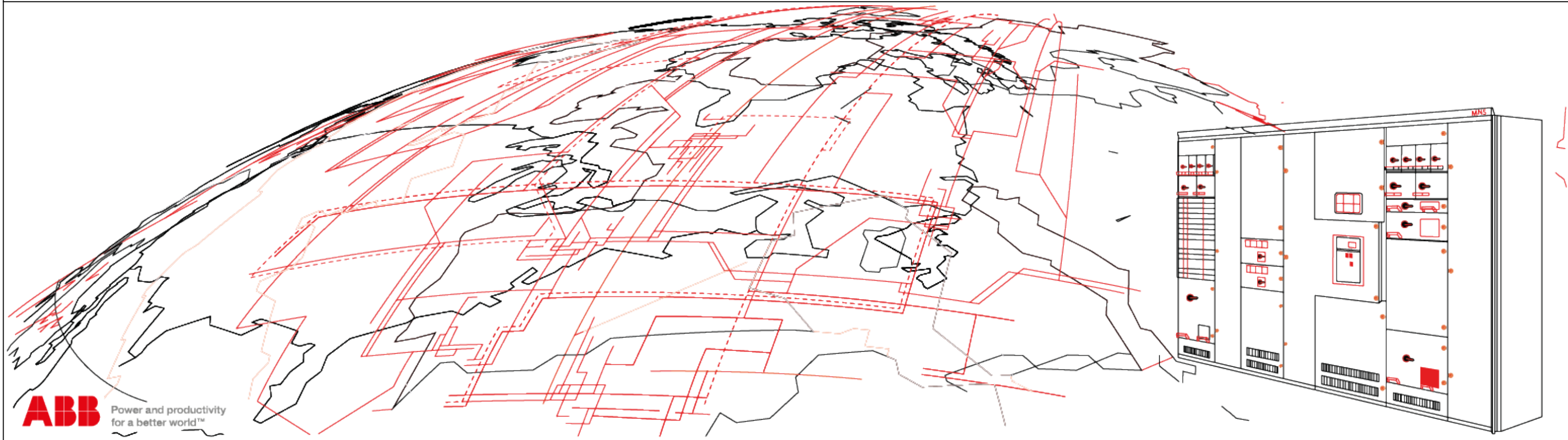




Elektrik Sanayi A.Ş.

Low Voltage Systems

Customer : RMG COPPER JSC
Contract Number : -
Project Description : TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA
Switchgear Name : CONTROL TYPICAL DIAGRAM









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

Dilovasi OSB 4.Kısım D-4009 No:11
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A	<div>Designation of zones</div> <div>LCT LV : compartment light limit switch</div> <div>HWD : horizontal wiring duct</div> <div>LV : Low Voltage control device compartment</div> <div>LV_AD: Low Voltage control adaptation compartment</div> <div>IP : Instrument Panel</div> <div>BB : BusBar compartment</div> <div>CB : Circuit Breaker compartment</div> <div>CT : Current Transformers</div> <div>SPD : Surge Protection Device compartment</div> <div>CAB : Cable compartment</div> <div>TOP : Top of swichgear</div> <div>LVD : LV compartment door</div> <div>WD : Withdrawable module</div> <div>PM : Plugin module</div>								A
B									B
C									C
D									D
E									E
F	<div> <div> <div> <div> <div>For Approval <input type="checkbox"/></div> <div>As Tested <input type="checkbox"/></div> </div> <div> <div>Approved For Construction <input checked="" type="checkbox"/></div> <div>As Build <input type="checkbox"/></div> </div> </div> <div> <div>Supplier</div> <div>  <div>ELEKTRİK SAN. A.Ş.</div> </div> </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>TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA</div> </div> <div> <div>Title</div> <div>Designation of zones</div> </div> <div> <div>Drawing No.</div> <div>4TRD021001C9000</div> </div> <div> <div>Project No.</div> <div>K21001</div> </div> <div> <div>+DOCUMENTS</div> <div>PAGE No.</div> <div>CONT.</div> </div> <div> <div>SIZE</div> <div>2</div> <div>3</div> </div> <div> <div>A3</div> <div></div> <div>REV.</div> </div> </div> </div>								F
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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

E

F

<div><div><div>For Approval<input type="checkbox"/></div><div>As Tested<input type="checkbox"/></div></div><div><div>Approved For Construction<input checked="" type="checkbox"/></div><div>As Build<input type="checkbox"/></div></div></div>				<div>Supplier</div> <div><div>ABB</div><div>ELEKTRİK SAN. A.Ş.</div></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>TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA</div>		<div>Title</div> <div>General Notes</div>		<div>Drawing No.</div> <div>4TRD021001C9000</div>		<div>+DOCUMENTS</div>		<div>SIZE</div> <div>A3</div>	
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Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ														
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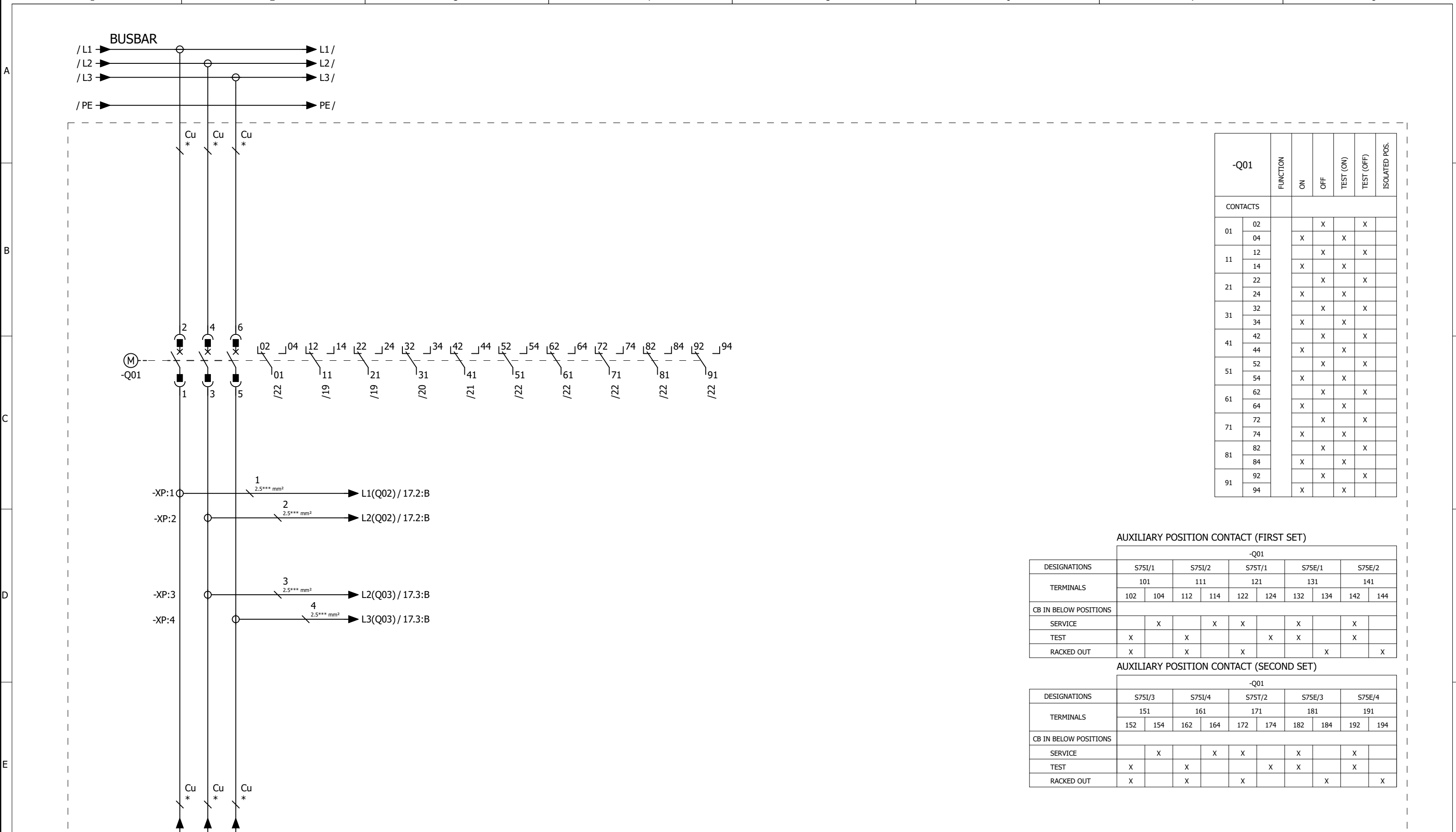
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	04	X		X			
11	12		X		X		
	14	X		X			
21	22		X		X		
	24	X		X			
31	32		X		X		
	34	X		X			
41	42		X		X		
	44	X		X			
51	52		X		X		
	54	X		X			
61	62		X		X		
	64	X		X			
71	72		X		X		
	74	X		X			
81	82		X		X		
	84	X		X			
91	92		X		X		
	94	X		X			

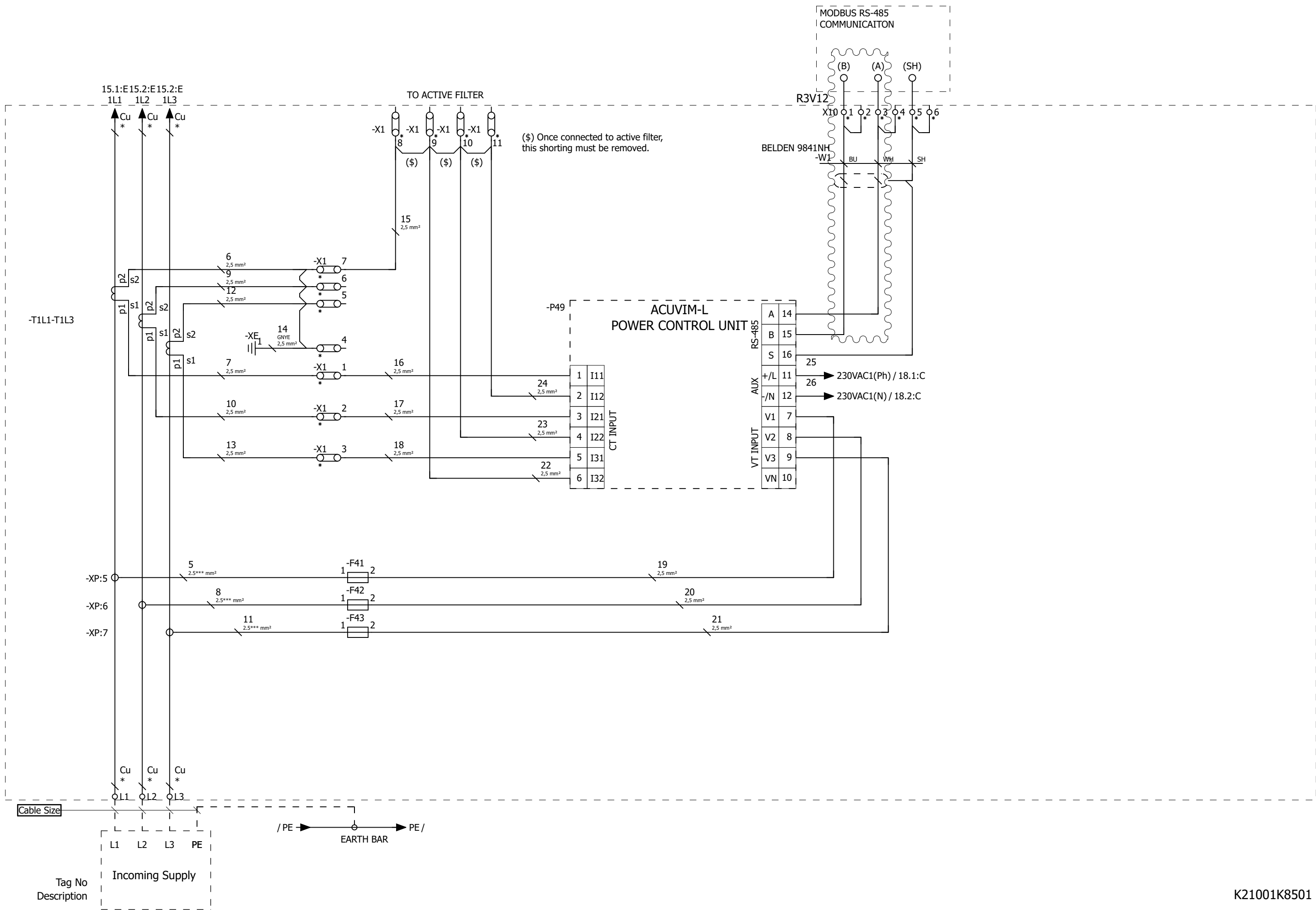
AUXILIARY POSITION CONTACT (FIRST SET)										
-Q01										
DESIGNATIONS	S75I/1		S75I/2		S75T/1		S75E/1		S75E/2	
TERMINALS	101		111		121		131		141	
	102	104	112	114	122	124	132	134	142	144
CB IN BELOW POSITIONS										
SERVICE		X		X	X		X		X	
TEST	X		X			X	X		X	
RACKED OUT	X		X		X			X		X

AUXILIARY POSITION CONTACT (SECOND SET)										
-Q01										
DESIGNATIONS	S75I/3		S75I/4		S75T/2		S75E/3		S75E/4	
TERMINALS	151		161		171		181		191	
	152	154	162	164	172	174	182	184	192	194
CB IN BELOW POSITIONS										
SERVICE		X		X	X		X		X	
TEST	X		X			X	X		X	
RACKED OUT	X		X		X			X		X

Location	Panel Name[Incomer Details]
+N011.AA01	BE01-WC-001

<div>For Approval <input type="checkbox"/> As Tested</div> <div>Approved For Construction <input checked="" type="checkbox"/> As Build</div>				Supplier ABB ELEKTRİK SAN. A.Ş.		Customer RMG COPPER JSC		End User RMG COPPER JSC		Project TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title INCOMER_Emax 2_E2.2N_H_MS Type_3P_2000A		Drawing No. 4TRD021001C9000		+8501		SIZE A3	
R3V12		19.05.2021		Last Revision Date										Project No. K21001		PAGE No.		15	
R0V0		11.02.2021		Creation Date												CONT.		16	
Rev.		Date		Description		SIGN										REV.			
SCALE 1																			

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K21001K8501

For Approval	<input type="checkbox"/>	Approved For Construction	<input checked="" type="checkbox"/>
As Tested	<input type="checkbox"/>	As Build	<input type="checkbox"/>
R3V12	06.08.2021	Last Revision Date	
R0V0	11.02.2021	Creation Date	
Rev.	Date	Description	SIGN

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

Customer	RMG COPPER JSC
End User	RMG COPPER JSC
Project	TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA
Title	INCOMER_Emax 2_E2.2N_H_MS Type_3P_2000A

Supplier	ABB ELEKTRİK SAN. A.Ş.
Customer	RMG COPPER JSC
End User	RMG COPPER JSC
Project	TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA
Title	INCOMER_Emax 2_E2.2N_H_MS Type_3P_2000A

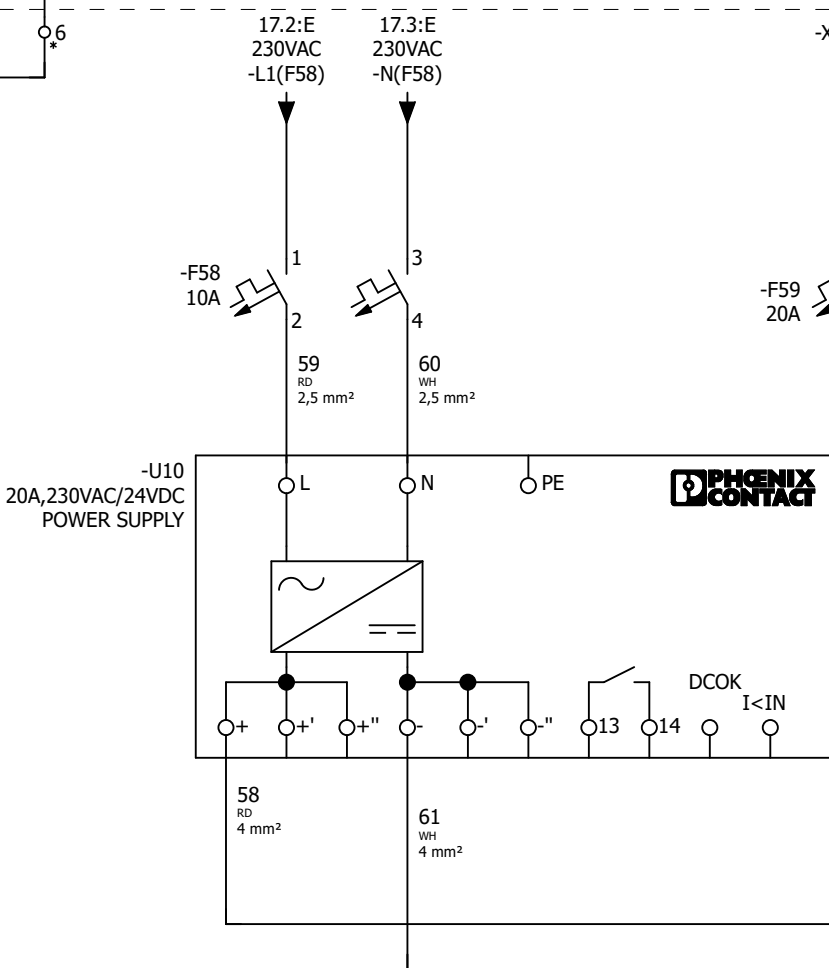
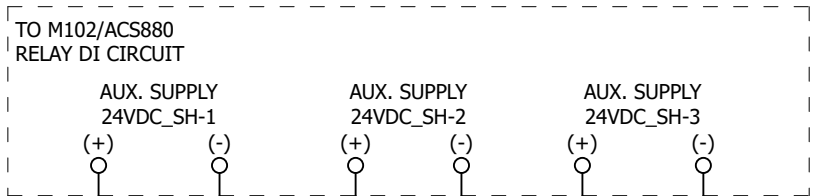
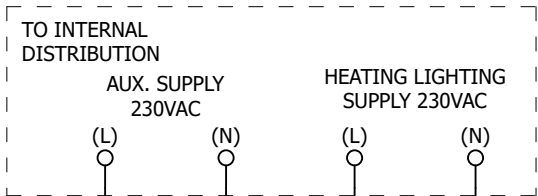
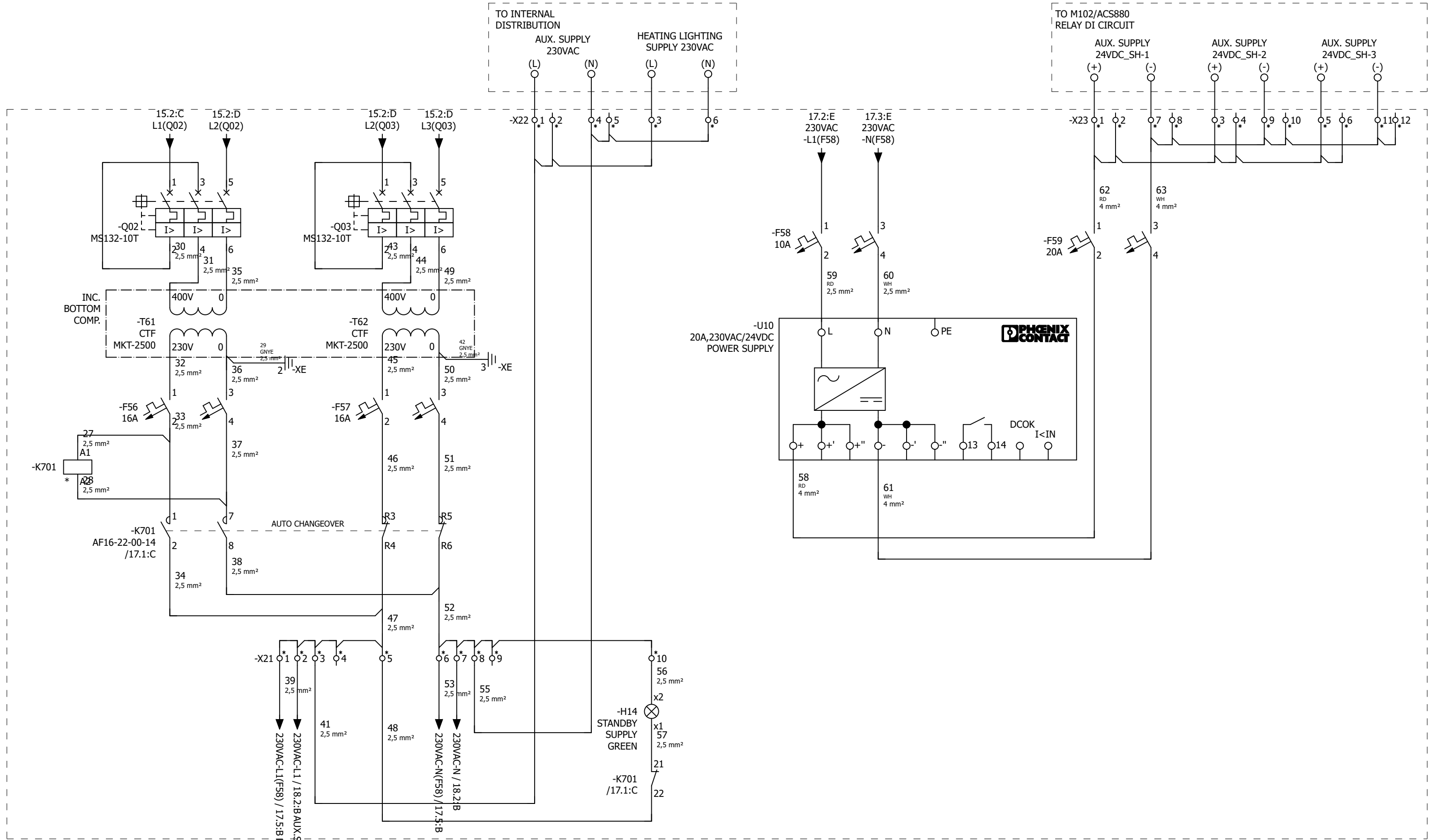
Supplier	ABB ELEKTRİK SAN. A.Ş.
Customer	RMG COPPER JSC
End User	RMG COPPER JSC
Project	TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA
Title	INCOMER_Emax 2_E2.2N_H_MS Type_3P_2000A

Supplier	ABB ELEKTRİK SAN. A.Ş.
Customer	RMG COPPER JSC
End User	RMG COPPER JSC
Project	TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA
Title	INCOMER_Emax 2_E2.2N_H_MS Type_3P_2000A

Drawing No.	4TRD021001C9000
Project No.	K21001






+8501	SIZE	A3
PAGE No.	16	REV.
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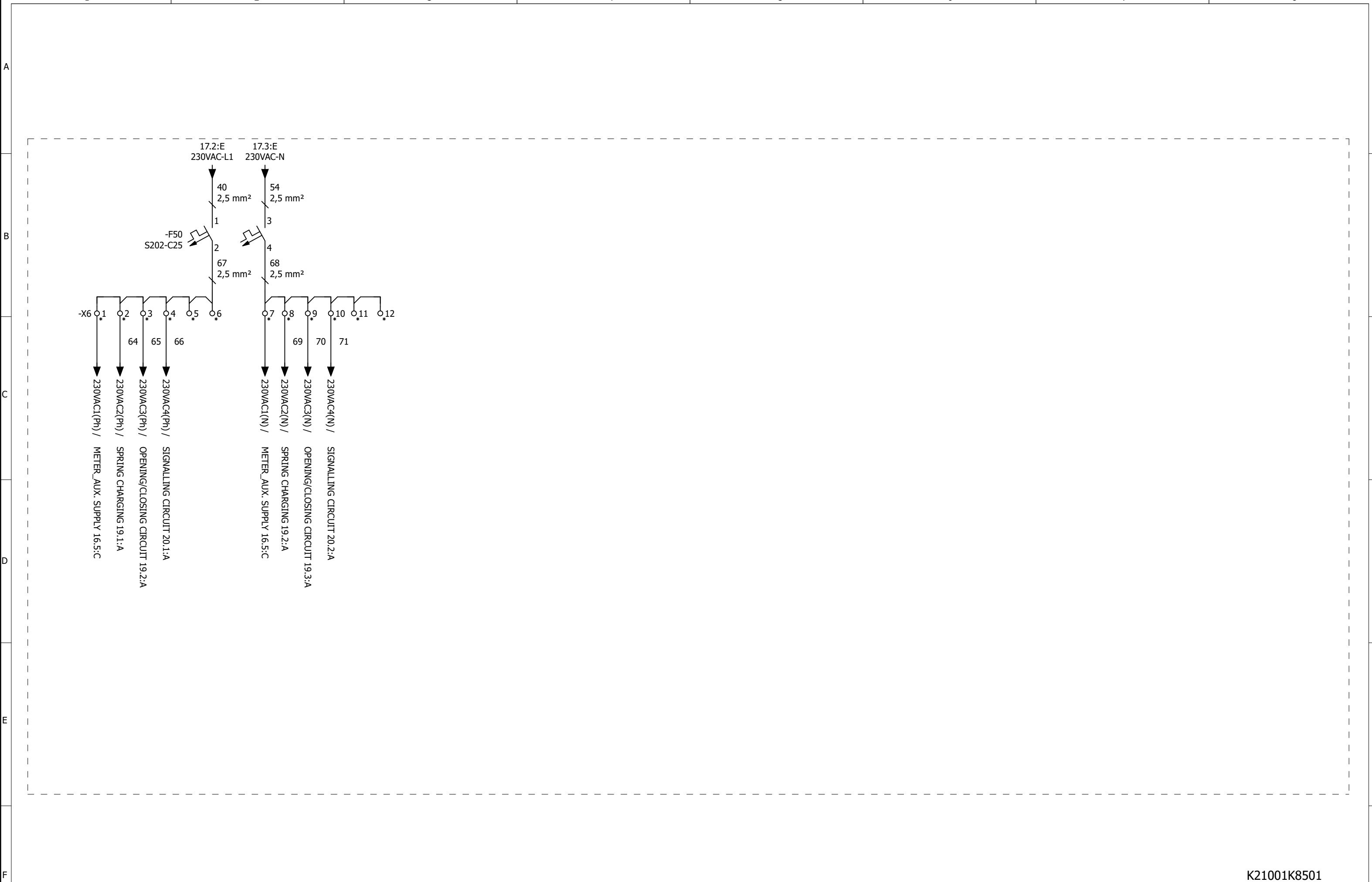
- 1 17.2:D
- 7 8 /17.2:D
- 21 22 /17.4:E
- R3 R4 /17.3:D
- R5 R6 /17.3:D



* Note: 1. 4-pole contactors fitted with 2 N.O. + 2 N.C. main poles
These contactors are suitable for controlling 2 separate circuits, i.e. 2 loads with 2 separate supplies, or 1 circuit comprising
2. 2 separate loads with a single supply (see diagrams below). When the contactor operates there is no mechanical overlapping between the N.O. poles and the N.C. poles: BREAK before MAKE

<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>Customer</div> <div>RMG COPPER JSC</div>		<div>End User</div> <div>RMG COPPER JSC</div>		<div>Project</div> <div>TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA</div>		<div>Title</div> <div>INCOMER_Emax 2_E2.2N_H_MS Type_3P_2000A</div>		<div>Drawing No.</div> <div>4TRD021001C9000</div>		<div>+8501</div> <div>SIZE</div> <div>A</div>	
<div>R3V1230.07.2021Last Revision Date</div>				<div>SCALE</div> <div>1</div>		<div>DESIGNED BY : VINEETHA</div>		<div></div>		<div></div>		<div>Project No.</div> <div>K21001</div>		<div>PAGE No.</div> <div>17</div>		<div></div>	
<div>R0V011.02.2021Creation Date</div>				<div>CHECKED BY : O.TOPAL</div>		<div>APPROVED BY : O.YILMAZ</div>		<div></div>		<div></div>		<div>CONT.</div> <div>18</div>		<div>REV.</div>			
<div>Rev. DateDescriptionSIGN</div>																	

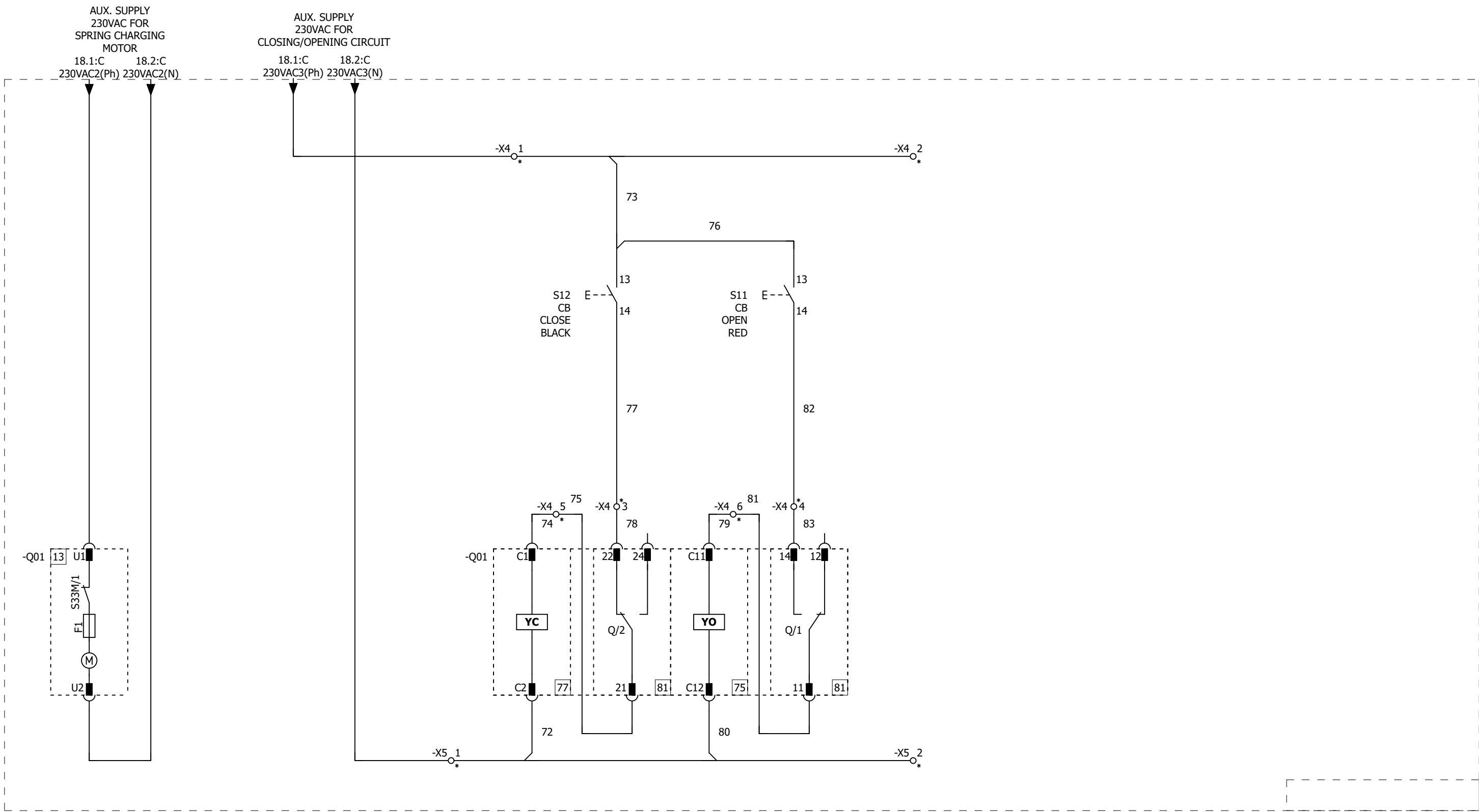
K21001K8501

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R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA																
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL																
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ																
1				2				3		4		5		6		7		8			9

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(#) REMOVE LINKS IF CONNECTED

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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"/>
R3V12	30.04.2021	Last Revision Date	
R0V0	11.02.2021	Creation Date	
Rev.	Date	Description	SIGN

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

Customer	RMG COPPER JSC
	


End User	RMG COPPER JSC
	

Project
TREL-DEU-RMG MOTOR CONTROL CENTRE
MNS-GEORGIA

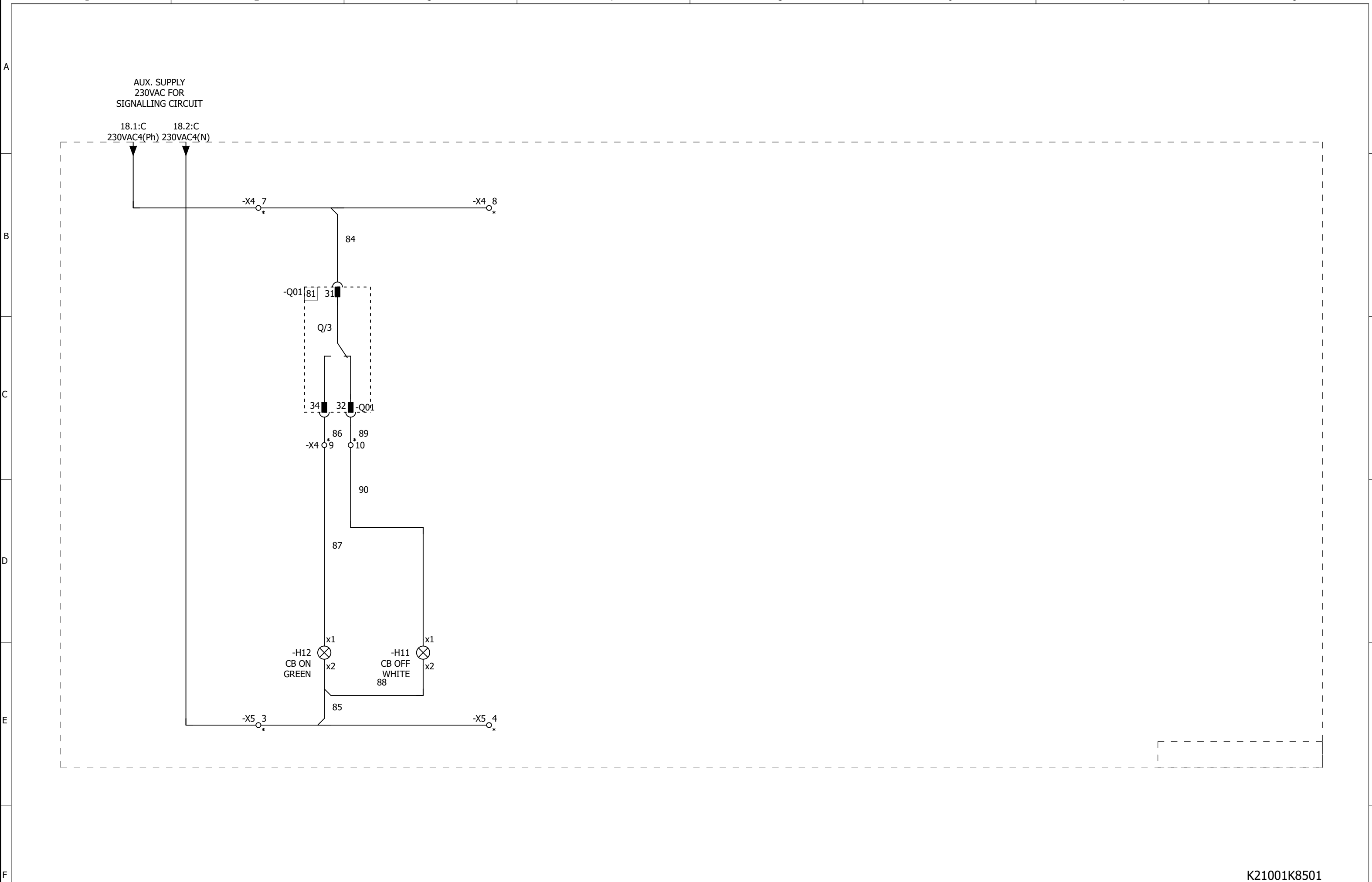
Title
INCOMER_Emax 2_E2.2N_H_MS Type_3P_2000A




Drawing No.
4TRD021001C9000

Project No.
K21001

+8501	SIZE	A3
PAGE No. 19		
CONT. 20	REV.	

