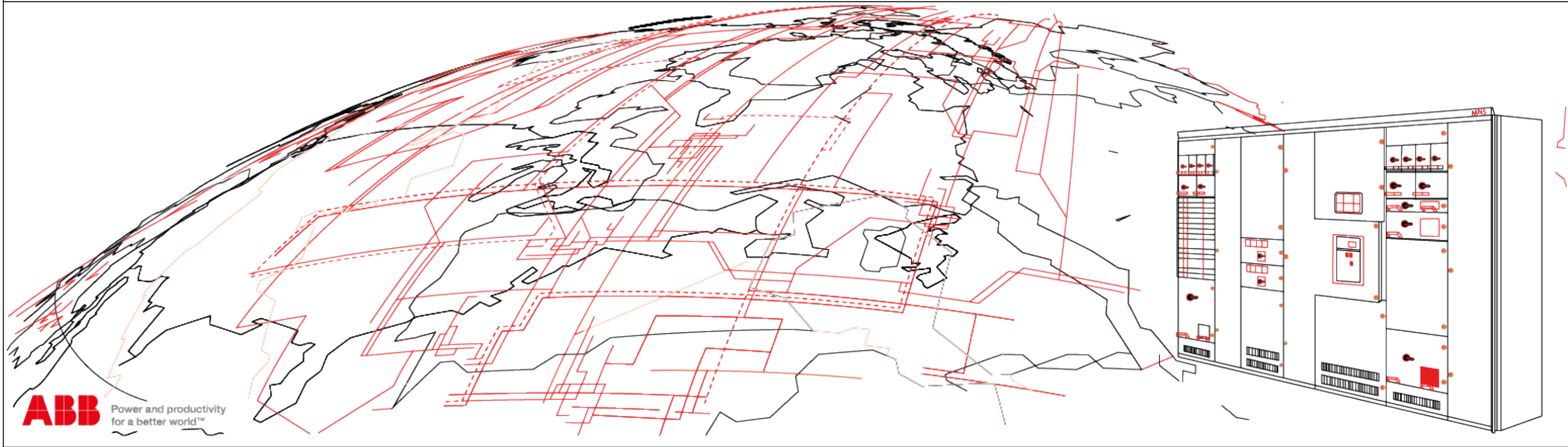


Elektrik Sanayi A.Ş.

Low Voltage Systems

Customer : RMG COPPER JSC
Contract Number : -
Project Description : OPP-20-4343531_RMG COPPER MADNEULI UPGRADE PROJECT
Switchgear Name : CONTROL TYPICAL DIAGRAM

APPROVED
2021-8-30



Phone:(+90) 262 326 1500
Fax: (+90) 262 724 9058

Dilovasi OSB 4.Kısım D-4009 No:11
Dilovasi / Kocaeli / TURKEY

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For Approval ☐ Approved For Construction ☒
As Tested ☐ As Build ☐

Supplier
ABB

ELEKTRİK SAN. A.Ş.

Customer
RMG COPPER JSC



End User
RMG COPPER JSC



Project
OPP-20-4343531_RMG COPPER MADNEULI
UPGRADE PROJECT

Title
LV SWITCHGEAR CIRCUIT DIAGRAM

Cover Sheet

Drawing No.
4TRD021010C9000

Project No.
K21010

+DOCUMENTS
PAGE No. 1

CONT. 2

REV.

03 01.08.2021 Last Revision Date
R0V0 31.05.2021 Creation Date
Rev. Date Description SIGN

SCALE
1

DESIGNED BY : VINEETHA
CHECKED BY : O.YILMAZ
APPROVED BY : O.YILMAZ

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PM : Plugin module

For Approval <input type="checkbox"/> Approved For Construction <input checked="" type="checkbox"/> As Tested <input type="checkbox"/> As Build <input type="checkbox"/>				Supplier ABB ELEKTRİK SAN. A.Ş.		Customer RMG COPPER JSC		End User RMG COPPER JSC		Project OPP-20-4343531_RMG COPPER MADNEULI UPGRADE PROJECT		Title LV SWITCHGEAR CIRCUIT DIAGRAM		Drawing No. 4TRD021010C9000		+DOCUMENTS		SIZE A3	
03	02.06.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA			Designation of zones	Project No. K21010	PAGE No.	2								
ROV0	31.05.2021	Creation Date			CHECKED BY : O.YILMAZ					CONT.	3		REV.						
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ														

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A

General Notes

* All power cable (for main circuit) shall be in black color while at both ends following colored heat shrinkable tube shall be provided for easy identification
L1:Brown , L2:Black , L3: Gray ,N:Blue

*All internal wiring cross section will be 1,5mm2 and Color will be BLACK unless otherwise specified in schematic

*All interconnection wiring cross section will be 2,5mm2 and Color will be BLACK unless otherwise specified in schematic.

*All wire will be marked from both end side with yellow Slip on type (closed type) PVC V0 material.

B

C

D

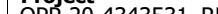


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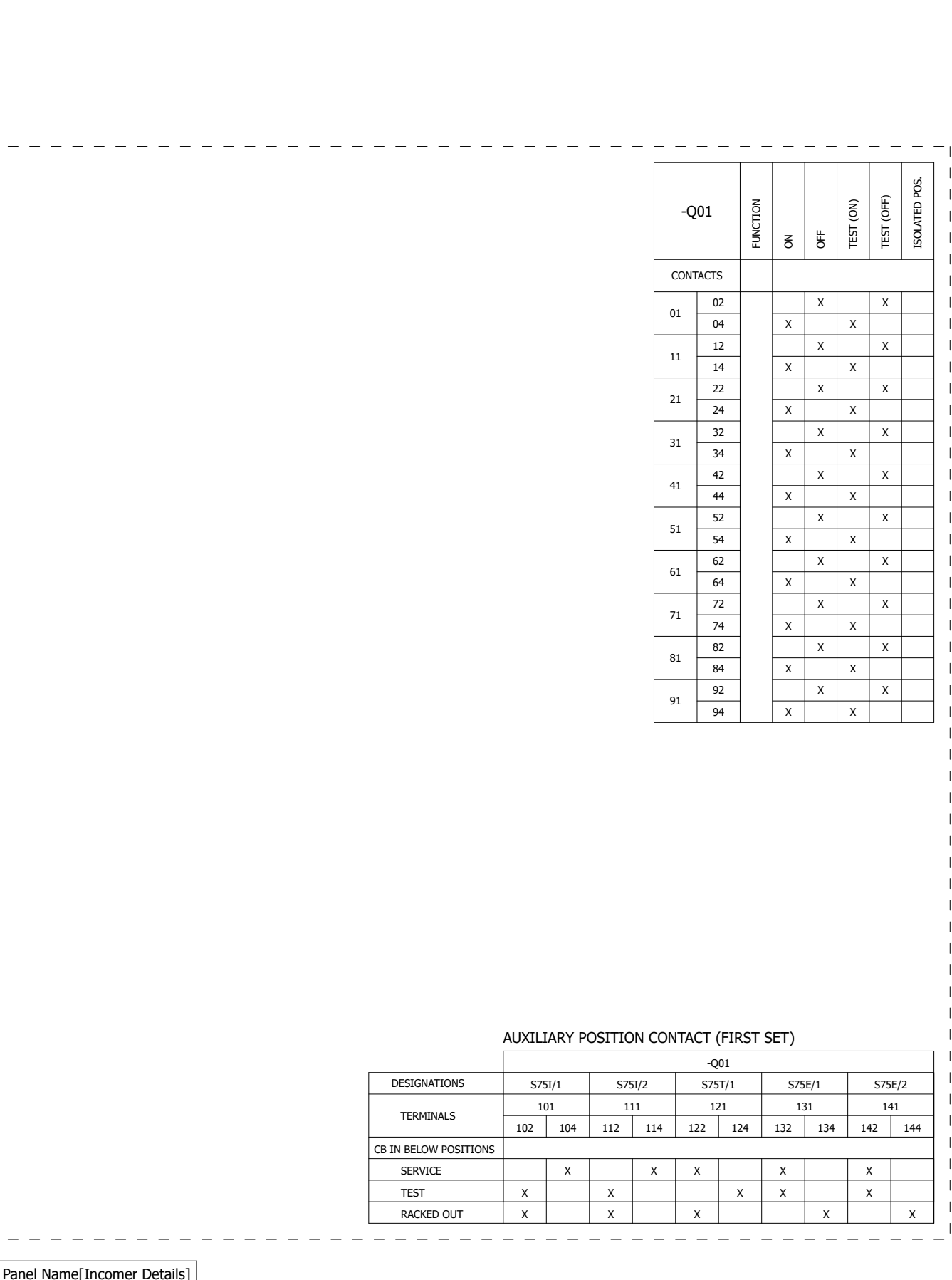
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 End User RMG COPPER JSC RMG RICH METALS GROUP | |

 Project OPP-20-4343531_RMG COPPER MADNEULI UPGRADE PROJECT | | Title LV SWITCHGEAR CIRCUIT DIAGRAM General Notes | | Drawing No. 4TRD021010C9000 Project No. K21010 | | +DOCUMENTS PAGE No. 3 CONT. 4 | | SIZE A3 REV. | || 03 | 02.06.2021 | Last Revision Date | | SCALE | 1 | DESIGNED BY : VINEETHA | | | | | | | | | | | |
| ROV0 | 31.05.2021 | Creation Date | | CHECKED BY : O.YILMAZ | | | | | | | | | | | |
| Rev. | Date | Description | SIGN | APPROVED BY : O.YILMAZ | | | | | | | | | | | |

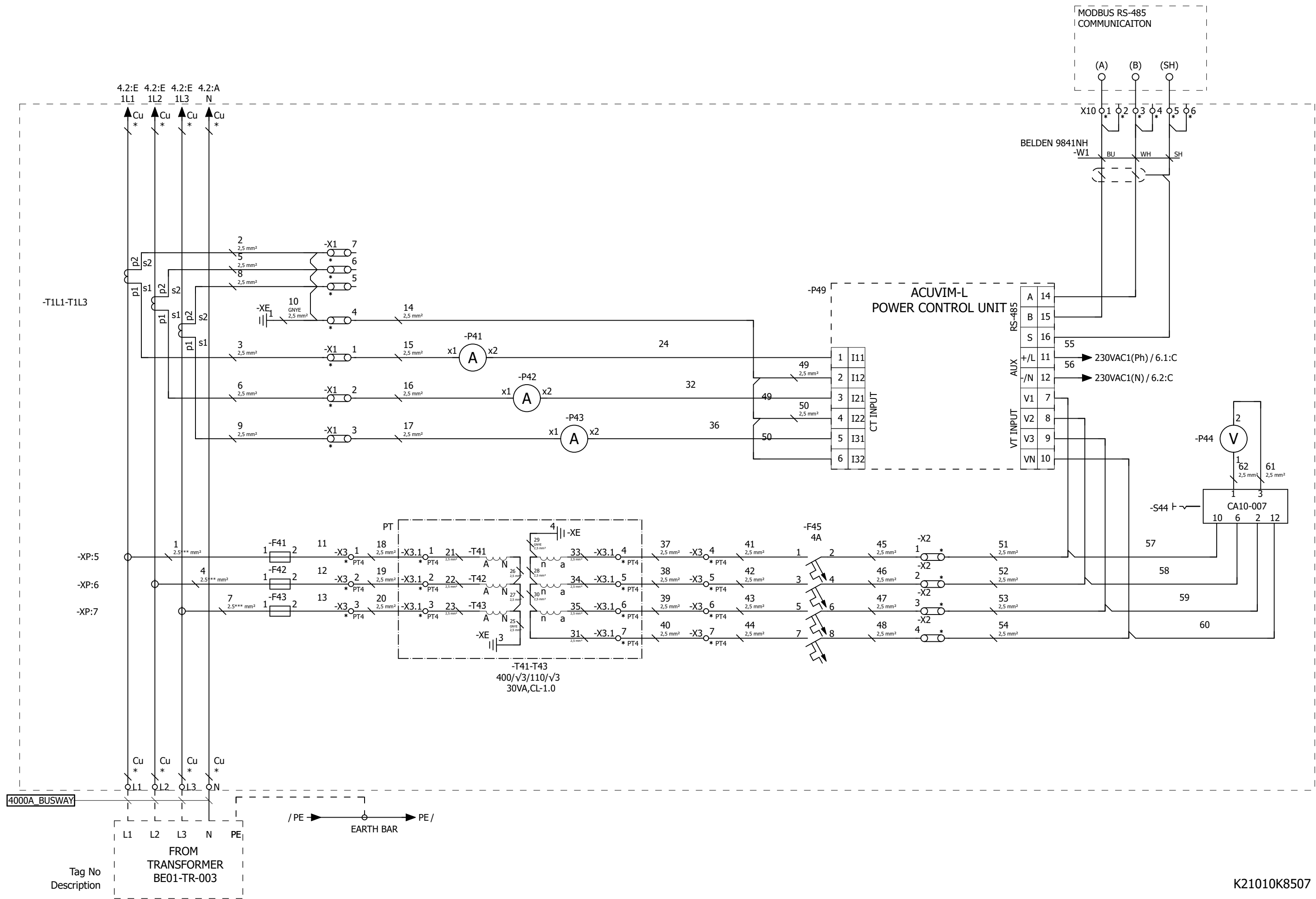
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03	02.06.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA				Project No. K21010		General Notes						PAGE No. 3				REV.		
ROVO	31.05.2021	Creation Date			CHECKED BY : O.YILMAZ																		
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ																		







AUXILIARY POSITION CONTACT (FIRST SET)										
	-Q01									
DESIGNATIONS	S751/1		S751/2		S75T/1		S75E/1		S75E/2	
TERMINALS	101		111		121		131		141	
	102	104	112	114	122	124	132	134	142	144
CB IN BELOW POSITIONS										
SERVICE		X		X	X		X		X	
TEST	X		X			X	X		X	
RACKED OUT	X		X		X			X		X

K21010K8507

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03		26.08.2021		Last Revision Date		SCALE		DESIGNED BY : VINEETHA						PAGE No.		5					
R0V0		31.05.2021		Creation Date		1		CHECKED BY : O.YILMAZ								CONT.		6		REV.	
Rev.		Date		Description		SIGN		APPROVED BY : O.YILMAZ													

Tag No
Description

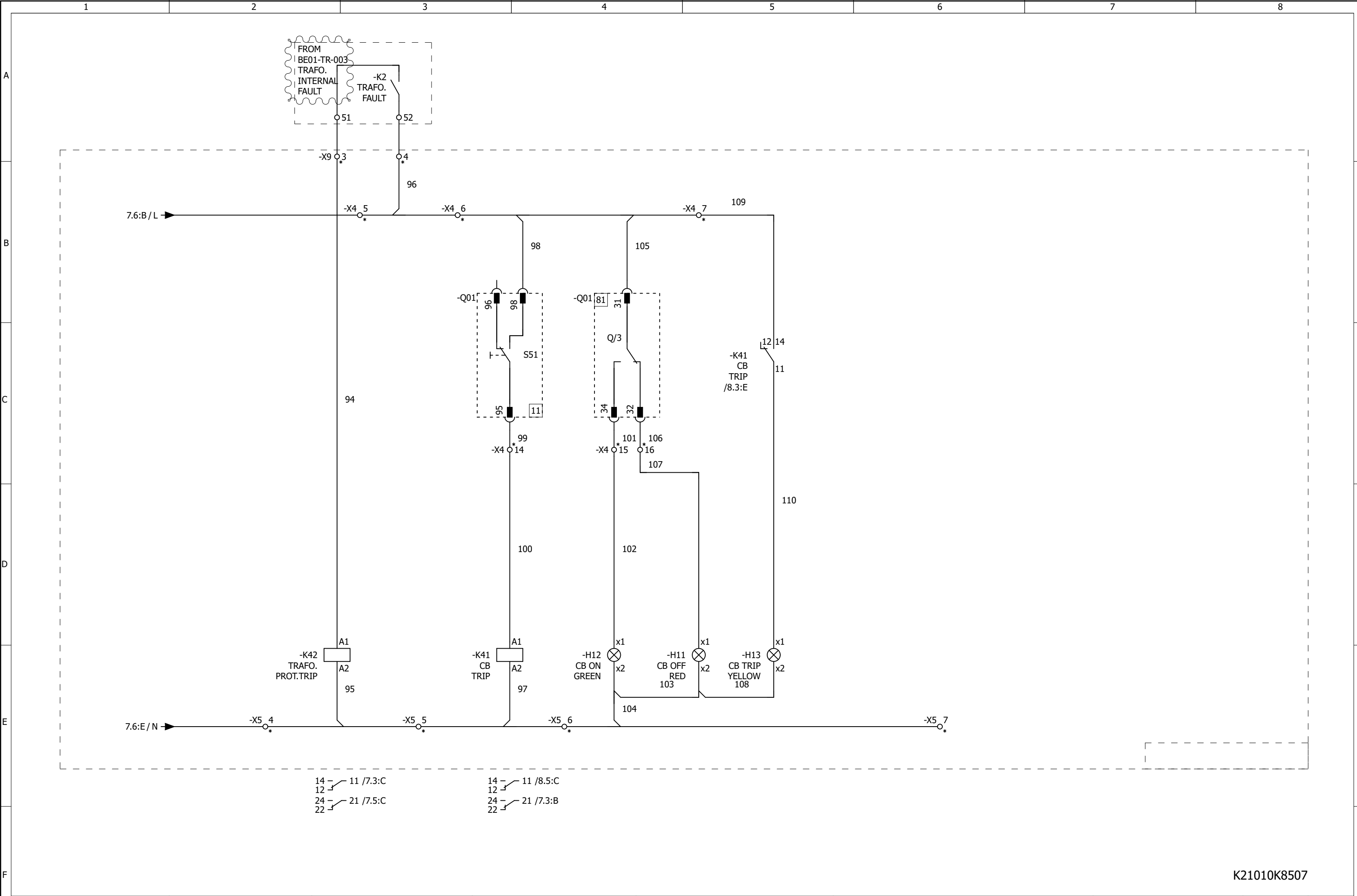
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TRANSFORMER
BE01-TR-003