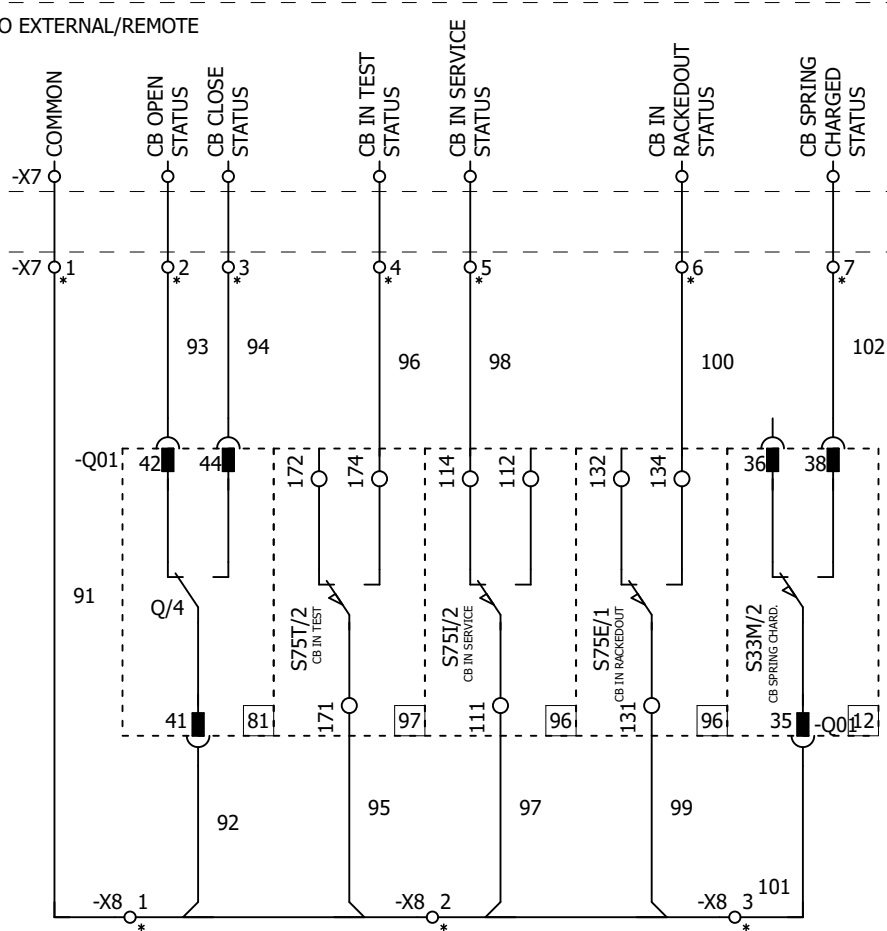
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For Approval <input type="checkbox"/> As Tested <input type="checkbox"/>				Approved For Construction <input checked="" type="checkbox"/> As Build <input type="checkbox"/>				Supplier ABB ELEKTRİK SAN. A.Ş.		Customer RMG COPPER JSC		End User RMG COPPER JSC		Project TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title INCOMER_Emax 2_E2.2N_H_MS Type_3P_2000A				Drawing No. 4TRD021001C9000		+8501	SIZE A3
R3V12	30.04.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA															PAGE No.	20		
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL																APPROVED BY: O.YILMAZ		
Rev.	Date	Description	SIGN																				
1				2				3		4		5		6		7		8		K21001		21	REV.

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TO EXTERNAL/REMOTE



K21001K8501

For Approval <input type="checkbox"/> As Tested		Approved For Construction <input checked="" type="checkbox"/> As Build	
R3V12	30.04.2021	Last Revision Date	
R0V0	11.02.2021	Creation Date	
Rev.	Date	Description	SIGN

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


Customer RMG COPPER JSC	
	

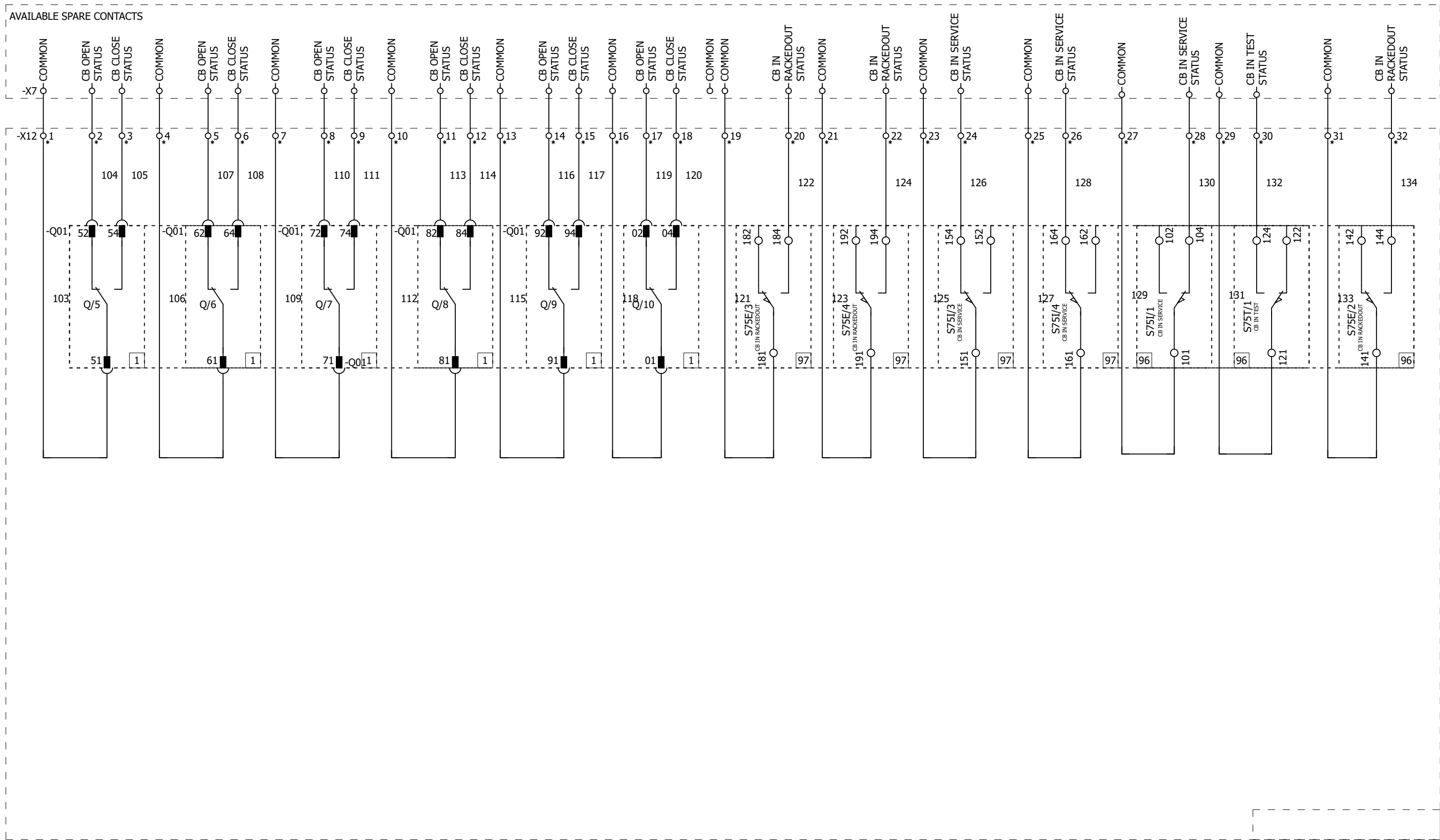
End User RMG COPPER JSC	
	

Project TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA	
--	--






Title INCOMER_Emax 2_E2.2N_H_MS Type_3P_2000A	
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Drawing No. 4TRD021001C9000	
Project No. K21001	

+8501	SIZE A3
PAGE No. 21	
CONT. 22	
REV.	



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<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>TRÉL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA</div>		<div>Title</div> <div>INCOMER_Emax 2_E2.2N_H_MS Type_3P_2000A</div>		<div>Drawing No.</div> <div>4TRD021001C9000</div>		<div>+8501</div>	<div>SIZE</div> <div>A3</div>
R3V12	30.04.2021	Last Revision Date		<div>SCALE</div> <div>10</div>	DESIGNED BY : VINEETHA			<div>Project No.</div> <div>K21001</div>	<div>PAGE No.</div> <div>23</div>	<div>REV.</div> <div></div>							
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL												
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	LV		-Q02:1	-XP:1			2.5***	BK	1		
5	LV		-Q02:5	-XP:2			2.5***	BK	2		
6	LV		-Q03:1	-XP:3			2.5***	BK	3		
7	LV		-Q03:5	-XP:4			2.5***	BK	4		
8	LV		-F41:1	-XP:5			2.5***	BK	5		
9	CT		-T1L1:s2	-X1:7	X		2,5	BK	6		
10	CT		-T1L1:s1	-X1:1	X		2,5	BK	7		
11	LV		-F42:1	-XP:6			2.5***	BK	8		
12	CT		-T1L2:s2	-X1:6	X		2,5	BK	9		
13	CT		-T1L2:s1	-X1:2	X		2,5	BK	10		
14	LV		-F43:1	-XP:7			2.5***	BK	11		
15	CT		-T1L3:s2	-X1:5	X		2,5	BK	12		
16	CT		-T1L3:s1	-X1:3	X		2,5	BK	13		
17		X	-X1:4	-XE:1			2,5	GNYE	14		
18			-X1:7	-X1:8	X		2,5	BK	15		
19	LV		-P49:1	-X1:1			2,5	BK	16		
20	LV		-P49:3	-X1:2			2,5	BK	17		
21	LV		-P49:5	-X1:3			2,5	BK	18		
22	LV		-F41:2	-P49:7		LV	2,5	BK	19		
23	LV		-F42:2	-P49:8		LV	2,5	BK	20		
24	LV		-F43:2	-P49:9		LV	2,5	BK	21		
25	LV		-P49:6	-X1:9	X		2,5	BK	22		
26	LV		-P49:4	-X1:10	X		2,5	BK	23		
27	LV		-P49:2	-X1:11	X		2,5	BK	24		
28	LV		-P49:11	-X6:1	X		1,5	BK	25		
29	LV		-P49:12	-X6:7	X		1,5	BK	26		
30	LV		-K701:1	-K701:A1		LV	2,5	BK	27		
31	LV		-K701:7	-K701:A2		LV	2,5	BK	28		
32	LV		-T61:0	-XE:2		LV	2,5	GNYE	29		
33	LV		-Q02:2	-Q02:3		LV	2,5	BK	30		
34	LV		-Q02:4	-T61:400V		LV	2,5	BK	31		
35	LV		-F56:1	-T61:230V		LV	2,5	BK	32		
36	LV		-F56:2	-K701:1		LV	2,5	BK	33		
37	LV		-K701:2	-K701:R4		LV	2,5	BK	34		
38	LV		-Q02:6	-T61:0		LV	2,5	BK	35		

* 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>TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA</div>		<div>Title</div> <div>Module Wire Connection List</div>		<div>Drawing No.</div> <div>4TRD021001C9000</div>		<div>+8501</div>		<div>SIZE</div> <div>A3</div>	
<div>R3V12 06.08.2021 Last Revision Date</div> <div>Rev. 11.02.2021 Creation Date</div> <div>Rev. Date Description SIGN</div>				<div>DESIGNED BY : VINEETHA</div> <div>CHECKED BY : O.TOPAL</div> <div>APPROVED BY : O.YILMAZ</div>								<div>Project No.</div> <div>K21001</div>		<div>PAGE No.</div> <div>24</div>		<div>REV.</div> <div>25</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
39	LV		-F56:3	-T61:0		LV	2,5	BK	36		
40	LV		-F56:4	-K701:7		LV	2,5	BK	37		
41	LV		-K701:8	-K701:R6		LV	2,5	BK	38		
42	LV		-F58:1	-X21:1			2,5	BK	39		
43	LV		-F50:1	-X21:2			2,5	BK	40		
44			-X21:3	-X22:1	X		2,5	BK	41		
45	LV		-T62:0	-XE:3		LV	2,5	GNYE	42		
46	LV		-Q03:2	-Q03:3		LV	2,5	BK	43		
47	LV		-Q03:4	-T62:400V		LV	2,5	BK	44		
48	LV		-F57:1	-T62:230V		LV	2,5	BK	45		
49	LV		-F57:2	-K701:R3		LV	2,5	BK	46		
50	LV		-K701:R4	-X21:5	X		2,5	BK	47		
51	LV		-K701:22	-X21:5			2,5	BK	48		
52	LV		-Q03:6	-T62:0		LV	2,5	BK	49		
53	LV		-F57:3	-T62:0		LV	2,5	BK	50		
54	LV		-F57:4	-K701:R5		LV	2,5	BK	51		
55	LV		-K701:R6	-X21:6	X		2,5	BK	52		
56	LV		-F58:3	-X21:6			2,5	BK	53		
57	LV		-F50:3	-X21:7			2,5	BK	54		
58			-X21:8	-X22:4	X		2,5	BK	55		
59	LVD		-H14:x2	-X21:10			2,5	BK	56		
60	LVD		-H14:x1	-K701:21		LV	2,5	BK	57		
61	LV		-F59:2	-U10:+			4	RD	58		
62	LV		-F58:2	-U10:L			2,5	RD	59		
63	LV		-F58:4	-U10:N			2,5	WH	60		
64	LV		-F59:4	-U10:-			4	WH	61		
65	LV		-F59:1	-X23:1	X		4	RD	62		
66	LV		-F59:3	-X23:7	X		4	WH	63		
67	CB		-Q01:U1	-X6:2	X		1,5	BK	64		
68			-X4:1	-X6:3	X		1,5	BK	65		
69			-X4:7	-X6:4	X		1,5	BK	66		
70	LV		-F50:2	-X6:6			2,5	BK	67		
71	LV		-F50:4	-X6:7			2,5	BK	68		
72	CB		-Q01:U2	-X6:8	X		1,5	BK	69		
73			-X5:1	-X6:9	X		1,5	BK	70		
74			-X5:3	-X6:10	X		1,5	BK	71		
75	CB		-Q01:C2	-X5:1	X		1,5	BK	72		
76	LVD		-S12:13	-X4:1	X		1,5	BK	73		

* 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.TOPAL</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>TREL-DEU-RMG MOTOR CONTROL CENTRE</div> <div>MNS-GEORGIA</div>		<div>Title</div> <div>Module Wire Connection List</div>		<div>Drawing No.</div> <div>4TRD021001C9000</div>		<div>+8501</div>		<div>SIZE</div> <div>A3</div>	
<div>R3V12 06.08.2021</div> <div>Last Revision Date</div>				<div>SCALE</div> <div>1</div>								<div>Project No.</div> <div>K21001</div>		<div>PAGE No.</div> <div>25</div>		<div>REV.</div> <div>26</div>			
<div>Rev.</div> <div>Date</div>				<div>Description</div> <div>SIGN</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	CB		-Q01:C1	-X4:5			1,5	BK	74		
78	CB		-Q01:21	-X4:5	X		1,5	BK	75		
79	LVD		-S11:13	-S12:13		LVD	1,5	BK	76		
80	LVD		-S12:14	-X4:3	X		1,5	BK	77		
81	CB		-Q01:22	-X4:3			1,5	BK	78		
82	CB		-Q01:C11	-X4:6			1,5	BK	79		
83	CB		-Q01:C12	-X5:2			1,5	BK	80		
84	CB		-Q01:11	-X4:6	X		1,5	BK	81		
85	LVD		-S11:14	-X4:4	X		1,5	BK	82		
86	CB		-Q01:14	-X4:4			1,5	BK	83		
87	CB		-Q01:31	-X4:7	X		1,5	BK	84		
88	LVD		-H12:x2	-X5:3	X		1,5	BK	85		
89	CB		-Q01:34	-X4:9	X		1,5	BK	86		
90	LVD		-H12:x1	-X4:9			1,5	BK	87		
91	LVD		-H11:x2	-H12:x2		LVD	1,5	BK	88		
92	CB		-Q01:32	-X4:10	X		1,5	BK	89		
93	LVD		-H11:x1	-X4:10			1,5	BK	90		
94		X	-X7:1	-X8:1			1,5	BK	91		
95	CB		-Q01:41	-X8:1	X		1,5	BK	92		
96	CB		-Q01:42	-X7:2	X		1,5	BK	93		
97	CB		-Q01:44	-X7:3	X		1,5	BK	94		
98	CB		-Q01:171	-X8:2			1,5	BK	95		
99	CB		-Q01:174	-X7:4	X		1,5	BK	96		
100	CB		-Q01:111	-X8:2	X		1,5	BK	97		
101	CB		-Q01:114	-X7:5	X		1,5	BK	98		
102	CB		-Q01:131	-X8:3			1,5	BK	99		
103	CB		-Q01:134	-X7:6	X		1,5	BK	100		
104	CB		-Q01:35	-X8:3	X		1,5	BK	101		
105	CB		-Q01:38	-X7:7	X		1,5	BK	102		
106	CB		-Q01:51	-X12:1	X		1,5	BK	103		
107	CB		-Q01:52	-X12:2	X		1,5	BK	104		
108	CB		-Q01:54	-X12:3	X		1,5	BK	105		
109	CB		-Q01:61	-X12:4	X		1,5	BK	106		
110	CB		-Q01:62	-X12:5	X		1,5	BK	107		
111	CB		-Q01:64	-X12:6	X		1,5	BK	108		
112	CB		-Q01:71	-X12:7	X		1,5	BK	109		
113	CB		-Q01:72	-X12:8	X		1,5	BK	110		
114	CB		-Q01:74	-X12:9	X		1,5	BK	111		



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

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1				2				3				4				5				6				7				8							

Module Wire List

[illegible]

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

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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Module Wire Connection List		Drawing No. 4TRD021001C9000		+8501 SIZE A3	
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA			Project No. K21001	PAGE No. 27 CONT. 28	REV.							
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL												
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ												

1
X
1

TOTAL TERMINALS COUNT: 11 PCS
 TERMINAL TYPE: Test disconnect terminal block - URTK/S

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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8501 SIZE A3	
R3V12 06.08.2021 Last Revision Date ROV0 11.02.2021 Creation Date Rev. Date Description SIGN				SCALE 1 DESIGNED BY : VINEETHA CHECKED BY : O.TOPAL APPROVED BY : O.YILMAZ								PAGE No. 28					
												Project No. K21001		CONT. 29 REV.			

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TERMINAL DIAGRAM

-X4

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR		POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
13	-S12	73 BK	●	65 BK	-X6	3	/19.3:B
			●				/19.5:B
14	-S12	77 BK	●	78 BK	-Q01	22	/19.4:D
14	-S11	82 BK	●	83 BK	-Q01	14	/19.5:D
21	-Q01	75 BK	●	74 BK	-Q01	C1	/19.4:D
11	-Q01	81 BK	●	79 BK	-Q01	C11	/19.4:D
31	-Q01	84 BK	●	66 BK	-X6	4	/20.2:B
			●				/20.3:B
34	-Q01	86 BK	●	87 BK	-H12	X1	/20.2:C
32	-Q01	89 BK	●	90 BK	-H11	X1	/20.3:C




TOTAL TERMINALS COUNT: 10 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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8501	SIZE A3	
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA									Project No. K21001		PAGE No.	29	
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL											CONT.	30	
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ													

5X-

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
C2	-Q01	72 BK	1 ●	-X6	9	/19.3:E
			2 ●	-Q01	C12	/19.5:E
x2	-H12	85 BK	3 ●	-X6	10	/20.2:E
			4 ●			/20.3:E

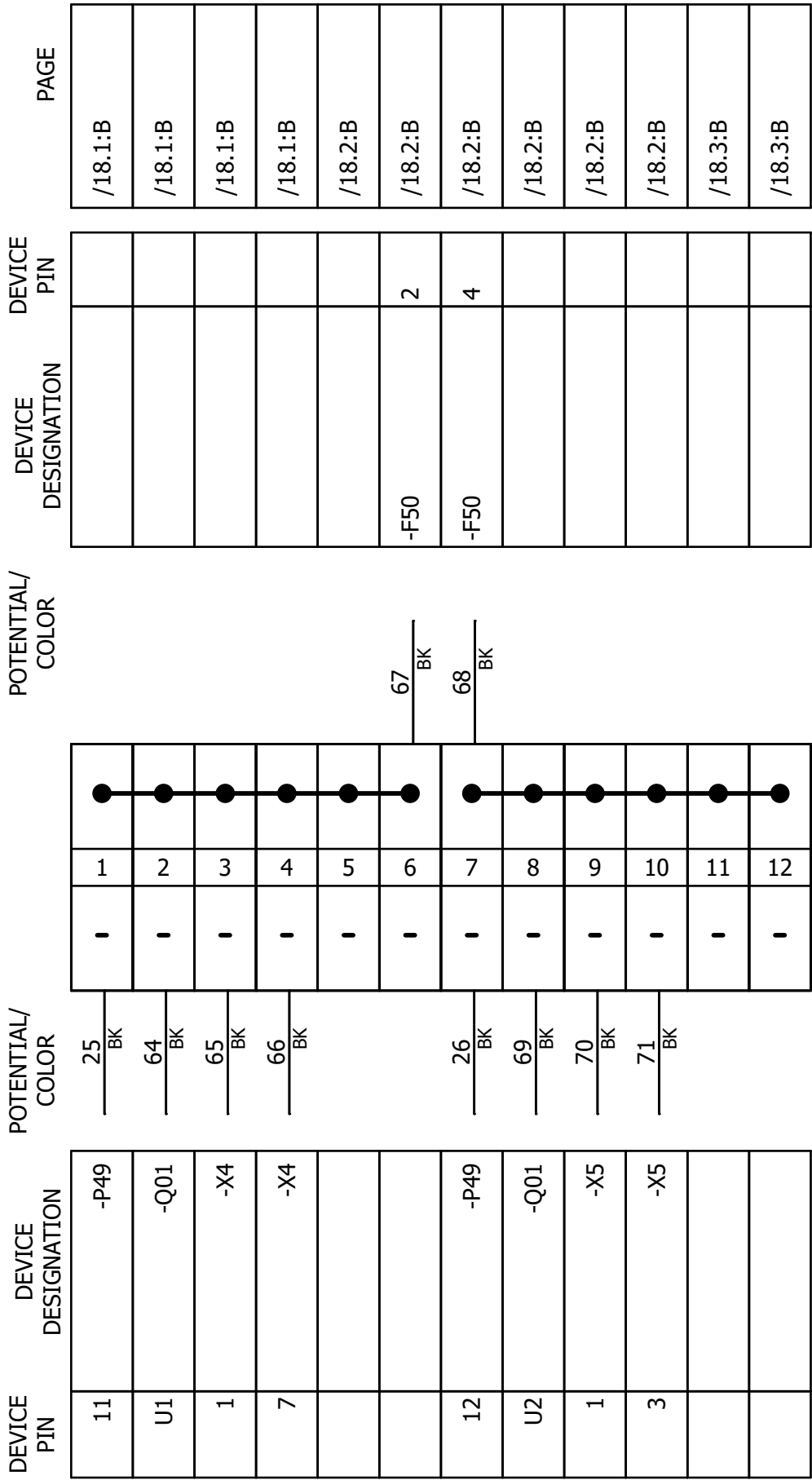
TOTAL TERMINALS COUNT: 4 PCS
TERMINAL TYPE: Feed-through terminal block - PT 2,5

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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8501 SIZE A3	
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA							Project No. K21001		PAGE No. 30			
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL									CONT. 31			REV.
Rev.	Date	Description	SIGN											APPROVED BY : O.YILMAZ			

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TERMINAL DIAGRAM

-X6



TOTAL TERMINALS COUNT: 12 PCS
TERMINAL TYPE: Feed-through terminal block - PT 2,5

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TERMINAL DIAGRAM

-X7

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	1	2	3	4	5	6	7	8
1	-X8	91 BK	•	1	•						/21.1:A
42	-Q01	93 BK	•	2	•						/21.1:A
44	-Q01	94 BK	•	3	•						/21.2:A
174	-Q01	96 BK	•	4	•						/21.2:A
114	-Q01	98 BK	•	5	•						/21.2:A
134	-Q01	100 BK	•	6	•						/21.3:A
38	-Q01	102 BK	•	7	•						/21.3:A

TOTAL TERMINALS COUNT: 7 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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8501		SIZE A3									
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA													PAGE No. 32													
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL														CONT. 33		REV.										
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ																										
1				2				3				4						5					6				7				8

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TERMINAL DIAGRAM
















-X8

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
41	-Q01	92 BK	1 ●	-X7	1	/21.1:C
111	-Q01	97 BK	2 ●	-Q01	171	/21.2:C
35	-Q01	101 BK	3 ●	-Q01	131	/21.3:C




TOTAL TERMINALS COUNT: 3 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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8501	SIZE A3
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA														PAGE No.	33	
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL																
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ															CONT.	34

TERMINAL DIAGRAM
X10

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
15	-P49	 BU	 1	 -		/16.6:A
			 2	 -		/16.6:A
14	-P49	 WH	 3	 -		/16.6:A
			 4	 -		/16.6:A
16	-P49	 SH	 5	 -		/16.6:A
			 6	 -		/16.6:A

TOTAL TERMINALS COUNT: 6 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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8501 SIZE A3	
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA							Project No. K21001		PAGE No. 34			
R0V0	11.02.2021	Creation Date	CHECKED BY : O.TOPAL		CONT. 35									REV.			
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ												

-X12

TOTAL TERMINALS COUNT: 32 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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8501 SIZE A3	
R3V12 06.08.2021 Last Revision Date ROV0 11.02.2021 Creation Date Rev. Date Description SIGN				SCALE 1 DESIGNED BY : VINEETHA CHECKED BY : O.TOPAL APPROVED BY : O.YILMAZ								Project No. K21001		PAGE No. 35 CONT. 36		 REV.	

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TERMINAL DIAGRAM

-X21

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	1	2	3	4	5	6	7	8	9	10	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
			●	●	●	●	●	●	●	●	●	●	39 BK		1	/17.2:E
													40 BK		1	/17.2:E
													41 BK		1	/17.2:E
																/17.2:E
R4	-K701	47 BK	●										48 BK	-K701	22	/17.3:E
R6	-K701	52 BK	●										53 BK	-F58	3	/17.3:E
			●										54 BK	-F50	3	/17.3:E
			●										55 BK	-X22	4	/17.3:E
			●													/17.3:E
			●										56 BK	-H14	x2	/17.4:E

TOTAL TERMINALS COUNT: 10 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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8501		SIZE A3													
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA													Project No. K21001		PAGE No. 36			REV.												
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Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ																CONT. 37														

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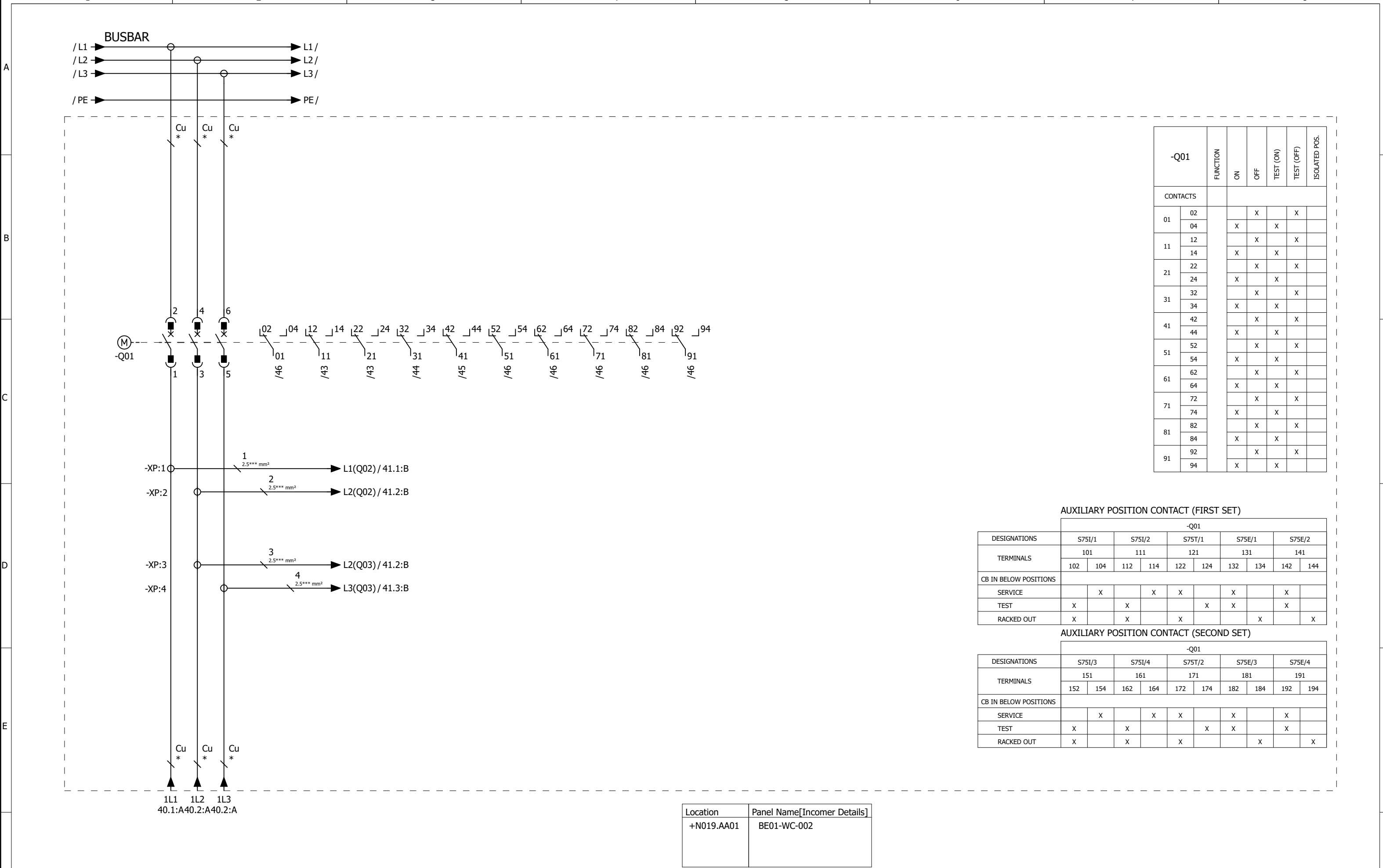
1		2		3		4		5		6		7		8	
A		B		C		D		E		F		A		B	

-X23

TOTAL TERMINALS COUNT: 12 PCS
TERMINAL TYPE: Feed-through terminal block - PT 4

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R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA							Project No. K21001		PAGE No. 38			
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL									REV.			
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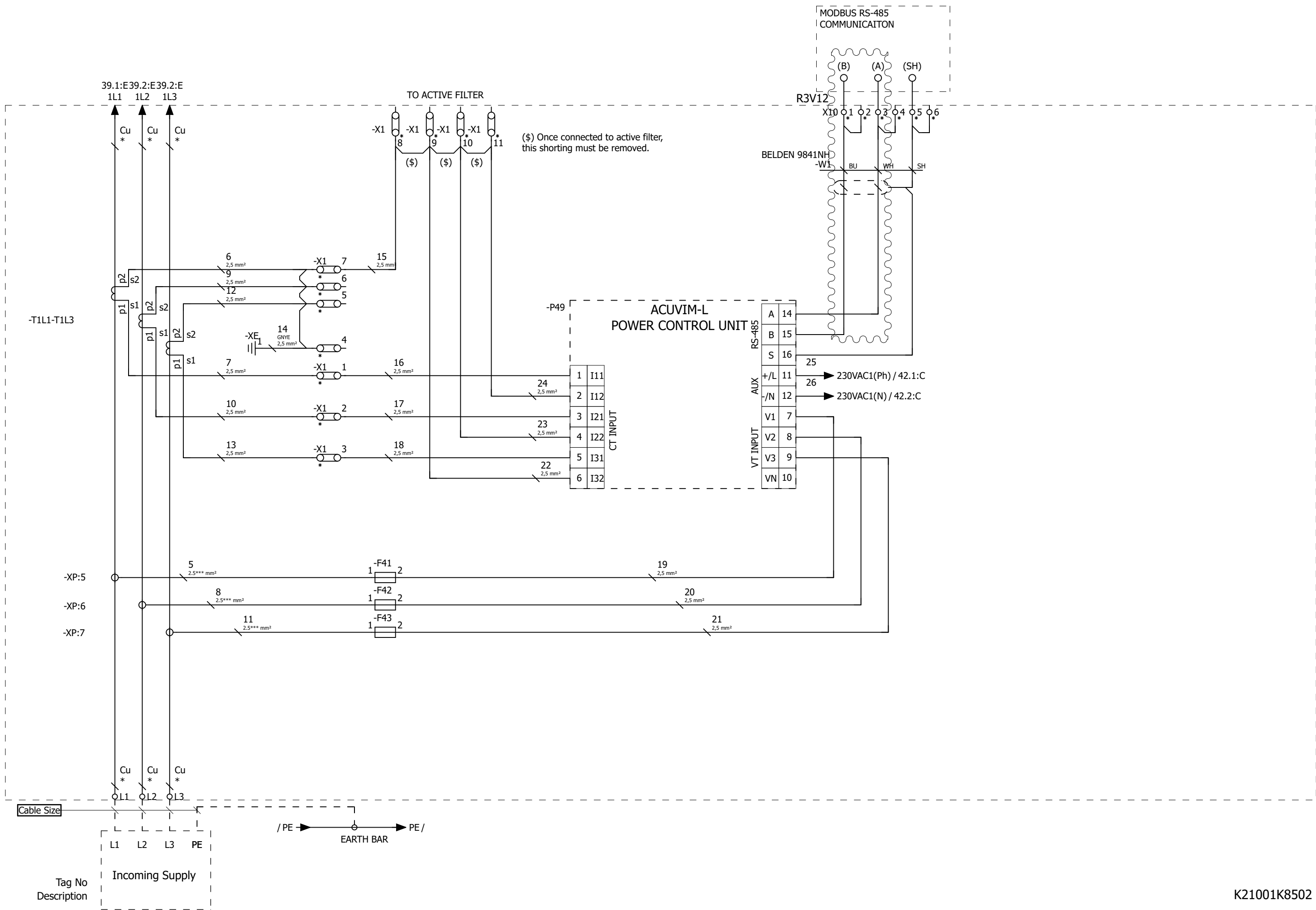


-Q01		FUNCTION	ON	OFF	TEST (ON)	TEST (OFF)	ISOLATED POS.
CONTACTS							
01	02			X		X	
	04	X			X		
11	12			X		X	
	14	X			X		
21	22			X		X	
	24	X			X		
31	32			X		X	
	34	X			X		
41	42			X		X	
	44	X			X		
51	52			X		X	
	54	X			X		
61	62			X		X	
	64	X			X		
71	72			X		X	
	74	X			X		
81	82			X		X	
	84	X			X		
91	92			X		X	
	94	X			X		

AUXILIARY POSITION CONTACT (FIRST SET)										
-Q01										
DESIGNATIONS	S75I/1		S75I/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

AUXILIARY POSITION CONTACT (SECOND SET)										
-Q01										
DESIGNATIONS	S75I/3		S75I/4		S75T/2		S75E/3		S75E/4	
TERMINALS	151		161		171		181		191	
	152	154	162	164	172	174	182	184	192	194
CB IN BELOW POSITIONS										
SERVICE		X		X	X		X		X	
TEST	X		X			X	X		X	
RACKED OUT	X		X		X			X		X

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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"/>
R3V12	06.08.2021	Last Revision Date	
R0V0	11.02.2021	Creation Date	
Rev.	Date	Description	SIGN

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

Customer	RMG COPPER JSC
End User	RMG COPPER JSC
Project	TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA

Supplier	ABB ELEKTRİK SAN. A.Ş.
Customer	RMG COPPER JSC
End User	RMG COPPER JSC
Project	TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA

Supplier	ABB ELEKTRİK SAN. A.Ş.
Customer	RMG COPPER JSC
End User	RMG COPPER JSC
Project	TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA

Supplier	ABB ELEKTRİK SAN. A.Ş.
Customer	RMG COPPER JSC
End User	RMG COPPER JSC
Project	TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA

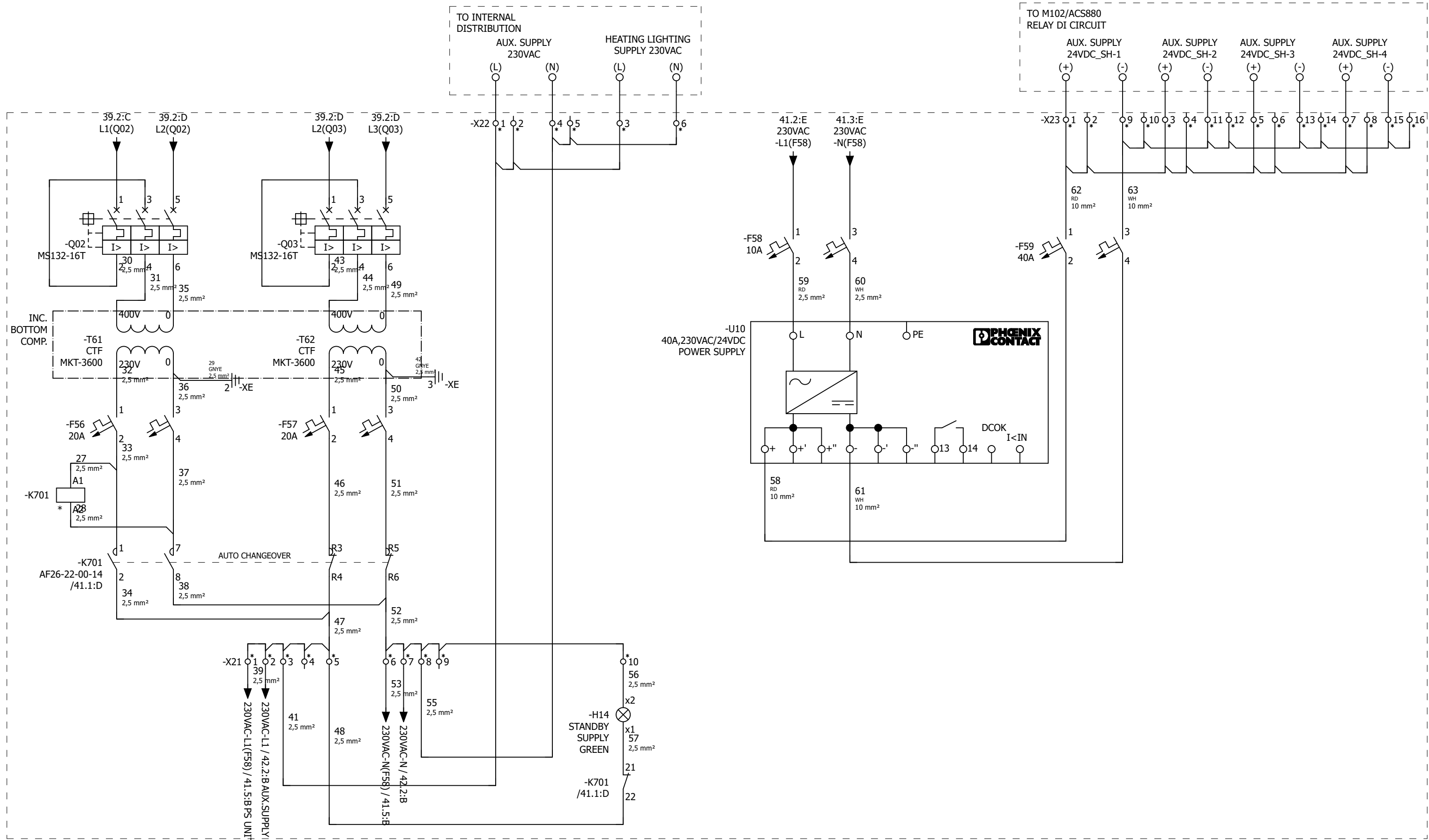
Supplier	ABB ELEKTRİK SAN. A.Ş.
Customer	RMG COPPER JSC
End User	RMG COPPER JSC
Project	TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA