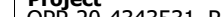


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03	30.07.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA			INCOMER_E6.2H_Ekip DIP_LSIG_4P_4000A		K21010		PAGE No.		6							
ROV0	31.05.2021	Creation Date			CHECKED BY : O.YILMAZ							CONT.		7		REV.					
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ																

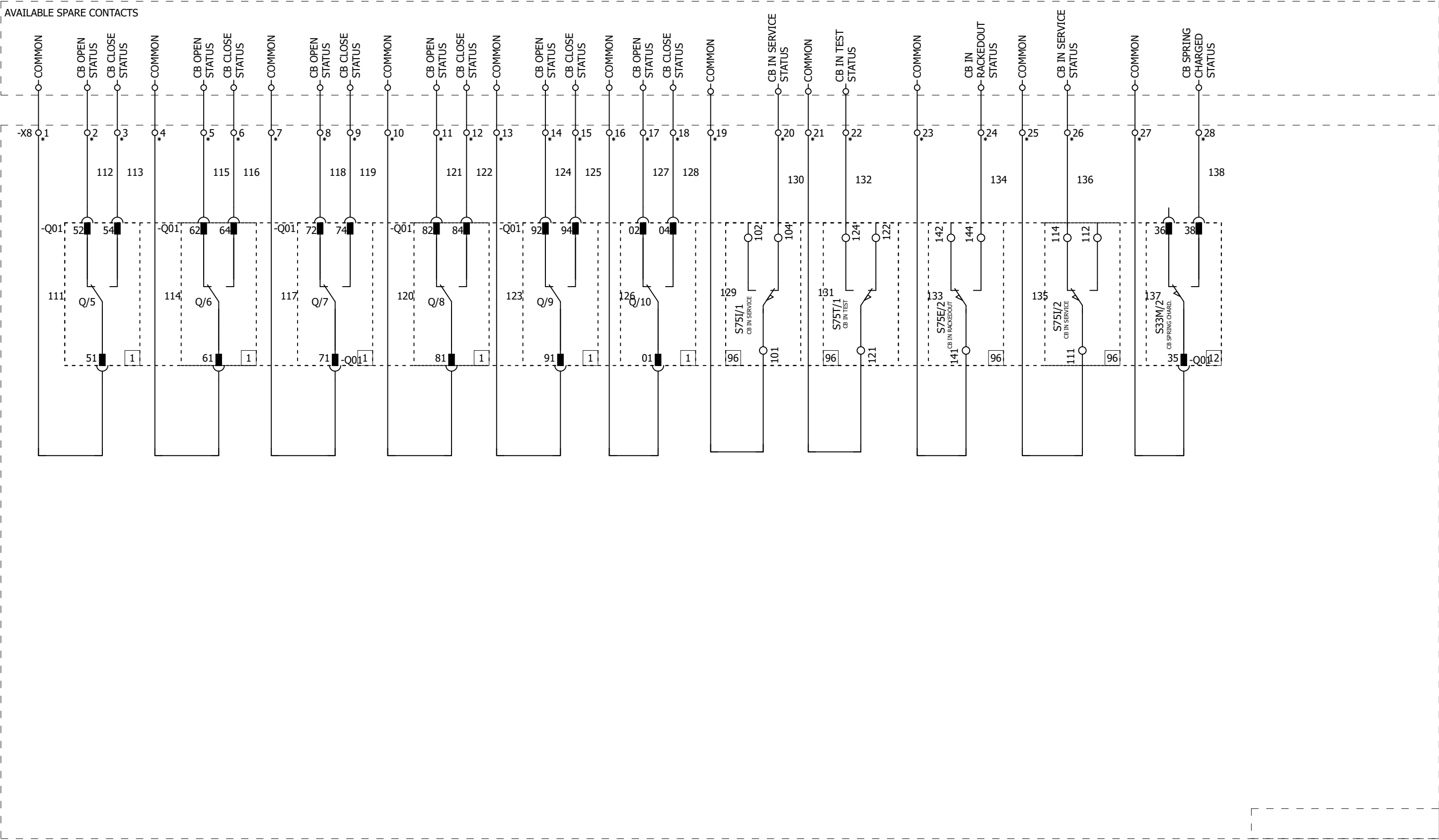


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03		26.08.2021		Last Revision Date				SCALE 1		DESIGNED BY : VINEETHA										INCOMER_E6.2H_Ekip DIP_LSIG_4P_4000A				Project No. K21010				PAGE No.		8																																	
R0V0		31.05.2021		Creation Date						CHECKED BY : O.YILMAZ																		CONT.		9				REV.																													
Rev.		Date		Description		SIGN				APPROVED BY : O.YILMAZ																																																					
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As Tested <input type="checkbox"/>		As Build <input type="checkbox"/>	
03	30.07.2021	Last Revision Date	
ROV0	31.05.2021	Creation Date	
Rev.	Date	Description	SIGN

Supplier ABB ELEKTRİK SAN. A.Ş.	
SCALE 1	DESIGNED BY : VINEETHA
	CHECKED BY : O.YILMAZ
	APPROVED BY : O.YILMAZ

Customer RMG COPPER JSC	
	

End User RMG COPPER JSC	
	

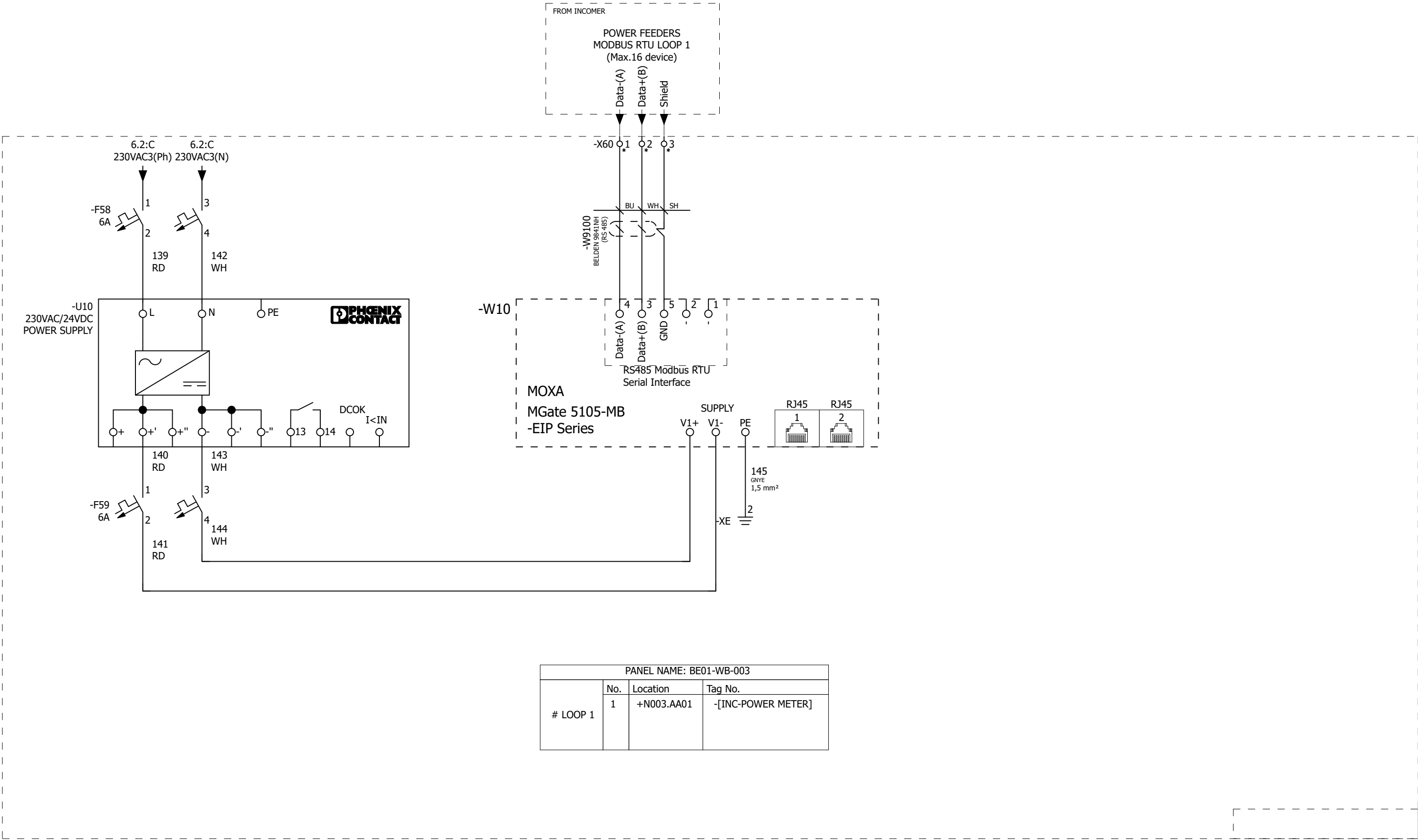
Project OPP-20-4343531_RMG COPPER MADNEULI UPGRADE PROJECT	
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Title LV SWITCHGEAR CIRCUIT DIAGRAM	
INCOMER_E6.2H_Ekip DIP_LSIG_4P_4000A	

Drawing No. 4TRD021010C9000	
Project No. K21010	

+8507	SIZE A3
PAGE No. 9	REV.
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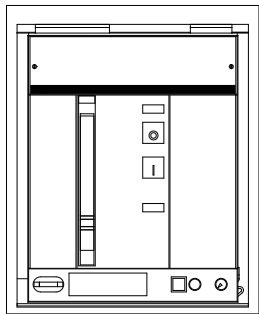
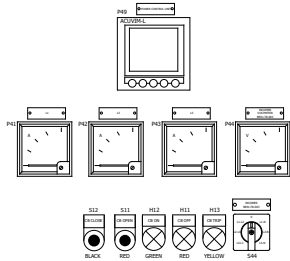
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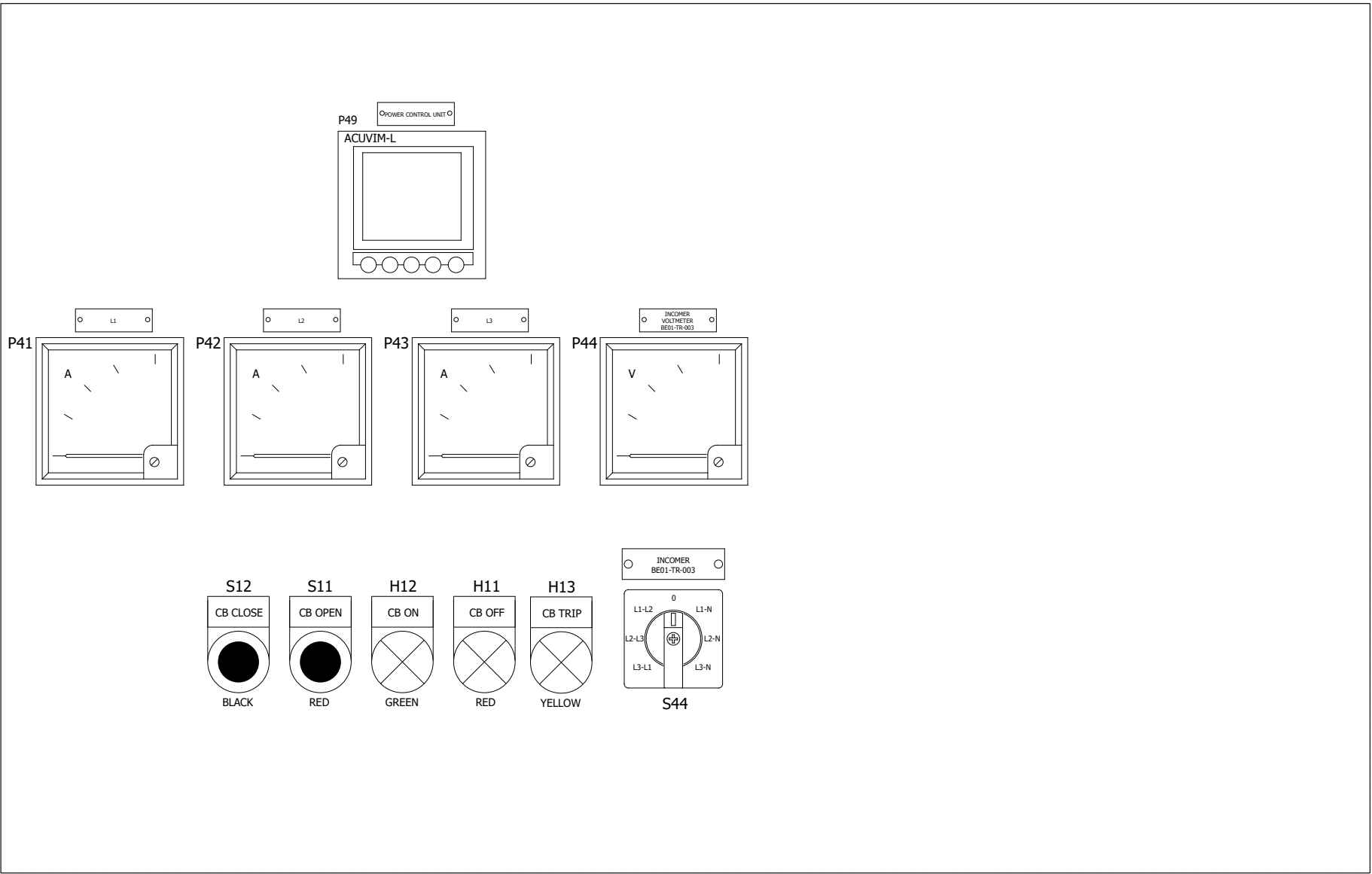
LINE NO:






Rated Operational Current
at IP41_4000A



1200 mm



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For Approval <input type="checkbox"/> As Tested <input type="checkbox"/>				Approved For Construction <input checked="" type="checkbox"/> As Build <input type="checkbox"/>				Supplier ABB ELEKTRİK SAN. A.Ş.		Customer RMG COPPER JSC		End User RMG COPPER JSC		Project OPP-20-4343531_RMG COPPER MADNEULI UPGRADE PROJECT		Title LV SWITCHGEAR CIRCUIT DIAGRAM INCOMER_E6.2H_Ekip DIP_LSIG_4P_4000A		Drawing No. 4TRD021010C9000		+8507	SIZE A3
03	30.07.2021	Last Revision Date		SCALE 10	DESIGNED BY : VINEETHA													Project No. K21010	PAGE No.	11	
ROV0	31.05.2021	Creation Date			CHECKED BY : O.YILMAZ														CONT.	12	
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ																