Supplier	ABB ELEKTRİK SAN. A.Ş.
Customer	RMG COPPER JSC
End User	RMG COPPER JSC
Project	TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA

Supplier	ABB ELEKTRİK SAN. A.Ş.
Customer	RMG COPPER JSC
End User	RMG COPPER JSC
Project	TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA




K21001K8502

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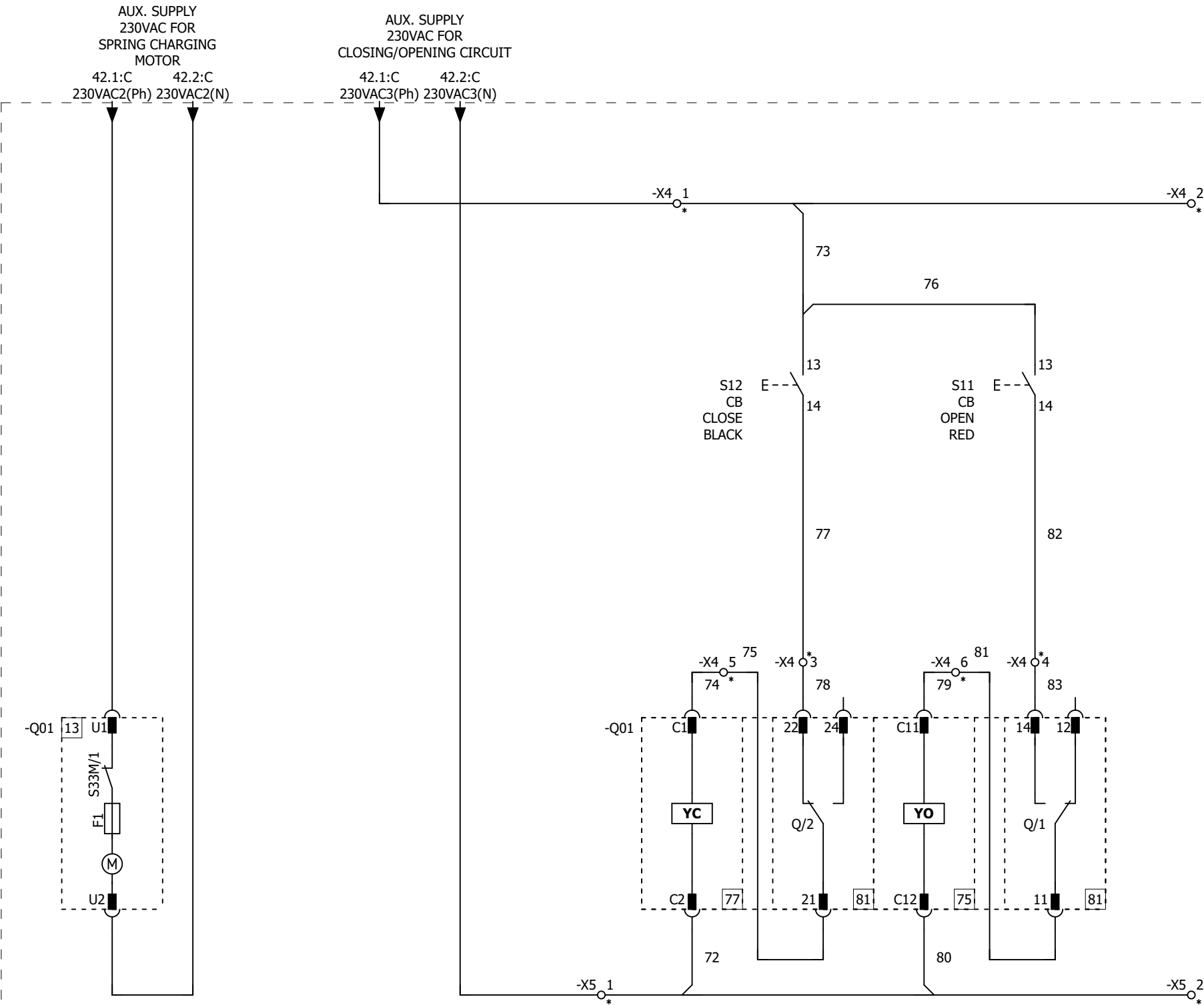


* Note: 1. 4-pole contactors fitted with 2 N.O. + 2 N.C. main poles
These contactors are suitable for controlling 2 separate circuits, i.e. 2 loads with 2 separate supplies, or 1 circuit comprising 2. 2 separate loads with a single supply (see diagrams below). When the contactor operates there is no mechanical overlapping between the N.O. poles and the N.C. poles: BREAK before MAKE

K21001K8502

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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title INCOMER_Emax 2_E2.2N_H_MS Type_3P_2000A		Drawing No. 4TRD021001C9000		+8502		SIZE A3									
R3V12		30.07.2021		Last Revision Date				SCALE 1		DESIGNED BY : VINEETHA								Project No. K21001		PAGE No.		41									
R0V0		11.02.2021		Creation Date						CHECKED BY : O.TOPAL										CONT.		42				REV.					
Rev.		Date		Description		SIGN				APPROVED BY : O.YILMAZ																					
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(#) REMOVE LINKS IF CONNECTED

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As Tested	<input type="checkbox"/>	As Build	<input type="checkbox"/>
R3V12	30.04.2021	Last Revision Date	
R0V0	11.02.2021	Creation Date	
Rev.	Date	Description	SIGN

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

Customer	RMG COPPER JSC
RMG	RICH METALS GROUP

End User	RMG COPPER JSC
RMG	RICH METALS GROUP

Project	TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA
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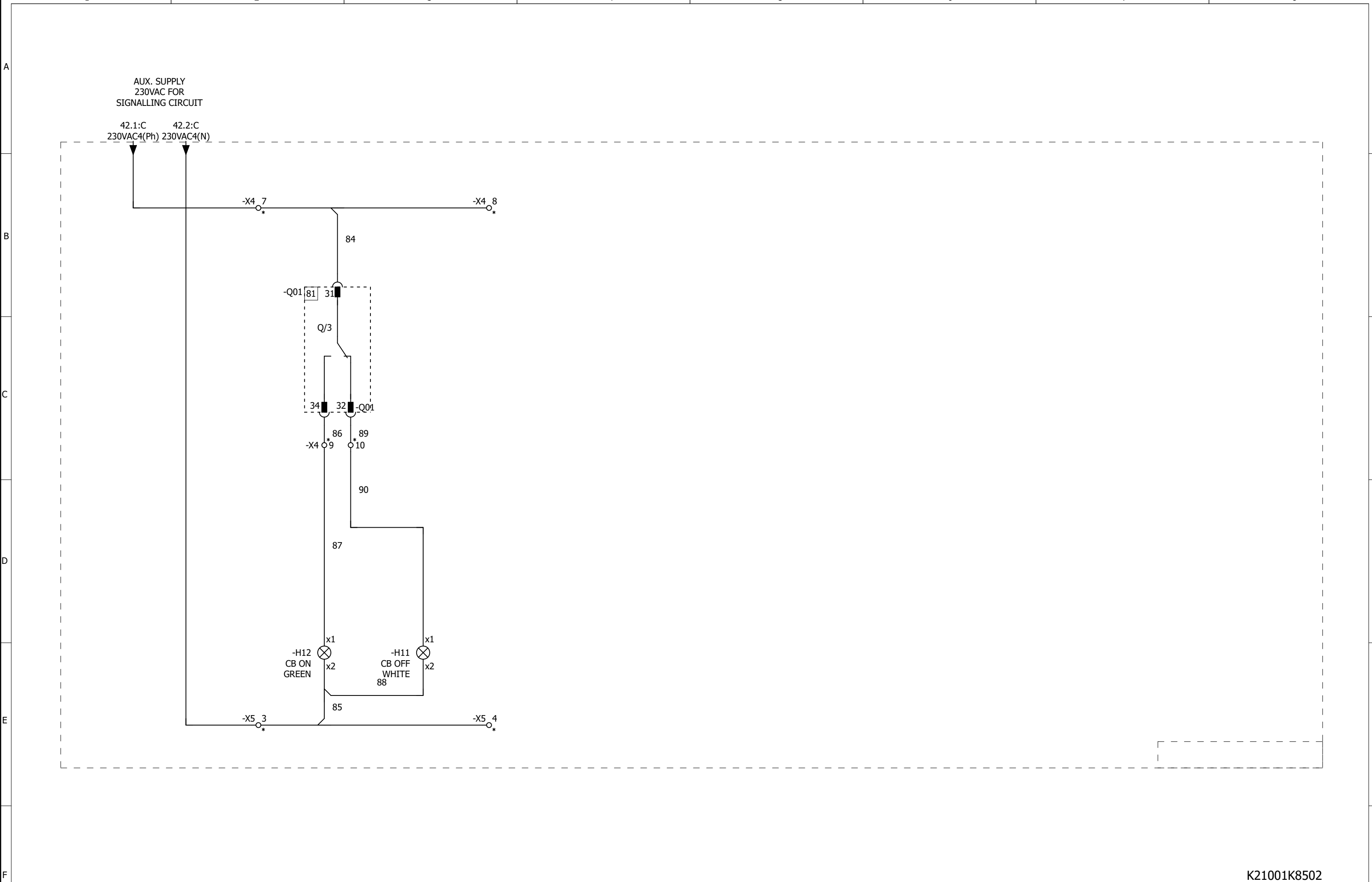
Title	INCOMER_Emax 2_E2.2N_H_MS Type_3P_2000A
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Drawing No.	4TRD021001C9000
Project No.	K21001

+8502	SIZE	A3
PAGE No.	43	
CONT.	44	REV.

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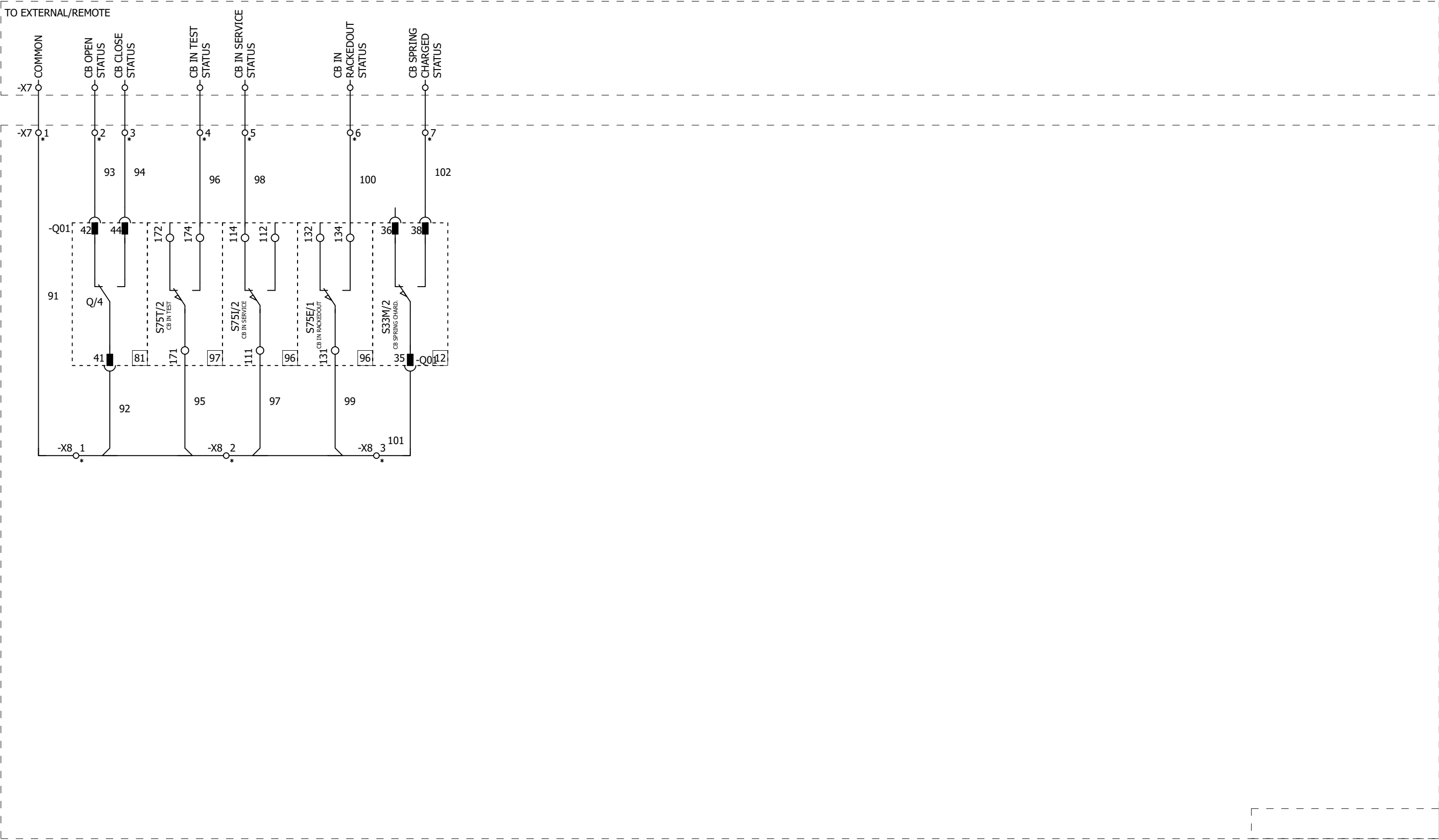
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R3V12	30.04.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA									Project No. K21001		PAGE No.	44	
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL											CONT.	45	REV.
Rev.	Date	Description	SIGN		APPROVED BY: O.YILMAZ													
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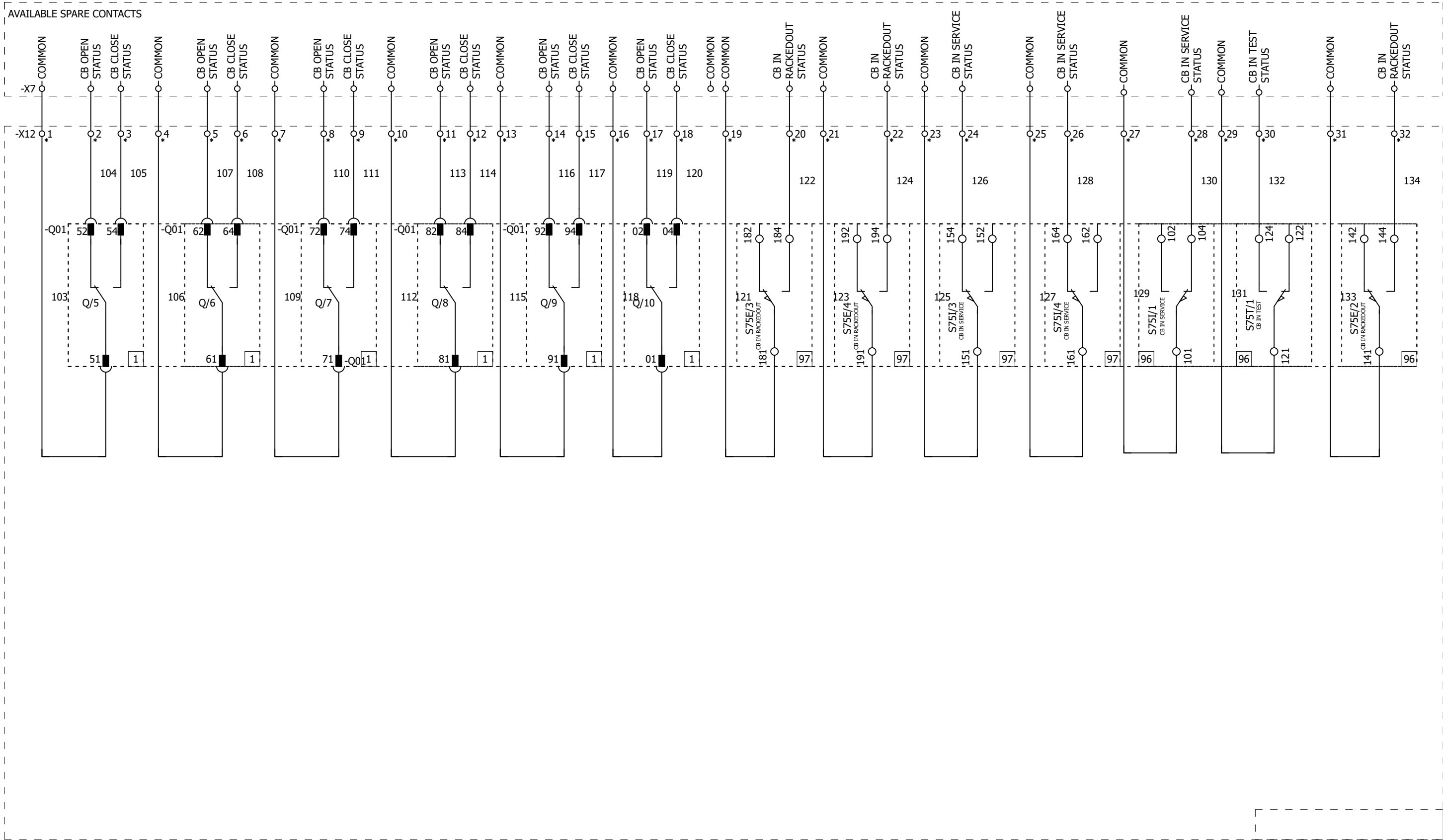


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R3V12	30.04.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA									Project No. K21001	PAGE No.	45	
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL										CONT.	46	
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ												





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<div>AVAILABLE SPARE CONTACTS</div> <table><tr><td>COMMON</td><td>CB OPEN STATUS</td><td>CB CLOSE STATUS</td><td>COMMON</td><td>CB OPEN STATUS</td><td>CB CLOSE STATUS</td><td>COMMON</td><td>CB OPEN STATUS</td><td>CB CLOSE STATUS</td><td>COMMON</td><td>CB OPEN STATUS</td><td>CB CLOSE STATUS</td><td>COMMON</td><td>CB OPEN STATUS</td><td>CB CLOSE STATUS</td><td>COMMON</td><td>COMMON</td><td>COMMON</td><td>CB IN RACKED OUT STATUS</td><td>COMMON</td><td>CB IN RACKED OUT STATUS</td><td>COMMON</td><td>CB IN SERVICE STATUS</td><td>COMMON</td><td>CB IN SERVICE STATUS</td><td>COMMON</td><td>CB IN SERVICE STATUS</td><td>COMMON</td><td>CB IN TEST STATUS</td><td>COMMON</td><td>CB IN RACKED OUT STATUS</td></tr><tr><td>-X7</td><td>*2</td><td>*3</td><td>*4</td><td>*5</td><td>*6</td><td>*7</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>*16</td><td>*17</td><td>*18</td><td>*19</td><td>*20</td><td>*21</td><td>*22</td><td>*23</td><td>*24</td><td>*25</td><td>*26</td><td>*27</td><td>*28</td><td>*29</td><td>*30</td><td>*31</td><td>*32</td></tr><tr><td></td><td>104</td><td>105</td><td></td><td>107</td><td>108</td><td></td><td>110</td><td>111</td><td></td><td>113</td><td>114</td><td></td><td>116</td><td>117</td><td></td><td>119</td><td>120</td><td></td><td>122</td><td></td><td>124</td><td></td><td>126</td><td></td><td>128</td><td></td><td>130</td><td>132</td><td></td><td>134</td></tr><tr><td>-Q01</td><td>52</td><td>54</td><td></td><td>62</td><td>64</td><td></td><td>72</td><td>74</td><td></td><td>82</td><td>84</td><td></td><td>92</td><td>94</td><td></td><td>02</td><td>04</td><td></td><td>182</td><td>184</td><td></td><td>192</td><td>194</td><td></td><td>154</td><td>152</td><td></td><td>164</td><td>162</td><td></td><td>102</td><td>104</td><td></td><td>124</td><td>122</td><td></td><td>142</td><td>144</td></tr><tr><td>103</td><td>Q/5</td><td></td><td></td><td>106</td><td>Q/6</td><td></td><td>109</td><td>Q/7</td><td></td><td>112</td><td>Q/8</td><td></td><td>115</td><td>Q/9</td><td></td><td>118</td><td>Q/10</td><td></td><td>S75E/3 CB IN RACKED OUT</td><td></td><td>S75E/4 CB IN RACKED OUT</td><td></td><td>S75I/3 CB IN SERVICE</td><td></td><td>S75I/4 CB IN SERVICE</td><td></td><td>S75I/1 CB IN SERVICE</td><td></td><td>S75T/1 CB IN TEST</td><td></td><td>S75E/2 CB IN RACKED OUT</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>51</td><td></td><td></td><td>1</td><td>61</td><td></td><td>1</td><td>71</td><td></td><td>1</td><td>81</td><td></td><td>1</td><td>91</td><td></td><td>1</td><td>01</td><td></td><td>1</td><td>181</td><td></td><td>97</td><td>191</td><td></td><td>97</td><td>151</td><td></td><td>97</td><td>161</td><td></td><td>97</td><td>96</td><td>101</td><td></td><td>96</td><td>121</td><td></td><td>96</td><td>141</td><td></td><td>96</td></tr></table>										COMMON	CB OPEN STATUS	CB CLOSE STATUS	COMMON	CB OPEN STATUS	CB CLOSE STATUS	COMMON	CB OPEN STATUS	CB CLOSE STATUS	COMMON	CB OPEN STATUS	CB CLOSE STATUS	COMMON	CB OPEN STATUS	CB CLOSE STATUS	COMMON	COMMON	COMMON	CB IN RACKED OUT STATUS	COMMON	CB IN RACKED OUT STATUS	COMMON	CB IN SERVICE STATUS	COMMON	CB IN SERVICE STATUS	COMMON	CB IN SERVICE STATUS	COMMON	CB IN TEST STATUS	COMMON	CB IN RACKED OUT STATUS	-X7	*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		104	105		107	108		110	111		113	114		116	117		119	120		122		124		126		128		130	132		134	-Q01	52	54		62	64		72	74		82	84		92	94		02	04		182	184		192	194		154	152		164	162		102	104		124	122		142	144	103	Q/5			106	Q/6		109	Q/7		112	Q/8		115	Q/9		118	Q/10		S75E/3 CB IN RACKED OUT		S75E/4 CB IN RACKED OUT		S75I/3 CB IN SERVICE		S75I/4 CB IN SERVICE		S75I/1 CB IN SERVICE		S75T/1 CB IN TEST		S75E/2 CB IN RACKED OUT						51			1	61		1	71		1	81		1	91		1	01		1	181		97	191		97	151		97	161		97	96	101		96	121		96	141		96
COMMON	CB OPEN STATUS	CB CLOSE STATUS	COMMON	CB OPEN STATUS	CB CLOSE STATUS	COMMON	CB OPEN STATUS	CB CLOSE STATUS	COMMON	CB OPEN STATUS	CB CLOSE STATUS	COMMON	CB OPEN STATUS	CB CLOSE STATUS	COMMON	COMMON	COMMON	CB IN RACKED OUT STATUS	COMMON	CB IN RACKED OUT STATUS	COMMON	CB IN SERVICE STATUS	COMMON	CB IN SERVICE STATUS	COMMON	CB IN SERVICE STATUS	COMMON	CB IN TEST STATUS	COMMON	CB IN RACKED OUT STATUS																																																																																																																																																																																														
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Last Cable Number: 134

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<div>For Approval <input type="checkbox"/></div> <div>As Tested <input type="checkbox"/></div>				<div>Approved For Construction <input checked="" type="checkbox"/></div> <div>As Build <input type="checkbox"/></div>				<div>Supplier</div> <div>ABB ELEKTRİK SAN. A.Ş.</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>TREL-DEU-RMG MOTOR CONTROL CENTRE</div> <div>MNS-GEORGIA</div>				<div>Title</div> <div>INCOMER_Emax 2_E2.2N_H_MS Type_3P_2000A</div>				<div>Drawing No.</div> <div>4TRD021001C9000</div>				<div>+8502</div>		<div>SIZE</div> <div>A3</div>			
R3V12		30.04.2021		Last Revision Date				<div>SCALE</div> <div>1</div>		DESIGNED BY : VINEETHA				<div></div>																							
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<input type="checkbox"/> For Approval <input type="checkbox"/> As Tested				<input checked="" type="checkbox"/> Approved For Construction <input type="checkbox"/> As Build				Supplier ABB ELEKTRİK SAN. A.Ş.				Customer RMG COPPER JSC				End User RMG COPPER JSC				Project TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA				Title INCOMER_Emax 2_E2.2N_H_MS Type_3P_2000A				Drawing No. 4TRD021001C9000				+8502		SIZE A3	
R3V12 30.04.2021				Last Revision Date				SCALE 10				DESIGNED BY : VINEETHA																				PAGE No. 47		REV.	
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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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title INCOMER_Emax 2_E2.2N_H_MS Type_3P_2000A		Drawing No. 4TRD021001C9000		+8502 SIZE A3	
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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		-F56:3	-T61:0		LV	1,5	BK			
2	LV		-F57:3	-T62:0		LV	1,5	BK			
3	LV		-P49:16	-X10:5	X		W1**	SH			
4	LV		-P49:15	-X10:1	X		W1 **	BU			
5	LV		-P49:14	-X10:3	X		W1 **	WH			
6	LV		-Q02:1	-XP:1			2.5***	BK	1		
7	LV		-Q02:5	-XP:2			2.5***	BK	2		
8	LV		-Q03:1	-XP:3			2.5***	BK	3		
9	LV		-Q03:5	-XP:4			2.5***	BK	4		
10	LV		-F41:1	-XP:5			2.5***	BK	5		
11	CT		-T1L1:s2	-X1:7	X		2,5	BK	6		
12	CT		-T1L1:s1	-X1:1	X		2,5	BK	7		
13	LV		-F42:1	-XP:6			2.5***	BK	8		
14	CT		-T1L2:s2	-X1:6	X		2,5	BK	9		
15	CT		-T1L2:s1	-X1:2	X		2,5	BK	10		
16	LV		-F43:1	-XP:7			2.5***	BK	11		
17	CT		-T1L3:s2	-X1:5	X		2,5	BK	12		
18	CT		-T1L3:s1	-X1:3	X		2,5	BK	13		
19		X	-X1:4	-XE:1			2,5	GNYE	14		
20			-X1:7	-X1:8	X		2,5	BK	15		
21	LV		-P49:1	-X1:1			2,5	BK	16		
22	LV		-P49:3	-X1:2			2,5	BK	17		
23	LV		-P49:5	-X1:3			2,5	BK	18		
24	LV		-F41:2	-P49:7		LV	2,5	BK	19		
25	LV		-F42:2	-P49:8		LV	2,5	BK	20		
26	LV		-F43:2	-P49:9		LV	2,5	BK	21		
27	LV		-P49:6	-X1:9	X		2,5	BK	22		
28	LV		-P49:4	-X1:10	X		2,5	BK	23		
29	LV		-P49:2	-X1:11	X		2,5	BK	24		
30	LV		-P49:11	-X6:1	X		1,5	BK	25		
31	LV		-P49:12	-X6:7	X		1,5	BK	26		
32	LV		-K701:1	-K701:A1		LV	2,5	BK	27		
33	LV		-K701:7	-K701:A2		LV	2,5	BK	28		
34	LV		-T61:0	-XE:2		LV	2,5	GNYE	29		
35	LV		-Q02:2	-Q02:3		LV	2,5	BK	30		
36	LV		-Q02:4	-T61:400V		LV	2,5	BK	31		
37	LV		-F56:1	-T61:230V		LV	2,5	BK	32		
38	LV		-F56:2	-K701:1		LV	2,5	BK	33		

* 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.TOPAL</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>TREL-DEU-RMG MOTOR CONTROL CENTRE</div> <div>MNS-GEORGIA</div>		<div>Title</div> <div>Module Wire Connection List</div>		<div>Drawing No.</div> <div>4TRD021001C9000</div>		<div>+8502</div>		<div>SIZE</div> <div>A3</div>	
<div>R3V12 06.08.2021</div> <div>Last Revision Date</div>				<div>SCALE</div> <div>1</div>								<div>Project No.</div> <div>K21001</div>		<div>PAGE No.</div> <div>48</div>		<div>REV.</div> <div>49</div>			
<div>Rev.</div> <div>Date</div> <div>Description</div> <div>SIGN</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	LV		-K701:2	-K701:R4		LV	2,5	BK	34		
40	LV		-Q02:6	-T61:0		LV	2,5	BK	35		
41	LV		-F56:4	-K701:7		LV	2,5	BK	37		
42	LV		-K701:8	-K701:R6		LV	2,5	BK	38		
43	LV		-F58:1	-X21:1			2,5	BK	39		
44	LV		-F50:1	-X21:2			2,5	BK	40		
45			-X21:3	-X22:1	X		2,5	BK	41		
46	LV		-T62:0	-XE:3		LV	2,5	GNYE	42		
47	LV		-Q03:2	-Q03:3		LV	2,5	BK	43		
48	LV		-Q03:4	-T62:400V		LV	2,5	BK	44		
49	LV		-F57:1	-T62:230V		LV	2,5	BK	45		
50	LV		-F57:2	-K701:R3		LV	2,5	BK	46		
51	LV		-K701:R4	-X21:5	X		2,5	BK	47		
52	LV		-K701:22	-X21:5			2,5	BK	48		
53	LV		-Q03:6	-T62:0		LV	2,5	BK	49		
54	LV		-F57:4	-K701:R5		LV	2,5	BK	51		
55	LV		-K701:R6	-X21:6	X		2,5	BK	52		
56	LV		-F58:3	-X21:6			2,5	BK	53		
57	LV		-F50:3	-X21:7			2,5	BK	54		
58			-X21:8	-X22:4	X		2,5	BK	55		
59	LVD		-H14:x2	-X21:10			2,5	BK	56		
60	LVD		-H14:x1	-K701:21		LV	2,5	BK	57		
61	LV		-F59:2	-U10:+			10	RD	58		
62	LV		-F58:2	-U10:L			2,5	RD	59		
63	LV		-F58:4	-U10:N			2,5	WH	60		
64	LV		-F59:4	-U10:-			10	WH	61		
65	LV		-F59:1	-X23:1	X		10	RD	62		
66	LV		-F59:3	-X23:9	X		10	WH	63		
67	CB		-Q01:U1	-X6:2	X		1,5	BK	64		
68			-X4:1	-X6:3	X		1,5	BK	65		
69			-X4:7	-X6:4	X		1,5	BK	66		
70	LV		-F50:2	-X6:6			2,5	BK	67		
71	LV		-F50:4	-X6:7			2,5	BK	68		
72	CB		-Q01:U2	-X6:8	X		1,5	BK	69		
73			-X5:1	-X6:9	X		1,5	BK	70		
74			-X5:3	-X6:10	X		1,5	BK	71		
75	CB		-Q01:C2	-X5:1	X		1,5	BK	72		
76	LVD		-S12:13	-X4:1	X		1,5	BK	73		

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

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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	CB		-Q01:C1	-X4:5			1,5	BK	74		
78	CB		-Q01:21	-X4:5	X		1,5	BK	75		
79	LVD		-S11:13	-S12:13		LVD	1,5	BK	76		
80	LVD		-S12:14	-X4:3	X		1,5	BK	77		
81	CB		-Q01:22	-X4:3			1,5	BK	78		
82	CB		-Q01:C11	-X4:6			1,5	BK	79		
83	CB		-Q01:C12	-X5:2			1,5	BK	80		
84	CB		-Q01:11	-X4:6	X		1,5	BK	81		
85	LVD		-S11:14	-X4:4	X		1,5	BK	82		
86	CB		-Q01:14	-X4:4			1,5	BK	83		
87	CB		-Q01:31	-X4:7	X		1,5	BK	84		
88	LVD		-H12:x2	-X5:3	X		1,5	BK	85		
89	CB		-Q01:34	-X4:9	X		1,5	BK	86		
90	LVD		-H12:x1	-X4:9			1,5	BK	87		
91	LVD		-H11:x2	-H12:x2		LVD	1,5	BK	88		
92	CB		-Q01:32	-X4:10	X		1,5	BK	89		
93	LVD		-H11:x1	-X4:10			1,5	BK	90		
94		X	-X7:1	-X8:1			1,5	BK	91		
95	CB		-Q01:41	-X8:1	X		1,5	BK	92		
96	CB		-Q01:42	-X7:2	X		1,5	BK	93		
97	CB		-Q01:44	-X7:3	X		1,5	BK	94		
98	CB		-Q01:171	-X8:2			1,5	BK	95		
99	CB		-Q01:174	-X7:4	X		1,5	BK	96		
100	CB		-Q01:111	-X8:2	X		1,5	BK	97		
101	CB		-Q01:114	-X7:5	X		1,5	BK	98		
102	CB		-Q01:131	-X8:3			1,5	BK	99		
103	CB		-Q01:134	-X7:6	X		1,5	BK	100		
104	CB		-Q01:35	-X8:3	X		1,5	BK	101		
105	CB		-Q01:38	-X7:7	X		1,5	BK	102		
106	CB		-Q01:51	-X12:1	X		1,5	BK	103		
107	CB		-Q01:52	-X12:2	X		1,5	BK	104		
108	CB		-Q01:54	-X12:3	X		1,5	BK	105		
109	CB		-Q01:61	-X12:4	X		1,5	BK	106		
110	CB		-Q01:62	-X12:5	X		1,5	BK	107		
111	CB		-Q01:64	-X12:6	X		1,5	BK	108		
112	CB		-Q01:71	-X12:7	X		1,5	BK	109		
113	CB		-Q01:72	-X12:8	X		1,5	BK	110		
114	CB		-Q01:74	-X12:9	X		1,5	BK	111		

* 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.TOPAL</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>TREL-DEU-RMG MOTOR CONTROL CENTRE</div> <div>MNS-GEORGIA</div>		<div>Title</div> <div>Module Wire Connection List</div>		<div>Drawing No.</div> <div>4TRD021001C9000</div>		<div>+8502</div>		<div>SIZE</div> <div>A3</div>	
<div>R3V12 06.08.2021 Last Revision Date</div> <div>Rev. Date Creation Date</div> <div>11.02.2021 Description SIGN</div>				<div>SCALE</div> <div>1</div>								<div>Project No.</div> <div>K21001</div>		<div>PAGE No.</div> <div>50</div>		<div>REV.</div> <div>51</div>			
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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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Module Wire Connection List		Drawing No. 4TRD021001C9000		+8502 SIZE A3	
R3V12 06.08.2021 Last Revision Date ROV0 11.02.2021 Creation Date Rev. Date Description SIGN				SCALE 1 DESIGNED BY : VINEETHA CHECKED BY : O.TOPAL APPROVED BY : O.YILMAZ								Project No. K21001		PAGE No. 51 CONT. 52		 REV.	

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TERMINAL DIAGRAM

-X1

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
s1	-T1L1	7 BK	1 •	1 •	-P49	/40.3:C
s1	-T1L2	10 BK	2 •	2 •	-P49	/40.3:C
s1	-T1L3	13 BK	3 •	3 •	-P49	/40.3:C
1	-XE	14 GNYE	4 •	4 •		/40.3:C
s2	-T1L3	12 BK	5 •	5 •		/40.3:B
s2	-T1L2	9 BK	6 •	6 •		/40.3:B
s2	-T1L1	6 BK	7 •	7 •	-X1	/40.3:B
7	-X1	15 BK	8 •	8 •		/40.3:A
6	-P49	22 BK	9 •	9 •		/40.3:A
4	-P49	23 BK	10 •	10 •		/40.3:A
2	-P49	24 BK	11 •	11 •		/40.4:A




TOTAL TERMINALS COUNT: 11 PCS
TERMINAL TYPE: Test disconnect terminal block - URTK/S

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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8502	SIZE A3
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA									Project No. K21001	PAGE No.	52	
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL											CONT.	
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ											53	REV.

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A										B										C										D										E										F																																																								
<div>TERMINAL DIAGRAM</div> <div>-X4</div> <table><thead><tr><th>DEVICE PIN</th><th>DEVICE DESIGNATION</th><th>POTENTIAL/COLOR</th><th>POTENTIAL/COLOR</th><th>DEVICE DESIGNATION</th><th>DEVICE PIN</th><th>PAGE</th></tr></thead><tbody><tr><td>13</td><td>-S12</td><td>73 BK</td><td>1</td><td>-X6</td><td>3</td><td>/43.3:B</td></tr><tr><td></td><td></td><td></td><td>2</td><td></td><td></td><td>/43.5:B</td></tr><tr><td>14</td><td>-S12</td><td>77 BK</td><td>3</td><td>-Q01</td><td>22</td><td>/43.4:D</td></tr><tr><td>14</td><td>-S11</td><td>82 BK</td><td>4</td><td>-Q01</td><td>14</td><td>/43.5:D</td></tr><tr><td>21</td><td>-Q01</td><td>75 BK</td><td>5</td><td>-Q01</td><td>C1</td><td>/43.4:D</td></tr><tr><td>11</td><td>-Q01</td><td>81 BK</td><td>6</td><td>-Q01</td><td>C11</td><td>/43.4:D</td></tr><tr><td>31</td><td>-Q01</td><td>84 BK</td><td>7</td><td>-X6</td><td>4</td><td>/44.2:B</td></tr><tr><td></td><td></td><td></td><td>8</td><td></td><td></td><td>/44.3:B</td></tr><tr><td>34</td><td>-Q01</td><td>86 BK</td><td>9</td><td>-H12</td><td>x1</td><td>/44.2:C</td></tr><tr><td>32</td><td>-Q01</td><td>89 BK</td><td>10</td><td>-H11</td><td>x1</td><td>/44.3:C</td></tr></tbody></table>										DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/COLOR	POTENTIAL/COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE	13	-S12	73 BK	1	-X6	3	/43.3:B				2			/43.5:B	14	-S12	77 BK	3	-Q01	22	/43.4:D	14	-S11	82 BK	4	-Q01	14	/43.5:D	21	-Q01	75 BK	5	-Q01	C1	/43.4:D	11	-Q01	81 BK	6	-Q01	C11	/43.4:D	31	-Q01	84 BK	7	-X6	4	/44.2:B				8			/44.3:B	34	-Q01	86 BK	9	-H12	x1	/44.2:C	32	-Q01	89 BK	10	-H11	x1	/44.3:C	TOTAL TERMINALS COUNT: 10 PCS										TERMINAL TYPE: Feed-through terminal block - PT 2,5									
										DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/COLOR	POTENTIAL/COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE																																																																																										
										13	-S12	73 BK	1	-X6	3	/43.3:B																																																																																										
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										14	-S12	77 BK	3	-Q01	22	/43.4:D																																																																																										
										14	-S11	82 BK	4	-Q01	14	/43.5:D																																																																																										
										21	-Q01	75 BK	5	-Q01	C1	/43.4:D																																																																																										
										11	-Q01	81 BK	6	-Q01	C11	/43.4:D																																																																																										
										31	-Q01	84 BK	7	-X6	4	/44.2:B																																																																																										
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34	-Q01	86 BK	9	-H12	x1	/44.2:C																																																																																																				
32	-Q01	89 BK	10	-H11	x1	/44.3:C																																																																																																				
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TOTAL TERMINALS COUNT: 10 PCS
TERMINAL TYPE: Feed-through terminal block - PT 2,5

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R3V12 06.08.2021 Last Revision Date ROV0 11.02.2021 Creation Date Rev. Date Description SIGN				SCALE 1 DESIGNED BY : VINEETHA CHECKED BY : O.TOPAL APPROVED BY : O.YILMAZ						Project No. K21001		PAGE No. 53 CONT. 54		 REV.			

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A

B

C

D

E




F

TERMINAL DIAGRAM

-X5

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
C2	-Q01	72 BK	1 •	-X6	9	/43.3:E
			2 •	-Q01	C12	/43.5:E
x2	-H12	85 BK	3 •	-X6	10	/44.2:E
			4 •			/44.3:E

TOTAL TERMINALS COUNT: 4 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>				<div>Supplier</div> <div><div>ABB</div><div>ELEKTRİK SAN. A.Ş.</div></div>		<div>Customer</div> <div>RMG COPPER JSC</div>		<div>End User</div> <div>RMG COPPER JSC</div>		<div>Project</div> <div>TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA</div>		<div>Title</div> <div>Terminal Connection Diagram</div>		<div>Drawing No.</div> <div>4TRD021001C9000</div>		<div>+8502</div>		<div>SIZE</div> <div>A3</div>	
R3V12	06.08.2021	Last Revision Date		<div>SCALE</div> <div>1</div>	DESIGNED BY : VINEETHA	<div></div>	<div></div>						<div>Project No.</div> <div>K21001</div>	<div>PAGE No.</div> <div>54</div>		<div></div>			
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL									<div>CONT.</div> <div>55</div>		<div>REV.</div>			
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ														

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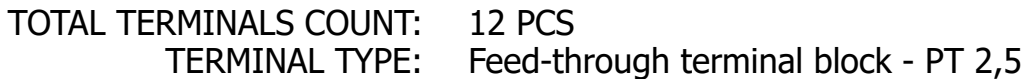
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For Approval <input type="checkbox"/> Approved For Construction <input checked="" type="checkbox"/> As Tested <input type="checkbox"/> As Build <input type="checkbox"/>				Supplier ABB ELEKTRİK SAN. A.Ş.		Customer RMG COPPER JSC		End User RMG COPPER JSC		Project TRÉL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8502		SIZE A3	
R3V12 06.08.2021 Last Revision Date R0V0 11.02.2021 Creation Date Rev. Date Description SIGN				SCALE 1		DESIGNED BY : VINEETHA CHECKED BY : O.TOPAL APPROVED BY : O.YILMAZ						Project No. K21001		PAGE No. 55					
												CONT. 56		REV.					

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

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R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA								Project No. K21001		CONT. 57		REV.		
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL														
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ														

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DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
41	-Q01	92 BK	91 BK	-X7	1	/45.1:C
111	-Q01	97 BK	95 BK	-Q01	171	/45.2:C
35	-Q01	101 BK	99 BK	-Q01	131	/45.3:C

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

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R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA												
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL												
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ												
					Project No. K21001												
					PAGE No. 57 CONT. 58 REV.												

TERMINAL DIAGRAM
X10

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
15	-P49	 BU	1	-		/40.6:A
			2	-		/40.6:A
14	-P49	 WH	3	-		/40.6:A
			4	-		/40.6:A
16	-P49	 SH	5	-		/40.6:A
			6	-		/40.6: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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8502		SIZE A3			
R3V12 06.08.2021 Last Revision Date ROV0 11.02.2021 Creation Date Rev. Date Description SIGN				SCALE 1		DESIGNED BY : VINEETHA CHECKED BY : O.TOPAL APPROVED BY : O.YILMAZ						Project No. K21001		PAGE No. 58				CONT. 59		REV.	

-X12

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TERMINAL DIAGRAM

-X21

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	1	2	3	4	5	6	7	8	9	10	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
			●	●	●	●	●	●	●	●	●	●	39 BK		1	/41.2:E
				●									40 BK		1	/41.2:E
				●									41 BK		1	/41.2:E
				●												/41.2:E
R4	-K701	47 BK	●											-K701	22	/41.2:E
R6	-K701	52 BK	●											-F58	3	/41.3:E
			●											-F50	3	/41.3:E
			●											-X22	4	/41.3:E
			●													/41.3:E
			●										56 BK	-H14	x2	/41.4:E

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

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TERMINAL DIAGRAM

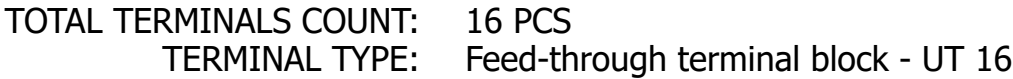
-X22

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
3	-X21	41 BK	1			/41.3:A
			2			/41.3:A
			3			/41.4:A
8	-X21	55 BK	4			/41.4:A
			5			/41.4:A
			6			/41.4:A

TOTAL TERMINALS COUNT: 6 PCS
TERMINAL TYPE: Feed-through terminal block - PT 4

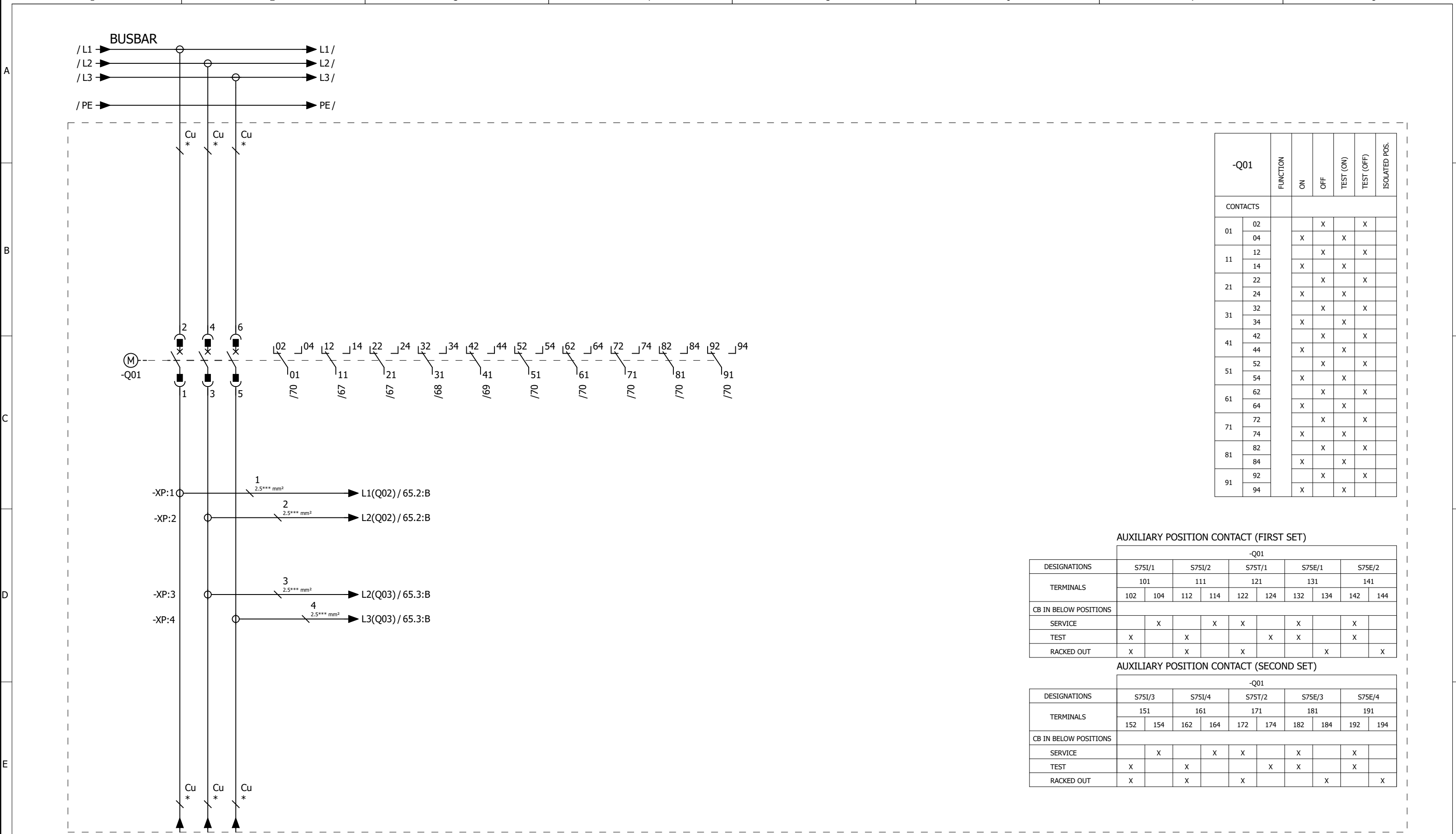
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R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA														PAGE No. 61				
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL														CONT. 62				
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ														REV.				

-X23



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R3V12 06.08.2021 Last Revision Date ROV0 11.02.2021 Creation Date Rev. Date Description SIGN				SCALE 1 DESIGNED BY : VINEETHA CHECKED BY : O.TOPAL APPROVED BY : O.YILMAZ						Project No. K21001		PAGE No. 62 CONT. +8503/63 REV.					

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-Q01		FUNCTION	ON	OFF	TEST (ON)	TEST (OFF)	ISOLATED POS.
CONTACTS							
01	02		X			X	
	04	X			X		
11	12		X			X	
	14	X			X		
21	22		X			X	
	24	X			X		
31	32		X			X	
	34	X			X		
41	42		X			X	
	44	X			X		
51	52		X			X	
	54	X			X		
61	62		X			X	
	64	X			X		
71	72		X			X	
	74	X			X		
81	82		X			X	
	84	X			X		
91	92		X			X	
	94	X			X		




AUXILIARY POSITION CONTACT (FIRST SET)

		-Q01									
DESIGNATIONS		S75I/1		S75I/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

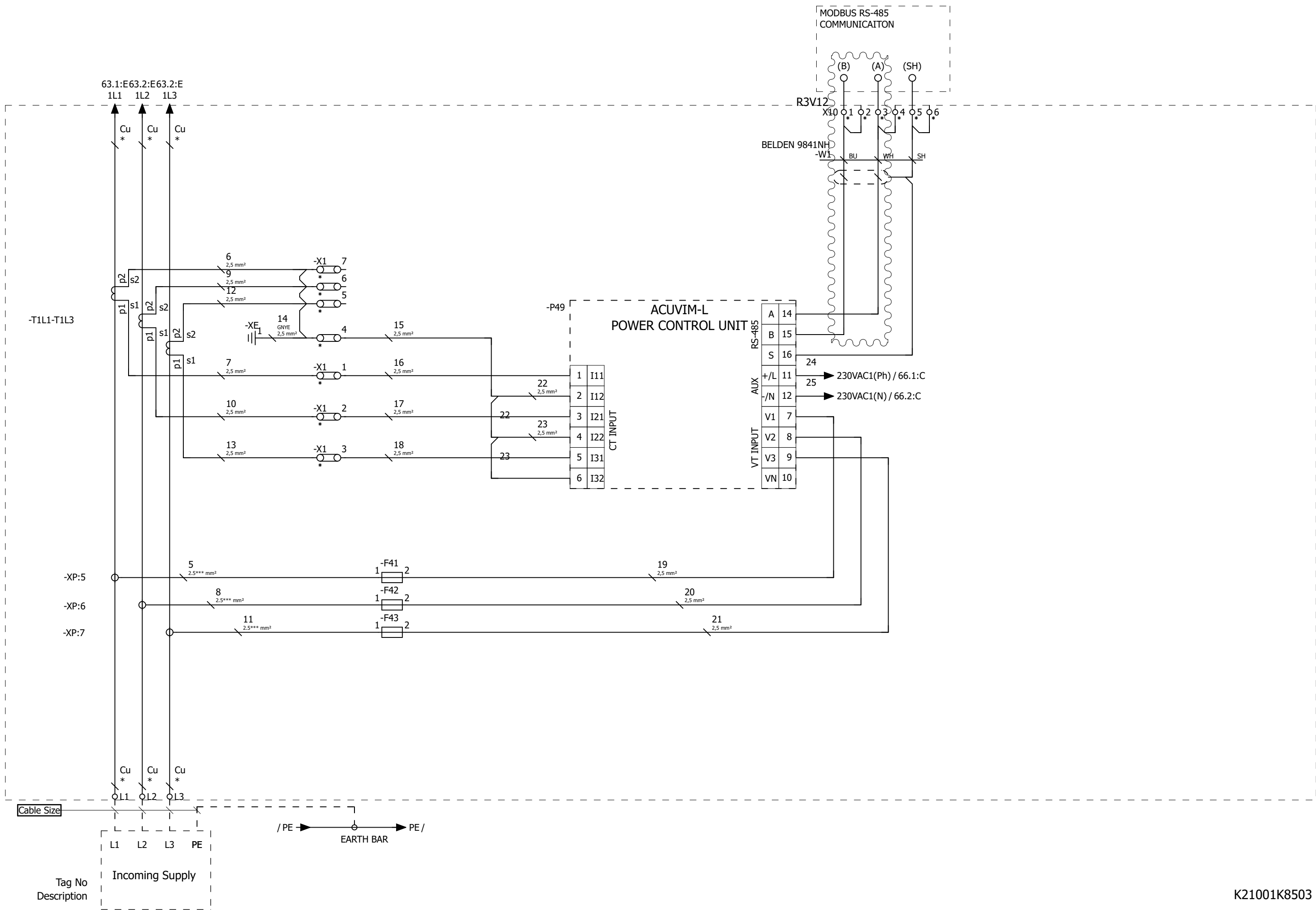
AUXILIARY POSITION CONTACT (SECOND SET)

		-Q01									
DESIGNATIONS		S75I/3		S75I/4		S75T/2		S75E/3		S75E/4	
TERMINALS		151		161		171		181		191	
		152	154	162	164	172	174	182	184	192	194
CB IN BELOW POSITIONS											
SERVICE			X		X	X		X		X	
TEST		X		X			X	X		X	
RACKED OUT		X		X		X			X		X

Location	Panel Name[Incomer Details]
+N004.AA01	BE01-WC-003

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R3V12	19.05.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA										Project No. K21001		PAGE No.	63		REV.
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL												CONT.	64		
Rev.	Date	Description	SIGN		APPROVED BY: O.YILMAZ															
1				2		3		4		5		6		7		8		K21001K8503		

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R3V12	06.08.2021	Last Revision Date	
R0V0	11.02.2021	Creation Date	
Rev.	Date	Description	SIGN

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

Customer	RMG COPPER JSC
End User	RMG COPPER JSC
Project	TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA

Supplier	ABB ELEKTRİK SAN. A.Ş.
Customer	RMG COPPER JSC
End User	RMG COPPER JSC
Project	TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA

Supplier	ABB ELEKTRİK SAN. A.Ş.
Customer	RMG COPPER JSC
End User	RMG COPPER JSC
Project	TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA

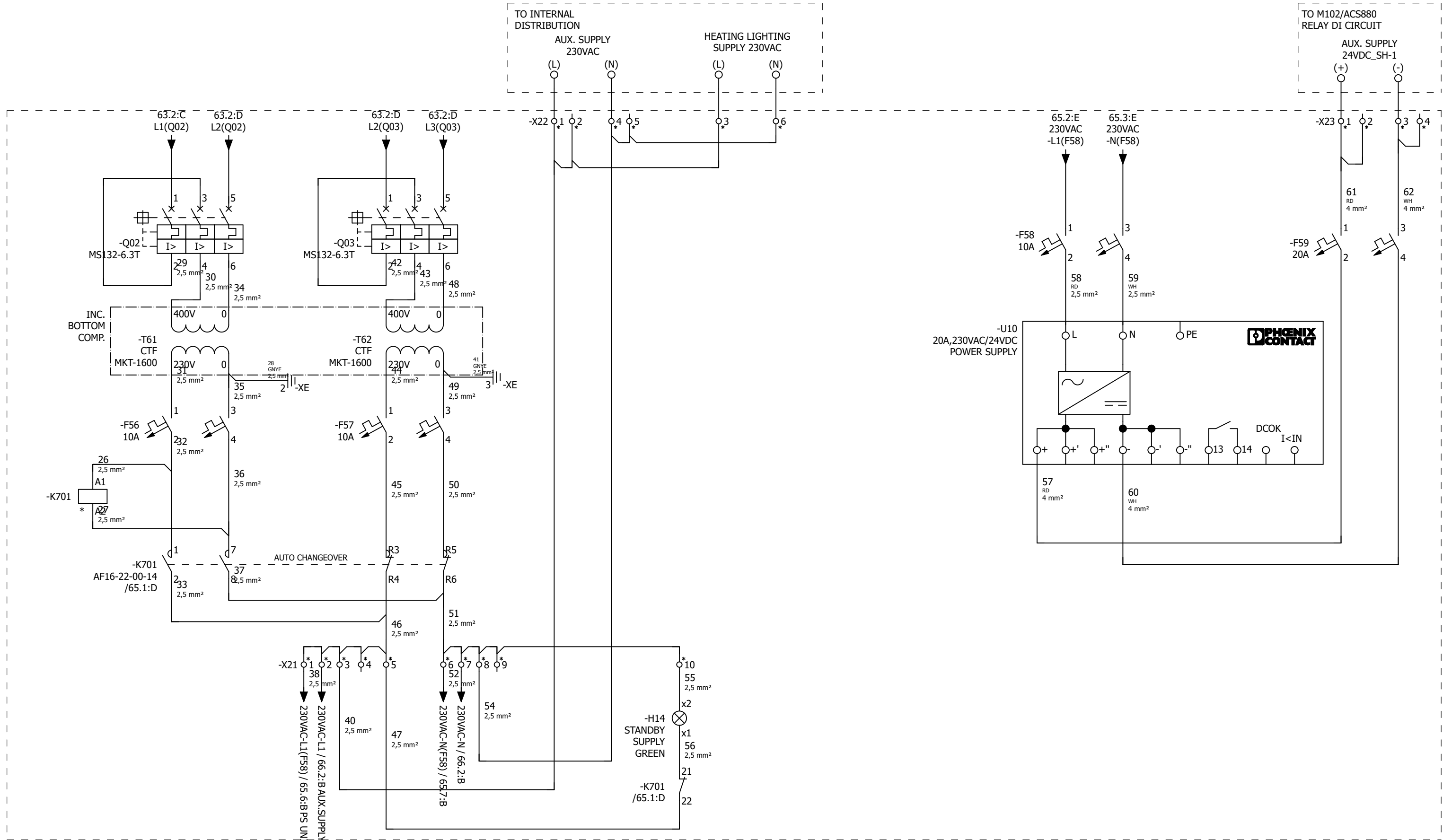
Supplier	ABB ELEKTRİK SAN. A.Ş.
Customer	RMG COPPER JSC
End User	RMG COPPER JSC
Project	TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA

Supplier	ABB ELEKTRİK SAN. A.Ş.
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End User	RMG COPPER JSC
Project	TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA




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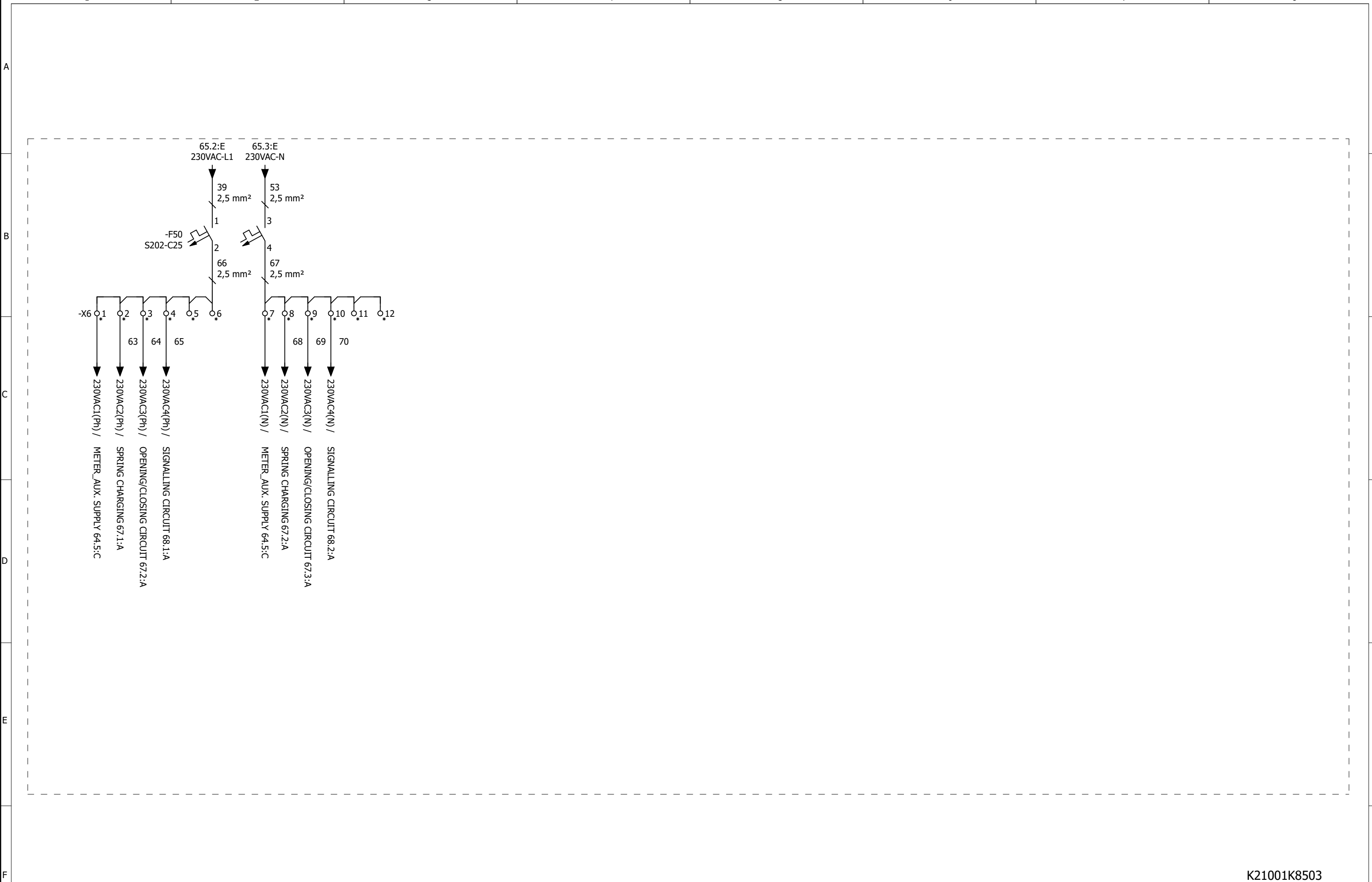


* Note: 1. 4-pole contactors fitted with 2 N.O. + 2 N.C. main poles
These contactors are suitable for controlling 2 separate circuits, i.e. 2 loads with 2 separate supplies, or 1 circuit comprising 2. 2 separate loads with a single supply (see diagrams below). When the contactor operates there is no mechanical overlapping between the N.O. poles and the N.C. poles: BREAK before MAKE

- 1 2 /65.2:D
- 7 8 /65.2:D
- 21 22 /65.4:E
- R3 R4 /65.3:D
- R5 R6 /65.3:D

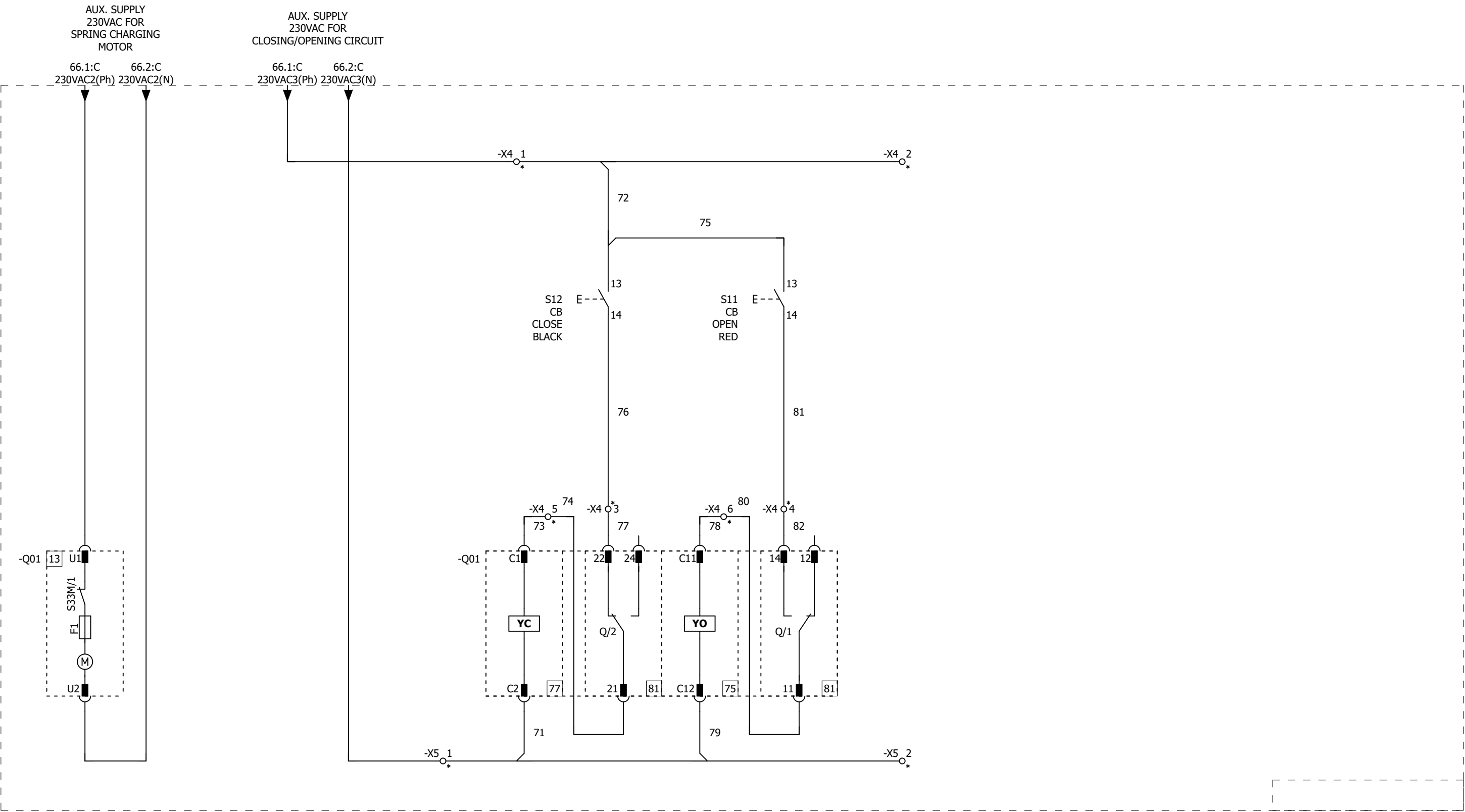
For Approval <input type="checkbox"/> As Tested <input type="checkbox"/>				Approved For Construction <input checked="" type="checkbox"/> As Build <input type="checkbox"/>				Supplier ABB ELEKTRİK SAN. A.Ş.		Customer RMG COPPER JSC		End User RMG COPPER JSC		Project TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title INCOMER_Emax 2_E2.2N_H_MS Type_3P_2000A		Drawing No. 4TRD021001C9000		+8503		SIZE A3		
R3V12	30.07.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA														Project No. K21001		PAGE No.	65		REV.
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL																CONT.	66		
Rev.	Date	Description	SIGN		APPROVED BY: O.YILMAZ																			
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R3V12	06.08.2021	Last Revision Date		SCALE	1	DESIGNED BY : VINEETHA		CHECKED BY : O.TOPAL		APPROVED BY : O.YILMAZ											
ROV0	11.02.2021	Creation Date																			
Rev.	Date	Description	SIGN																		
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R3V12	30.04.2021	Last Revision Date	
R0V0	11.02.2021	Creation Date	
Rev.	Date	Description	SIGN

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

Customer	RMG COPPER JSC
End User	RMG COPPER JSC

Project	TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA
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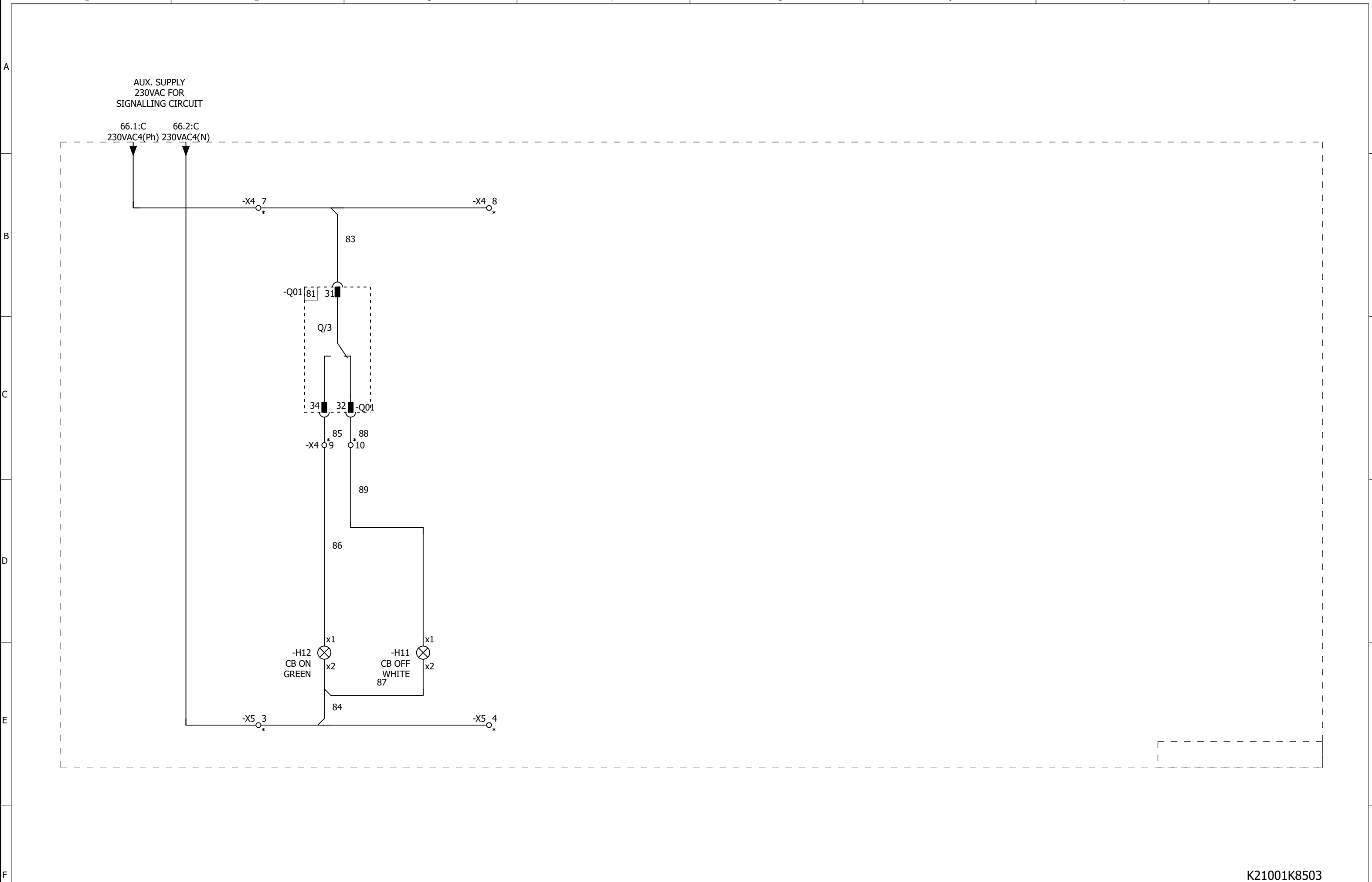
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Drawing No.	4TRD021001C9000
Project No.	K21001

+8503	SIZE	A3
PAGE No.	67	
CONT.	68	REV.