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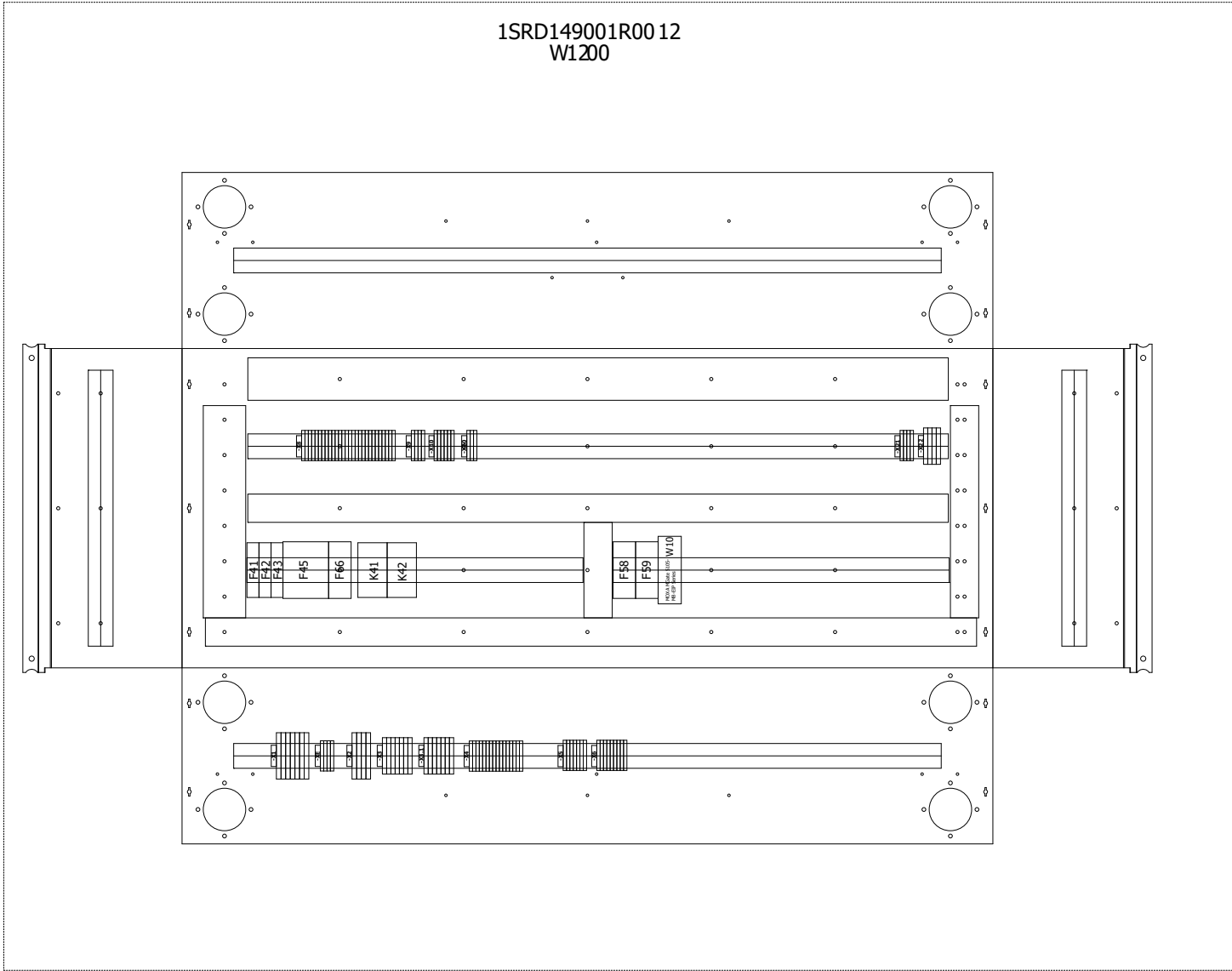
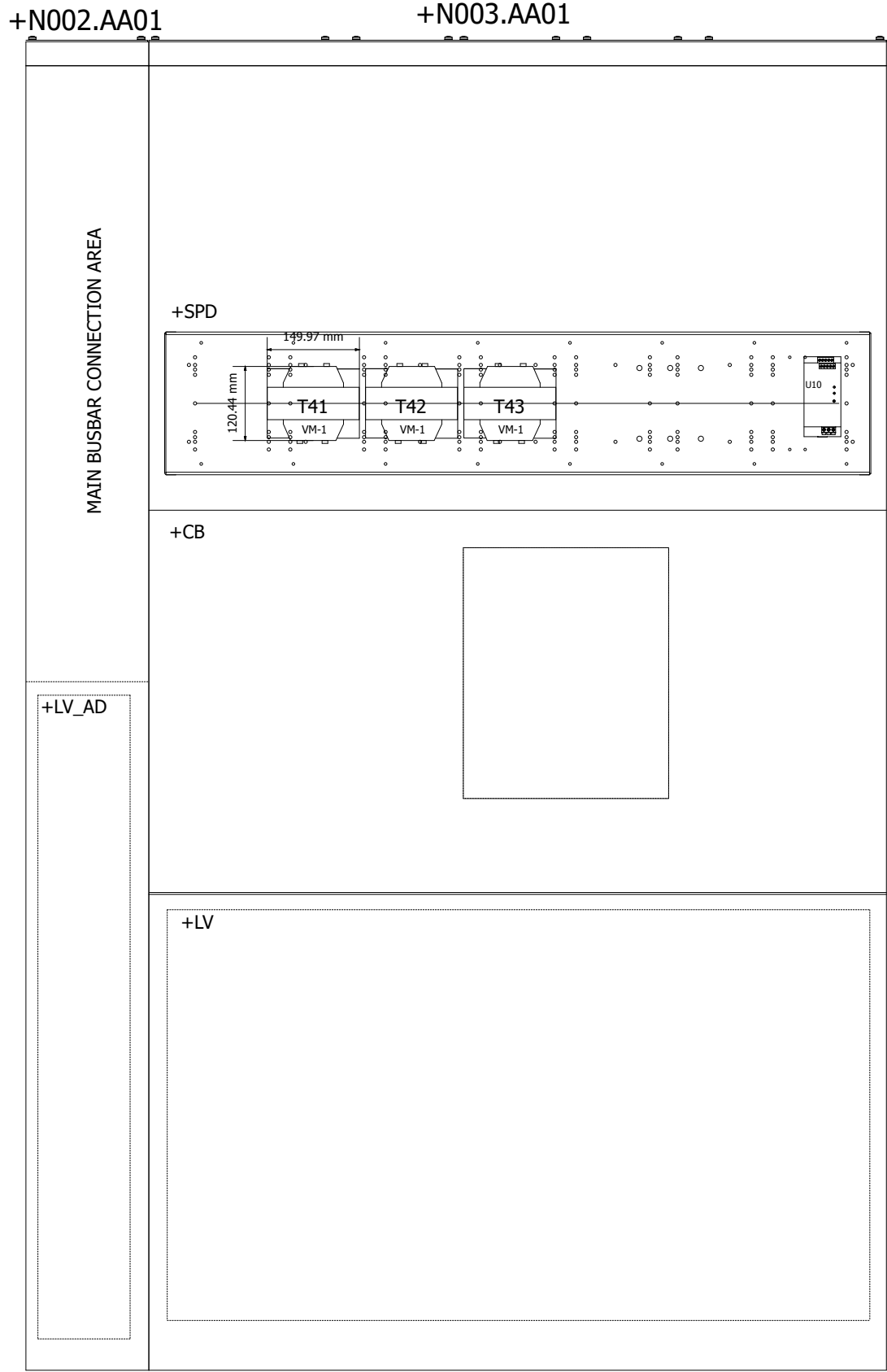
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
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INSIDE VIEW

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03	02.08.2021	Last Revision Date		SCALE 10	DESIGNED BY : VINEETHA															PAGE No.	12	
ROVO	31.05.2021	Creation Date			CHECKED BY : O.YILMAZ															CONT.	13	REV.
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ																	
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Module Wire List

Nr.	FROM			TO			WIRE				
	Location	Side	Connection point	Connection point	Side	Location	Cross-section	Color	Wire Number	Lenght	Function Definition
1	LV		-P49:16	-X10:5	X		W1**	SH			
2	LV		-P49:15	-X10:1	X		W1 **	BU			
3	LV		-P49:14	-X10:3	X		W1 **	WH			
4	PM		-W10:5	-X60:3	X		W9100**	SH			
5	PM		-W10:4	-X60:1	X		W9100**	BU			
6	PM		-W10:3	-X60:2	X		W9100**	WH			
7	LV		-F41:1	-XP:5			2.5***	BK	1		
8	CT		-T1L1:s2	-X1:7	X		2,5	BK	2		
9	CT		-T1L1:s1	-X1:1	X		2,5	BK	3		
10	LV		-F42:1	-XP:6			2.5***	BK	4		
11	CT		-T1L2:s2	-X1:6	X		2,5	BK	5		
12	CT		-T1L2:s1	-X1:2	X		2,5	BK	6		
13	LV		-F43:1	-XP:7			2.5***	BK	7		
14	CT		-T1L3:s2	-X1:5	X		2,5	BK	8		
15	CT		-T1L3:s1	-X1:3	X		2,5	BK	9		
16		X	-X1:4	-XE:1			2,5	GNYE	10		
17	LV		-F41:2	-X3:1	X		1,5	BK	11		
18	LV		-F42:2	-X3:2	X		1,5	BK	12		
19	LV		-F43:2	-X3:3	X		1,5	BK	13		
20	LV		-P49:2	-X1:4			2,5	BK	14		
21			-P41:x1	-X1:1			2,5	BK	15		
22			-P42:x1	-X1:2			2,5	BK	16		
23			-P43:x1	-X1:3			2,5	BK	17		
24			-X3:1	-X3.1:1	X		2,5	BK	18		
25			-X3:2	-X3.1:2	X		2,5	BK	19		
26			-X3:3	-X3.1:3	X		2,5	BK	20		
27	SPD		-T41:A	-X3.1:1			2,5	BK	21		
28	SPD		-T42:A	-X3.1:2			2,5	BK	22		
29	SPD		-T43:A	-X3.1:3			2,5	BK	23		
30			-P41:x2	-P49:1		LV	1,5	BK	24		
31	SPD		-T43:N	-XE:3		SPD	2,5	GNYE	25		
32	SPD		-T41:N	-T42:N		SPD	2,5	BK	26		
33	SPD		-T42:N	-T43:N		SPD	2,5	BK	27		
34	SPD		-T41:n	-T42:n		SPD	2,5	BK	28		
35	SPD		-T41:n	-XE:4		SPD	2,5	GNYE	29		
36	SPD		-T42:n	-T43:n		SPD	2,5	BK	30		
37	SPD		-T43:n	-X3.1:7			2,5	BK	31		
38			-P42:x2	-P49:3		LV	1,5	BK	32		

* According to Engineering Guideline ** Shielded Cable (BELDEN 9841NH) *** Silicone insulated




<div>For Approval <input type="checkbox"/> As Tested <input type="checkbox"/></div> <div>Approved For Construction <input checked="" type="checkbox"/> As Build <input type="checkbox"/></div>				<div>Supplier</div> <div> ELEKTRİK SAN. A.Ş.</div> <div>DESIGNED BY : VINEETHA</div> <div>CHECKED BY : O.YILMAZ</div> <div>APPROVED BY : O.YILMAZ</div>		<div>Customer</div> <div>RMG COPPER JSC</div> <div></div>		<div>End User</div> <div>RMG COPPER JSC</div> <div></div>		<div>Project</div> <div>OPP-20-4343531_RMG COPPER MADNEULI UPGRADE PROJECT</div>		<div>Title</div> <div>Module Wire Connection List</div>		<div>Drawing No.</div> <div>4TRD021010C9000</div>		<div>+8507</div>		<div>SIZE</div> <div>A3</div>	
<div>03 26.08.2021 Last Revision Date</div> <div>Rev. 31.05.2021 Creation Date</div> <div>Date Description SIGN</div>				<div>SCALE</div> <div>1</div>								<div>Project No.</div> <div>K21010</div>		<div>PAGE No.</div> <div>13</div>		<div>REV.</div> <div>14</div>			
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Module Wire List

Nr.	FROM			TO			WIRE				
	Location	Side	Connection point	Connection point	Side	Location	Cross-section	Color	Wire Number	Lenght	Function Definition
39	SPD		-T41:a	-X3.1:4			2,5	BK	33		
40	SPD		-T42:a	-X3.1:5			2,5	BK	34		
41	SPD		-T43:a	-X3.1:6			2,5	BK	35		
42			-P43:x2	-P49:5		LV	1,5	BK	36		
43			-X3:4	-X3.1:4	X		2,5	BK	37		
44			-X3:5	-X3.1:5	X		2,5	BK	38		
45			-X3:6	-X3.1:6	X		2,5	BK	39		
46			-X3:7	-X3.1:7	X		2,5	BK	40		
47	LV		-F45:1	-X3:4	X		2,5	BK	41		
48	LV		-F45:3	-X3:5	X		2,5	BK	42		
49	LV		-F45:5	-X3:6	X		2,5	BK	43		
50	LV		-F45:7	-X3:7	X		2,5	BK	44		
51	LV		-F45:2	-X2:1			2,5	BK	45		
52	LV		-F45:4	-X2:2			2,5	BK	46		
53	LV		-F45:6	-X2:3			2,5	BK	47		
54	LV		-F45:8	-X2:4			2,5	BK	48		
55	LV		-P49:2	-P49:4		LV	2,5	BK	49		
56	LV		-P49:4	-P49:6		LV	2,5	BK	50		
57	LV		-P49:7	-X2:1	X		2,5	BK	51		
58	LV		-P49:8	-X2:2	X		2,5	BK	52		
59	LV		-P49:9	-X2:3	X		2,5	BK	53		
60	LV		-P49:10	-X2:4	X		2,5	BK	54		
61	LV		-P49:11	-X6:1	X		1,5	BK	55		
62	LV		-P49:12	-X6:5	X		1,5	BK	56		
63	LV		-P49:7	-S44:10		LVD	1,5	BK	57		
64	LV		-P49:8	-S44:6		LVD	1,5	BK	58		
65	LV		-P49:9	-S44:2		LVD	1,5	BK	59		
66	LV		-P49:10	-S44:12		LVD	1,5	BK	60		
67	LVD		-P44:2	-S44:3		LVD	2,5	BK	61		
68	LVD		-P44:1	-S44:1		LVD	2,5	BK	62		
69			-X4:1	-X6:2	X		1,5	BK	63		
70	LV		-F58:1	-X6:3	X		1,5	BK	64		
71	LV		-F66:1	-X21:1	X		1,5	BK	65		
72	LV		-F66:2	-X6:4			1,5	BK	66		
73	LV		-F66:2	-X22:1	X		1,5	BK	67		
74	LV		-F66:3	-X21:3	X		1,5	BK	68		
75	LV		-F66:4	-X6:5			1,5	BK	69		
76	LV		-F66:4	-X22:3	X		1,5	BK	70		

* According to Engineering Guideline ** Shielded Cable (BELDEN 9841NH) *** Silicone insulated



<div>For Approval <input type="checkbox"/> As Tested <input type="checkbox"/></div> <div>03 ROVO Rev.</div>				<div>Approved For Construction <input checked="" type="checkbox"/> As Build <input type="checkbox"/></div> <div>01.08.2021 31.05.2021 Date</div>				<div>Supplier</div> <div>ABB ELEKTRİK SAN. A.Ş.</div> <div>DESIGNED BY : VINEETHA</div> <div>CHECKED BY : O.YILMAZ</div> <div>APPROVED BY : O.YILMAZ</div>				<div>Customer</div> <div>RMG COPPER JSC</div> <div></div>				<div>End User</div> <div>RMG COPPER JSC</div> <div></div>				<div>Project</div> <div>OPP-20-4343531_RMG COPPER MADNEULI UPGRADE PROJECT</div>				<div>Title</div> <div>Module Wire Connection List</div>				<div>Drawing No.</div> <div>4TRD021010C9000</div> <div>Project No.</div> <div>K21010</div>				<div>+8507</div> <div>PAGE No. 14</div> <div>CONT. 15</div>		<div>SIZE A3</div> <div></div> <div>REV.</div>	
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Module Wire List

Nr.	FROM			TO			WIRE				
	Location	Side	Connection point	Connection point	Side	Location	Cross-section	Color	Wire Number	Lenght	Function Definition
77			-X5:1	-X6:6	X		1,5	BK	71		
78	LV		-F58:3	-X6:7	X		1,5	BK	72		
79	CB		-Q01:U1	-X4:1	X		1,5	BK	73		
80	CB		-Q01:U2	-X5:1	X		1,5	BK	74		
81	CB		-Q01:C2	-X5:2	X		1,5	BK	75		
82	LV		-K41:24	-X4:2	X		1,5	BK	76		
83	CB		-Q01:C1	-X4:8			1,5	BK	77		
84	CB		-Q01:21	-X4:8	X		1,5	BK	78		
85	LV		-K41:21	-K42:12		LV	1,5	BK	79		
86	LV		-K42:11	-S12:13		LVD	1,5	BK	80		
87	LVD		-S12:14	-X4:9	X		1,5	BK	81		
88	CB		-Q01:22	-X4:9			1,5	BK	82		
89	CB		-Q01:24	-X4:10			1,5	BK	83		
90	CB		-Q01:C11	-X4:11			1,5	BK	84		
91	CB		-Q01:C12	-X5:3			1,5	BK	85		
92	CB		-Q01:11	-X4:11	X		1,5	BK	86		
93	LVD		-S11:13	-X4:3			1,5	BK	87		
94	LVD		-S11:14	-X4:12	X		1,5	BK	88		
95	LV		-K42:21	-X4:12			1,5	BK	89		
96	CB		-Q01:14	-X4:13			1,5	BK	90		
97		X	-X4:3	-X9:1	X		1,5	BK	91		
98	LV		-K42:21	-X9:2	X		1,5	BK	92		
99	LV		-K42:24	-X4:4			1,5	BK	93		
100	LV		-K42:A1	-X9:3	X		1,5	BK	94		
101	LV		-K42:A2	-X5:5			1,5	BK	95		
102		X	-X4:5	-X9:4	X		1,5	BK	96		
103	LV		-K41:A2	-X5:5	X		1,5	BK	97		
104	CB		-Q01:98	-X4:6	X		1,5	BK	98		
105	CB		-Q01:95	-X4:14	X		1,5	BK	99		
106	LV		-K41:A1	-X4:14			1,5	BK	100		
107	CB		-Q01:34	-X4:15	X		1,5	BK	101		
108	LVD		-H12:x1	-X4:15			1,5	BK	102		
109	LVD		-H11:x2	-H12:x2		LVD	1,5	BK	103		
110	LVD		-H12:x2	-X5:7			1,5	BK	104		
111	CB		-Q01:31	-X4:7			1,5	BK	105		
112	CB		-Q01:32	-X4:16	X		1,5	BK	106		
113	LVD		-H11:x1	-X4:16			1,5	BK	107		
114	LVD		-H11:x2	-H13:x2		LVD	1,5	BK	108		

* According to Engineering Guideline ** Shielded Cable (BELDEN 9841NH) *** Silicone insulated



<div>For Approval <input type="checkbox"/> As Tested <input type="checkbox"/></div> <div>Approved For Construction <input checked="" type="checkbox"/> As Build <input type="checkbox"/></div>				<div>Supplier</div> <div>ABB ELEKTRİK SAN. A.Ş.</div> <div>DESIGNED BY : VINEETHA</div> <div>CHECKED BY : O.YILMAZ</div> <div>APPROVED BY : O.YILMAZ</div>		<div>Customer</div> <div>RMG COPPER JSC</div> <div></div>		<div>End User</div> <div>RMG COPPER JSC</div> <div></div>		<div>Project</div> <div>OPP-20-4343531_RMG COPPER MADNEULI UPGRADE PROJECT</div>		<div>Title</div> <div>Module Wire Connection List</div>		<div>Drawing No.</div> <div>4TRD021010C9000</div>		<div>+8507</div>		<div>SIZE</div> <div>A3</div>	
<div>03 01.08.2021 Last Revision Date</div> <div>Rev. 31.05.2021 Creation Date</div> <div>Date Description SIGN</div>				<div>SCALE</div> <div>1</div>								<div>Project No.</div> <div>K21010</div>		<div>PAGE No.</div> <div>15</div>		<div>REV.</div> <div>16</div>			
1				2		3		4		5		6		7		8			

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Module Wire List

Nr.	FROM			TO			WIRE				
	Location	Side	Connection point	Connection point	Side	Location	Cross-section	Color	Wire Number	Lenght	Function Definition
115	LV		-K41:14	-X4:7	X		1,5	BK	109		
116	LVD		-H13:x1	-K41:11		LV	1,5	BK	110		
117	CB		-Q01:51	-X8:1	X		1,5	BK	111		
118	CB		-Q01:52	-X8:2	X		1,5	BK	112		
119	CB		-Q01:54	-X8:3	X		1,5	BK	113		
120	CB		-Q01:61	-X8:4	X		1,5	BK	114		
121	CB		-Q01:62	-X8:5	X		1,5	BK	115		
122	CB		-Q01:64	-X8:6	X		1,5	BK	116		
123	CB		-Q01:71	-X8:7	X		1,5	BK	117		
124	CB		-Q01:72	-X8:8	X		1,5	BK	118		
125	CB		-Q01:74	-X8:9	X		1,5	BK	119		
126	CB		-Q01:81	-X8:10	X		1,5	BK	120		
127	CB		-Q01:82	-X8:11	X		1,5	BK	121		
128	CB		-Q01:84	-X8:12	X		1,5	BK	122		
129	CB		-Q01:91	-X8:13	X		1,5	BK	123		
130	CB		-Q01:92	-X8:14	X		1,5	BK	124		
131	CB		-Q01:94	-X8:15	X		1,5	BK	125		
132	CB		-Q01:01	-X8:16	X		1,5	BK	126		
133	CB		-Q01:02	-X8:17	X		1,5	BK	127		
134	CB		-Q01:04	-X8:18	X		1,5	BK	128		
135	CB		-Q01:101	-X8:19	X		1,5	BK	129		
136	CB		-Q01:104	-X8:20	X		1,5	BK	130		
137	CB		-Q01:121	-X8:21	X		1,5	BK	131		
138	CB		-Q01:124	-X8:22	X		1,5	BK	132		
139	CB		-Q01:141	-X8:23	X		1,5	BK	133		
140	CB		-Q01:144	-X8:24	X		1,5	BK	134		
141	CB		-Q01:111	-X8:25	X		1,5	BK	135		
142	CB		-Q01:114	-X8:26	X		1,5	BK	136		
143	CB		-Q01:35	-X8:27	X		1,5	BK	137		
144	CB		-Q01:38	-X8:28	X		1,5	BK	138		
145	LV		-F58:2	-U10:L			2,5	RD	139		
146	LV		-F59:1	-U10:+'			2,5	RD	140		
147	LV		-F59:2	-W10:V1-		PM	2,5	RD	141		
148	LV		-F58:4	-U10:N			2,5	WH	142		
149	LV		-F59:3	-U10:-			2,5	WH	143		
150	LV		-F59:4	-W10:V1+		PM	2,5	WH	144		
151	PM		-W10:PE	-XE:2		PM	1,5	GNYE	145		

* According to Engineering Guideline ** Shielded Cable (BELDEN 9841NH) *** Silicone insulated

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TERMINAL DIAGRAM

-X1

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ 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
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TERMINAL DIAGRAM

-X2

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	1	2	3	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
7	-P49	51 BK	•	1	•	45 BK	-F45	2	/5.6:D
8	-P49	52 BK	•	2	•	46 BK	-F45	4	/5.6:D
9	-P49	53 BK	•	3	•	47 BK	-F45	6	/5.6:D
10	-P49	54 BK	•	4	•	48 BK	-F45	8	/5.6:D

TOTAL TERMINALS COUNT: 4 PCS
TERMINAL TYPE: Test disconnect terminal block - URTK/S

For Approval <input type="checkbox"/> As Tested <input type="checkbox"/>				Approved For Construction <input checked="" type="checkbox"/> As Build <input type="checkbox"/>				Supplier ABB ELEKTRİK SAN. A.Ş.		Customer RMG COPPER JSC		End User RMG COPPER JSC		Project OPP-20-4343531_RMG COPPER MADNEULI UPGRADE PROJECT		Title Terminal Connection Diagram		Drawing No. 4TRD021010C9000		+8507	SIZE A3										
03	01.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA														PAGE No.	18											
ROVO	31.05.2021	Creation Date			CHECKED BY : O.YILMAZ														CONT.	19		REV.									
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ																										
1				2				3				4				5				6				7				8			

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TERMINAL DIAGRAM

-X3

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	1	2	3	4	5	6	7	8
2	-F41	11 BK	18 BK	1	1	-X3.1	1	-X3.1	1	/5.3:D	
2	-F42	12 BK	19 BK	2	2	-X3.1	2	-X3.1	2	/5.3:D	
2	-F43	13 BK	20 BK	3	3	-X3.1	3	-X3.1	3	/5.3:D	
1	-F45	41 BK	37 BK	4	4	-X3.1	4	-X3.1	4	/5.5:D	
3	-F45	42 BK	38 BK	5	5	-X3.1	5	-X3.1	5	/5.5:D	
5	-F45	43 BK	39 BK	6	6	-X3.1	6	-X3.1	6	/5.5:D	
7	-F45	44 BK	40 BK	7	7	-X3.1	7	-X3.1	7	/5.5:D	

TOTAL TERMINALS COUNT: 7 PCS
TERMINAL TYPE: Feed-through terminal block - PT 4

For Approval <input type="checkbox"/> As Tested <input type="checkbox"/>				Approved For Construction <input checked="" type="checkbox"/> As Build <input type="checkbox"/>				Supplier ABB ELEKTRİK SAN. A.Ş.		Customer RMG COPPER JSC		End User RMG COPPER JSC		Project OPP-20-4343531_RMG COPPER MADNEULI UPGRADE PROJECT		Title		Drawing No. 4TRD021010C9000		+8507		SIZE A3	
03	01.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA												Terminal Connection Diagram	Project No. K21010		PAGE No. 19			
ROVO	31.05.2021	Creation Date			CHECKED BY : O.YILMAZ													CONT. 20		REV.			
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ																		

TERMINAL DIAGRAM

-X3.1

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	1	2	3	4	5	6	7	DEVICE DESIGNATION	DEVICE PIN	PAGE
1	-X3	18 BK	19 BK	1	2	3	4	5	6	7	-T41	A	/5.3:D
2	-X3	20 BK	21 BK	1	2	3	4	5	6	7	-T42	A	/5.3:D
3	-X3	22 BK	23 BK	1	2	3	4	5	6	7	-T43	A	/5.3:D
4	-X3	24 BK	25 BK	1	2	3	4	5	6	7	-T41	a	/5.4:D
5	-X3	26 BK	27 BK	1	2	3	4	5	6	7	-T42	a	/5.4:D
6	-X3	28 BK	29 BK	1	2	3	4	5	6	7	-T43	a	/5.4:D
7	-X3	30 BK	31 BK	1	2	3	4	5	6	7	-T43	n	/5.4:D

TOTAL TERMINALS COUNT: 7 PCS
TERMINAL TYPE: Feed-through terminal block - PT 4

For Approval <input type="checkbox"/> Approved For Construction <input checked="" type="checkbox"/> As Tested <input type="checkbox"/> As Build <input type="checkbox"/>				Supplier ABB ELEKTRİK SAN. A.Ş.		Customer RMG COPPER JSC		End User RMG COPPER JSC		Project OPP-20-4343531_RMG COPPER MADNEULI UPGRADE PROJECT		Title Terminal Connection Diagram		Drawing No. 4TRD021010C9000		+8507 SIZE A3	
03	01.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA							Project No. K21010		PAGE No. 20			
ROV0	31.05.2021	Creation Date			CHECKED BY : O.YILMAZ									CONT. 21			REV.
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ												

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TERMINAL DIAGRAM

-X4

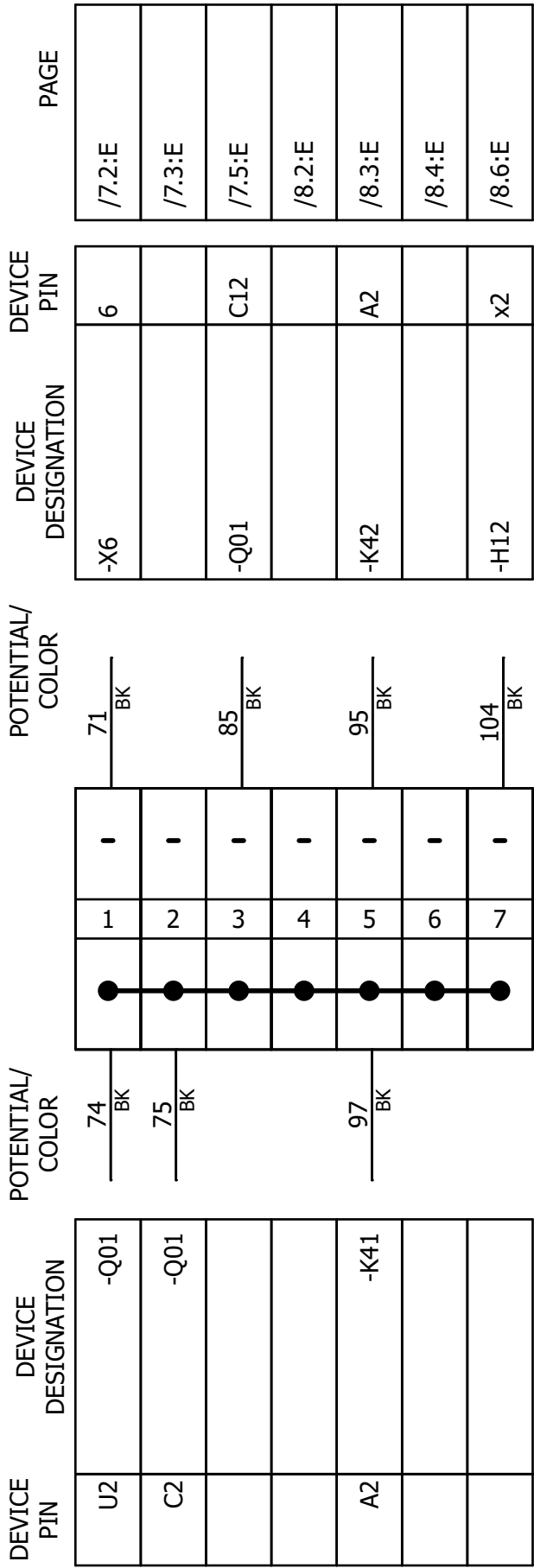
DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	1	2	3	4	5	6	7	8
U1	-Q01	73 BK	●	1	63 BK	●				
24	-K41	76 BK	●	2		●				
1	-X9	91 BK	●	3	87 BK	●				
			●	4	93 BK	●				
4	-X9	96 BK	●	5		●				
98	-Q01	98 BK	●	6		●				
14	-K41	109 BK	●	7	105 BK	●				
21	-Q01	78 BK	●	8	77 BK	●				
14	-S12	81 BK	●	9	82 BK	●				
			●	10	83 BK	●				
11	-Q01	86 BK	●	11	84 BK	●				
14	-S11	88 BK	●	12	89 BK	●	●			
			●	13	90 BK	●	●			
95	-Q01	99 BK	●	14	100 BK	●	●			
34	-Q01	101 BK	●	15	102 BK	●	●			
32	-Q01	106 BK	●	16	107 BK	●	●			

TOTAL TERMINALS COUNT: 16 PCS
TERMINAL TYPE: Feed-through terminal block - PT 2,5

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TERMINAL DIAGRAM

-X5

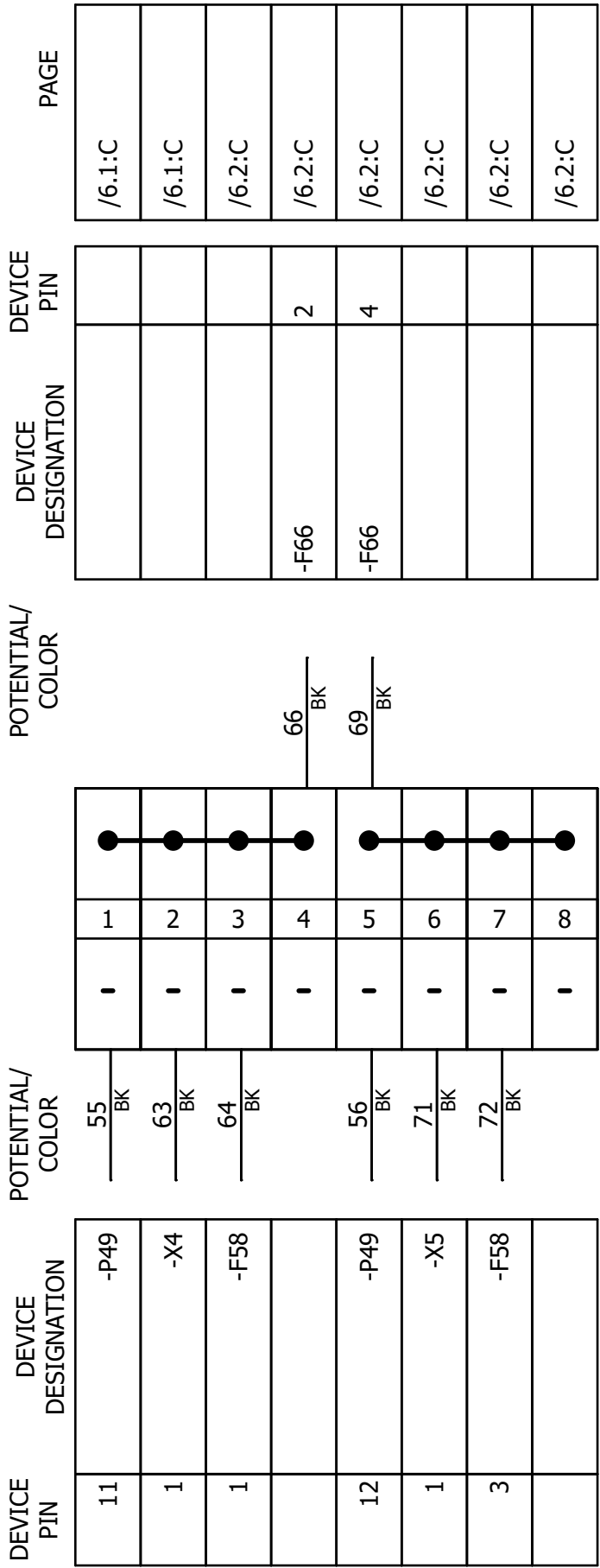


TOTAL TERMINALS COUNT: 7 PCS
TERMINAL TYPE: Feed-through terminal block - PT 2,5

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TERMINAL DIAGRAM



-X6





TOTAL TERMINALS COUNT: 8 PCS
TERMINAL TYPE: Feed-through terminal block - PT 2,5

8X1

TOTAL TERMINALS COUNT: 28 PCS
TERMINAL TYPE: Feed-through terminal block - PT 2,5

For Approval <input type="checkbox"/> Approved For Construction <input checked="" type="checkbox"/> As Tested <input type="checkbox"/> As Built <input type="checkbox"/>				Supplier ABB ELEKTRİK SAN. A.Ş.		Customer RMG COPPER JSC		End User RMG COPPER JSC		Project OPP-20-4343531_RMG COPPER MADNEULI UPGRADE PROJECT		Title Terminal Connection Diagram		Drawing No. 4TRD021010C9000		+8507 PAGE No. 24		SIZE A3	
03	01.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA							Project No. K21010		CONT. 25		REV.			
ROV0	31.05.2021	Creation Date			CHECKED BY : O.YILMAZ														
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ														

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1		2		3		4		5		6		7		8	
A		B		C		D		E		F		A		B	
TERMINAL DIAGRAM -X9		POTENTIAL/ COLOR		POTENTIAL/ COLOR		DEVICE DESIGNATION		POTENTIAL/ COLOR		DEVICE DESIGNATION		DEVICE DESIGNATION		DEVICE PIN	
		91 BK		1		-		-		-		-		-	
		94 BK		3		-K42		-		-		-		-	
		92 BK		2		-K42		-		-		-		-	
		96 BK		4		-X4		-		-		-		-	
F		TOTAL TERMINALS COUNT: 4 PCS		TERMINAL TYPE: Feed-through terminal block - PT 2,5											
For Approval <input type="checkbox"/> As Tested <input type="checkbox"/>		Approved For Construction <input checked="" type="checkbox"/> As Build <input type="checkbox"/>		Supplier ABB ELEKTRİK SAN. A.Ş.		Customer RMG COPPER JSC		End User RMG COPPER JSC		Project OPP-20-4343531_RMG COPPER MADNEULI UPGRADE PROJECT		Title Terminal Connection Diagram		Drawing No. 4TRD021010C9000	
03	01.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA CHECKED BY : O.YILMAZ APPROVED BY : O.YILMAZ									PAGE No. 25	
Rev.	Date	Creation Date												CONT. 26	
		Description	SIGN											REV.	
1		2		3		4		5		6		7		8	

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B

A

TERMINAL DIAGRAM
X10

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
15	-P49	 BU	 1			/5.7:A
			 2			/5.7:A
14	-P49	 WH	 3			/5.7:A
			 4			/5.7:A
16	-P49	 SH	 5			/5.7:A
			 6			/5.7:A

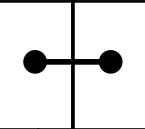
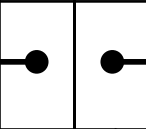
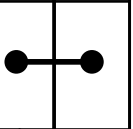
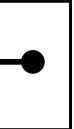
TOTAL TERMINALS COUNT: 6 PCS
TERMINAL TYPE: Feed-through terminal block - PT 2,5

For Approval <input type="checkbox"/> Approved For Construction <input checked="" type="checkbox"/> As Tested <input type="checkbox"/> As Build <input type="checkbox"/>				Supplier ABB ELEKTRİK SAN. A.Ş.		Customer RMG COPPER JSC		End User RMG COPPER JSC		Project OPP-20-4343531_RMG COPPER MADNEULI UPGRADE PROJECT		Title Terminal Connection Diagram		Drawing No. 4TRD021010C9000		+8507 SIZE A3	
03	26.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA							Project No. K21010		PAGE No. 26			
ROV0	31.05.2021	Creation Date			CHECKED BY : O.YILMAZ									CONT. 27			REV.
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ												

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TERMINAL DIAGRAM

-X21

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
1	-F66	65 BK		1		/6.2:A
				2		/6.2:A
3	-F66	68 BK		3		/6.2:A
				4		/6.2:A

TOTAL TERMINALS COUNT: 4 PCS
TERMINAL TYPE: Feed-through terminal block - PT 2,5




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TERMINAL DIAGRAM

-X22

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
2	-F66	67 BK	1 1			/6.3:A
			2 1			/6.3:A
4	-F66	70 BK	3 1			/6.3:A
			4 1			/6.4:A

TOTAL TERMINALS COUNT: 4 PCS
TERMINAL TYPE: Feed-through terminal block - PT 4

For Approval <input type="checkbox"/> As Tested <input type="checkbox"/>				Approved For Construction <input checked="" type="checkbox"/> As Build <input type="checkbox"/>				Supplier ABB ELEKTRİK SAN. A.Ş.		Customer RMG COPPER JSC		End User RMG COPPER JSC		Project OPP-20-4343531_RMG COPPER MADNEULI UPGRADE PROJECT		Title		Drawing No. 4TRD021010C9000		+8507	SIZE A3
03	01.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA											Terminal Connection Diagram	Project No. K21010		PAGE No.	28	
ROVO	31.05.2021	Creation Date			CHECKED BY : O.YILMAZ												CONT.	29	REV.		
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ																