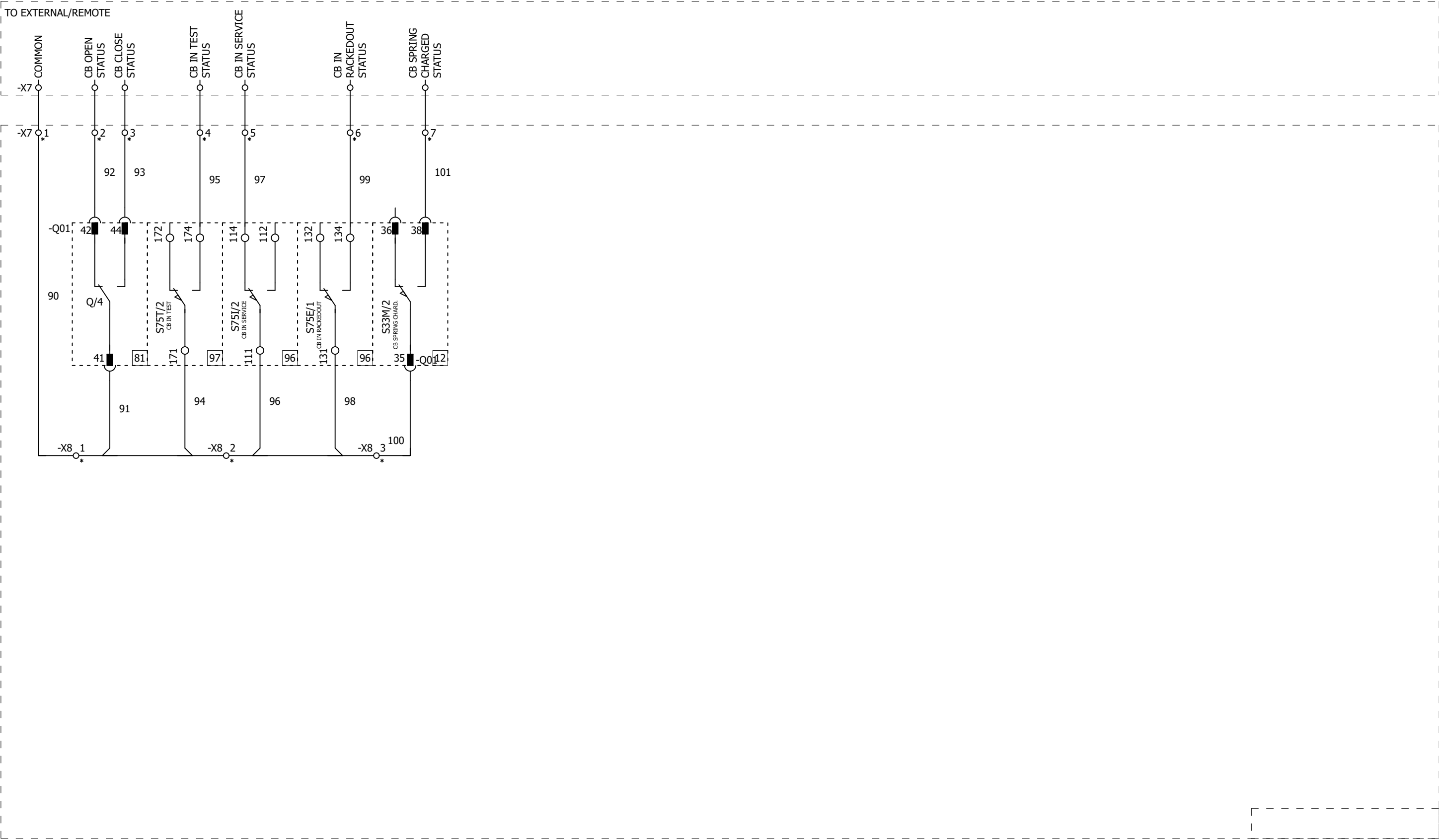
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R3V12	30.04.2021	Last Revision Date		SCALE	DESIGNED BY : VINEETHA							Project No.	K21001	PAGE No.	68	CONT.	69	REV.	
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL														
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ														
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R0V0	11.02.2021	Creation Date	
Rev.	Date	Description	SIGN

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

Customer	RMG COPPER JSC
RMG	RICH METALS GROUP




End User	RMG COPPER JSC
RMG	RICH METALS GROUP

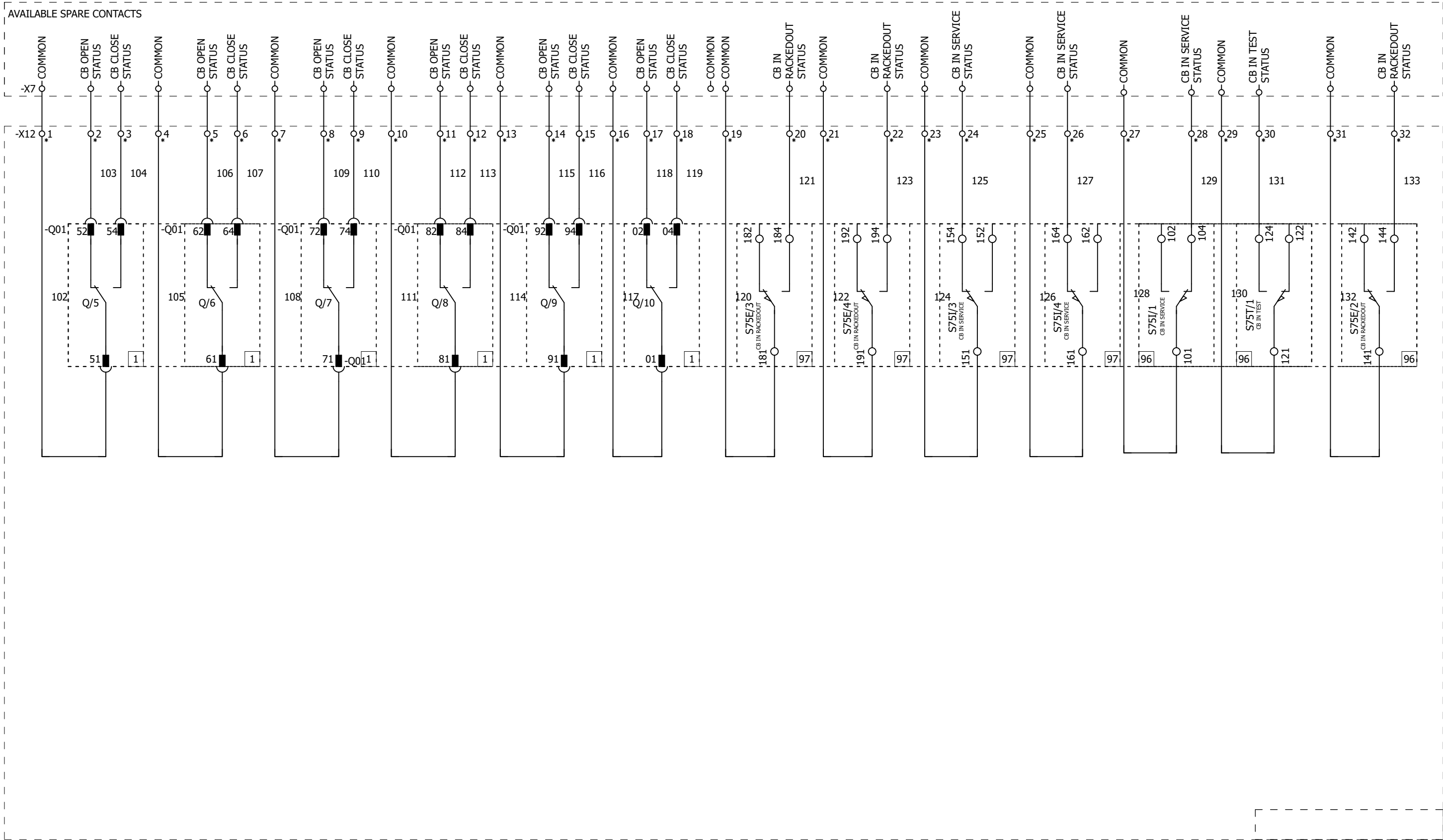
Project	TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA
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Title	INCOMER_Emax 2_E2.2N_H_MS Type_3P_2000A
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Drawing No.	4TRD021001C9000
Project No.	K21001







+8503	SIZE	A3
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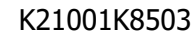
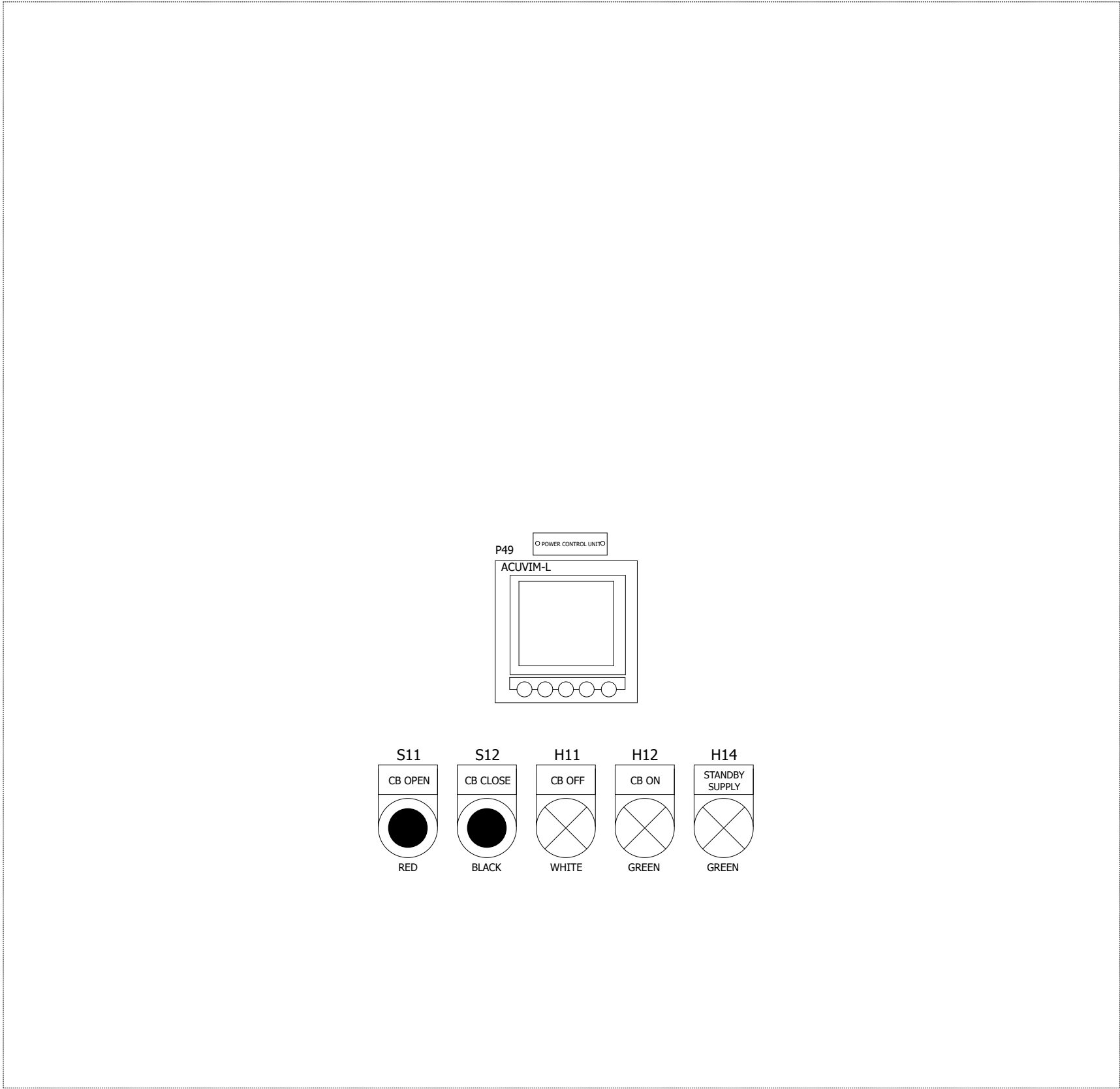
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R3V12	30.04.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA											PAGE No.	70		REV.
ROV0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL											CONT.	71		
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ											Project No. K21001			








Last Cable Number: 133

K21001K8503

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R3V12	30.04.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA								<div>Project No.</div> <div>K21001</div>	PAGE No.	70		
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL												
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ												
CONT.																71	REV.

[illegible]

<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><div>ABB</div><div>ELEKTRİK SAN. A.Ş.</div></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>TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA</div>		<div>Title</div> <div>INCOMER_Emax 2_E2.2N_H_MS Type_3P_2000A</div>		<div>Drawing No.</div> <div>4TRD021001C9000</div>		<div>+8503</div> <div>SIZE A3</div>	
R3V12	30.04.2021	Last Revision Date		SCALE 10	DESIGNED BY : VINEETHA							<div>Project No.</div> <div>K21001</div>		<div>PAGE No.</div> <div>71</div>		<div></div>	
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL												
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ									<div>CONT.</div> <div>72</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
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	LV		-Q02:1	-XP:1			2.5***	BK	1		
5	LV		-Q02:5	-XP:2			2.5***	BK	2		
6	LV		-Q03:1	-XP:3			2.5***	BK	3		
7	LV		-Q03:5	-XP:4			2.5***	BK	4		
8	LV		-F41:1	-XP:5			2.5***	BK	5		
9	CT		-T1L1:s2	-X1:7	X		2,5	BK	6		
10	CT		-T1L1:s1	-X1:1	X		2,5	BK	7		
11	LV		-F42:1	-XP:6			2.5***	BK	8		
12	CT		-T1L2:s2	-X1:6	X		2,5	BK	9		
13	CT		-T1L2:s1	-X1:2	X		2,5	BK	10		
14	LV		-F43:1	-XP:7			2.5***	BK	11		
15	CT		-T1L3:s2	-X1:5	X		2,5	BK	12		
16	CT		-T1L3:s1	-X1:3	X		2,5	BK	13		
17		X	-X1:4	-XE:1			2,5	GNYE	14		
18	LV		-P49:2	-X1:4			2,5	BK	15		
19	LV		-P49:1	-X1:1			2,5	BK	16		
20	LV		-P49:3	-X1:2			2,5	BK	17		
21	LV		-P49:5	-X1:3			2,5	BK	18		
22	LV		-F41:2	-P49:7		LV	2,5	BK	19		
23	LV		-F42:2	-P49:8		LV	2,5	BK	20		
24	LV		-F43:2	-P49:9		LV	2,5	BK	21		
25	LV		-P49:2	-P49:4		LV	2,5	BK	22		
26	LV		-P49:4	-P49:6		LV	2,5	BK	23		
27	LV		-P49:11	-X6:1	X		1,5	BK	24		
28	LV		-P49:12	-X6:7	X		1,5	BK	25		
29	LV		-K701:1	-K701:A1		LV	2,5	BK	26		
30	LV		-K701:7	-K701:A2		LV	2,5	BK	27		
31	LV		-T61:0	-XE:2		LV	2,5	GNYE	28		
32	LV		-Q02:2	-Q02:3		LV	2,5	BK	29		
33	LV		-Q02:4	-T61:400V		LV	2,5	BK	30		
34	LV		-F56:1	-T61:230V		LV	2,5	BK	31		
35	LV		-F56:2	-K701:1		LV	2,5	BK	32		
36	LV		-K701:2	-K701:R4		LV	2,5	BK	33		
37	LV		-Q02:6	-T61:0		LV	2,5	BK	34		
38	LV		-F56:3	-T61:0		LV	2,5	BK	35		

* 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>TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA</div>		<div>Title</div> <div>Module Wire Connection List</div>		<div>Drawing No.</div> <div>4TRD021001C9000</div>		<div>+8503</div>		<div>SIZE</div> <div>A3</div>	
<div>R3V12 06.08.2021 Last Revision Date</div> <div>Rev. Date Creation Date Description SIGN</div>				<div>DESIGNED BY : VINEETHA</div> <div>CHECKED BY : O.TOPAL</div> <div>APPROVED BY : O.YILMAZ</div>								<div>Project No.</div> <div>K21001</div>		<div>PAGE No.</div> <div>72</div>		<div>REV.</div> <div>73</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	LV		-F56:4	-K701:7		LV	2,5	BK	36		
40	LV		-K701:8	-K701:R6		LV	2,5	BK	37		
41	LV		-F58:1	-X21:1			2,5	BK	38		
42	LV		-F50:1	-X21:2			2,5	BK	39		
43			-X21:3	-X22:1	X		2,5	BK	40		
44	LV		-T62:0	-XE:3		LV	2,5	GNYE	41		
45	LV		-Q03:2	-Q03:3		LV	2,5	BK	42		
46	LV		-Q03:4	-T62:400V		LV	2,5	BK	43		
47	LV		-F57:1	-T62:230V		LV	2,5	BK	44		
48	LV		-F57:2	-K701:R3		LV	2,5	BK	45		
49	LV		-K701:R4	-X21:5	X		2,5	BK	46		
50	LV		-K701:22	-X21:5			2,5	BK	47		
51	LV		-Q03:6	-T62:0		LV	2,5	BK	48		
52	LV		-F57:3	-T62:0		LV	2,5	BK	49		
53	LV		-F57:4	-K701:R5		LV	2,5	BK	50		
54	LV		-K701:R6	-X21:6	X		2,5	BK	51		
55	LV		-F58:3	-X21:6			2,5	BK	52		
56	LV		-F50:3	-X21:7			2,5	BK	53		
57			-X21:8	-X22:4	X		2,5	BK	54		
58	LVD		-H14:x2	-X21:10			2,5	BK	55		
59	LVD		-H14:x1	-K701:21		LV	2,5	BK	56		
60	LV		-F59:2	-U10:+			4	RD	57		
61	LV		-F58:2	-U10:L			2,5	RD	58		
62	LV		-F58:4	-U10:N			2,5	WH	59		
63	LV		-F59:4	-U10:-			4	WH	60		
64	LV		-F59:1	-X23:1	X		4	RD	61		
65	LV		-F59:3	-X23:3	X		4	WH	62		
66	CB		-Q01:U1	-X6:2	X		1,5	BK	63		
67			-X4:1	-X6:3	X		1,5	BK	64		
68			-X4:7	-X6:4	X		1,5	BK	65		
69	LV		-F50:2	-X6:6			2,5	BK	66		
70	LV		-F50:4	-X6:7			2,5	BK	67		
71	CB		-Q01:U2	-X6:8	X		1,5	BK	68		
72			-X5:1	-X6:9	X		1,5	BK	69		
73			-X5:3	-X6:10	X		1,5	BK	70		
74	CB		-Q01:C2	-X5:1	X		1,5	BK	71		
75	LVD		-S12:13	-X4:1	X		1,5	BK	72		
76	CB		-Q01:C1	-X4:5			1,5	BK	73		

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

<div>For Approval <input type="checkbox"/> As Tested <input type="checkbox"/></div> <div>Last Revision Date 11.02.2021</div> <div>Rev.</div>				<div>Approved For Construction <input checked="" type="checkbox"/> As Build <input type="checkbox"/></div> <div>Creation Date 11.02.2021</div> <div>DESCRIPTION SIGN</div>				<div>Supplier ABB ELEKTRİK SAN. A.Ş.</div> <div>SCALE 1</div> <div>DESIGNED BY : VINEETHA CHECKED BY : O.TOPAL APPROVED BY : O.YILMAZ</div>				<div>Customer RMG COPPER JSC</div> <div></div> <div>RMG RICH METALS GROUP</div>				<div>End User RMG COPPER JSC</div> <div></div> <div>RMG RICH METALS GROUP</div>				<div>Project TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA</div>				<div>Title Module Wire Connection List</div>				<div>Drawing No. 4TRD021001C9000</div> <div>Project No. K21001</div>				<div>+8503</div> <div>PAGE No. 73</div> <div>CONT. 74</div>		<div>SIZE A3</div> <div>REV.</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
77	CB		-Q01:21	-X4:5	X		1,5	BK	74		
78	LVD		-S11:13	-S12:13		LVD	1,5	BK	75		
79	LVD		-S12:14	-X4:3	X		1,5	BK	76		
80	CB		-Q01:22	-X4:3			1,5	BK	77		
81	CB		-Q01:C11	-X4:6			1,5	BK	78		
82	CB		-Q01:C12	-X5:2			1,5	BK	79		
83	CB		-Q01:11	-X4:6	X		1,5	BK	80		
84	LVD		-S11:14	-X4:4	X		1,5	BK	81		
85	CB		-Q01:14	-X4:4			1,5	BK	82		
86	CB		-Q01:31	-X4:7	X		1,5	BK	83		
87	LVD		-H12:x2	-X5:3	X		1,5	BK	84		
88	CB		-Q01:34	-X4:9	X		1,5	BK	85		
89	LVD		-H12:x1	-X4:9			1,5	BK	86		
90	LVD		-H11:x2	-H12:x2		LVD	1,5	BK	87		
91	CB		-Q01:32	-X4:10	X		1,5	BK	88		
92	LVD		-H11:x1	-X4:10			1,5	BK	89		
93		X	-X7:1	-X8:1			1,5	BK	90		
94	CB		-Q01:41	-X8:1	X		1,5	BK	91		
95	CB		-Q01:42	-X7:2	X		1,5	BK	92		
96	CB		-Q01:44	-X7:3	X		1,5	BK	93		
97	CB		-Q01:171	-X8:2			1,5	BK	94		
98	CB		-Q01:174	-X7:4	X		1,5	BK	95		
99	CB		-Q01:111	-X8:2	X		1,5	BK	96		
100	CB		-Q01:114	-X7:5	X		1,5	BK	97		
101	CB		-Q01:131	-X8:3			1,5	BK	98		
102	CB		-Q01:134	-X7:6	X		1,5	BK	99		
103	CB		-Q01:35	-X8:3	X		1,5	BK	100		
104	CB		-Q01:38	-X7:7	X		1,5	BK	101		
105	CB		-Q01:51	-X12:1	X		1,5	BK	102		
106	CB		-Q01:52	-X12:2	X		1,5	BK	103		
107	CB		-Q01:54	-X12:3	X		1,5	BK	104		
108	CB		-Q01:61	-X12:4	X		1,5	BK	105		
109	CB		-Q01:62	-X12:5	X		1,5	BK	106		
110	CB		-Q01:64	-X12:6	X		1,5	BK	107		
111	CB		-Q01:71	-X12:7	X		1,5	BK	108		
112	CB		-Q01:72	-X12:8	X		1,5	BK	109		
113	CB		-Q01:74	-X12:9	X		1,5	BK	110		
114	CB		-Q01:81	-X12:10	X		1,5	BK	111		

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

<div>For Approval <input type="checkbox"/> As Tested <input type="checkbox"/></div> <div>Last Revision Date <input type="text"/></div> <div>Rev. <input type="text"/> Date <input type="text"/></div>				<div>Approved For Construction <input checked="" type="checkbox"/> As Build <input type="checkbox"/></div> <div>Creation Date <input type="text"/></div> <div>Description <input type="text"/> SIGN <input type="text"/></div>				<div>Supplier</div> <div> ELEKTRİK SAN. A.Ş.</div> <div>SCALE 1</div> <div>DESIGNED BY : VINEETHA</div> <div>CHECKED BY : O.TOPAL</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>TREL-DEU-RMG MOTOR CONTROL CENTRE</div> <div>MNS-GEORGIA</div>				<div>Title</div> <div>Module Wire Connection List</div>				<div>Drawing No.</div> <div>4TRD021001C9000</div> <div>Project No.</div> <div>K21001</div>				<div>+8503</div> <div>PAGE No. 74</div> <div>CONT. 75</div>		<div>SIZE A3</div> <div></div> <div>REV.</div>	
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*** According to Engineering Guideline ** Shielded Cable (BELDEN 9841NH) *** Silicone insulated**

1	2	3	4	5	6	7	8
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IX

TOTAL TERMINALS COUNT: 7 PCS
TERMINAL TYPE: Test disconnect terminal block - URTK/S

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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8503 SIZE A3	
R3V12 06.08.2021 Last Revision Date ROV0 11.02.2021 Creation Date Rev. Date Description SIGN				SCALE 1		DESIGNED BY : VINEETHA CHECKED BY : O.TOPAL APPROVED BY : O.YILMAZ		 		Project No. K21001		PAGE No. 76 CONT. 77		 REV.			

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TERMINAL DIAGRAM

-X4

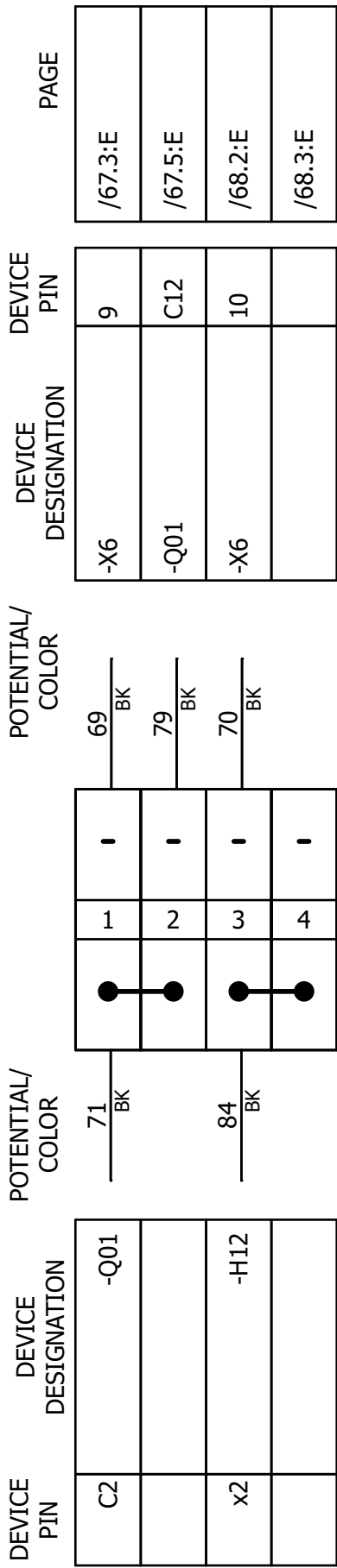
DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR		POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
13	-S12	72 BK	●	64 BK	-X6	3	/67.3:B
			●				/67.5:B
14	-S12	76 BK	●	77 BK	-Q01	22	/67.4:D
14	-S11	81 BK	●	82 BK	-Q01	14	/67.5:D
21	-Q01	74 BK	●	73 BK	-Q01	C1	/67.4:D
11	-Q01	80 BK	●	78 BK	-Q01	C11	/67.4:D
31	-Q01	83 BK	●	65 BK	-X6	4	/68.2:B
			●				/68.3:B
34	-Q01	85 BK	●	86 BK	-H12	X1	/68.2:C
32	-Q01	88 BK	●	89 BK	-H11	X1	/68.3:C

TOTAL TERMINALS COUNT: 10 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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8503	SIZE A3	
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA									Project No. K21001		PAGE No.	77	
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL											CONT.	78	
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ													

TERMINAL DIAGRAM

5X-




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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8503 SIZE A3	
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA							Project No. K21001		PAGE No. 78			
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL									CONT. 79			REV.
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ												




9X-

TOTAL TERMINALS COUNT: 12 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 TRÉL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8503 SIZE A3	
R3V12 06.08.2021 Last Revision Date R0V0 11.02.2021 Creation Date Rev. Date Description SIGN				SCALE 1 DESIGNED BY : VINEETHA CHECKED BY : O.TOPAL APPROVED BY : O.YILMAZ						Project No. K21001		PAGE No. 79 CONT. 80		 REV.			

✕

TOTAL TERMINALS COUNT: 7 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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8503 SIZE A3	
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA							Project No. K21001		PAGE No. 80			
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL									CONT. 81			REV.
Rev.	Date	Description	SIGN											APPROVED BY : O.YILMAZ			

TERMINAL DIAGRAM
















$$\infty \times \text{—}$$

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
41	-Q01	91 BK	90 BK	-X7	1	/69.1:C
111	-Q01	96 BK	94 BK	-Q01	171	/69.2:C
35	-Q01	100 BK	98 BK	-Q01	131	/69.3:C




TOTAL TERMINALS COUNT: 3 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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8503 SIZE A3	
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA							Project No. K21001		PAGE No. 81			
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL									CONT. 82			REV.
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ												

TERMINAL DIAGRAM
X10

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
15	-P49	 BU	 1	 -		/64.6:A
			 2	 -		/64.6:A
14	-P49	 WH	 3	 -		/64.6:A
			 4	 -		/64.6:A
16	-P49	 SH	 5	 -		/64.6:A
			 6	 -		/64.6:A

TOTAL TERMINALS COUNT: 6 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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8503 SIZE A3	
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA							Project No. K21001		PAGE No. 82			
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL									CONT. 83			REV.
Rev.	Date	Description	SIGN											APPROVED BY : O.YILMAZ			

-X12

TOTAL TERMINALS COUNT: 32 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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8503 SIZE A3	
R3V12 06.08.2021 Last Revision Date ROV0 11.02.2021 Creation Date Rev. Date Description SIGN				SCALE 1		DESIGNED BY : VINEETHA CHECKED BY : O.TOPAL APPROVED BY : O.YILMAZ		 		Project No. K21001		PAGE No. 83 CONT. 84		 REV.			

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TERMINAL DIAGRAM




-X21

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	1	2	3	4	5	6	7	8	9	10	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
			●	●	●	●	●	●	●	●	●	●	38 BK	-F58	1	/65.2:E
													39 BK	-F50	1	/65.2:E
													40 BK	-X22	1	/65.2:E
																/65.3:E
R4	-K701	46 BK	●										47 BK	-K701	22	/65.3:E
R6	-K701	51 BK	●										52 BK	-F58	3	/65.3:E
			●										53 BK	-F50	3	/65.3:E
													54 BK	-X22	4	/65.3:E
																/65.3:E
													55 BK	-H14	x2	/65.4:E

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

-X22

TOTAL TERMINALS COUNT: 6 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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8503 SIZE A3	
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA							Project No. K21001		PAGE No. 85			
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL									CONT. 86			REV.
Rev.	Date	Description	SIGN											APPROVED BY : O.YILMAZ			

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A

B

C

D

E

F

TERMINAL DIAGRAM

-X23

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
1	-F59	61 RD	1			/65.8:A
			2			/65.8:A
3	-F59	62 WH	3			/65.8:A
			4			/65.8:A

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

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<div>R3V1206.08.2021Last Revision Date</div>				<div>SCALE</div> <div>1</div>		<div>DESIGNED BY : VINEETHA</div>		<div></div>		<div></div>		<div>Project No.</div> <div>K21001</div>		<div>PAGE No.</div> <div>86</div>		<div></div>			
<div>R0V011.02.2021Creation Date</div>						<div>CHECKED BY : O.TOPAL</div>													
<div>Rev. Date Description SIGN</div>						<div>APPROVED BY : O.YILMAZ</div>													

A

B

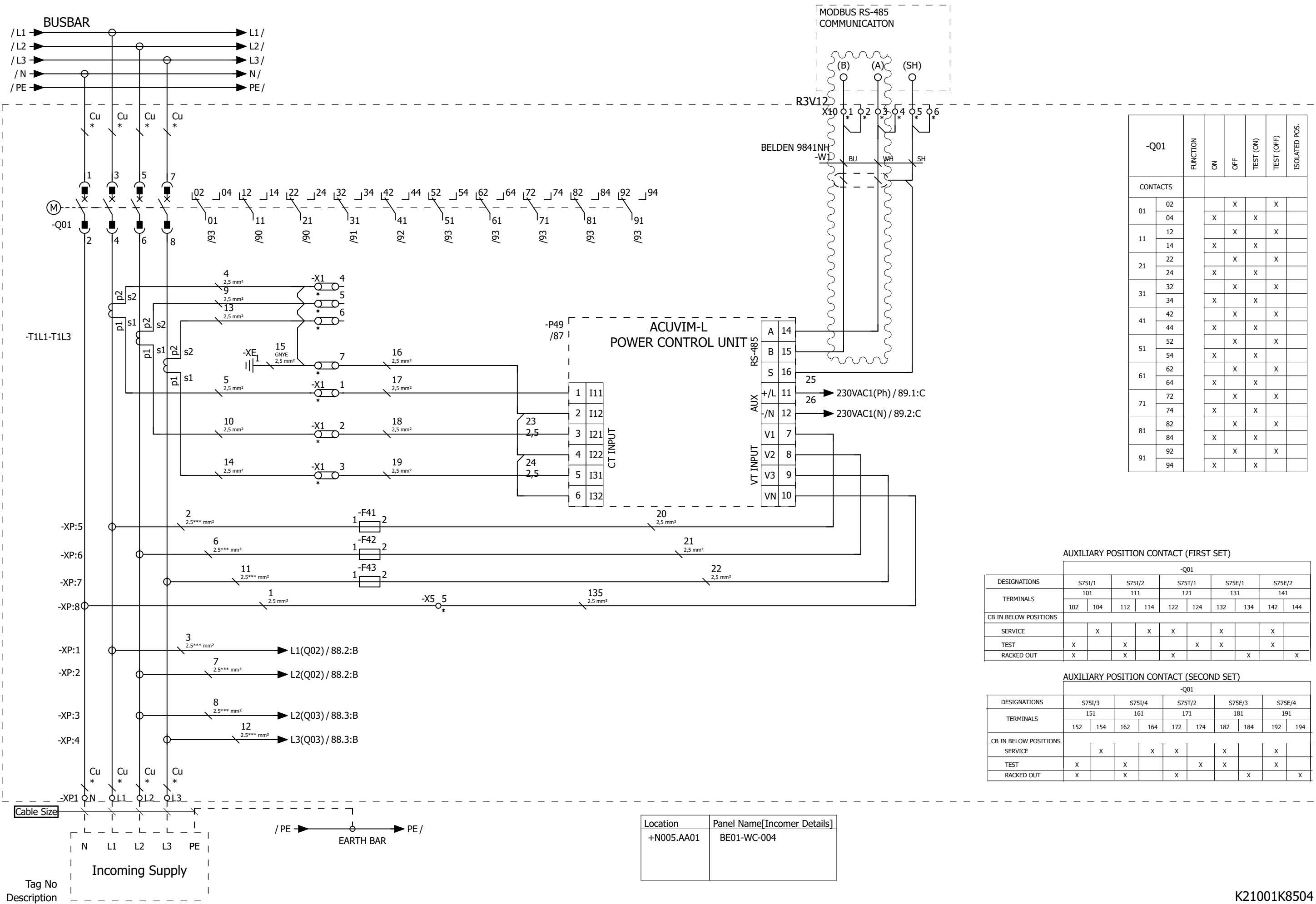
C

D






E

F

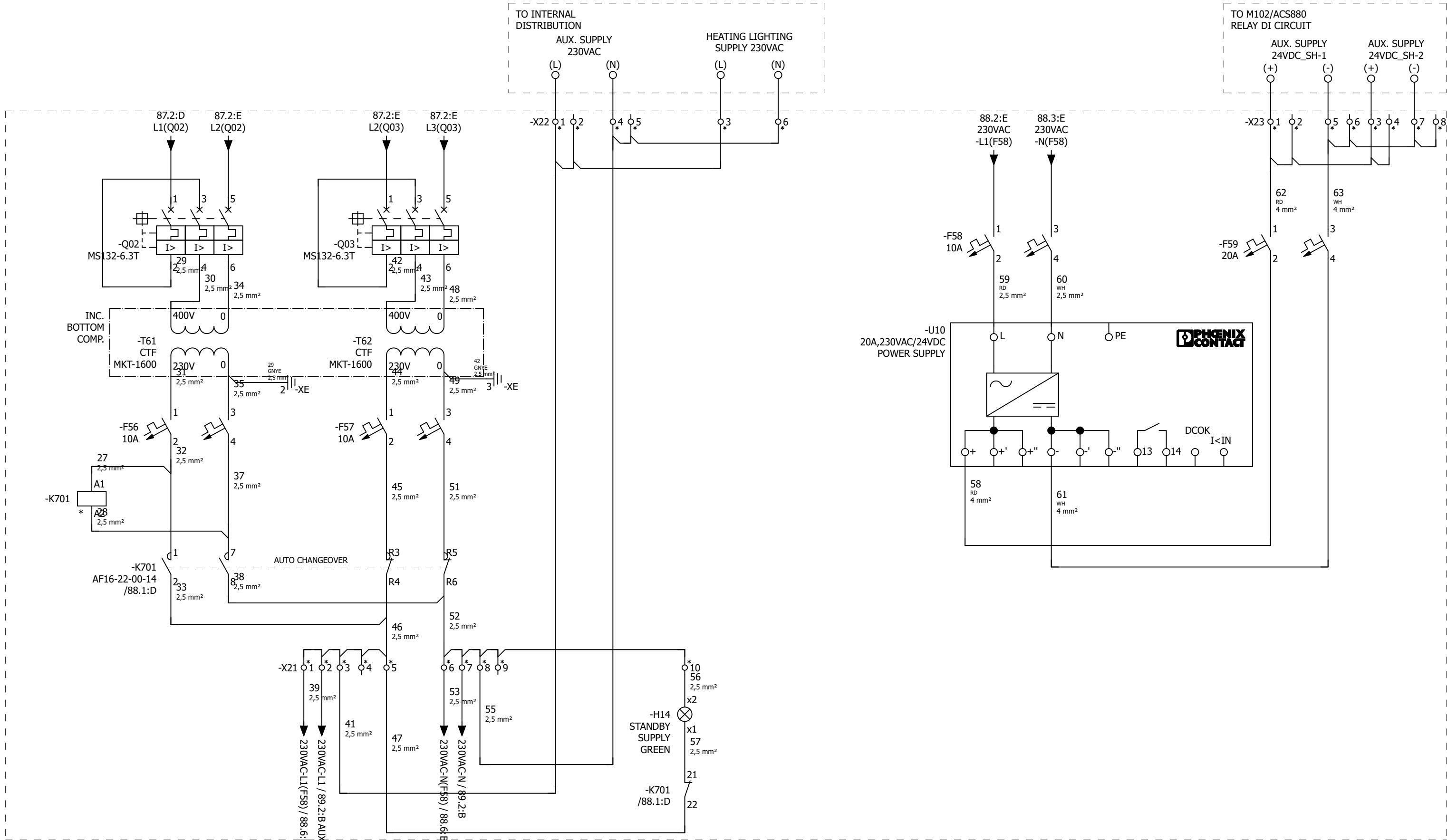
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<div>For Approval <input type="checkbox"/> As Tested <input type="checkbox"/></div> <div>Approved For Construction <input checked="" type="checkbox"/> As Build <input type="checkbox"/></div>				<div>Supplier</div> <div><div>ABB</div><div>ELEKTRİK SAN. 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>TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA</div>		<div>Title</div> <div>INCOMER_Emax 2_E2.2H_MS Type_4P_2000A</div>		<div>Drawing No.</div> <div>4TRD021001C9000</div>		<div>+8504</div> <div>SIZE</div> <div>A3</div>	
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R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL												
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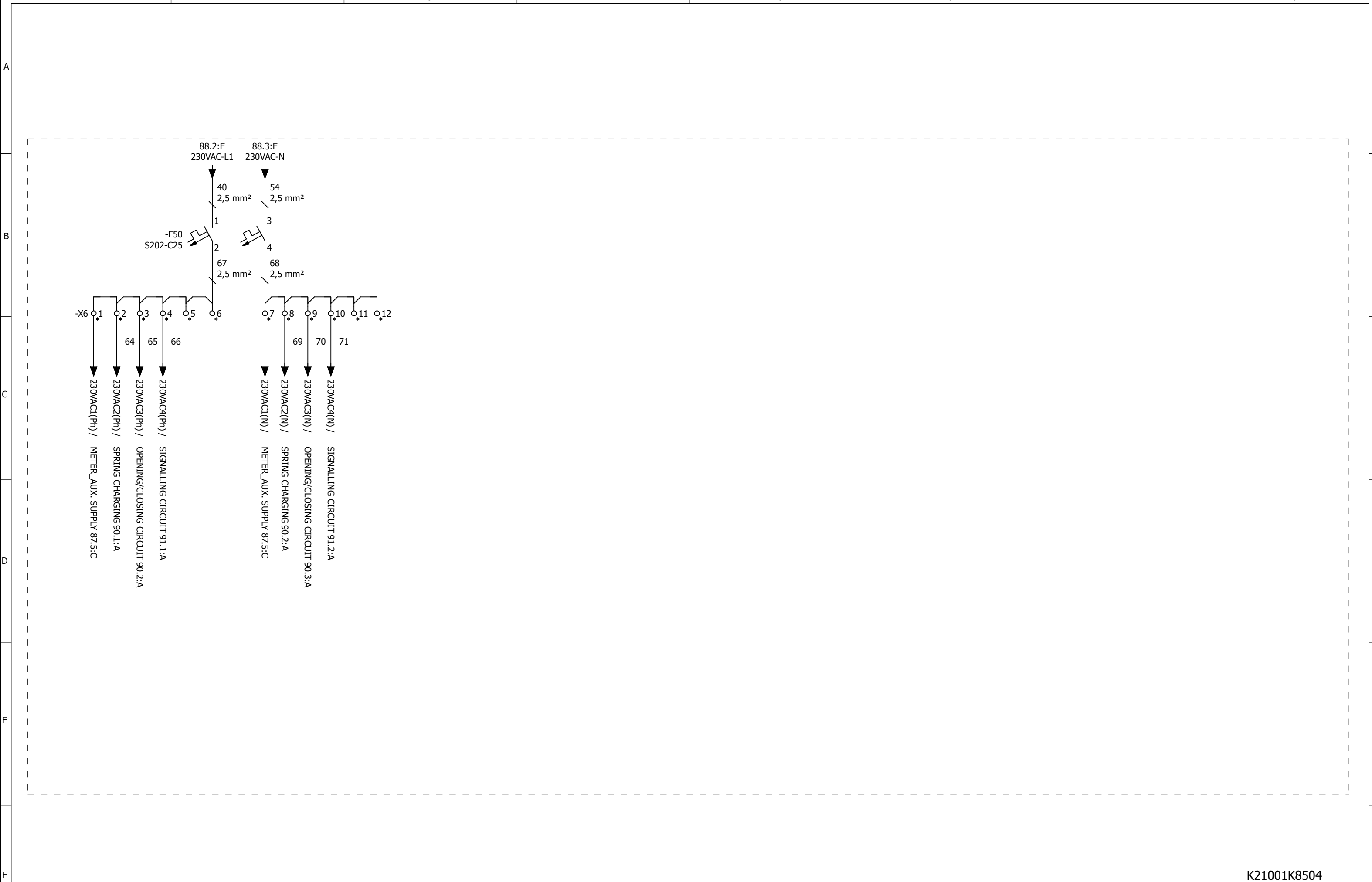
* Note: 1. 4-pole contactors fitted with 2 N.O. + 2 N.C. main poles
These contactors are suitable for controlling 2 separate circuits, i.e. 2 loads with 2 separate supplies, or 1 circuit comprising
2. 2 separate loads with a single supply (see diagrams below). When the contactor operates there is no mechanical overlapping between the N.O. poles and the N.C. poles: BREAK before MAKE