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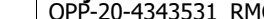


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TERMINAL DIAGRAM

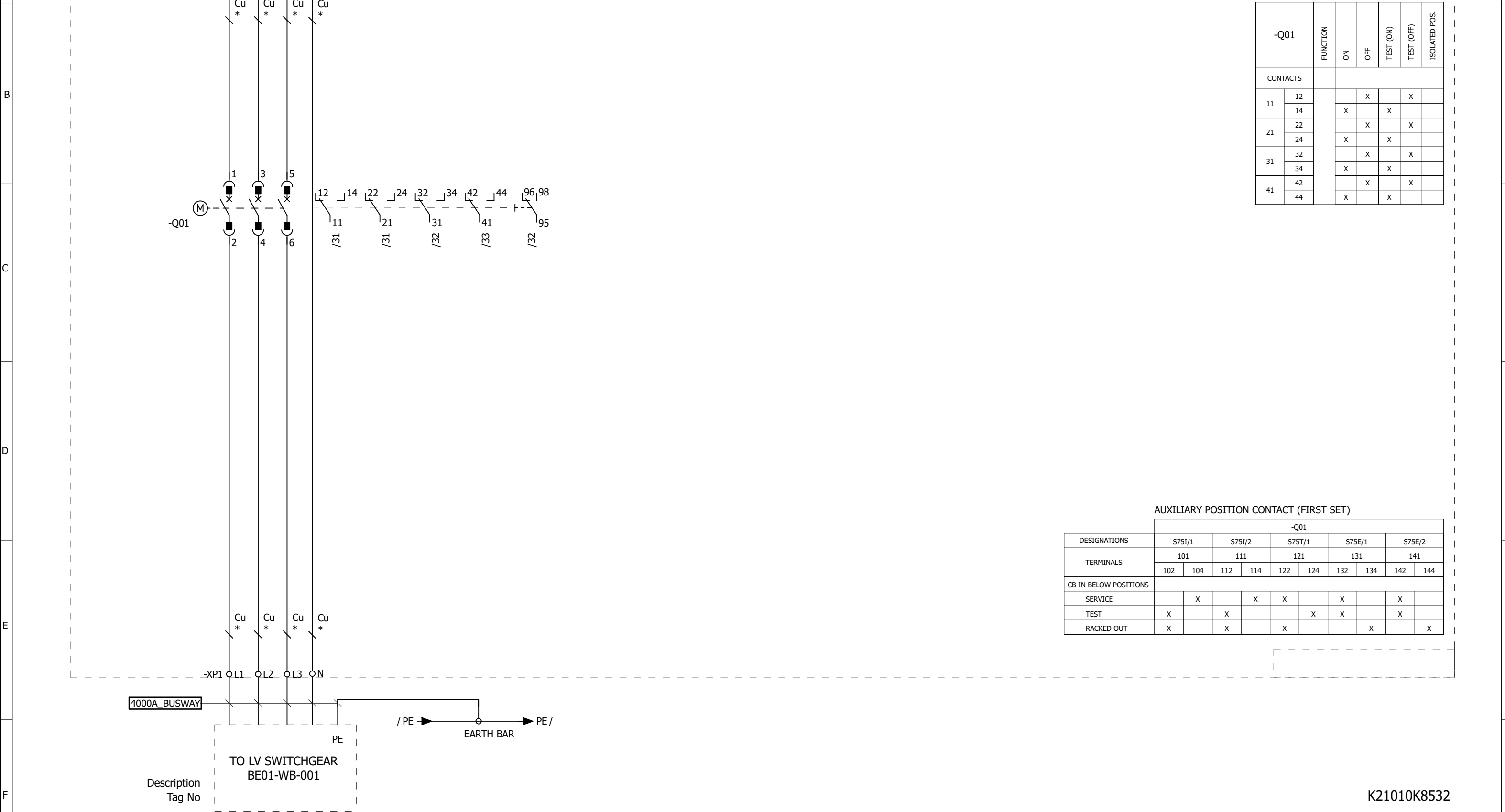
-X60

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
4	-W10	BU	1	1		/10.4:A
3	-W10	WH	2	2		/10.4:A
5	-W10	SH	3	3		/10.4:A

TOTAL TERMINALS COUNT: 3 PCS
TERMINAL TYPE: Feed-through terminal block - PT 2,5

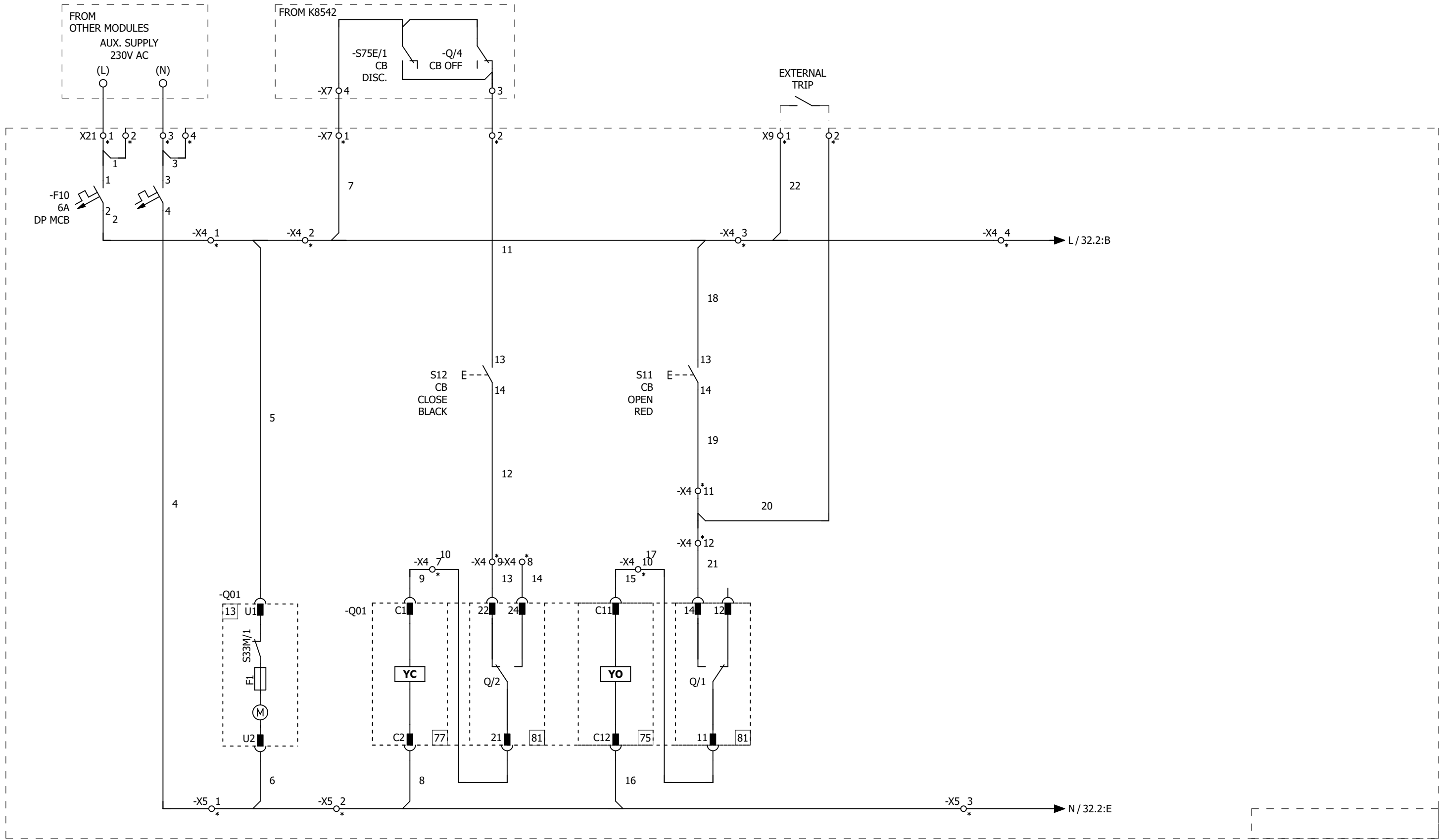
<div>For Approval <input type="checkbox"/> As Tested <input type="checkbox"/></div> <div>Approved For Construction <input checked="" type="checkbox"/> As Build <input type="checkbox"/></div>				Supplier ABB ELEKTRİK SAN. A.Ş.		Customer RMG COPPER JSC		End User RMG COPPER JSC		Project OPP-20-4343531_RMG COPPER MADNEULI UPGRADE PROJECT		Title Terminal Connection Diagram		Drawing No. 4TRD021010C9000		+8507	SIZE A3	
03	26.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA										Project No. K21010	PAGE No. 29	CONT. +8532/30	REV. 
ROVO	31.05.2021	Creation Date			CHECKED BY : O.YILMAZ													
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03	30.07.2021	Last Revision Date	
ROVO	31.05.2021	Creation Date	
Rev.	Date	Description	SIGN

Supplier ABB ELEKTRİK SAN. A.Ş.	
SCALE	DESIGNED BY : VINEETHA
1	CHECKED BY : O.YILMAZ
	APPROVED BY : O.YILMAZ

Customer RMG COPPER JSC	

End User RMG COPPER JSC	

Project OPP-20-4343531_RMG COPPER MADNEULI UPGRADE PROJECT	
--	--

Title LV SWITCHGEAR CIRCUIT DIAGRAM	
ED FEEDER_ACB_Emax2_E6.2H_MS Type_3P_4000A	

Drawing No. 4TRD021010C9000	
Project No. K21010	

+8532	SIZE	A3
PAGE No. 31		
CONT. 32	REV.	

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31.6:B/L

-X4

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-X4

6

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-Q01

81

31

Q/3

34

32

23

-X4

13

*

28

*

14

29

24

26

x1

-H12

CB ON

GREEN

x2

x1

-H11

CB OFF

RED

25

x2

-X5

4

*

-X5

5

*

31.6:E/N

For Approval

As Tested

Approved For Construction

As Build

03

30.07.2021

Last Revision Date

ROV0

31.05.2021

Creation Date

Rev.

Date

Description

SIGN

Supplier

ABB

ELEKTRİK SAN. A.Ş.

Customer

RMG COPPER JSC

RMG

RICH METALS GROUP

End User

RMG COPPER JSC

RMG

RICH METALS GROUP

Project

OPP-20-4343531_RMG COPPER MADNEULI

UPGRADE PROJECT

Title

LV SWITCHGEAR CIRCUIT DIAGRAM

ED FEEDER_ACB_Emax2_E6.2H_MS Type_3P_4000A

Drawing No.

4TRD021010C9000

Project No.

K21010

+8532

PAGE No.

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CONT.

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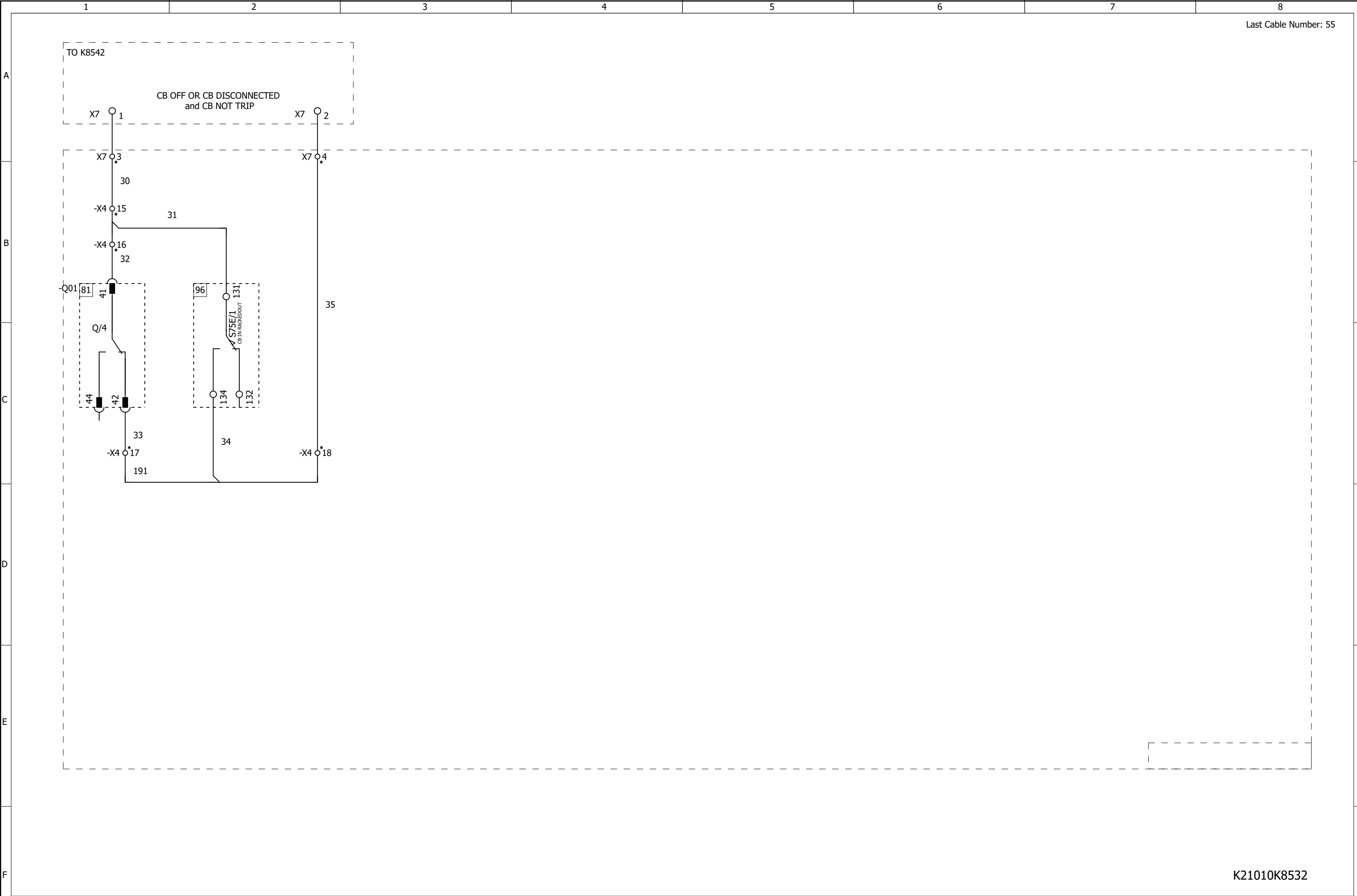
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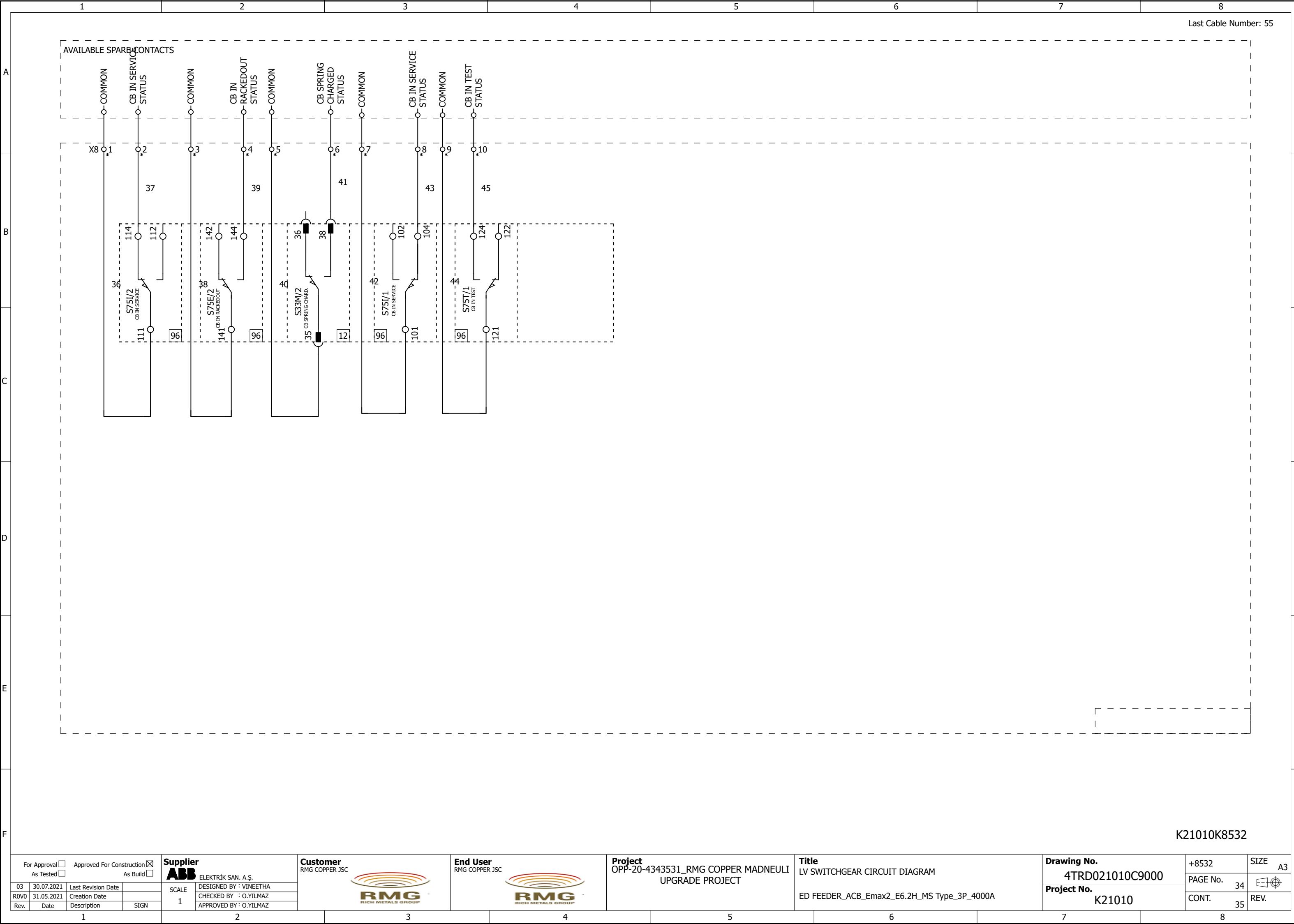
For Approval <input type="checkbox"/> Approved For Construction <input checked="" type="checkbox"/> As Tested <input type="checkbox"/> As Build <input type="checkbox"/>				Supplier ABB ELEKTRİK SAN. A.Ş.		Customer RMG COPPER JSC		End User RMG COPPER JSC		Project OPP-20-4343531_RMG COPPER MADNEULI UPGRADE PROJECT		Title LV SWITCHGEAR CIRCUIT DIAGRAM		Drawing No. 4TRD021010C9000		+8532		SIZE A3	
03	30.07.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA			ED FEEDER_ACB_Emax2_E6.2H_MS Type_3P_4000A	Project No. K21010	32	PAGE No.		CONT.	33	REV.				
ROV0	31.05.2021	Creation Date			CHECKED BY : O.YILMAZ														
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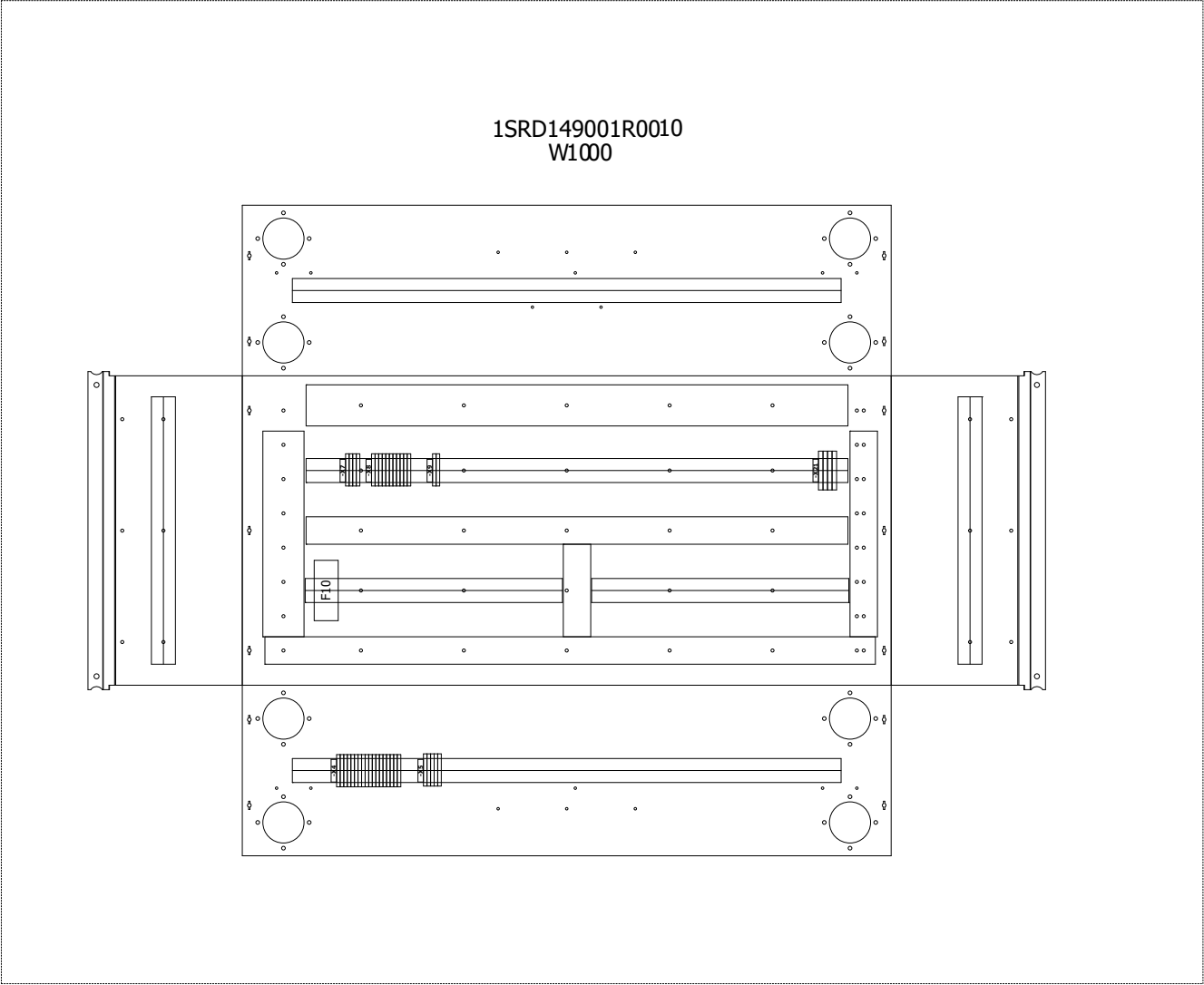
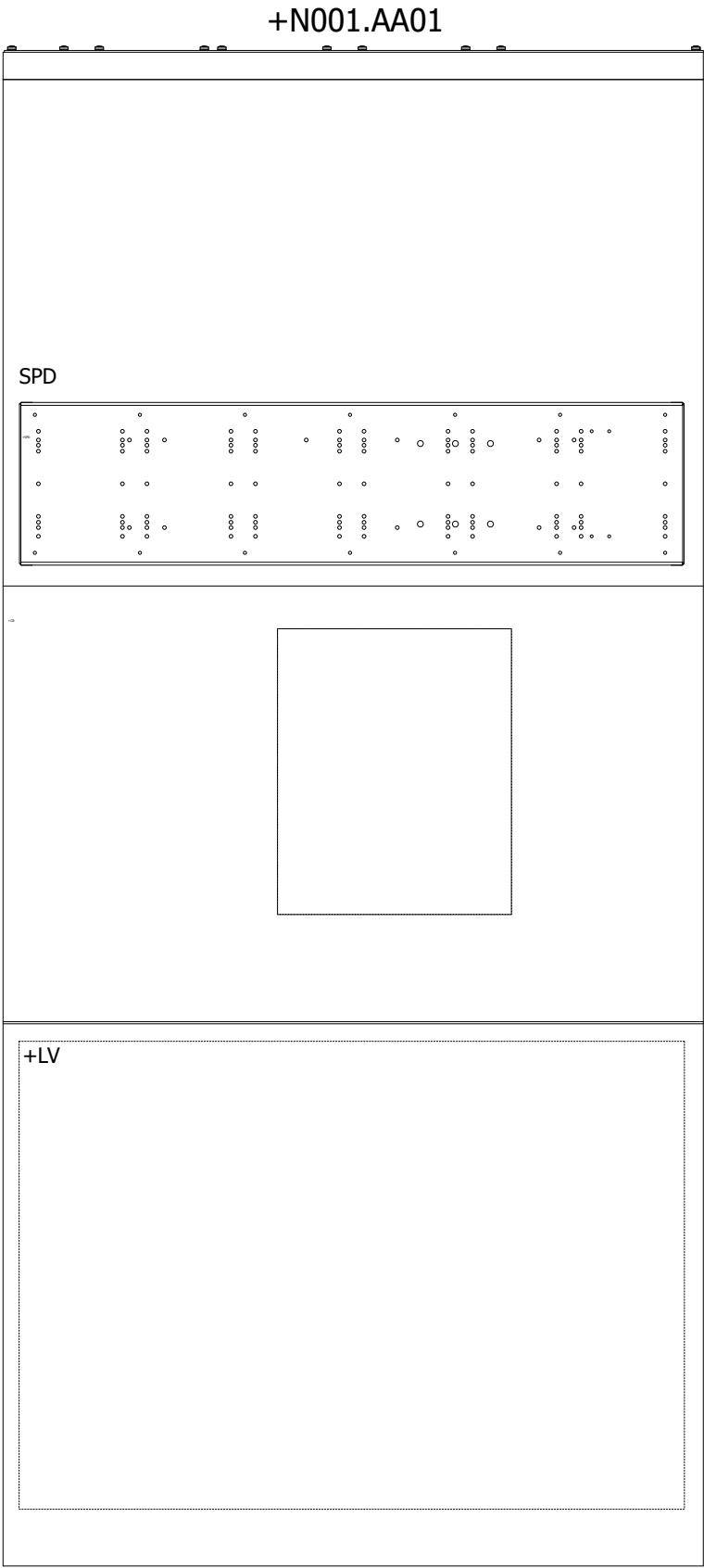
For Approval <input type="checkbox"/> As Tested <input type="checkbox"/>				Approved For Construction <input checked="" type="checkbox"/> As Build <input type="checkbox"/>				Supplier				Customer				End User				Project				Title				Drawing No.				+8532				SIZE			
03				30.07.2021				Last Revision Date				R0V0				31.05.2021				Creation Date				ED FEEDER_ACB_Emax2_E6.2H_MS Type_3P_4000A				4TRD021010C9000				PAGE No.				33			
Rev.				Date				Description				SIGN				SCALE				1				DESIGNED BY : VINEETHA				CHECKED BY : O.YILMAZ				CONT.				34			
1				2				3				4				5				6				7				8				K21010K8532				REV.			

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
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Module Wire List

Nr.	FROM			TO			WIRE				
	Location	Side	Connection point	Connection point	Side	Location	Cross-section	Color	Wire Number	Lenght	Function Definition
1	LV		-F10:1	-X21:1	X		1,5	BK	1		
2	LV		-F10:2	-X4:1			1,5	BK	2		
3	LV		-F10:3	-X21:3	X		1,5	BK	3		
4	LV		-F10:4	-X5:1			1,5	BK	4		
5	CB		-Q01:U1	-X4:1	X		1,5	BK	5		
6	CB		-Q01:U2	-X5:1	X		1,5	BK	6		
7		X	-X4:2	-X7:1	X		1,5	BK	7		
8	CB		-Q01:C2	-X5:2	X		1,5	BK	8		
9	CB		-Q01:C1	-X4:7			1,5	BK	9		
10	CB		-Q01:21	-X4:7	X		1,5	BK	10		
11	LVD		-S12:13	-X7:2	X		1,5	BK	11		
12	LVD		-S12:14	-X4:9	X		1,5	BK	12		
13	CB		-Q01:22	-X4:9			1,5	BK	13		
14	CB		-Q01:24	-X4:8			1,5	BK	14		
15	CB		-Q01:C11	-X4:10			1,5	BK	15		
16	CB		-Q01:C12	-X5:3			1,5	BK	16		
17	CB		-Q01:11	-X4:10	X		1,5	BK	17		
18	LVD		-S11:13	-X4:3			1,5	BK	18		
19	LVD		-S11:14	-X4:11	X		1,5	BK	19		
20			-X4:11	-X9:2	X		1,5	BK	20		
21	CB		-Q01:14	-X4:12			1,5	BK	21		
22		X	-X4:3	-X9:1	X		1,5	BK	22		
23	CB		-Q01:34	-X4:13	X		1,5	BK	23		
24	LVD		-H12:x1	-X4:13			1,5	BK	24		
25	LVD		-H11:x2	-H12:x2		LVD	1,5	BK	25		
26	LVD		-H12:x2	-X5:5			1,5	BK	26		
27	CB		-Q01:31	-X4:6			1,5	BK	27		
28	CB		-Q01:32	-X4:14	X		1,5	BK	28		
29	LVD		-H11:x1	-X4:14			1,5	BK	29		
30			-X4:15	-X7:3	X		1,5	BK	30		
31	CB		-Q01:131	-X4:15	X		1,5	BK	31		
32	CB		-Q01:31	-X4:16	X		1,5	BK	32		
33	CB		-Q01:32	-X4:17	X		1,5	BK	33		
34	CB		-Q01:134	-X4:18			1,5	BK	34		
35		X	-X4:18	-X7:4	X		1,5	BK	35		
36	CB		-Q01:111	-X8:1	X		1,5	BK	36		
37	CB		-Q01:114	-X8:2	X		1,5	BK	37		
38	CB		-Q01:141	-X8:3	X		1,5	BK	38		

* According to Engineering Guideline ** Shielded Cable (BELDEN 9841NH) *** Silicone insulated

<div>For Approval <input type="checkbox"/> As Tested <input type="checkbox"/></div> <div>03 Rev.</div>				<div>Approved For Construction <input checked="" type="checkbox"/> As Build <input type="checkbox"/></div> <div>01.08.2021 Last Revision Date</div> <div>31.05.2021 Creation Date</div> <div>Date Description</div> <div>SIGN</div>				<div>Supplier</div> <div>ABB ELEKTRİK SAN. A.Ş.</div> <div>SCALE 1</div> <div>DESIGNED BY : VINEETHA</div> <div>CHECKED BY : O.YILMAZ</div> <div>APPROVED BY : O.YILMAZ</div>				<div>Customer</div> <div>RMG COPPER JSC</div> <div></div>				<div>End User</div> <div>RMG COPPER JSC</div> <div></div>				<div>Project</div> <div>OPP-20-4343531_RMG COPPER MADNEULI UPGRADE PROJECT</div>				<div>Title</div> <div>Module Wire Connection List</div>				<div>Drawing No.</div> <div>4TRD021010C9000</div> <div>Project No.</div> <div>K21010</div>				<div>+8532</div> <div>PAGE No. 37</div> <div>CONT. 38</div>		<div>SIZE A3</div> <div></div> <div>REV.</div>	
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Approval <input checked="" type="checkbox"/> Approved For Construction As Tested <input type="checkbox"/> As Build <input type="checkbox"/>			Supplier ABB ELEKTRİK SAN. A.Ş.		Customer RMG COPPER JSC 		End User RMG COPPER JSC 		Project OPP-20-4343531_RMГ COPPER MADNEULI UPGRADE PROJECT		Title Module Wire Connection List		Drawing No. 4TRD021010C9000		+8532 SIZE	
1.08.2021 Last Revision Date 1.05.2021 Creation Date Date Description SIGN			SCALE 1 DESIGNED BY : VINEETHA CHECKED BY : O.YILMAZ APPROVED BY : O.YILMAZ								Project No. K21010		38 CONT. 39 REV.			

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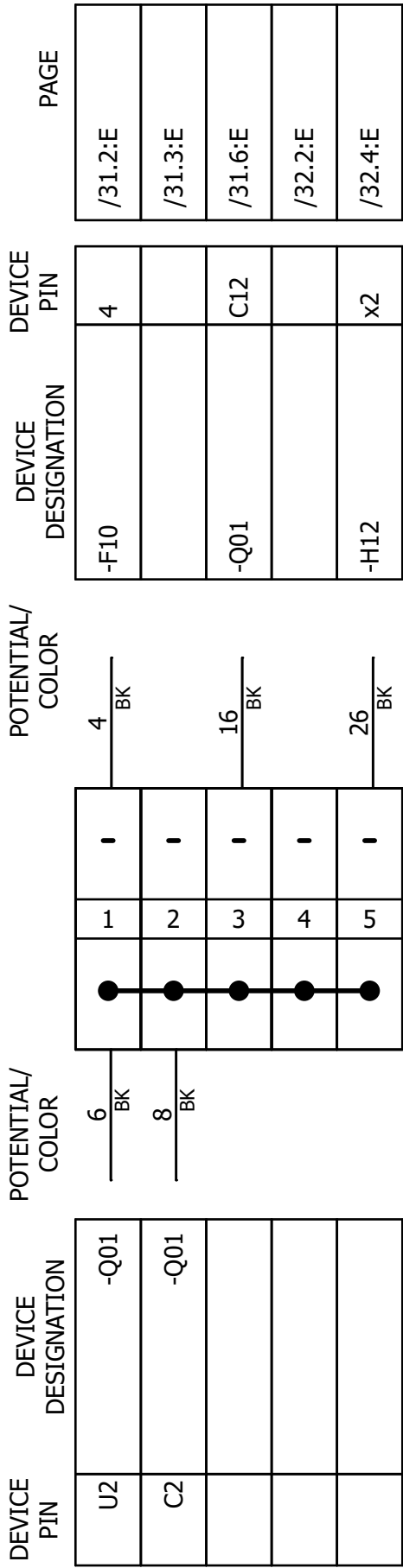
TERMINAL DIAGRAM

-X4

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	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	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	1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TERMINAL DIAGRAM

5-X-



TOTAL TERMINALS COUNT: 5 PCS
TERMINAL TYPE: Feed-through terminal block - PT 2,5




For Approval <input type="checkbox"/> Approved For Construction <input checked="" type="checkbox"/> As Tested <input type="checkbox"/> As Build <input type="checkbox"/>				Supplier ABB ELEKTRİK SAN. A.Ş.		Customer RMG COPPER JSC		End User RMG COPPER JSC		Project OPP-20-4343531_RMG COPPER MADNEULI UPGRADE PROJECT		Title Terminal Connection Diagram		Drawing No. 4TRD021010C9000		+8532 SIZE A3	
03	01.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA							Project No. K21010		PAGE No. 40			
ROV0	31.05.2021	Creation Date			CHECKED BY : O.YILMAZ									CONT. 41			REV.
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ												

TERMINAL DIAGRAM

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DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
2	-X4		7 BK	1		/31.3:A
13	-S12		11 BK	2		/31.3:A
15	-X4		30 BK	3		/33.1:A
18	-X4		35 BK	4		/33.2:A

TOTAL TERMINALS COUNT: 4 PCS
TERMINAL TYPE: Feed-through terminal block - PT 2,5

For Approval <input type="checkbox"/> Approved For Construction <input checked="" type="checkbox"/> As Tested <input type="checkbox"/> As Build <input type="checkbox"/>				Supplier ABB ELEKTRİK SAN. A.Ş.		Customer RMG COPPER JSC		End User RMG COPPER JSC		Project OPP-20-4343531_RMG COPPER MADNEULI UPGRADE PROJECT		Title Terminal Connection Diagram		Drawing No. 4TRD021010C9000		+8532 SIZE A3	
03	01.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA							Project No. K21010		PAGE No. 41			
ROV0	31.05.2021	Creation Date			CHECKED BY : O.YILMAZ									CONT. 41			
Rev.	Date	Description	SIGN											APPROVED BY : O.YILMAZ	CONT. 42		REV.