- 1 2 /88.2:D
7 8 /88.2:D
21 22 /88.4:E
R3 R4 /88.3:D
R5 R6 /88.3:D

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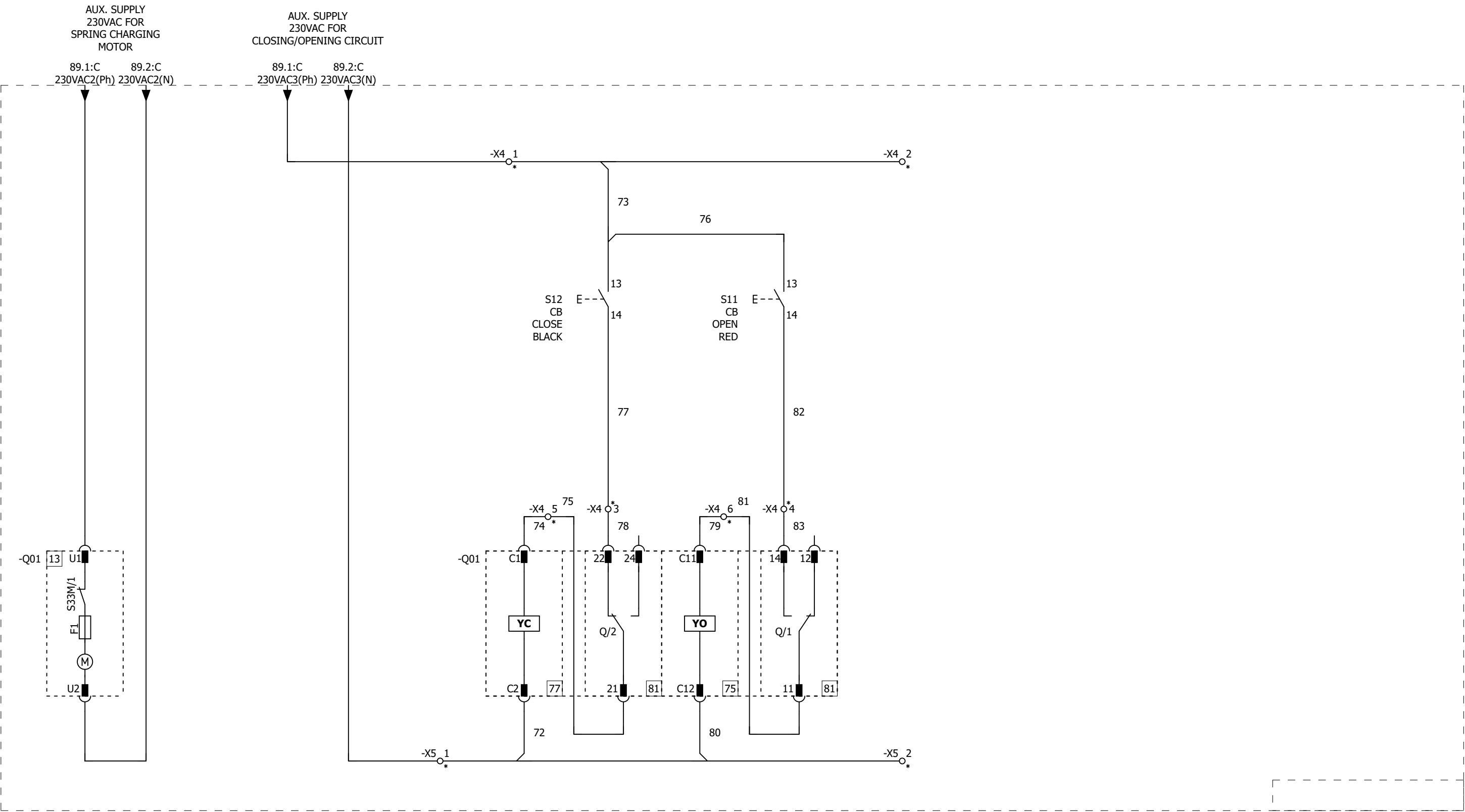
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R3V12	30.04.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA								PAGE No. 89				
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL								CONT. 90		REV.		
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SCALE 1	
DESIGNED BY : VINEETHA	
CHECKED BY : O.TOPAL	
APPROVED BY : O.YILMAZ	


Customer RMG COPPER JSC	
	

End User RMG COPPER JSC	
	

Project TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA	
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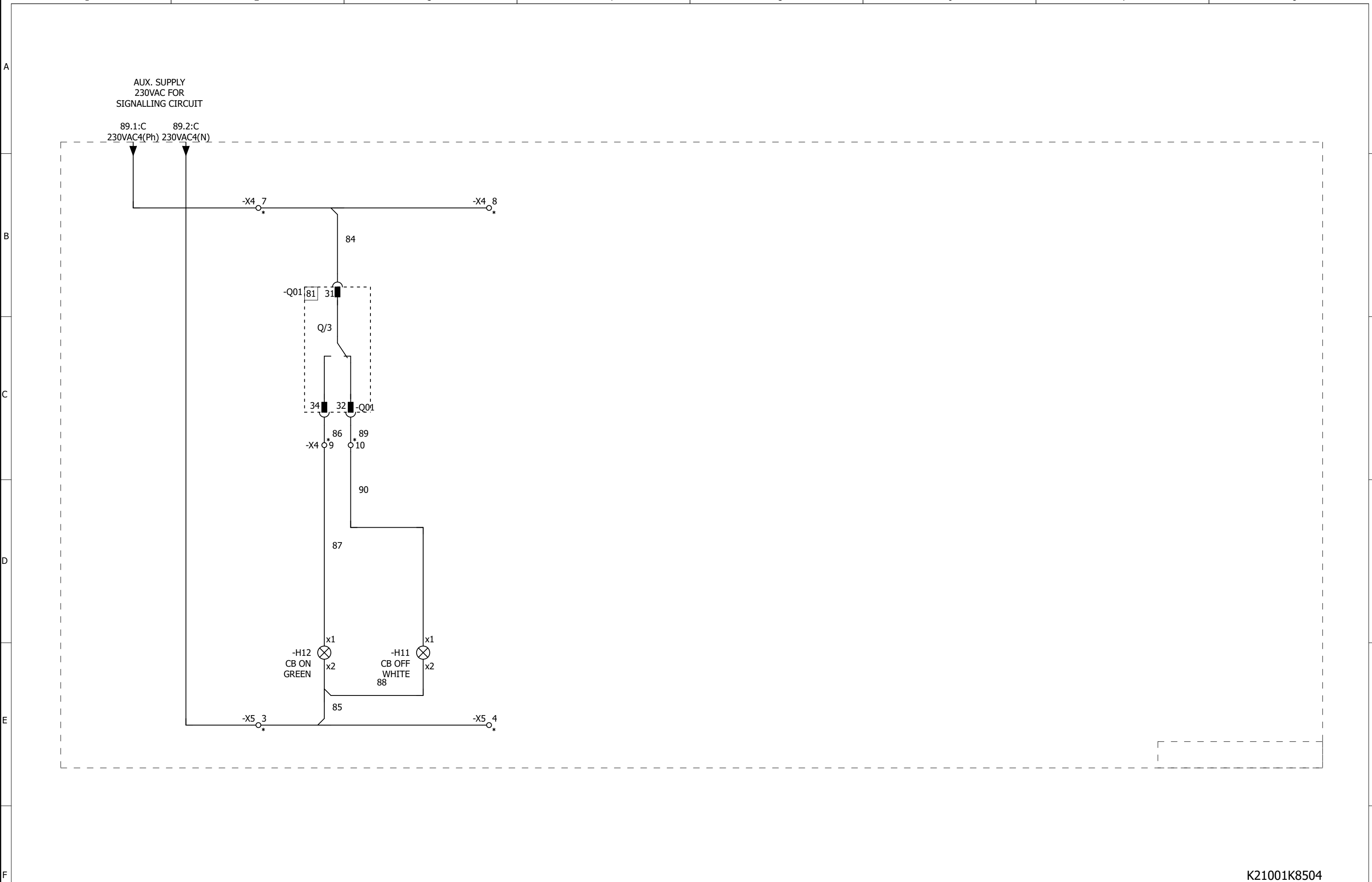
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Project No. K21001	

+8504	SIZE A3
PAGE No. 90	
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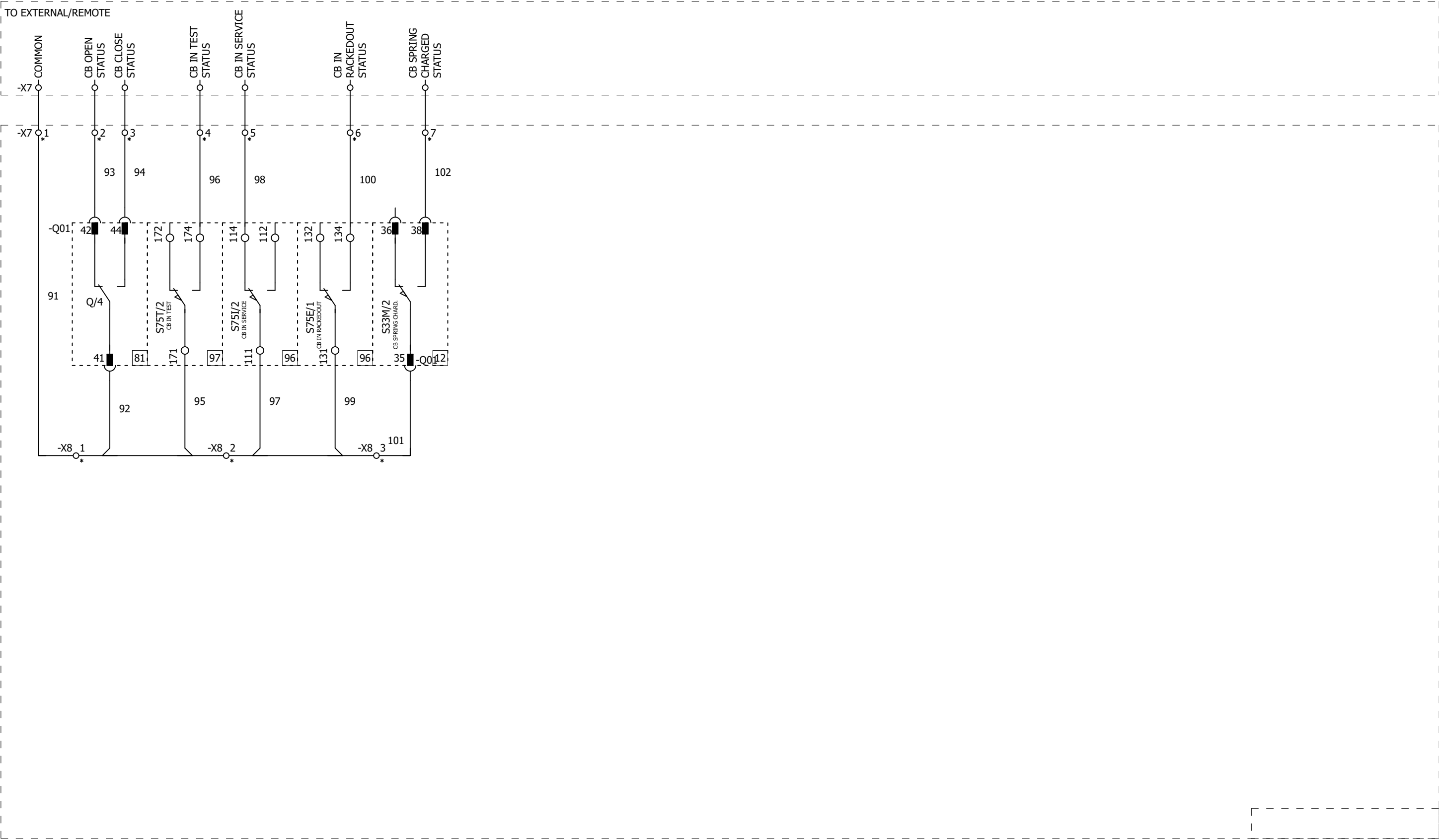
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R3V12	30.04.2021	Last Revision Date		SCALE 1				DESIGNED BY : VINEETHA				CHECKED BY : O.TOPAL				APPROVED BY : O.YILMAZ												Project No. K21001				PAGE No. 91				REV.			
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Rev.	Date	Description	SIGN

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	CHECKED BY : O.TOPAL
	APPROVED BY : O.YILMAZ


Customer RMG COPPER JSC	
	

End User RMG COPPER JSC	
	

Project TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA	
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Title INCOMER_Emax 2_E2.2H_MS Type_4P_2000A	
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Project No. K21001	

+8504	SIZE A3
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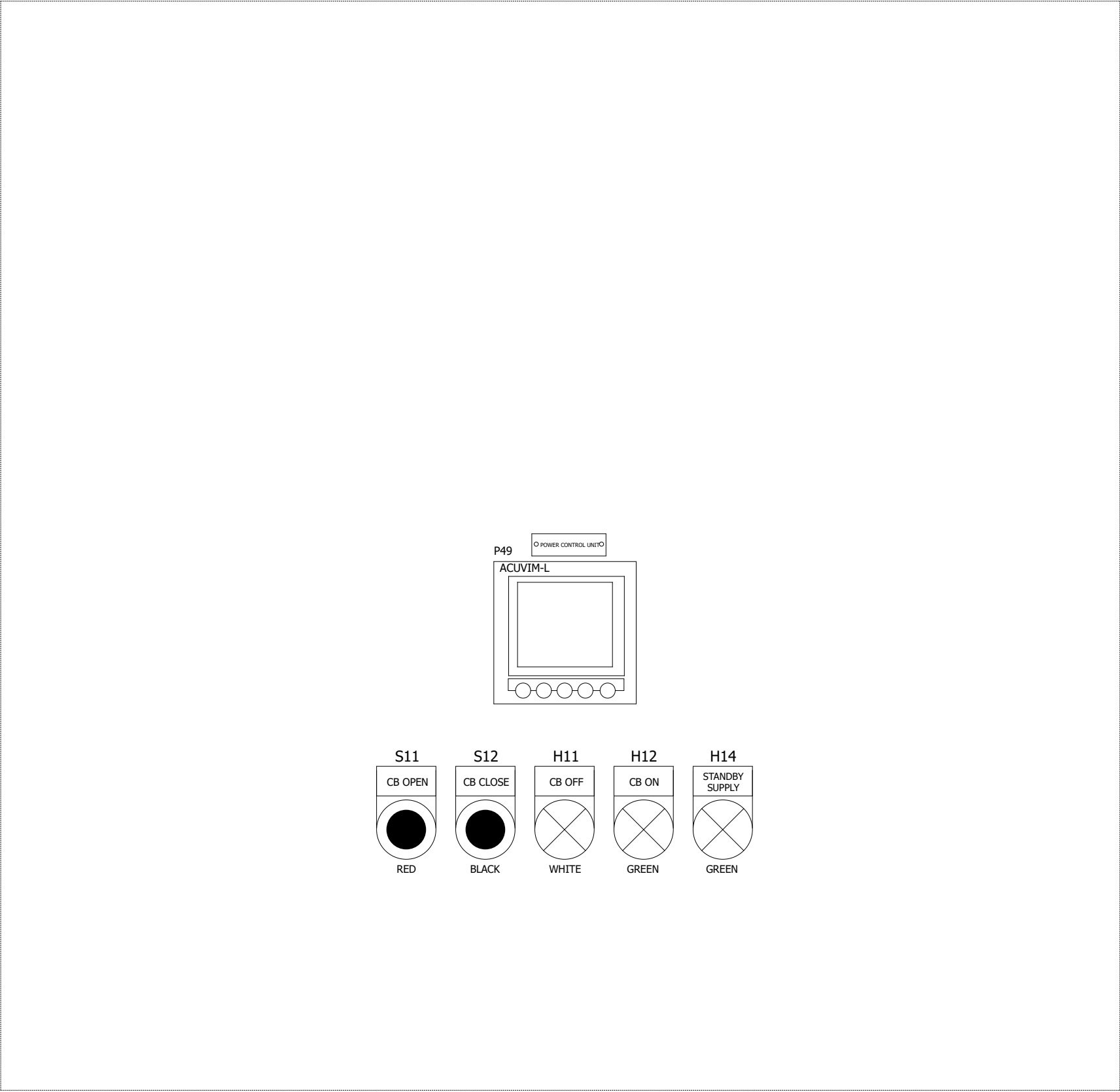
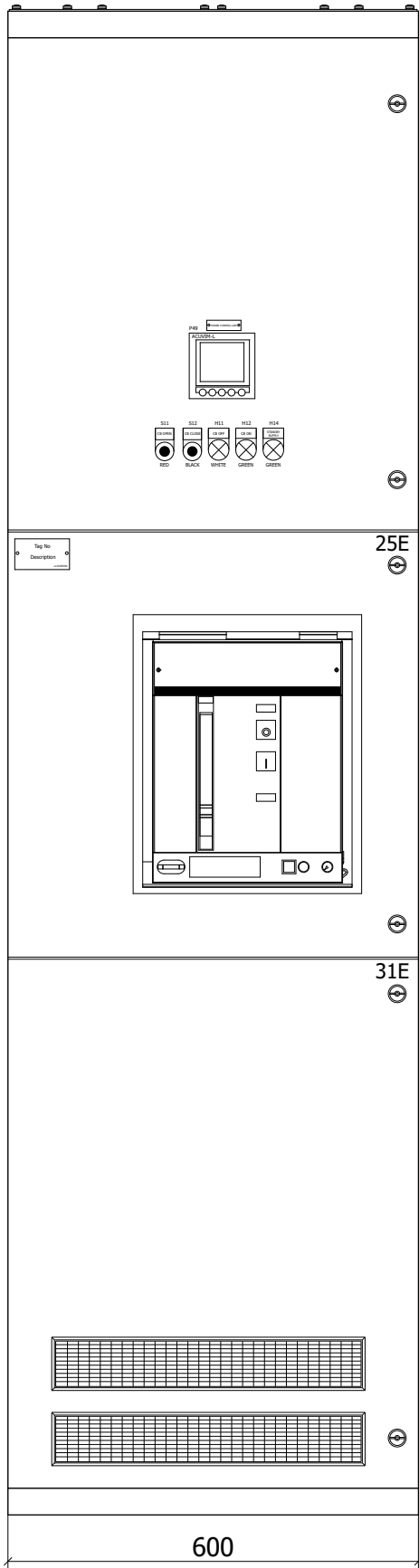
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R3V12	30.04.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA							Project No. K21001		PAGE No. 93			
R0V0	11.02.2021	Creation Date	CHECKED BY : O.TOPAL		CONT. 94									REV.			
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ												

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R3V12	30.04.2021	Last Revision Date		SCALE 10	DESIGNED BY : VINEETHA									Project No. K21001		PAGE No.	94	
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL											CONT.	95	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			-X5:5	-XP:8			2.5	BK	1		
5	LV		-F41:1	-XP:5			2.5***	BK	2		
6	LV		-Q02:1	-XP:1			2.5***	BK	3		
7	CT		-T1L1:s2	-X1:4	X		2,5	BK	4		
8	CT		-T1L1:s1	-X1:1	X		2,5	BK	5		
9	LV		-F42:1	-XP:6			2.5***	BK	6		
10	LV		-Q02:5	-XP:2			2.5***	BK	7		
11	LV		-Q03:1	-XP:3			2.5***	BK	8		
12	CT		-T1L2:s2	-X1:5	X		2,5	BK	9		
13	CT		-T1L2:s1	-X1:2	X		2,5	BK	10		
14	LV		-F43:1	-XP:7			2.5***	BK	11		
15	LV		-Q03:5	-XP:4			2.5***	BK	12		
16	CT		-T1L3:s2	-X1:6	X		2,5	BK	13		
17	CT		-T1L3:s1	-X1:3	X		2,5	BK	14		
18		X	-X1:7	-XE:1			2,5	GNYE	15		
19	LV		-P49:2	-X1:7			2,5	BK	16		
20	LV		-P49:1	-X1:1			2,5	BK	17		
21	LV		-P49:3	-X1:2			2,5	BK	18		
22	LV		-P49:5	-X1:3			2,5	BK	19		
23	LV		-F41:2	-P49:7		LV	2,5	BK	20		
24	LV		-F42:2	-P49:8		LV	2,5	BK	21		
25	LV		-F43:2	-P49:9		LV	2,5	BK	22		
26	LV		-P49:2	-P49:4		LV	2,5	BK	23		
27	LV		-P49:4	-P49:6		LV	2,5	BK	24		
28	LV		-P49:11	-X6:1	X		1,5	BK	25		
29	LV		-P49:12	-X6:7	X		1,5	BK	26		
30	LV		-K701:1	-K701:A1		LV	2,5	BK	27		
31	LV		-K701:7	-K701:A2		LV	2,5	BK	28		
32	LV		-Q02:2	-Q02:3		LV	2,5	BK	29		
33	LV		-T61:0	-XE:2		LV	2,5	GNYE	29		
34	LV		-Q02:4	-T61:400V		LV	2,5	BK	30		
35	LV		-F56:1	-T61:230V		LV	2,5	BK	31		
36	LV		-F56:2	-K701:1		LV	2,5	BK	32		
37	LV		-K701:2	-K701:R4		LV	2,5	BK	33		
38	LV		-Q02:6	-T61:0		LV	2,5	BK	34		

* 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>TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA</div>		<div>Title</div> <div>Module Wire Connection List</div>		<div>Drawing No.</div> <div>4TRD021001C9000</div>		<div>+8504</div>		<div>SIZE</div> <div>A3</div>	
<div>R3V12 06.08.2021 Last Revision Date</div> <div>Rev. Date Creation Date</div> <div>11.02.2021 Description SIGN</div>				<div>DESIGNED BY : VINEETHA</div> <div>CHECKED BY : O.TOPAL</div> <div>APPROVED BY : O.YILMAZ</div>								<div>Project No.</div> <div>K21001</div>		<div>PAGE No.</div> <div>95</div>		<div>REV.</div> <div>96</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	LV		-F56:3	-T61:0		LV	2,5	BK	35		
40	LV		-F56:4	-K701:7		LV	2,5	BK	37		
41	LV		-K701:8	-K701:R6		LV	2,5	BK	38		
42	LV		-F58:1	-X21:1			2,5	BK	39		
43	LV		-F50:1	-X21:2			2,5	BK	40		
44			-X21:3	-X22:1	X		2,5	BK	41		
45	LV		-Q03:2	-Q03:3		LV	2,5	BK	42		
46	LV		-T62:0	-XE:3		LV	2,5	GNYE	42		
47	LV		-Q03:4	-T62:400V		LV	2,5	BK	43		
48	LV		-F57:1	-T62:230V		LV	2,5	BK	44		
49	LV		-F57:2	-K701:R3		LV	2,5	BK	45		
50	LV		-K701:R4	-X21:5	X		2,5	BK	46		
51			-K701:22	-X21:5			2,5	BK	47		
52	LV		-Q03:6	-T62:0		LV	2,5	BK	48		
53	LV		-F57:3	-T62:0		LV	2,5	BK	49		
54	LV		-F57:4	-K701:R5		LV	2,5	BK	51		
55	LV		-K701:R6	-X21:6	X		2,5	BK	52		
56	LV		-F58:3	-X21:6			2,5	BK	53		
57	LV		-F50:3	-X21:7			2,5	BK	54		
58			-X21:8	-X22:4	X		2,5	BK	55		
59	LVD		-H14:x2	-X21:10			2,5	BK	56		
60	LVD		-H14:x1	-K701:21			2,5	BK	57		
61	LV		-F59:2	-U10:+			4	RD	58		
62	LV		-F58:2	-U10:L			2,5	RD	59		
63	LV		-F58:4	-U10:N			2,5	WH	60		
64	LV		-F59:4	-U10:-			4	WH	61		
65	LV		-F59:1	-X23:1	X		4	RD	62		
66	LV		-F59:3	-X23:5	X		4	WH	63		
67	CB		-Q01:U1	-X6:2	X		1,5	BK	64		
68			-X4:1	-X6:3	X		1,5	BK	65		
69			-X4:7	-X6:4	X		1,5	BK	66		
70	LV		-F50:2	-X6:6			2,5	BK	67		
71	LV		-F50:4	-X6:7			2,5	BK	68		
72	CB		-Q01:U2	-X6:8	X		1,5	BK	69		
73			-X5:1	-X6:9	X		1,5	BK	70		
74			-X5:3	-X6:10	X		1,5	BK	71		
75	CB		-Q01:C2	-X5:1	X		1,5	BK	72		
76	LVD		-S12:13	-X4:1	X		1,5	BK	73		

* 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>TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA</div>		<div>Title</div> <div>Module Wire Connection List</div>		<div>Drawing No.</div> <div>4TRD021001C9000</div>		<div>+8504</div>		<div>SIZE</div> <div>A3</div>	
<div>R3V12 06.08.2021 Last Revision Date</div> <div>R0V0 11.02.2021 Creation Date</div> <div>Rev. Date Description SIGN</div>												<div>Project No.</div> <div>K21001</div>		<div>PAGE No.</div> <div>96</div>		<div>REV.</div> <div>97</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
77	CB		-Q01:C1	-X4:5			1,5	BK	74		
78	CB		-Q01:21	-X4:5	X		1,5	BK	75		
79	LVD		-S11:13	-S12:13		LVD	1,5	BK	76		
80	LVD		-S12:14	-X4:3	X		1,5	BK	77		
81	CB		-Q01:22	-X4:3			1,5	BK	78		
82	CB		-Q01:C11	-X4:6			1,5	BK	79		
83	CB		-Q01:C12	-X5:2			1,5	BK	80		
84	CB		-Q01:11	-X4:6	X		1,5	BK	81		
85	LVD		-S11:14	-X4:4	X		1,5	BK	82		
86	CB		-Q01:14	-X4:4			1,5	BK	83		
87	CB		-Q01:31	-X4:7	X		1,5	BK	84		
88	LVD		-H12:x2	-X5:3	X		1,5	BK	85		
89	CB		-Q01:34	-X4:9	X		1,5	BK	86		
90	LVD		-H12:x1	-X4:9			1,5	BK	87		
91	LVD		-H11:x2	-H12:x2		LVD	1,5	BK	88		
92	CB		-Q01:32	-X4:10	X		1,5	BK	89		
93	LVD		-H11:x1	-X4:10			1,5	BK	90		
94		X	-X7:1	-X8:1			1,5	BK	91		
95	CB		-Q01:41	-X8:1	X		1,5	BK	92		
96	CB		-Q01:42	-X7:2	X		1,5	BK	93		
97	CB		-Q01:44	-X7:3	X		1,5	BK	94		
98	CB		-Q01:171	-X8:2			1,5	BK	95		
99	CB		-Q01:174	-X7:4	X		1,5	BK	96		
100	CB		-Q01:111	-X8:2	X		1,5	BK	97		
101	CB		-Q01:114	-X7:5	X		1,5	BK	98		
102	CB		-Q01:131	-X8:3			1,5	BK	99		
103	CB		-Q01:134	-X7:6	X		1,5	BK	100		
104	CB		-Q01:35	-X8:3	X		1,5	BK	101		
105	CB		-Q01:38	-X7:7	X		1,5	BK	102		
106	CB		-Q01:51	-X12:1	X		1,5	BK	103		
107	CB		-Q01:52	-X12:2	X		1,5	BK	104		
108	CB		-Q01:54	-X12:3	X		1,5	BK	105		
109	CB		-Q01:61	-X12:4	X		1,5	BK	106		
110	CB		-Q01:62	-X12:5	X		1,5	BK	107		
111	CB		-Q01:64	-X12:6	X		1,5	BK	108		
112	CB		-Q01:71	-X12:7	X		1,5	BK	109		
113	CB		-Q01:72	-X12:8	X		1,5	BK	110		
114	CB		-Q01:74	-X12:9	X		1,5	BK	111		

* 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.TOPAL</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>TREL-DEU-RMG MOTOR CONTROL CENTRE</div> <div>MNS-GEORGIA</div>		<div>Title</div> <div>Module Wire Connection List</div>		<div>Drawing No.</div> <div>4TRD021001C9000</div>		<div>+8504</div>		<div>SIZE</div> <div>A3</div>	
<div>R3V12 06.08.2021 Last Revision Date</div> <div>Rev. Date Creation Date</div> <div>11.02.2021 Description SIGN</div>				<div>SCALE</div> <div>1</div>								<div>Project No.</div> <div>K21001</div>		<div>PAGE No.</div> <div>97</div>		<div>REV.</div> <div>98</div>			
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Module Wire List

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

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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Module Wire Connection List		Drawing No. 4TRD021001C9000		+8504 SIZE A3	
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA							Project No. K21001		PAGE No. 98			
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL									CONT. 99			REV.
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ												

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TERMINAL DIAGRAM

-X1

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	1	2	3	4	5	6	7	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
s1	-T1L1	5 BK	•	1	•					17 BK	-P49	1	/87.3:C
s1	-T1L2	10 BK	•	2	•					18 BK	-P49	3	/87.3:C
s1	-T1L3	14 BK	•	3	•					19 BK	-P49	5	/87.3:C
s2	-T1L1	4 BK	●	4	•								/87.3:B
s2	-T1L2	9 BK	●	5	•								/87.3:B
s2	-T1L3	13 BK	●	6	•								/87.3:C
1	-XE	15 GNYE	●	7	•					16 BK	-P49	2	/87.3:C

TOTAL TERMINALS COUNT: 7 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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8504		SIZE A3	
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA													PAGE No. 99					
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL													REV.					
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ													CONT. 100					











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TOTAL TERMINALS COUNT: 10 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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8504		SIZE A3	
R3V12 06.08.2021 Last Revision Date ROV0 11.02.2021 Creation Date Rev. Date Description SIGN				SCALE 1		DESIGNED BY : VINEETHA CHECKED BY : O.TOPAL APPROVED BY : O.YILMAZ						Project No. K21001		PAGE No. 100 CONT. 101		 REV.			

TERMINAL DIAGRAM

5X-

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR		POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
C2	-Q01	72 BK		1		-X6	/90.3:E
				2		-Q01	/90.5:E
x2	-H12	85 BK		3		-X6	/91.2:E
				4			/91.3:E
10	-P49	135 BK		5		-XP	/87.3:D

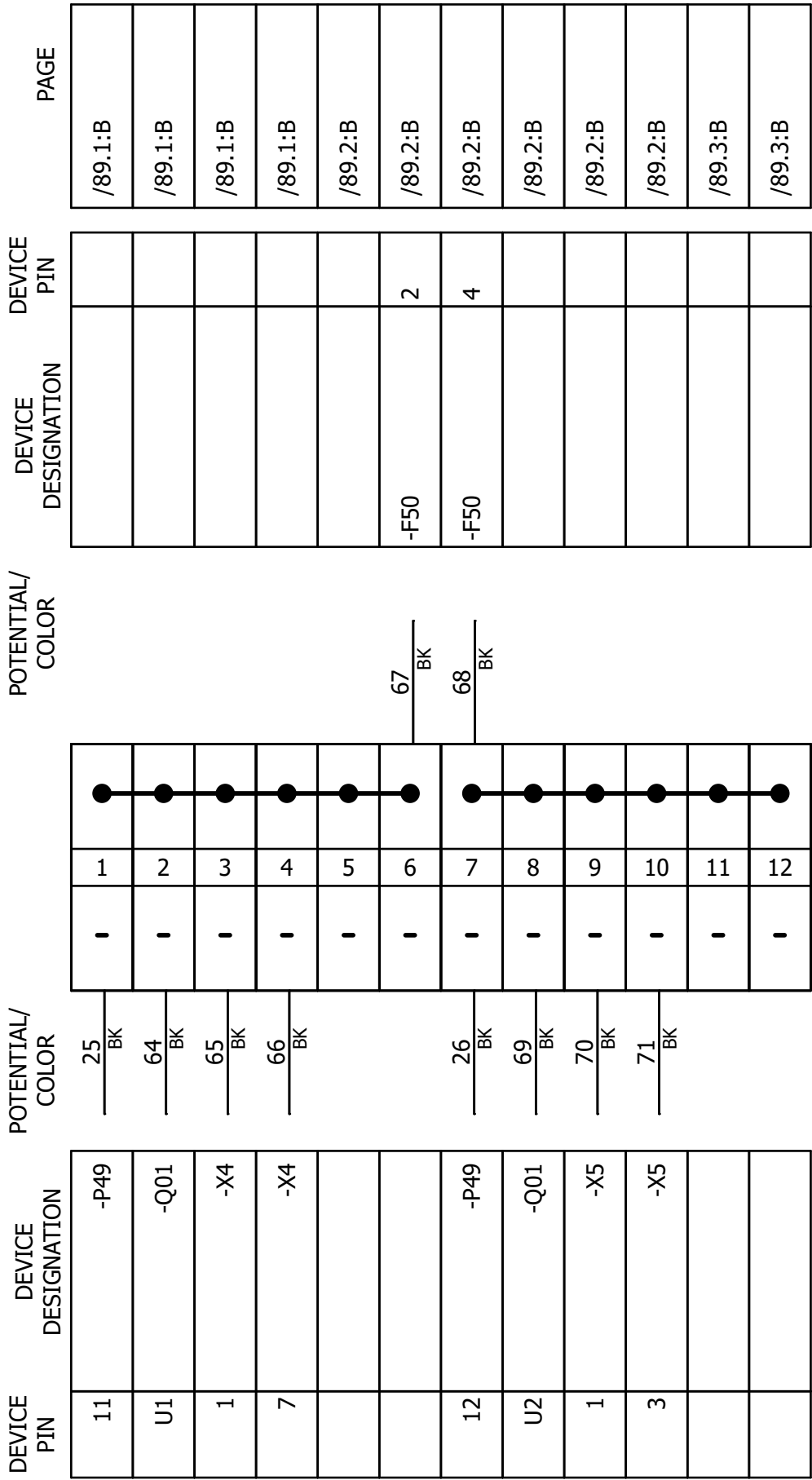
TOTAL TERMINALS COUNT: 5 PCS
TERMINAL TYPE: Feed-through terminal block - PT 2,5

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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8504 SIZE A3	
R3V12 06.08.2021 Last Revision Date ROV0 11.02.2021 Creation Date Rev. Date Description SIGN				SCALE 1 DESIGNED BY : VINEETHA CHECKED BY : O.TOPAL APPROVED BY : O.YILMAZ								Project No. K21001		PAGE No. 101 CONT. 102		 REV.	