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TERMINAL DIAGRAM

X8

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	1	2	3	4	5	6	7	8
111	-Q01	36 BK	•	1	•						/34.1:A
114	-Q01	37 BK	•	2	•						/34.1:A
141	-Q01	38 BK	•	3	•						/34.2:A
144	-Q01	39 BK	•	4	•						/34.2:A
35	-Q01	40 BK	•	5	•						/34.2:A
38	-Q01	41 BK	•	6	•						/34.3:A
101	-Q01	42 BK	•	7	•						/34.3:A
104	-Q01	43 BK	•	8	•						/34.3:A
121	-Q01	44 BK	•	9	•						/34.3:A
124	-Q01	45 BK	•	10	•						/34.3:A




TOTAL TERMINALS COUNT: 10 PCS
TERMINAL TYPE: Feed-through terminal block - PT 2,5

TERMINAL DIAGRAM

9x

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	1	2	3	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
3	-X4	22 BK	•	1	•					/31.5:A
11	-X4	20 BK	•	2	•					/31.5:A

TOTAL TERMINALS COUNT: 2 PCS
TERMINAL TYPE: Feed-through terminal block - PT 2,5

For Approval <input type="checkbox"/> Approved For Construction <input checked="" type="checkbox"/> As Tested <input type="checkbox"/> As Build <input type="checkbox"/>				Supplier ABB ELEKTRİK SAN. A.Ş.		Customer RMG COPPER JSC		End User RMG COPPER JSC		Project OPP-20-4343531_RMG COPPER MADNEULI UPGRADE PROJECT		Title Terminal Connection Diagram		Drawing No. 4TRD021010C9000		+8532 SIZE A3	
03	01.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA							Project No. K21010		PAGE No. 43			
ROV0	31.05.2021	Creation Date			CHECKED BY : O.YILMAZ									CONT. 44			REV.
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ												



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TERMINAL DIAGRAM

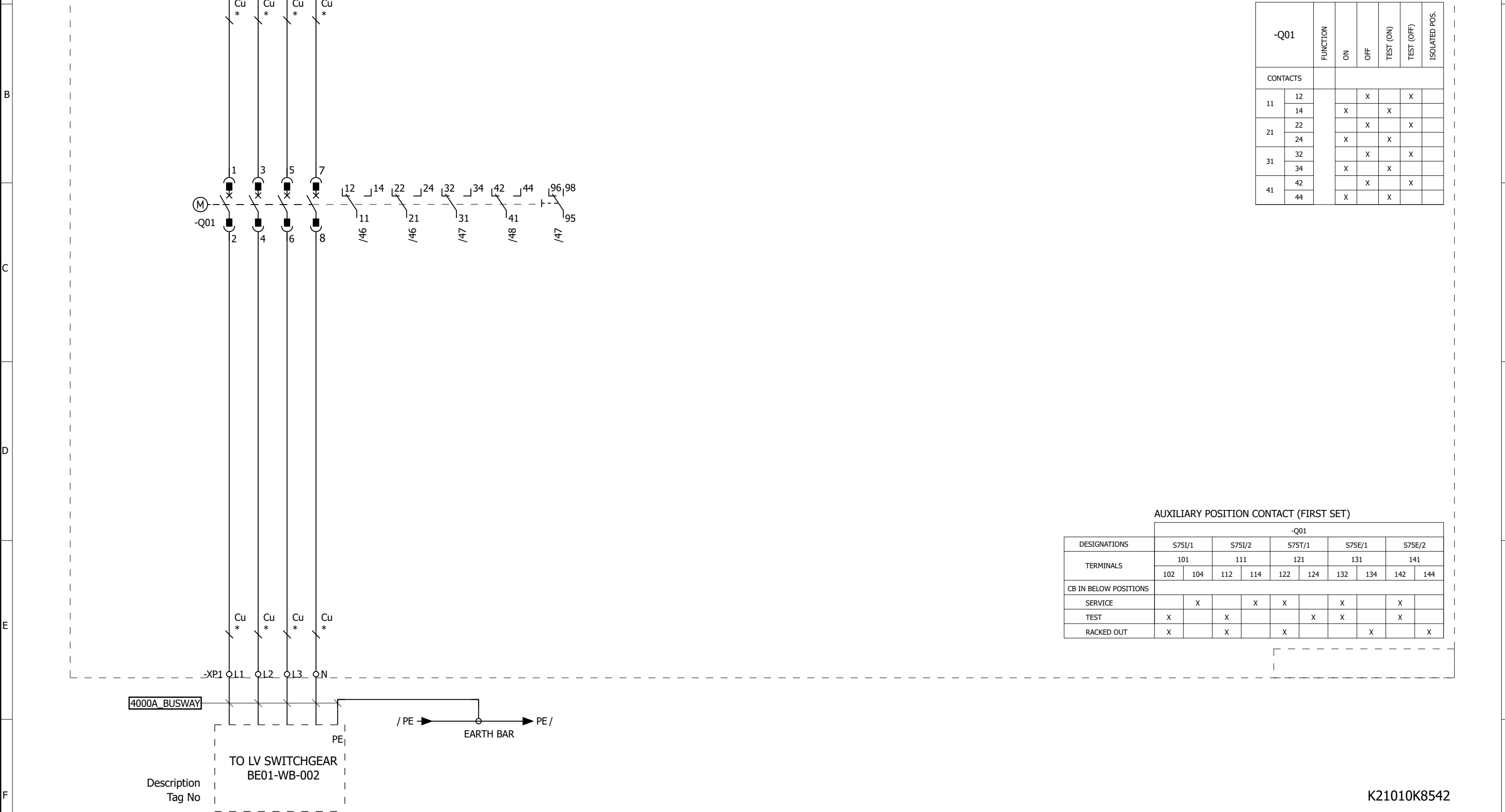
X21

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
1	-F10	1 BK	1 1			/31.1:1:A
			2 1			/31.1:1:A
3	-F10	3 BK	3 1			/31.2:1:A
			4 1			/31.2:1:A

TOTAL TERMINALS COUNT: 4 PCS
TERMINAL TYPE: Feed-through terminal block - PT 4

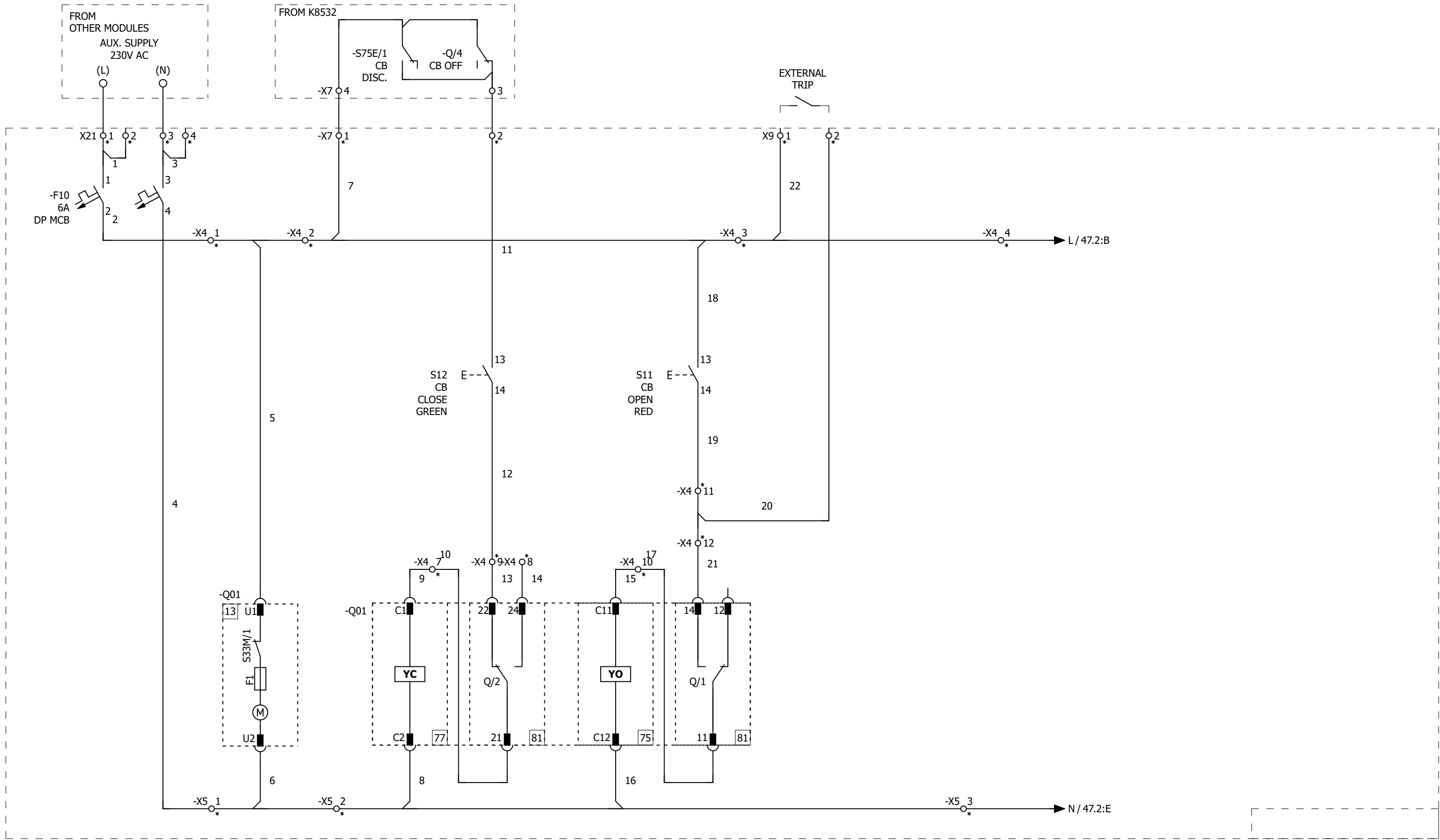
For Approval <input type="checkbox"/> As Tested <input type="checkbox"/>				Approved For Construction <input checked="" type="checkbox"/> As Build <input type="checkbox"/>				Supplier ABB ELEKTRİK SAN. A.Ş.		Customer RMG COPPER JSC		End User RMG COPPER JSC		Project OPP-20-4343531_RMG COPPER MADNEULI UPGRADE PROJECT		Title Terminal Connection Diagram		Drawing No. 4TRD021010C9000		+8532	SIZE A3
03	01.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA													Project No. K21010	CONT. +8542/45	REV.	
ROVO	31.05.2021	Creation Date			CHECKED BY : O.YILMAZ																
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ																

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03	30.07.2021	Last Revision Date	
ROVO	31.05.2021	Creation Date	
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Supplier ABB ELEKTRİK SAN. A.Ş.	
SCALE 1	
DESIGNED BY : VINEETHA	
CHECKED BY : O.YILMAZ	
APPROVED BY : O.YILMAZ	

Customer RMG COPPER JSC	
	

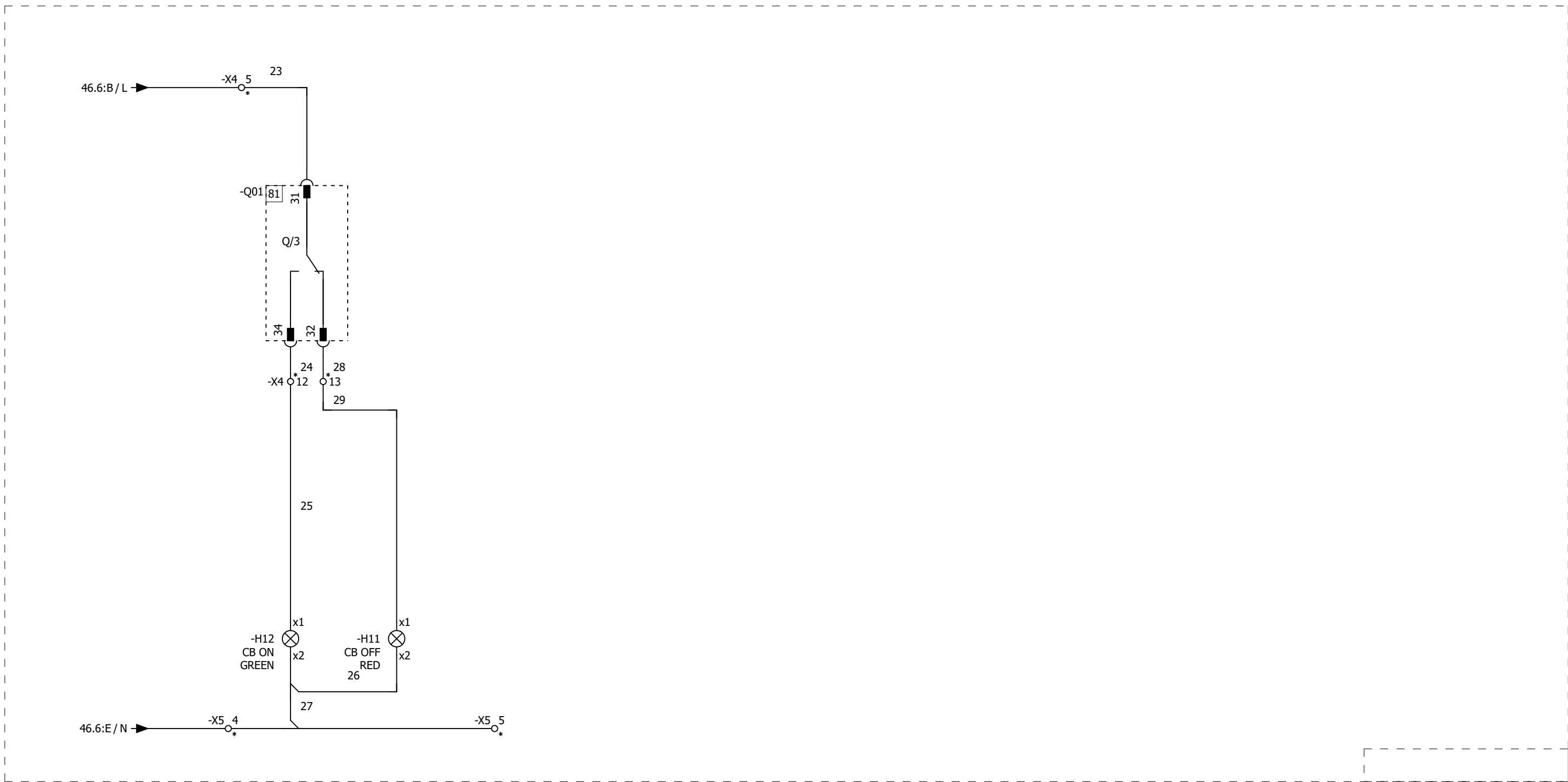
End User RMG COPPER JSC	
	

Project OPP-20-4343531_RMG COPPER MADNEULI UPGRADE PROJECT	
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Title LV SWITCHGEAR CIRCUIT DIAGRAM	
ED FEEDER_ACB_Emax2_E6.2H_MS Type_4P_4000A	

Drawing No. 4TRD021010C9000	
Project No. K21010	

+8542	SIZE A3
PAGE No. 46	REV. 47
CONT.	






K21010K8542

<div>For Approval <input type="checkbox"/> As Tested <input type="checkbox"/></div> <div>Approved For Construction <input checked="" type="checkbox"/> As Build <input type="checkbox"/></div>				<div>Supplier</div> <div><div>ABB</div><div>ELEKTRİK SAN. A.Ş.</div></div>		<div>Customer</div> <div><div>RMG COPPER JSC</div><div></div></div>		<div>End User</div> <div><div>RMG COPPER JSC</div><div></div></div>		<div>Project</div> <div>OPP-20-4343531_RMG COPPER MADNEULI UPGRADE PROJECT</div>		<div>Title</div> <div>LV SWITCHGEAR CIRCUIT DIAGRAM</div> <div>ED FEEDER_ACB_Emax2_E6.2H_MS Type_4P_4000A</div>		<div>Drawing No.</div> <div>4TRD021010C9000</div>		<div>+8542</div>		<div>SIZE</div> <div>A3</div>	
03	30.07.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA			<div>Project No.</div> <div>K21010</div>		<div>ED FEEDER_ACB_Emax2_E6.2H_MS Type_4P_4000A</div>		<div>PAGE No.</div> <div>47</div>		<div></div>					
ROVO	31.05.2021	Creation Date			CHECKED BY : O.YILMAZ														
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ														
												<div>CONT.</div> <div>48</div>		<div>REV.</div>					



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Last Cable Number: 55



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03	30.07.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA																				PAGE No. 48										
ROV0	31.05.2021	Creation Date			CHECKED BY : O.YILMAZ																														
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ																														
																								Project No. K21010				CONT. 49		REV.					

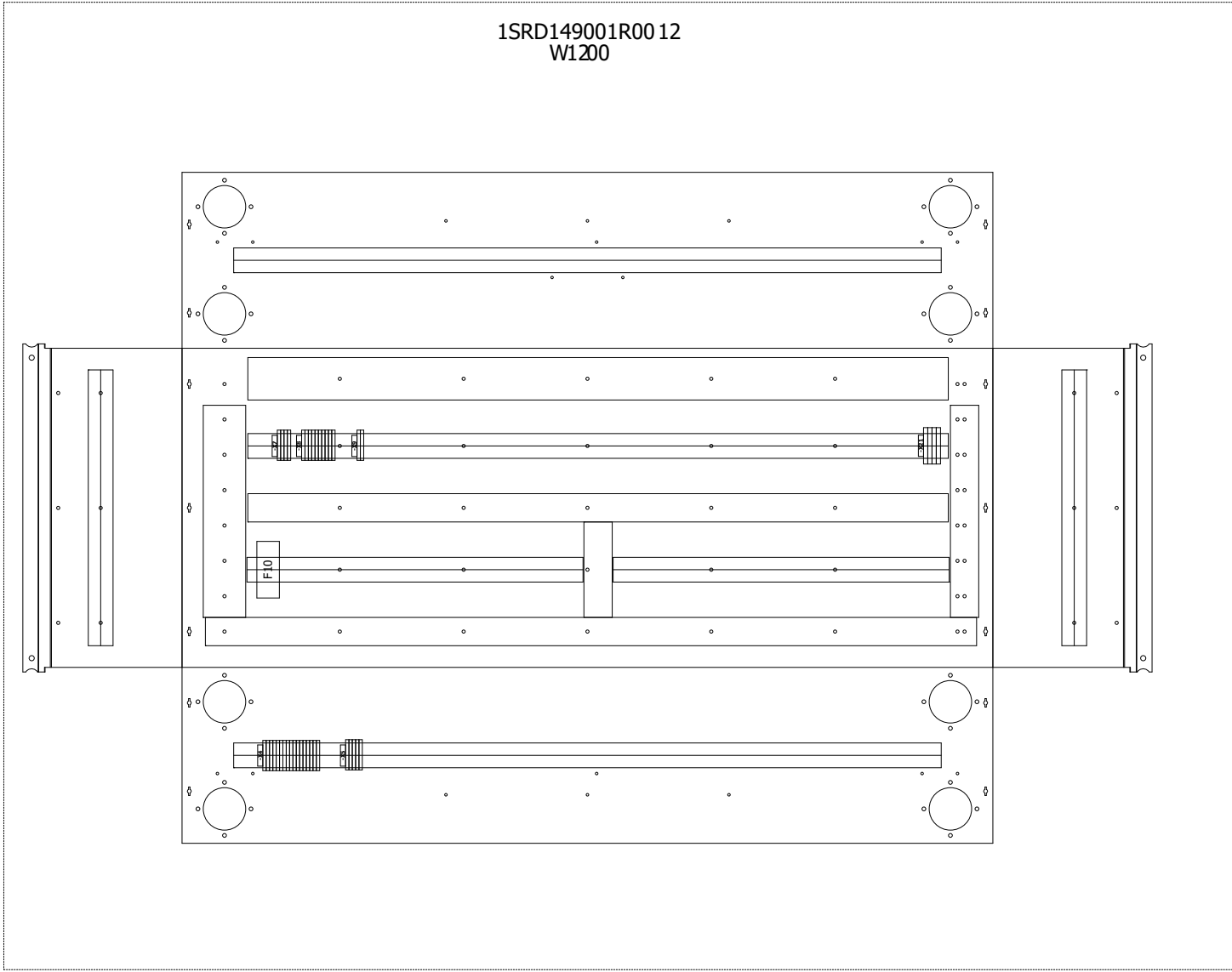
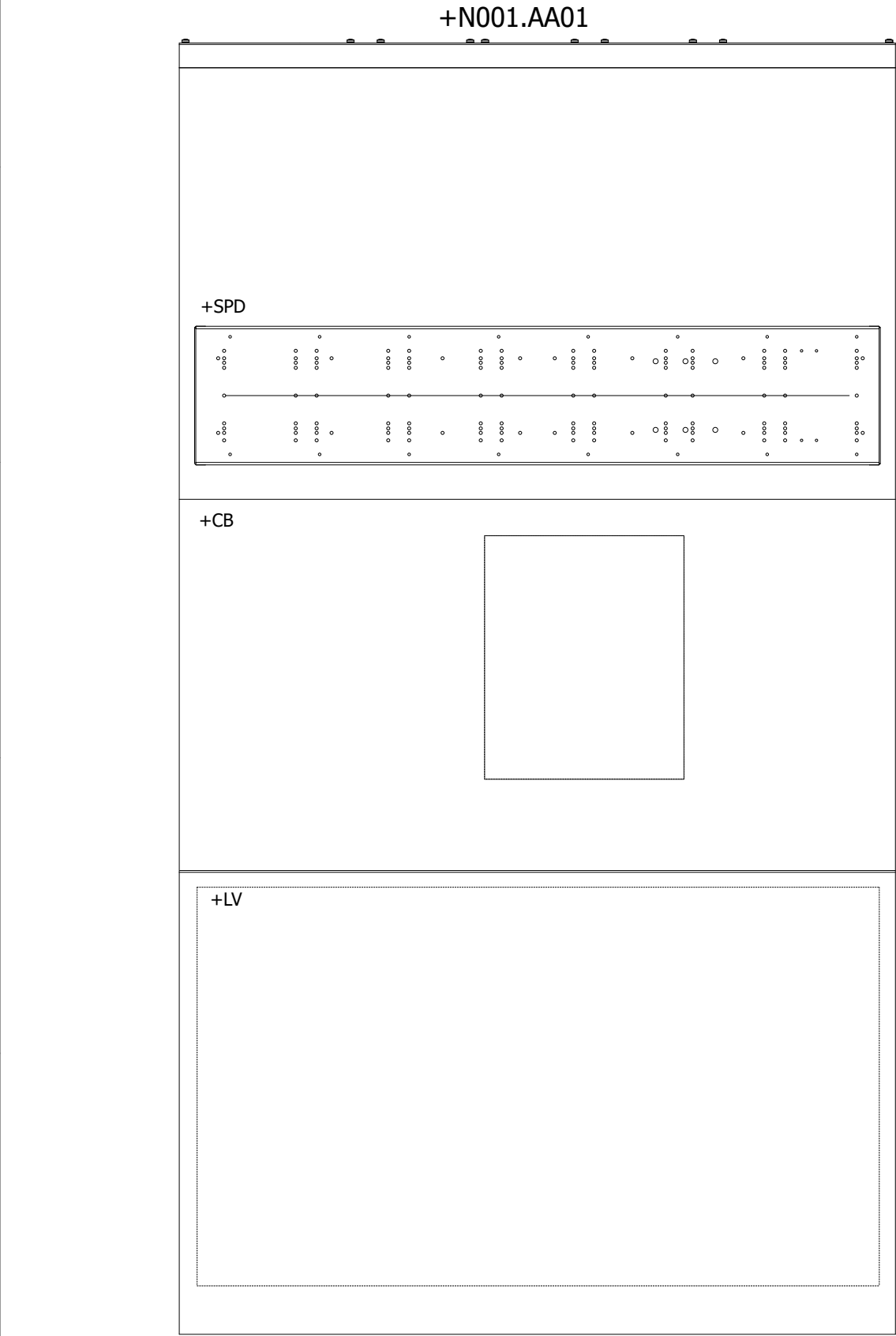
K21010K8542

For Approval <input type="checkbox"/> Approved For Construction <input checked="" type="checkbox"/> As Tested <input type="checkbox"/> As Build <input type="checkbox"/>				Supplier ABB ELEKTRİK SAN. A.Ş.		Customer RMG COPPER JSC		End User RMG COPPER JSC		Project OPP-20-4343531_RMG COPPER MADNEULI UPGRADE PROJECT		Title LV SWITCHGEAR CIRCUIT DIAGRAM		Drawing No. 4TRD021010C9000		+8542		SIZE A3	
03	30.07.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA			ED FEEDER_ACB_Emax2_E6.2H_MS Type_4P_4000A		Project No. K21010		49		PAGE No.		CONT.		REV.	
ROV0	31.05.2021	Creation Date			CHECKED BY : O.YILMAZ							50		50		50		50	
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ														



For Approval <input type="checkbox"/> Approved For Construction <input checked="" type="checkbox"/> As Tested <input type="checkbox"/> As Build <input type="checkbox"/>				Supplier  ELEKTRİK SAN. A.Ş.		Customer RMG COPPER JSC 		End User RMG COPPER JSC 		Project OPP-20-4343531_RMG COPPER MADNEULI UPGRADE PROJECT		Title LV SWITCHGEAR CIRCUIT DIAGRAM ED FEEDER_ACB_Emax2_E6.2H_MS Type_4P_4000A		Drawing No. 4TRD021010C9000		+8542 SIZE A3	
03	30.07.2021	Last Revision Date		SCALE 10	DESIGNED BY : VINEETHA	 								PAGE No. 50			
ROV0	31.05.2021	Creation Date			CHECKED BY : O.YILMAZ									CONT. 51		REV.	
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ												

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03	30.07.2021	Last Revision Date		SCALE 10	DESIGNED BY : VINEETHA															PAGE No.	51	
R0V0	31.05.2021	Creation Date			CHECKED BY : O.YILMAZ															CONT.	52	REV.
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ																	

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Module Wire List

Nr.	FROM			TO			WIRE				
	Location	Side	Connection point	Connection point	Side	Location	Cross-section	Color	Wire Number	Lenght	Function Definition
1	LV		-F10:1	-X21:1	X		1,5	BK	1		
2	LV		-F10:2	-X4:1			1,5	BK	2		
3	LV		-F10:3	-X21:3	X		1,5	BK	3		
4	LV		-F10:4	-X5:1			1,5	BK	4		
5	CB		-Q01:U1	-X4:1	X		1,5	BK	5		
6	CB		-Q01:U2	-X5:1	X		1,5	BK	6		
7		X	-X4:2	-X7:1	X		1,5	BK	7		
8	CB		-Q01:C2	-X5:2	X		1,5	BK	8		
9	CB		-Q01:C1	-X4:7			1,5	BK	9		
10	CB		-Q01:21	-X4:7	X		1,5	BK	10		
11	LVD		-S12:13	-X7:2	X		1,5	BK	11		
12	LVD		-S12:14	-X4:9	X		1,5	BK	12		
13	CB		-Q01:22	-X4:9			1,5	BK	13		
14	CB		-Q01:24	-X4:8			1,5	BK	14		
15	CB		-Q01:C11	-X4:10			1,5	BK	15		
16	CB		-Q01:C12	-X5:3			1,5	BK	16		
17	CB		-Q01:11	-X4:10	X		1,5	BK	17		
18	LVD		-S11:13	-X4:3			1,5	BK	18		
19	LVD		-S11:14	-X4:11	X		1,5	BK	19		
20			-X4:11	-X9:2	X		1,5	BK	20		
21	CB		-Q01:14	-X4:12			1,5	BK	21		
22		X	-X4:3	-X9:1	X		1,5	BK	22		
23	CB		-Q01:31	-X4:5	X		1,5	BK	23		
24	CB		-Q01:34	-X4:12	X		1,5	BK	24		
25	LVD		-H12:x1	-X4:12			1,5	BK	25		
26	LVD		-H11:x2	-H12:x2		LVD	1,5	BK	26		
27	LVD		-H12:x2	-X5:5			1,5	BK	27		
28	CB		-Q01:32	-X4:13	X		1,5	BK	28		
29	LVD		-H11:x1	-X4:13			1,5	BK	29		
30			-X4:14	-X7:3	X		1,5	BK	30		
31	CB		-Q01:131	-X4:14	X		1,5	BK	31		
32	CB		-Q01:31	-X4:15	X		1,5	BK	32		
33	CB		-Q01:32	-X4:16	X		1,5	BK	33		
34	CB		-Q01:134	-X4:17			1,5	BK	34		
35		X	-X4:17	-X7:4	X		1,5	BK	35		
36	CB		-Q01:111	-X8:1	X		1,5	BK	36		
37	CB		-Q01:114	-X8:2	X		1,5	BK	37		
38	CB		-Q01:141	-X8:3	X		1,5	BK	38		

* According to Engineering Guideline ** Shielded Cable (BELDEN 9841NH) *** Silicone insulated

<div>For Approval <input type="checkbox"/> As Tested <input type="checkbox"/></div> <div>Approved For Construction <input checked="" type="checkbox"/> As Build <input type="checkbox"/></div>				<div>Supplier</div> <div> ELEKTRİK SAN. A.Ş.</div> <div>SCALE 1</div>		<div>Customer</div> <div>RMG COPPER JSC</div> <div></div>		<div>End User</div> <div>RMG COPPER JSC</div> <div></div>		<div>Project</div> <div>OPP-20-4343531_RMG COPPER MADNEULI UPGRADE PROJECT</div>		<div>Title</div> <div>Module Wire Connection List</div>		<div>Drawing No.</div> <div>4TRD021010C9000</div>		<div>+8542</div>		<div>SIZE</div> <div>A3</div>	
<div>03 01.08.2021 Last Revision Date</div> <div>Rev. 31.05.2021 Creation Date</div> <div>Date Description SIGN</div>				<div>DESIGNED BY : VINEETHA</div> <div>CHECKED BY : O.YILMAZ</div> <div>APPROVED BY : O.YILMAZ</div>								<div>Project No.</div> <div>K21010</div>		<div>PAGE No.</div> <div>52</div>		<div>REV.</div> <div>53</div>			
1				2		3		4		5		6		7		8			

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For Approval <input type="checkbox"/> Approved For Construction <input checked="" type="checkbox"/> As Tested <input type="checkbox"/> As Build <input type="checkbox"/>				Supplier ABB ELEKTRİK SAN. A.Ş.		Customer RMG COPPER JSC		End User RMG COPPER JSC		Project OPP-20-4343531_RMG COPPER MADNEULI UPGRADE PROJECT		Title Module Wire Connection List		Drawing No. 4TRD021010C9000		+8542 SIZE A3	
03	01.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA							Project No. K21010		PAGE No. 53			
ROV0	31.05.2021	Creation Date			CHECKED BY : O.YILMAZ									CONT. 54			REV.
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ												

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TERMINAL DIAGRAM

-X4

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	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	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	1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TERMINAL DIAGRAM

-X5

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
U2	-Q01	6 BK	1 •	-F10	4	/46.2:E
C2	-Q01	8 BK	2 •			/46.3:E
			3 •	-Q01	C12	/46.6:E
			4 •			/47.2:E
			5 •	-H12	x2	/47.3:E

TOTAL TERMINALS COUNT: 5 PCS
TERMINAL TYPE: Feed-through terminal block - PT 2,5

For Approval <input type="checkbox"/> As Tested <input type="checkbox"/>				Approved For Construction <input checked="" type="checkbox"/> As Build <input type="checkbox"/>				Supplier ABB ELEKTRİK SAN. A.Ş.		Customer RMG COPPER JSC		End User RMG COPPER JSC		Project OPP-20-4343531_RMG COPPER MADNEULI UPGRADE PROJECT		Title		Drawing No.		+8542		SIZE A3			
03		01.08.2021		Last Revision Date				SCALE 1		DESIGNED BY : VINEETHA						Terminal Connection Diagram		Project No. K21010		PAGE No.		55			
ROVO		31.05.2021		Creation Date						CHECKED BY : O.YILMAZ										CONT.		56			
Rev.		Date		Description		SIGN				APPROVED BY : O.YILMAZ															

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A

B

C

D

E

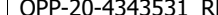


F

TERMINAL DIAGRAM

X7

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
2	-X4	7 BK	1 ■			/46.3:A
13	-S12	11 BK	2 ■			/46.3:A
14	-X4	30 BK	3 ■			/48.1:A
17	-X4	35 BK	4 ■			/48.2:A

TOTAL TERMINALS COUNT: 4 PCS
TERMINAL TYPE: Feed-through terminal block - PT 2,5

For Approval <input type="checkbox"/> As Tested <input type="checkbox"/>				Approved For Construction <input checked="" type="checkbox"/> As Build <input type="checkbox"/>				Supplier ABB ELEKTRİK SAN. A.Ş.		Customer RMG COPPER JSC		End User RMG COPPER JSC		Project OPP-20-4343531_RMG COPPER MADNEULI UPGRADE PROJECT		Title		Drawing No. 4TRD021010C9000		+8542	SIZE A3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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TERMINAL DIAGRAM

X8

DEVICE PIN		DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR		DEVICE DESIGNATION	DEVICE PIN	DEVICE DESIGNATION	DEVICE PIN	PAGE
111	-Q01	36 BK	1	1						/49.1:A
114	-Q01	37 BK	2	1						/49.1:A
141	-Q01	38 BK	3	1						/49.2:A
144	-Q01	39 BK	4	1						/49.2:A
35	-Q01	40 BK	5	1						/49.2:A
38	-Q01	41 BK	6	1						/49.3:A
101	-Q01	42 BK	7	1						/49.3:A
104	-Q01	43 BK	8	1						/49.3:A
121	-Q01	44 BK	9	1						/49.3:A
124	-Q01	45 BK	10	1						/49.3:A

TOTAL TERMINALS COUNT: 10 PCS
TERMINAL TYPE: Feed-through terminal block - PT 2,5

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
F

TERMINAL DIAGRAM

X9

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
3	-X4	22 BK	•	1		/46.5:A
11	-X4	20 BK	•	2		/46.5:A

TOTAL TERMINALS COUNT: 2 PCS
TERMINAL TYPE: Feed-through terminal block - PT 2,5

For Approval <input type="checkbox"/> As Tested <input type="checkbox"/>				Approved For Construction <input checked="" type="checkbox"/> As Build <input type="checkbox"/>				Supplier ABB ELEKTRİK SAN. A.Ş.		Customer RMG COPPER JSC		End User RMG COPPER JSC		Project OPP-20-4343531_RMG COPPER MADNEULI UPGRADE PROJECT		Title Terminal Connection Diagram		Drawing No. 4TRD021010C9000		+8542	SIZE A3									
03	01.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA														PAGE No.	58										
ROVO	31.05.2021	Creation Date			CHECKED BY : O.YILMAZ																									
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ														CONT.	59	REV.									

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TERMINAL DIAGRAM

X21

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
1	-F10	1 BK	1 BK			/46.1:A
						/46.1:A
3	-F10	3 BK	3 BK			/46.2:A
						/46.2:A

TOTAL TERMINALS COUNT: 4 PCS
TERMINAL TYPE: Feed-through terminal block - PT 4

For Approval <input type="checkbox"/> As Tested <input type="checkbox"/>				Approved For Construction <input checked="" type="checkbox"/> As Build <input type="checkbox"/>				Supplier ABB ELEKTRİK SAN. A.Ş.		Customer RMG COPPER JSC		End User RMG COPPER JSC		Project OPP-20-4343531_RMG COPPER MADNEULI UPGRADE PROJECT		Title Terminal Connection Diagram		Drawing No. 4TRD021010C9000		+8542	SIZE A3										
03	01.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA													PAGE No. 59													
ROVO	31.05.2021	Creation Date			CHECKED BY : O.YILMAZ																										
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ																										
1				2				3				4								5				6				7			