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TERMINAL DIAGRAM




-X6



TOTAL TERMINALS COUNT: 12 PCS
TERMINAL TYPE: Feed-through terminal block - PT 2,5

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TOTAL TERMINALS COUNT: 7 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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8504 SIZE A3	
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA							Project No. K21001		PAGE No. 103			
R0V0	11.02.2021	Creation Date	CHECKED BY : O.TOPAL		CONT. 104									REV.			
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ												










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DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
41	-Q01	92 BK	91 BK	-X7	1	/92.1:C
111	-Q01	97 BK	95 BK	-Q01	171	/92.2:C
35	-Q01	101 BK	99 BK	-Q01	131	/92.3:C




TOTAL TERMINALS COUNT: 3 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  ELEKTRİK SAN. A.Ş.		Customer RMG COPPER JSC 		End User RMG COPPER JSC 		Project TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8504 SIZE A3	
R3V12 06.08.2021 Last Revision Date ROV0 11.02.2021 Creation Date Rev. Date Description SIGN				SCALE 1 DESIGNED BY : VINEETHA CHECKED BY : O.TOPAL APPROVED BY : O.YILMAZ								Project No. K21001		PAGE No. 104 CONT. 105		 REV.	

TERMINAL DIAGRAM
X10




DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
15	-P49	 BU	 1	-		/87.6:A
			 2	-		/87.6:A
14	-P49	 WH	 3	-		/87.6:A
			 4	-		/87.6:A
16	-P49	 SH	 5	-		/87.6:A
			 6	-		/87.6:A

TOTAL TERMINALS COUNT: 6 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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8504 SIZE A3	
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA							Project No. K21001		PAGE No. 105			
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL									CONT. 106			REV.
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ												

-X12

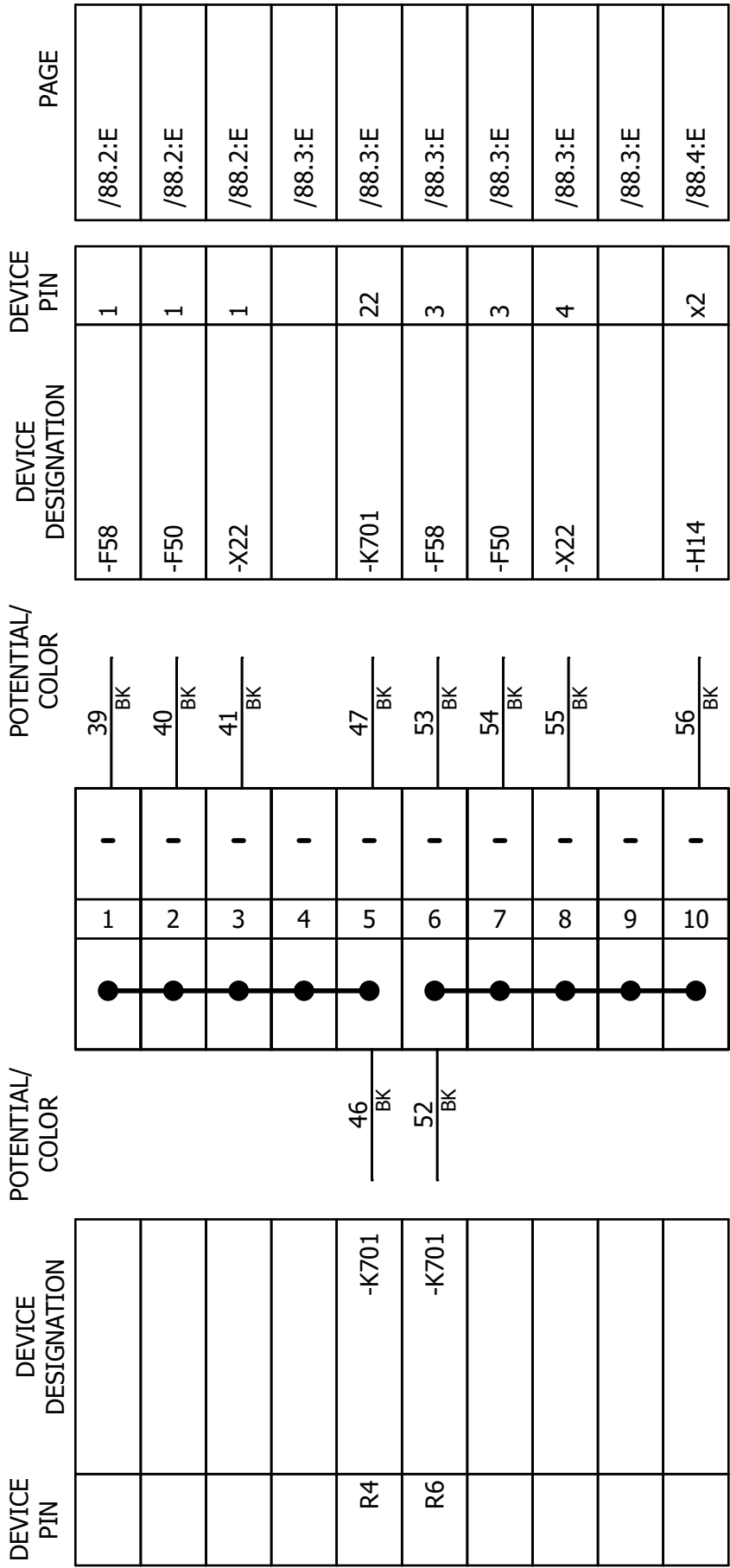
TOTAL TERMINALS COUNT: 32 PCS
TERMINAL TYPE: Feed-through terminal block - PT 2,5

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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8504 SIZE A3	
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA							Project No. K21001		PAGE No. 106			
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL									CONT. 107			REV.
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TERMINAL DIAGRAM

-X21



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

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TERMINAL DIAGRAM -X22															
POTENTIAL/ COLOR		POTENTIAL/ COLOR		POTENTIAL/ COLOR		POTENTIAL/ COLOR		POTENTIAL/ COLOR		POTENTIAL/ COLOR		POTENTIAL/ COLOR		POTENTIAL/ COLOR	
41 BK		55 BK		41 BK		55 BK		41 BK		55 BK		41 BK		55 BK	
1		2		3		4		5		6		7		8	
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TERMINAL DIAGRAM

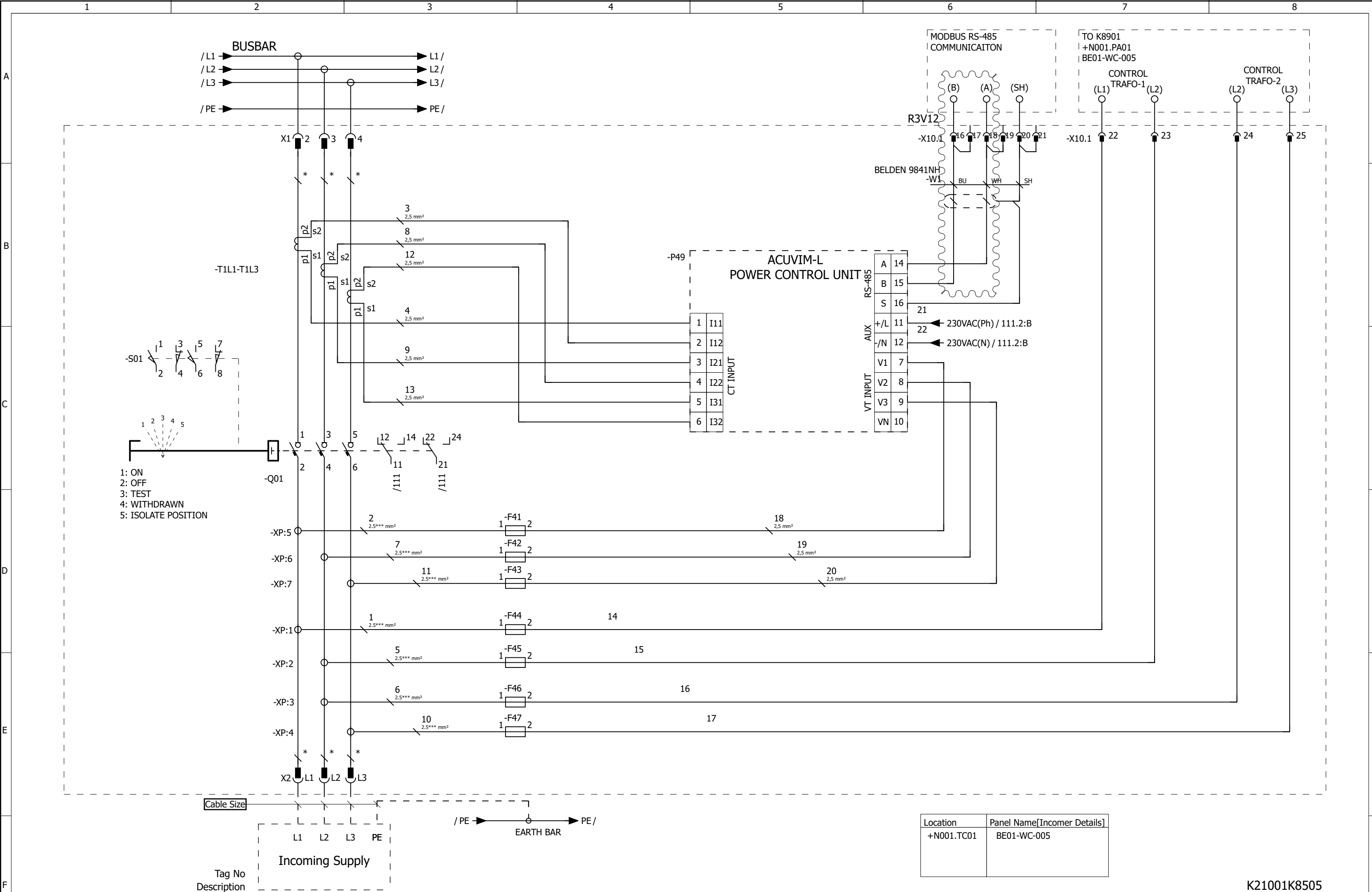
-X23

DEVICE		POTENTIAL/ COLOR	DEVICE		POTENTIAL/ COLOR	DEVICE		PAGE
PIN	DESIGNATION		PIN	DESIGNATION		PIN	DESIGNATION	
1	-F59	62 RD	1		1			/88.7:A
					2			/88.7:A
					3			/88.8:A
					4			/88.8:A
3	-F59	63 WH	5		5			/88.8:A
					6			/88.8:A
					7			/88.8:A
					8			/88.8:A

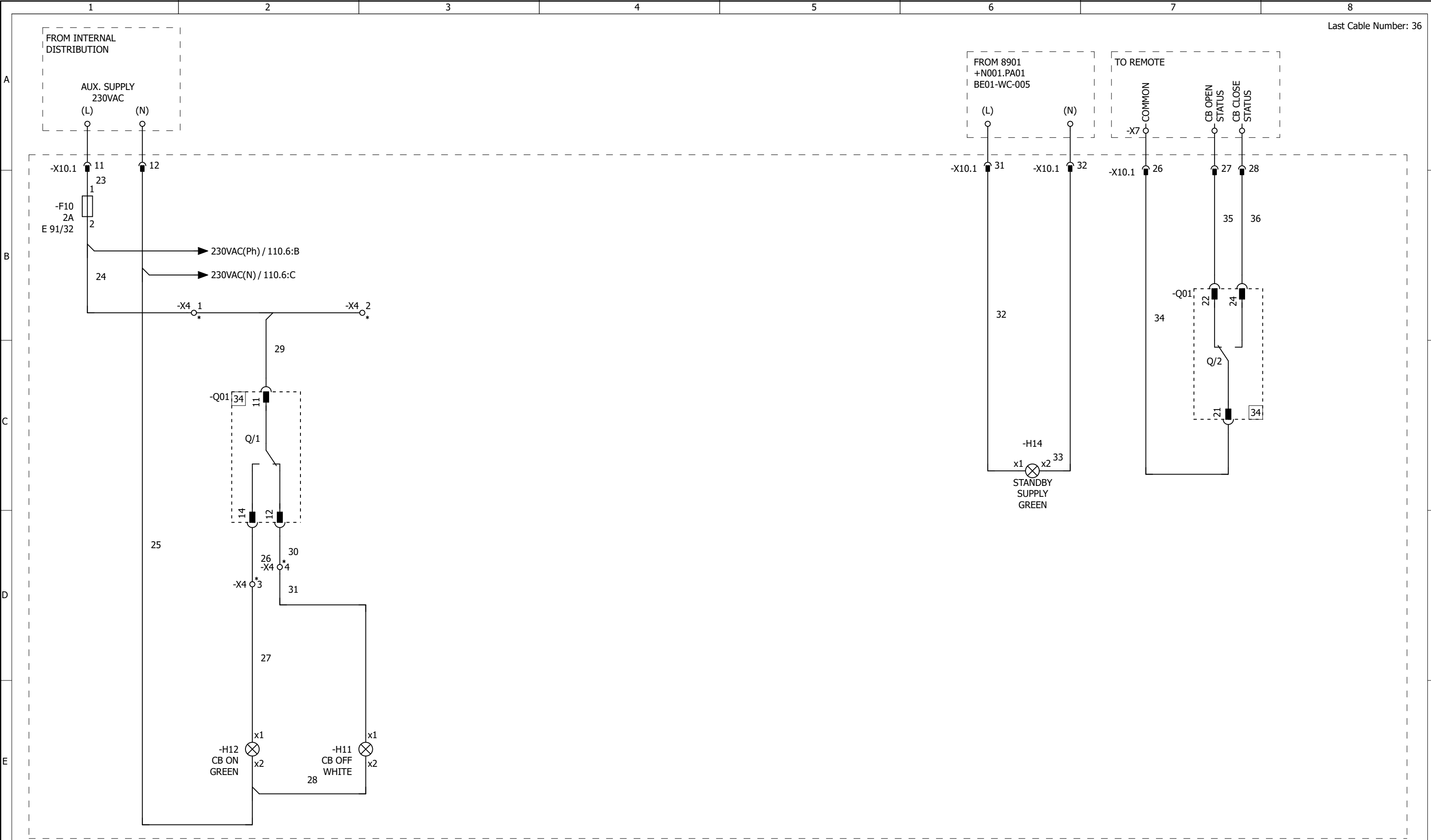
TOTAL TERMINALS COUNT: 8 PCS
TERMINAL TYPE: Feed-through terminal block - PT 4

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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8504	SIZE A3
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA									Project No. K21001		PAGE No. 109	
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL											CONT. +8505/110	
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ												REV.
1				2		3		4		5		6		7		8	

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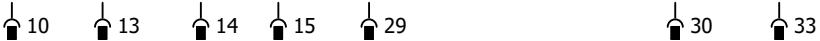





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
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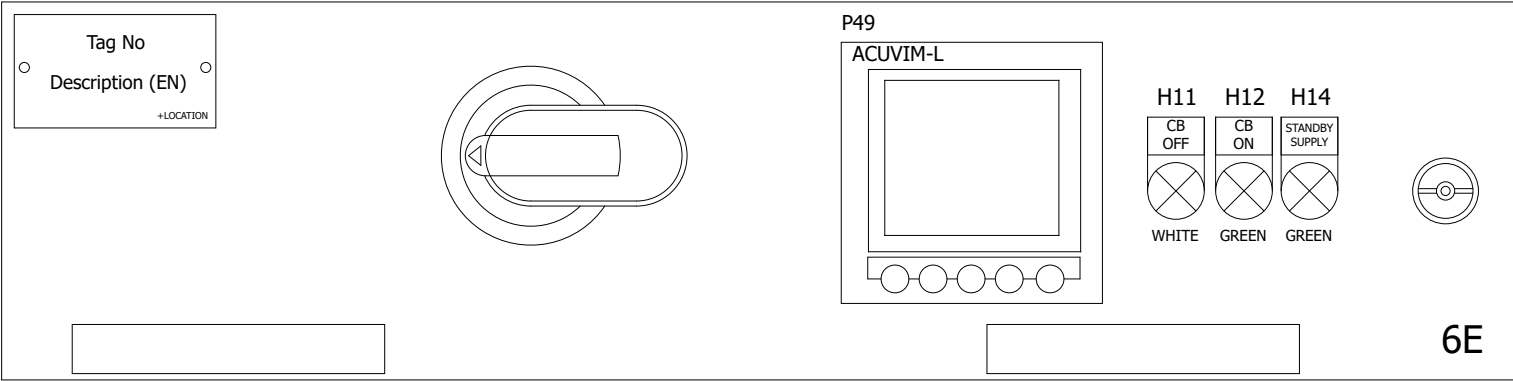
SPARE TERMINALS



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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA				Title INCOMER_XT1D 160 SD_3P_100A_6E				Drawing No. 4TRD021001C9000				+8505		SIZE A3	
R3V12		21.06.2021		Last Revision Date				SCALE 1		DESIGNED BY : VINEETHA														Project No. K21001		PAGE No. 111									
R0V0		11.02.2021		Creation Date				CHECKED BY : O.TOPAL		CONT. 112																REV.									
Rev.		Date		Description		SIGN		APPROVED BY : O.YILMAZ																											
1				2				3				4				5				6				7				8							

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R3V12		21.06.2021		Last Revision Date				SCALE 3		DESIGNED BY : VINEETHA		Project No. K21001		PAGE No.		112			
R0V0		11.02.2021		Creation Date						CHECKED BY : O.TOPAL				CONT.		113			
Rev.		Date		Description		SIGN				APPROVED BY : O.YILMAZ				REV.					
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K21001K8505






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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		X	-X10.1:16	-X10.1:17	X		1,5	BK			
2		X	-X10.1:18	-X10.1:19	X		1,5	BK			
3		X	-X10.1:20	-X10.1:21	X		1,5	BK			
4	WD		-Q01:1	-X1:2	X		*	BK			
5	WD		-Q01:3	-X1:3	X		*	BK			
6	WD		-Q01:5	-X1:4	X		*	BK			
7	LV		-P49:16	-X10.1:20	X		W1**	SH			
8	LV		-P49:15	-X10.1:16	X		W1 **	BU			
9	LV		-P49:14	-X10.1:18	X		W1 **	WH			
10	WD		-F44:1	-XP:1			2.5***	BK	1		
11	WD		-F41:1	-XP:5			2.5***	BK	2		
12	LV		-P49:2	-T1L1:s2		CT	2,5	BK	3		
13	LV		-P49:1	-T1L1:s1		CT	2,5	BK	4		
14	WD		-F45:1	-XP:2			2.5***	BK	5		
15	WD		-F46:1	-XP:3			2.5***	BK	6		
16	WD		-F42:1	-XP:6			2.5***	BK	7		
17	LV		-P49:4	-T1L2:s2		CT	2,5	BK	8		
18	LV		-P49:3	-T1L2:s1		CT	2,5	BK	9		
19	WD		-F47:1	-XP:4			2.5***	BK	10		
20	WD		-F43:1	-XP:7			2.5***	BK	11		
21	LV		-P49:6	-T1L3:s2		CT	2,5	BK	12		
22	LV		-P49:5	-T1L3:s1		CT	2,5	BK	13		
23	WD		-F44:2	-X10.1:22	X		1,5	BK	14		
24	WD		-F45:2	-X10.1:23	X		1,5	BK	15		
25	WD		-F46:2	-X10.1:24	X		1,5	BK	16		
26	WD		-F47:2	-X10.1:25	X		1,5	BK	17		
27	WD		-F41:2	-P49:7		LV	2,5	BK	18		
28	WD		-F42:2	-P49:8		LV	2,5	BK	19		
29	WD		-F43:2	-P49:9		LV	2,5	BK	20		
30	WD		-F10:2	-P49:11		LV	1,5	BK	21		
31	LV		-P49:12	-X10.1:12	X		1,5	BK	22		
32	WD		-F10:1	-X10.1:11	X		1,5	BK	23		
33	WD		-F10:2	-X4:1			1,5	BK	24		
34	WD		-H12:x2	-X10.1:12	X		1,5	BK	25		
35	CB		-Q01:14	-X4:3	X		1,5	BK	26		
36	WD		-H12:x1	-X4:3			1,5	BK	27		
37	WD		-H11:x2	-H12:x2		WD	1,5	BK	28		
38	CB		-Q01:11	-X4:2			1,5	BK	29		

* 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>Customer</div> <div>RMG COPPER JSC </div>		<div>End User</div> <div>RMG COPPER JSC </div>		<div>Project</div> <div>TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA</div>		<div>Title</div> <div>Module Wire Connection List</div>		<div>Drawing No.</div> <div>4TRD021001C9000</div>		<div>+8505</div>		<div>SIZE</div> <div>A3</div>	
<div>R3V12 06.08.2021 Last Revision Date</div> <div>Rev. 11.02.2021 Creation Date</div> <div>Date Description SIGN</div>				<div>SCALE</div> <div>1</div>		<div>DESIGNED BY : VINEETHA</div> <div>CHECKED BY : O.TOPAL</div> <div>APPROVED BY : O.YILMAZ</div>								<div>Project No.</div> <div>K21001</div>		<div>PAGE No.</div> <div>113</div>		<div>REV.</div> <div></div>	
1				2		3		4		5		6		7		8			

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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Module Wire Connection List		Drawing No. 4TRD021001C9000		+8505		SIZE A3	
06.08.2021 Last Revision Date			SCALE 1						TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Module Wire Connection List		Project No. K21001		PAGE No. 114			
1.02.2021 Creation Date Date Description SIGN			DESIGNED BY : VINEETHA CHECKED BY : O.TOPAL APPROVED BY : Y.YILMAZ						TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Module Wire Connection List		K21001		CONT. 115		REV.	




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TERMINAL DIAGRAM

-X4

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	1	2	3	4	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
			●	●	●	●	24 BK	-F10	2	/111.2:B
							29 BK	-Q01	11	/111.3:B
14	-Q01	26 BK	●				27 BK	-H12	x1	/111.2:D
12	-Q01	30 BK	●				31 BK	-H11	x1	/111.2:D




TOTAL TERMINALS COUNT: 4 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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8505	SIZE A3	
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA									Project No. K21001		PAGE No.	115	
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL											CONT.	116	
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ													
1				2				3		4		5		6		7		8

TERMINAL DIAGRAM

-X10.1

TOTAL TERMINALS COUNT: 24 PCS
 TERMINAL TYPE: WITHDRAWABLE MODULE CONTROL PLUG

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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8505 SIZE A3	
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA							Project No. K21001		PAGE No. 116			
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL							CONT. +8506/117		REV.			
Rev.	Date	Description	SIGN									APPROVED BY : O.YILMAZ					

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-Q01		FUNCTION	ON	OFF	TEST (ON)	TEST (OFF)	ISOLATED POS.
CONTACTS							
01	02		X			X	
	04	X		X			
11	12		X		X		
	14	X		X			
21	22		X		X		
	24	X		X			
31	32		X		X		
	34	X		X			
41	42		X		X		
	44	X		X			
51	52		X		X		
	54	X		X			
61	62		X		X		
	64	X		X			
71	72		X		X		
	74	X		X			
81	82		X		X		
	84	X		X			
91	92		X		X		
	94	X		X			

1 2.5*** mm² L1(Q02) / 119.2:B

2 2.5*** mm² L2(Q02) / 119.2:B

3 2.5*** mm² L2(Q03) / 119.3:B

4 2.5*** mm² L3(Q03) / 119.3:B

N1 1L1 1L2 1L3

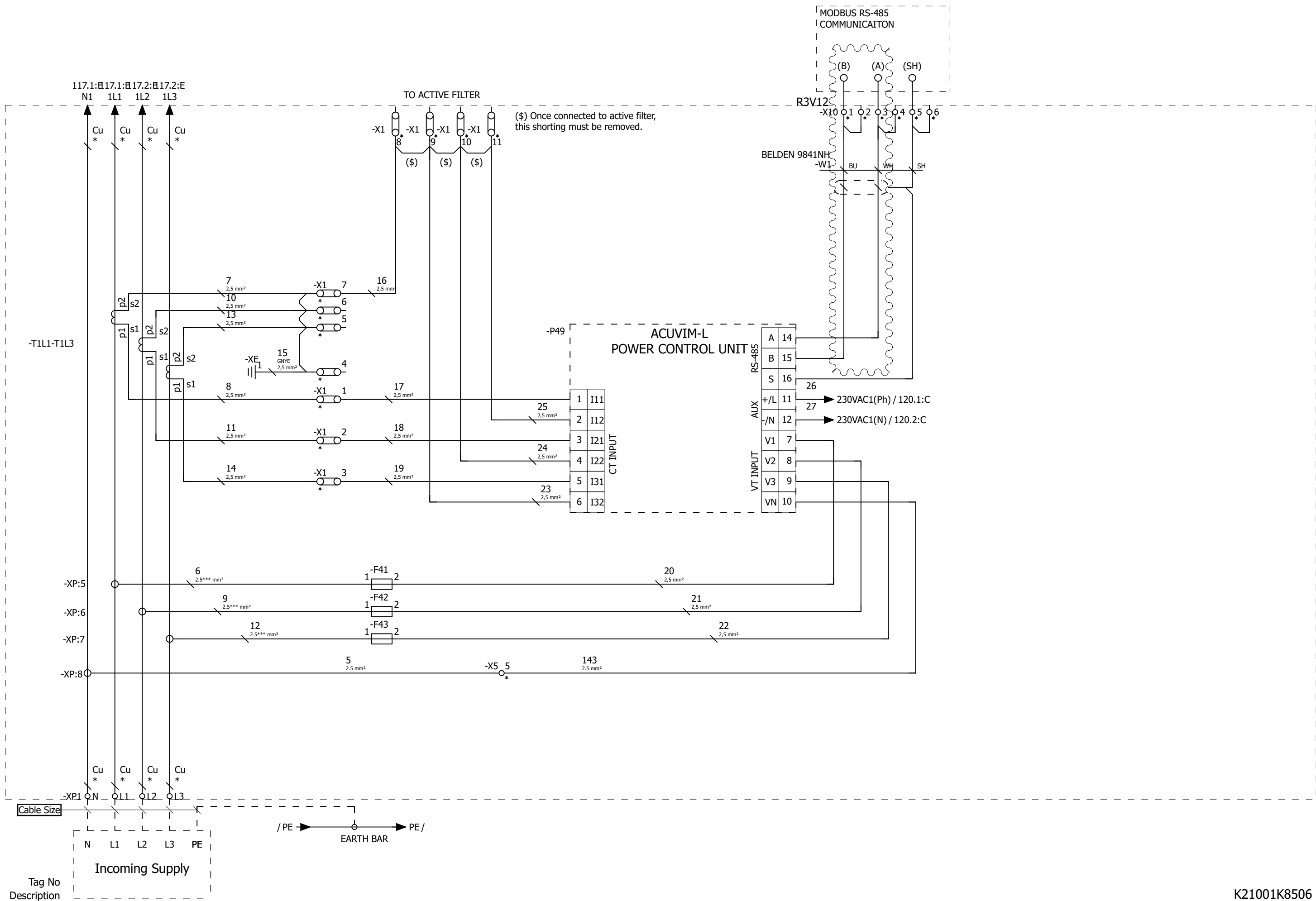
118.1:A18.1:A18.2:A18.2:A






Location	Panel Name[Incomer Details]
+N006.AA01	BE01-WC-006

DESIGNATIONS	S75E/1	S75E/2	S75T/1	S75T/2	S75I/1	S75I/2
TERMINALS	101	111	121	131	141	151
	102 104	112 114	122 124	132 134	142 144	152 154
CB IN BELOW POSITIONS						
SERVICE	X	X	X	X	X	X
TEST	X	X	X	X	X	X
RACKED OUT	X	X	X	X	X	X

K21001K8506

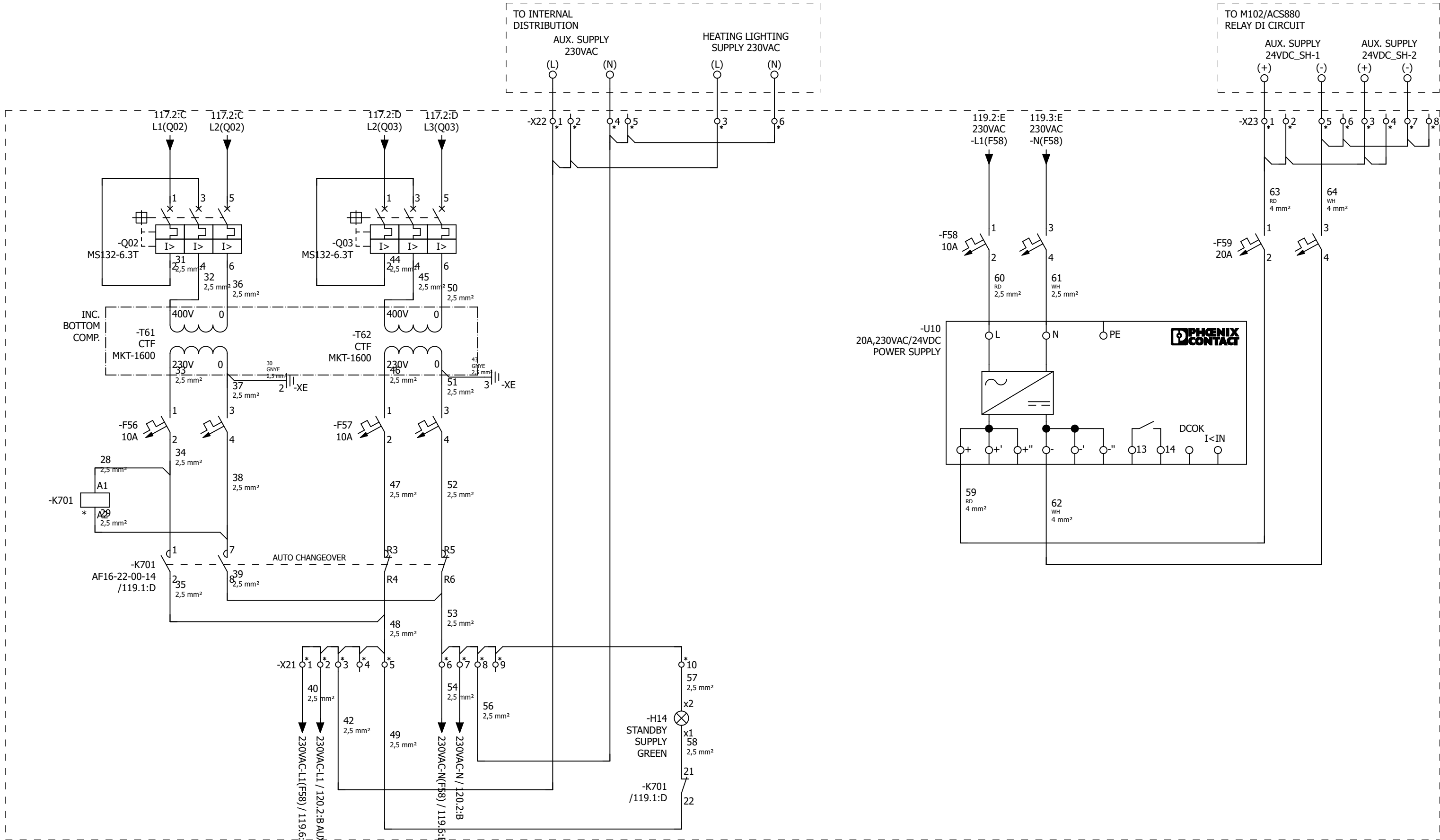
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R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA														
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL														
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ														
1		2		3															4

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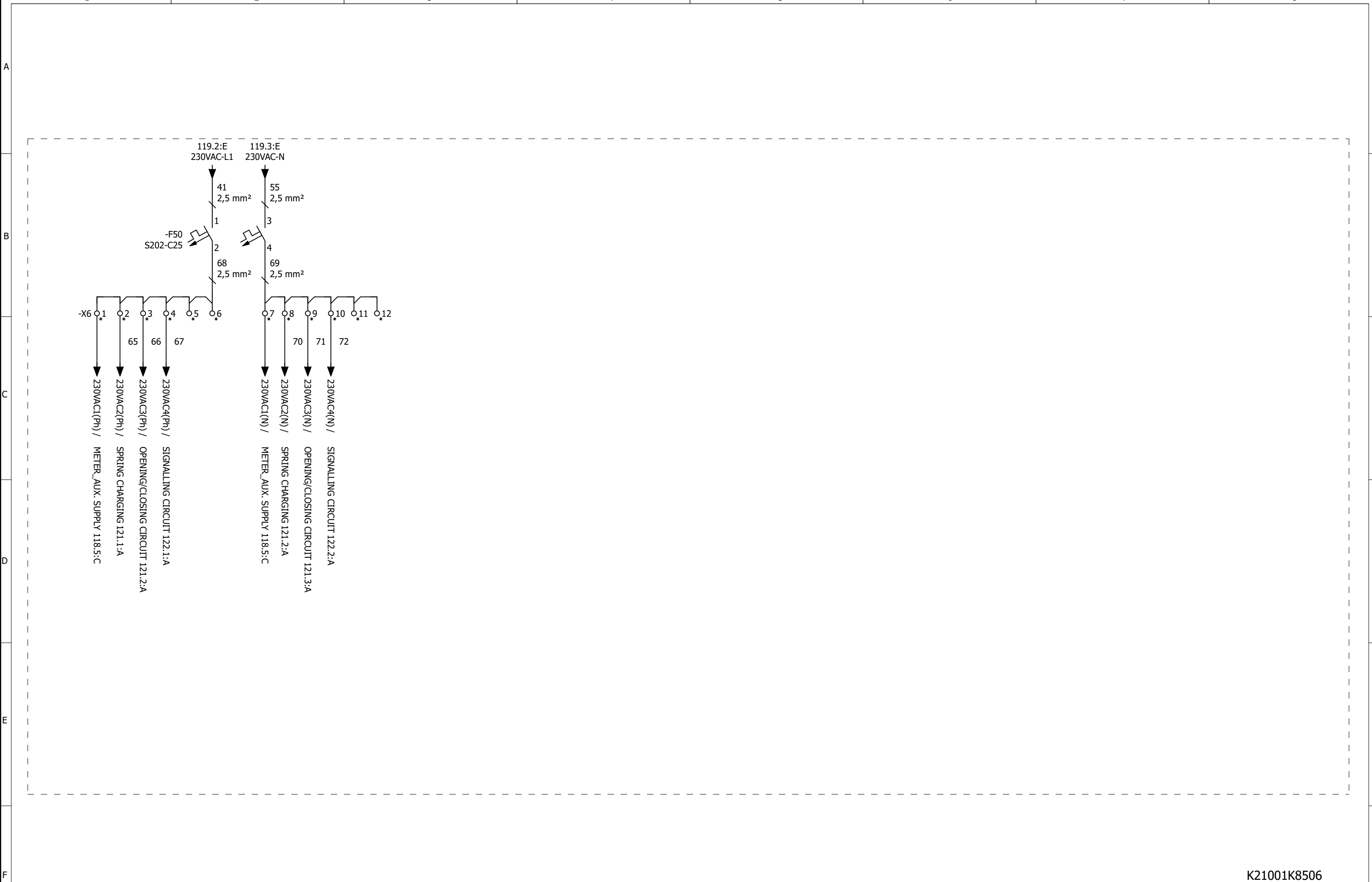
- 1 2 /119.2:D
7 8 /119.2:D
21 22 /119.4:E
R3 R4 /119.3:D
R5 R6 /119.3:D






* Note: 1. 4-pole contactors fitted with 2 N.O. + 2 N.C. main poles
These contactors are suitable for controlling 2 separate circuits, i.e. 2 loads with 2 separate supplies, or 1 circuit comprising
2. 2 separate loads with a single supply (see diagrams below). When the contactor operates there is no mechanical overlapping
between the N.O. poles and the N.C. poles: BREAK before MAKE

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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title INCOMER_Emax 2_E1.2N_MS Type_4P_1000A		Drawing No. 4TRD021001C9000		+8506		SIZE A3	
R3V12	30.07.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA													Project No. K21001		PAGE No.	119		REV.
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL															CONT.	120		
Rev.	Date	Description	SIGN		APPROVED BY: O.YILMAZ																		

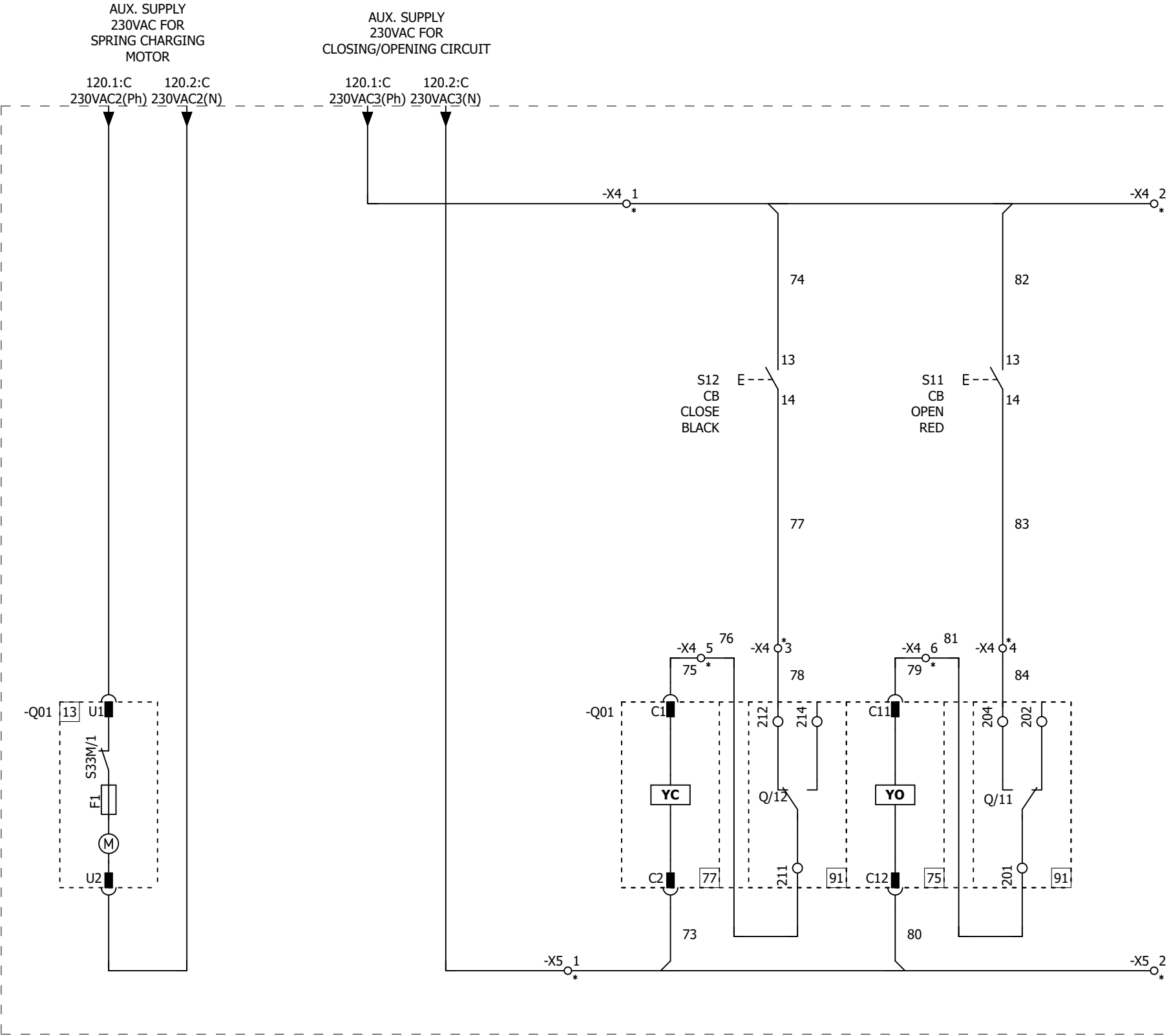
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R3V12	24.06.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA								Project No. K21001		PAGE No. 120				
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL										CONT. 121		REV.		
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ														
1				2		3		4		5		6		7		8			

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(#) REMOVE LINKS IF CONNECTED

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As Tested	<input type="checkbox"/>	As Build	<input type="checkbox"/>
R3V12	27.07.2021	Last Revision Date	
R0V0	11.02.2021	Creation Date	
Rev.	Date	Description	SIGN

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

Customer	RMG COPPER JSC
End User	RMG COPPER JSC



Project	TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA
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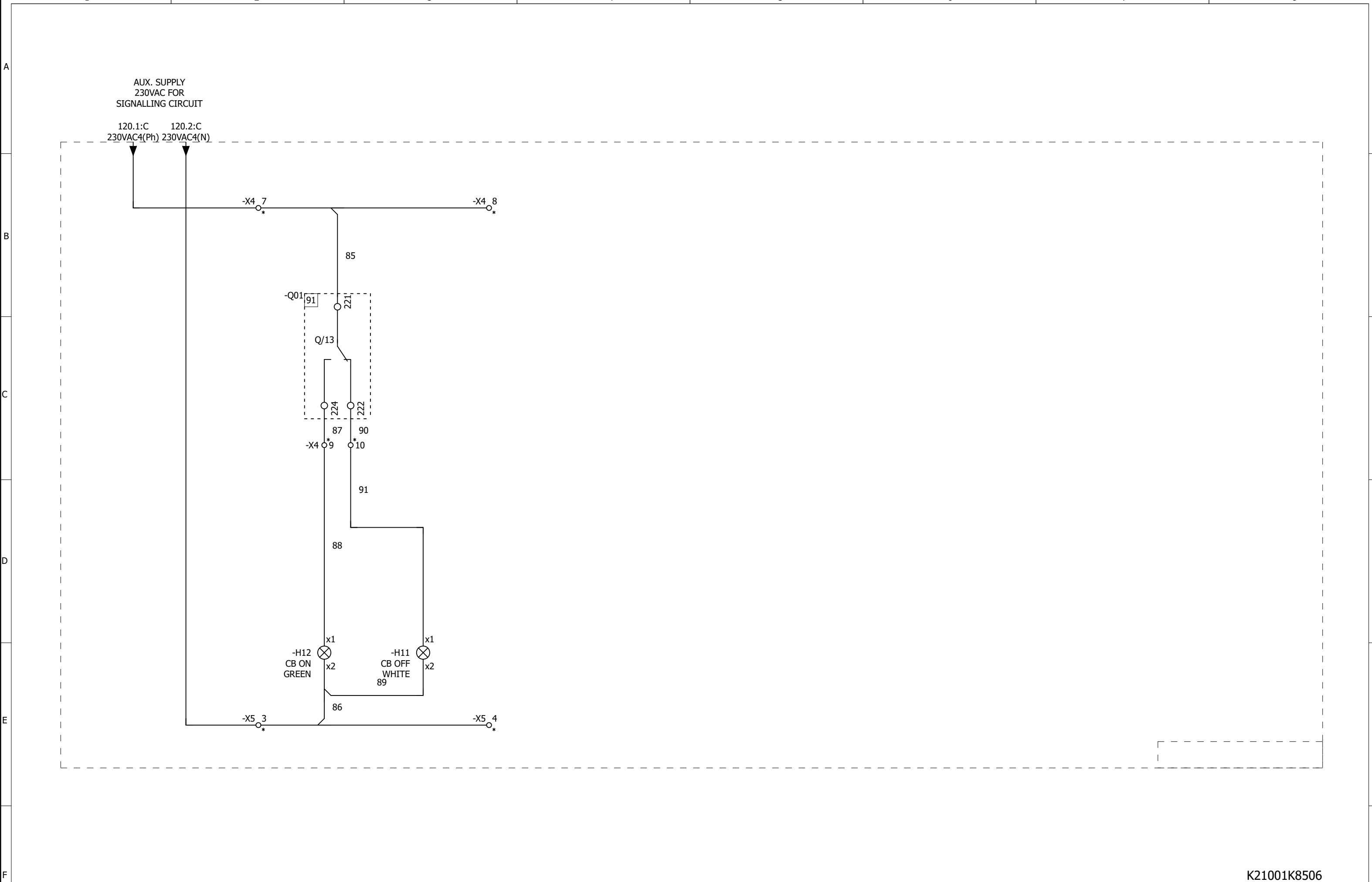
Title	INCOMER_Emax 2_E1.2N_MS Type_4P_1000A
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Drawing No.	4TRD021001C9000
Project No.	K21001

+8506	SIZE	A3
PAGE No. 121	REV.	
CONT. 122		

K21001K8506

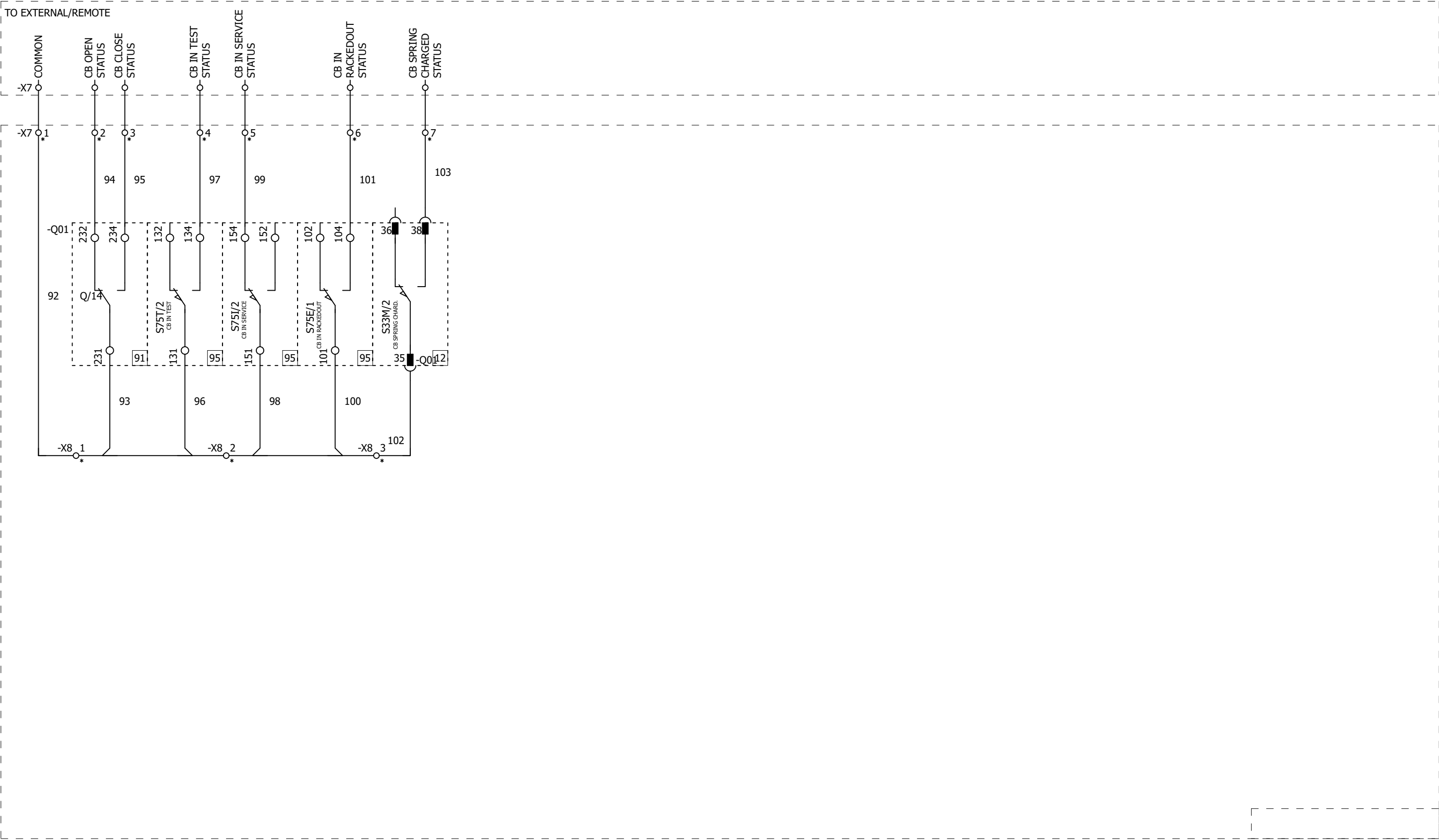
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R3V12	30.04.2021	Last Revision Date		SCALE 1				DESIGNED BY : VINEETHA				CHECKED BY : O.TOPAL				APPROVED BY : O.YILMAZ												Project No. K21001				PAGE No. 122				REV.			
R0V0	11.02.2021	Creation Date																										CONT. 123											
Rev.	Date	Description	SIGN																																				

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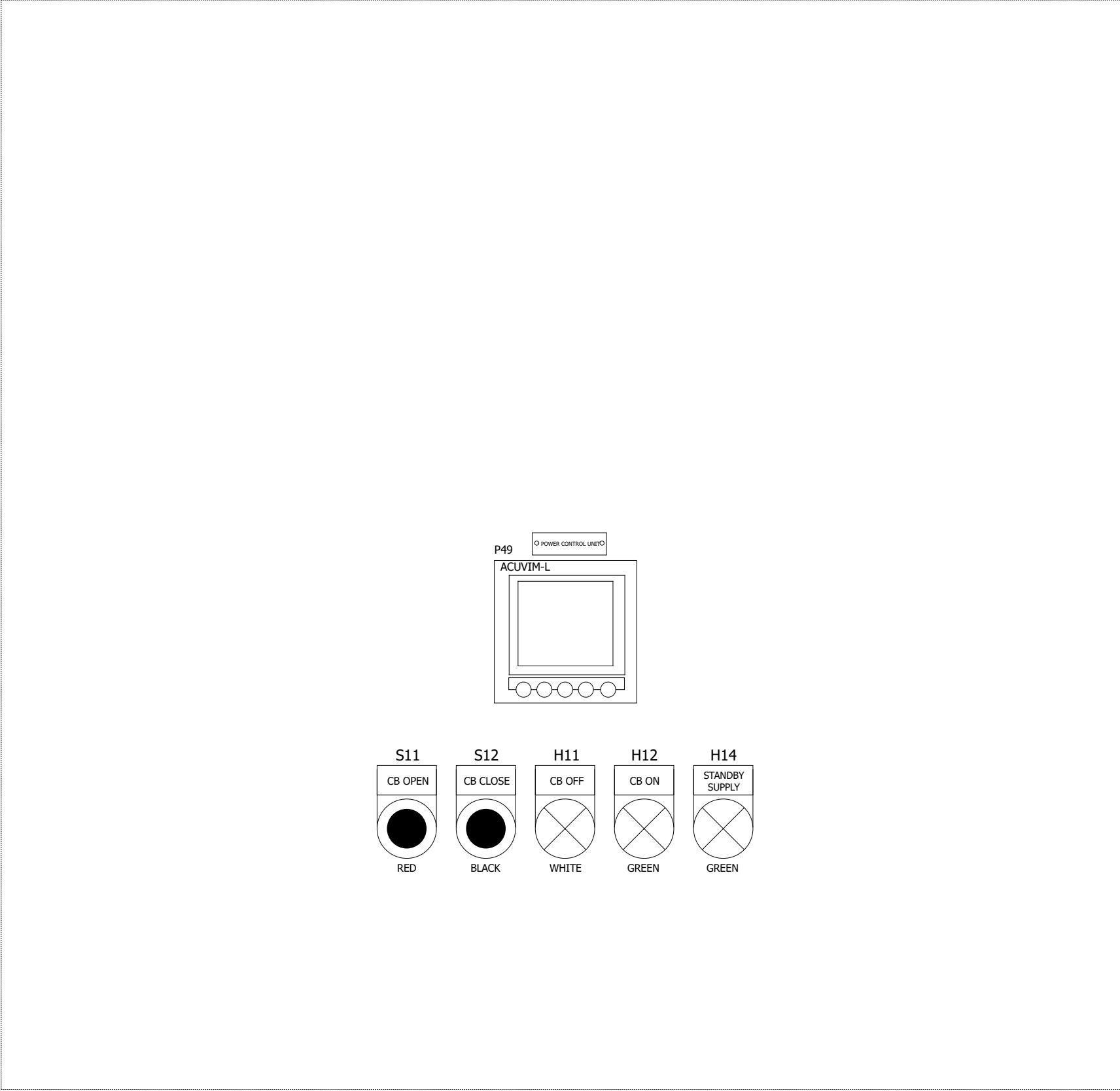
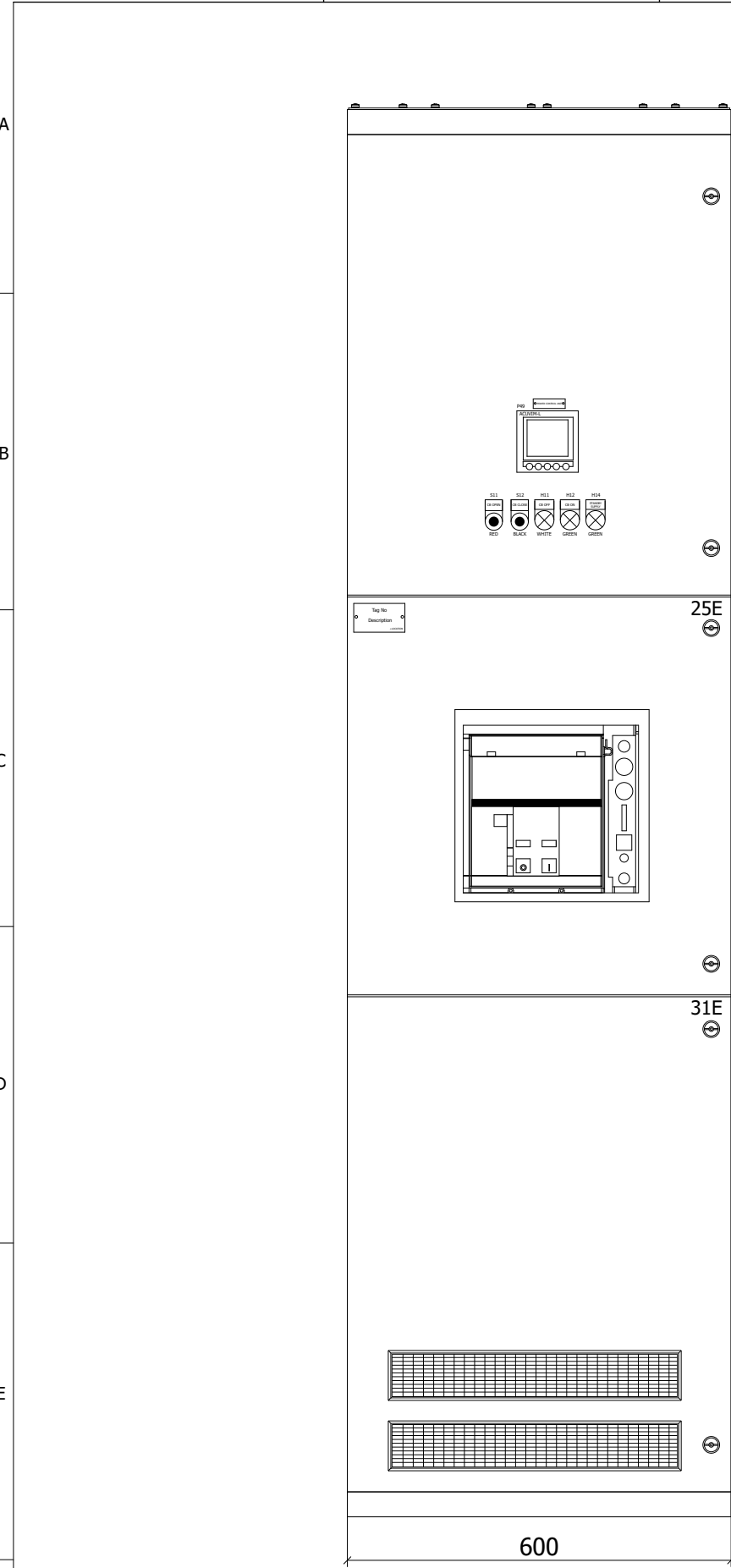





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<div>For Approval <input type="checkbox"/> As Tested <input type="checkbox"/></div> <div>Approved For Construction <input checked="" type="checkbox"/> As Build <input type="checkbox"/></div>				<div>Supplier</div> <div><div>ABB</div><div>ELEKTRİK SAN. 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><div>TREL-DEU-RMG MOTOR CONTROL CENTRE</div><div>MNS-GEORGIA</div></div>		<div>Title</div> <div><div>INCOMER_Emax 2_E1.2N_MS Type_4P_1000A</div></div>				<div>Drawing No.</div> <div><div>4TRD021001C9000</div></div>		<div>+8506</div>	<div>SIZE</div> <div><div>A3</div></div>	
<div>R3V12</div>	<div>30.04.2021</div>	<div>Last Revision Date</div>	<div></div>	<div>SCALE</div> <div>1</div>	<div>DESIGNED BY : VINEETHA</div>	<div></div>	<div></div>	<div></div>	<div><div>Project No.</div><div>K21001</div></div>	<div>PAGE No.</div>	<div>123</div>	<div></div>								
<div>R0V0</div>	<div>11.02.2021</div>	<div>Creation Date</div>	<div></div>		<div>CHECKED BY : O.TOPAL</div>					<div>CONT.</div>	<div>124</div>	<div>REV.</div>								
<div>Rev.</div>	<div>Date</div>	<div>Description</div>	<div>SIGN</div>		<div>APPROVED BY : O.YILMAZ</div>															
<div>1</div>				<div>2</div>		<div>3</div>		<div>4</div>		<div>5</div>		<div>6</div>		<div>7</div>	<div>8</div>					

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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title INCOMER_Emax 2_E1.2N_MS Type_4P_1000A		Drawing No. 4TRD021001C9000		+8506		SIZE A3	
R3V12 30.04.2021 Last Revision Date ROV0 11.02.2021 Creation Date Rev. Date Description SIGN				SCALE 1		DESIGNED BY : VINEETHA CHECKED BY : O.TOPAL APPROVED BY : O.YILMAZ						Project No. K21001		PAGE No. 124					
														CONT. 125		REV.			

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<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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title INCOMER_Emax 2_E1.2N_MS Type_4P_1000A		Drawing No. 4TRD021001C9000		+8506		SIZE A3	
R3V12	04.05.2021	Last Revision Date		SCALE 10	DESIGNED BY : VINEETHA									Project No. K21001		PAGE No.	125		REV.
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL											CONT.	126		
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ														
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
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	LV		-Q02:1	-XP:1			2.5***	BK	1		
5	LV		-Q02:5	-XP:2			2.5***	BK	2		
6	LV		-Q03:1	-XP:3			2.5***	BK	3		
7	LV		-Q03:5	-XP:4			2.5***	BK	4		
8			-X5:5	-XP:8			2.5	BK	5		
9	LV		-F41:1	-XP:5			2.5***	BK	6		
10	CT		-T1L1:s2	-X1:7	X		2,5	BK	7		
11	CT		-T1L1:s1	-X1:1	X		2,5	BK	8		
12	LV		-F42:1	-XP:6			2.5***	BK	9		
13	CT		-T1L2:s2	-X1:6	X		2,5	BK	10		
14	CT		-T1L2:s1	-X1:2	X		2,5	BK	11		
15	LV		-F43:1	-XP:7			2.5***	BK	12		
16	CT		-T1L3:s2	-X1:5	X		2,5	BK	13		
17	CT		-T1L3:s1	-X1:3	X		2,5	BK	14		
18		X	-X1:4	-XE:1			2,5	GNYE	15		
19			-X1:7	-X1:8	X		2,5	BK	16		
20	LV		-P49:1	-X1:1			2,5	BK	17		
21	LV		-P49:3	-X1:2			2,5	BK	18		
22	LV		-P49:5	-X1:3			2,5	BK	19		
23	LV		-F41:2	-P49:7		LV	2,5	BK	20		
24	LV		-F42:2	-P49:8		LV	2,5	BK	21		
25	LV		-F43:2	-P49:9		LV	2,5	BK	22		
26	LV		-P49:6	-X1:9	X		2,5	BK	23		
27	LV		-P49:4	-X1:10	X		2,5	BK	24		
28	LV		-P49:2	-X1:11	X		2,5	BK	25		
29	LV		-P49:11	-X6:1	X		1,5	BK	26		
30	LV		-P49:12	-X6:7	X		1,5	BK	27		
31	LV		-K701:1	-K701:A1		LV	2,5	BK	28		
32	LV		-K701:7	-K701:A2		LV	2,5	BK	29		
33	LV		-T61:0	-XE:2		LV	2,5	GNYE	30		
34	LV		-Q02:2	-Q02:3		LV	2,5	BK	31		
35	LV		-Q02:4	-T61:400V		LV	2,5	BK	32		
36	LV		-F56:1	-T61:230V		LV	2,5	BK	33		
37	LV		-F56:2	-K701:1		LV	2,5	BK	34		
38	LV		-K701:2	-K701:R4		LV	2,5	BK	35		

* 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>TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA</div>		<div>Title</div> <div>Module Wire Connection List</div>		<div>Drawing No.</div> <div>4TRD021001C9000</div>		<div>+8506</div>		<div>SIZE</div> <div>A3</div>	
<div>R3V12 06.08.2021 Last Revision Date</div> <div>Rev. Date</div>				<div>Creation Date</div> <div>DESCRIPTION</div>		<div>CHECKED BY : O.TOPAL</div> <div>APPROVED BY: O.YILMAZ</div>						<div>Project No.</div> <div>K21001</div>		<div>PAGE No.</div> <div>126</div>		<div>REV.</div>			
														<div>CONT.</div> <div>127</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	LV		-Q02:6	-T61:0		LV	2,5	BK	36		
40	LV		-F56:3	-T61:0		LV	2,5	BK	37		
41	LV		-F56:4	-K701:7		LV	2,5	BK	38		
42	LV		-K701:8	-K701:R6		LV	2,5	BK	39		
43	LV		-F58:1	-X21:1			2,5	BK	40		
44	LV		-F50:1	-X21:2			2,5	BK	41		
45			-X21:3	-X22:1	X		2,5	BK	42		
46	LV		-T62:0	-XE:3		LV	2,5	GNYE	43		
47	LV		-Q03:2	-Q03:3		LV	2,5	BK	44		
48	LV		-Q03:4	-T62:400V		LV	2,5	BK	45		
49	LV		-F57:1	-T62:230V		LV	2,5	BK	46		
50	LV		-F57:2	-K701:R3		LV	2,5	BK	47		
51	LV		-K701:R4	-X21:5	X		2,5	BK	48		
52	LV		-K701:22	-X21:5			2,5	BK	49		
53	LV		-Q03:6	-T62:0		LV	2,5	BK	50		
54	LV		-F57:3	-T62:0		LV	2,5	BK	51		
55	LV		-F57:4	-K701:R5		LV	2,5	BK	52		
56	LV		-K701:R6	-X21:6	X		2,5	BK	53		
57	LV		-F58:3	-X21:6			2,5	BK	54		
58	LV		-F50:3	-X21:7			2,5	BK	55		
59			-X21:8	-X22:4	X		2,5	BK	56		
60	LVD		-H14:x2	-X21:10			2,5	BK	57		
61	LVD		-H14:x1	-K701:21		LV	2,5	BK	58		
62	LV		-F59:2	-U10:+			4	RD	59		
63	LV		-F58:2	-U10:L			2,5	RD	60		
64	LV		-F58:4	-U10:N			2,5	WH	61		
65	LV		-F59:4	-U10:-			4	WH	62		
66	LV		-F59:1	-X23:1	X		4	RD	63		
67	LV		-F59:3	-X23:5	X		4	WH	64		
68	CB		-Q01:U1	-X6:2	X		1,5	BK	65		
69			-X4:1	-X6:3	X		1,5	BK	66		
70			-X4:7	-X6:4	X		1,5	BK	67		
71	LV		-F50:2	-X6:6			2,5	BK	68		
72	LV		-F50:4	-X6:7			2,5	BK	69		
73	CB		-Q01:U2	-X6:8	X		1,5	BK	70		
74			-X5:1	-X6:9	X		1,5	BK	71		
75			-X5:3	-X6:10	X		1,5	BK	72		
76	CB		-Q01:C2	-X5:1	X		1,5	BK	73		

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

For Approval <input type="checkbox"/> As Tested <input type="checkbox"/>		Approved For Construction <input checked="" type="checkbox"/> As Build <input type="checkbox"/>		Supplier  ELEKTRİK SAN. A.Ş.		Customer RMG COPPER JSC 		End User RMG COPPER JSC 		Project TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Module Wire Connection List		Drawing No. 4TRD021001C9000		+8506	SIZE A3	
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA										Project No. K21001	PAGE No. 127	CONT. 128	REV.
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL													
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
77	LVD		-S12:13	-X4:1	X		1,5	BK	74		
78	CB		-Q01:C1	-X4:5			1,5	BK	75		
79	CB		-Q01:211	-X4:5	X		1,5	BK	76		
80	LVD		-S12:14	-X4:3	X		1,5	BK	77		
81	CB		-Q01:212	-X4:3			1,5	BK	78		
82	CB		-Q01:C11	-X4:6			1,5	BK	79		
83	CB		-Q01:C12	-X5:2			1,5	BK	80		
84	CB		-Q01:201	-X4:6	X		1,5	BK	81		
85	LVD		-S11:13	-X4:2			1,5	BK	82		
86	LVD		-S11:14	-X4:4	X		1,5	BK	83		
87	CB		-Q01:204	-X4:4			1,5	BK	84		
88	CB		-Q01:221	-X4:7	X		1,5	BK	85		
89	LVD		-H12:x2	-X5:3	X		1,5	BK	86		
90	CB		-Q01:224	-X4:9	X		1,5	BK	87		
91	LVD		-H12:x1	-X4:9			1,5	BK	88		
92	LVD		-H11:x2	-H12:x2		LVD	1,5	BK	89		
93	CB		-Q01:222	-X4:10	X		1,5	BK	90		
94	LVD		-H11:x1	-X4:10			1,5	BK	91		
95		X	-X7:1	-X8:1			1,5	BK	92		
96	CB		-Q01:231	-X8:1	X		1,5	BK	93		
97	CB		-Q01:232	-X7:2	X		1,5	BK	94		
98	CB		-Q01:234	-X7:3	X		1,5	BK	95		
99	CB		-Q01:131	-X8:2			1,5	BK	96		
100	CB		-Q01:134	-X7:4	X		1,5	BK	97		
101	CB		-Q01:151	-X8:2	X		1,5	BK	98		
102	CB		-Q01:154	-X7:5	X		1,5	BK	99		
103	CB		-Q01:101	-X8:3			1,5	BK	100		
104	CB		-Q01:104	-X7:6	X		1,5	BK	101		
105	CB		-Q01:35	-X8:3	X		1,5	BK	102		
106	CB		-Q01:38	-X7:7	X		1,5	BK	103		
107	CB		-Q01:241	-X12:1	X		1,5	BK	104		
108	CB		-Q01:242	-X12:2	X		1,5	BK	105		
109	CB		-Q01:244	-X12:3	X		1,5	BK	106		
110	CB		-Q01:251	-X12:4	X		1,5	BK	107		
111	CB		-Q01:252	-X12:5	X		1,5	BK	108		
112	CB		-Q01:254	-X12:6	X		1,5	BK	109		
113	CB		-Q01:261	-X12:7	X		1,5	BK	110		
114	CB		-Q01:262	-X12:8	X		1,5	BK	111		

* 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>Customer</div> <div>RMG COPPER JSC</div> <div></div>		<div>End User</div> <div>RMG COPPER JSC</div> <div></div>		<div>Project</div> <div>TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA</div>		<div>Title</div> <div>Module Wire Connection List</div>		<div>Drawing No.</div> <div>4TRD021001C9000</div>		<div>+8506</div>		<div>SIZE</div> <div>A3</div>	
<div>R3V12 06.08.2021 Last Revision Date</div> <div>Rev. 11.02.2021 Date</div>				<div>SCALE</div> <div>1</div>		<div>DESIGNED BY : VINEETHA</div> <div>CHECKED BY : O.TOPAL</div> <div>APPROVED BY : O.YILMAZ</div>						<div>Project No.</div> <div>K21001</div>		<div>PAGE No.</div> <div>128</div>		<div>REV.</div> <div>129</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
115	CB		-Q01:264	-X12:9	X		1,5	BK	112		
116	CB		-Q01:271	-X12:10	X		1,5	BK	113		
117	CB		-Q01:272	-X12:11	X		1,5	BK	114		
118	CB		-Q01:274	-X12:12	X		1,5	BK	115		
119	CB		-Q01:111	-X12:13	X		1,5	BK	116		
120	CB		-Q01:114	-X12:14	X		1,5	BK	117		
121	CB		-Q01:281	-X12:15	X		1,5	BK	118		
122	CB		-Q01:282	-X12:16	X		1,5	BK	119		
123	CB		-Q01:284	-X12:17	X		1,5	BK	120		
124	CB		-Q01:291	-X12:18	X		1,5	BK	121		
125	CB		-Q01:292	-X12:19	X		1,5	BK	122		
126	CB		-Q01:294	-X12:20	X		1,5	BK	123		
127	CB		-Q01:141	-X12:21	X		1,5	BK	124		
128	CB		-Q01:144	-X12:22	X		1,5	BK	125		
129	CB		-Q01:121	-X12:23	X		1,5	BK	126		
130	CB		-Q01:124	-X12:24	X		1,5	BK	127		
131	CB		-Q01:301	-X12:25	X		1,5	BK	128		
132	CB		-Q01:302	-X12:26	X		1,5	BK	129		
133	CB		-Q01:304	-X12:27	X		1,5	BK	130		
134	CB		-Q01:311	-X12:28	X		1,5	BK	131		
135	CB		-Q01:312	-X12:29	X		1,5	BK	132		
136	CB		-Q01:314	-X12:30	X		1,5	BK	133		
137	CB		-Q01:321	-X12:31	X		1,5	BK	134		
138	CB		-Q01:322	-X12:32	X		1,5	BK	135		
139	CB		-Q01:324	-X12:33	X		1,5	BK	136		
140	CB		-Q01:331	-X12:34	X		1,5	BK	137		
141	CB		-Q01:332	-X12:35	X		1,5	BK	138		
142	CB		-Q01:334	-X12:36	X		1,5	BK	139		
143	CB		-Q01:341	-X12:37	X		1,5	BK	140		
144	CB		-Q01:342	-X12:38	X		1,5	BK	141		
145	CB		-Q01:344	-X12:39	X		1,5	BK	142		
146	LV		-P49:10	-X5:5	X		2.5	BK	143		

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

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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Module Wire Connection List		Drawing No. 4TRD021001C9000		+8506	SIZE A3	
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA										Project No. K21001	PAGE No. 129	CONT. 130	REV. 
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL													
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ													

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TERMINAL DIAGRAM

-X1

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
s1	-T1L1	8 BK	1 1	-P49	1	/118.3:C
s1	-T1L2	11 BK	2 1	-P49	3	/118.3:C
s1	-T1L3	14 BK	3 1	-P49	5	/118.3:C
1	-XE	15 GNYE	4 ●			/118.3:C
s2	-T1L3	13 BK	5 ●			/118.3:C
s2	-T1L2	10 BK	6 ●			/118.3:B
s2	-T1L1	7 BK	7 ●	-X1	8	/118.3:B
7	-X1	16 BK	8 ●			/118.3:A
6	-P49	23 BK	9 ●			/118.3:A
4	-P49	24 BK	10 ●			/118.3:A
2	-P49	25 BK	11 ●			/118.4:A

TOTAL TERMINALS COUNT: 11 PCS
TERMINAL TYPE: Test disconnect terminal block - URTK/S

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TERMINAL DIAGRAM

-X4

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR		POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
13	-S12	74 BK	● —	66 BK	-X6	3	/121.3:B
			● —	82 BK	-S11	13	/121.5:B
14	-S12	77 BK	● —	78 BK	-Q01	212	/121.4:D
14	-S11	83 BK	● —	84 BK	-Q01	204	/121.5:D
211	-Q01	76 BK	● —	75 BK	-Q01	C1	/121.4:D
201	-Q01	81 BK	● —	79 BK	-Q01	C11	/121.4:D
221	-Q01	85 BK	● —	67 BK	-X6	4	/122.2:B
			● —				/122.3:B
224	-Q01	87 BK	● —	88 BK	-H12	x1	/122.2:C
222	-Q01	90 BK	● —	91 BK	-H11	x1	/122.3:C

TOTAL TERMINALS COUNT: 10 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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8506	SIZE A3
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA									Project No. K21001		PAGE No. 131	REV.
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL									CONT. 132			
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ												

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TERMINAL DIAGRAM

-X5

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
C2	-Q01	73 BK	1 •	-X6	9	/121.3:E
			2 •	-Q01	C12	/121.5:E
x2	-H12	86 BK	3 •	-X6	10	/122.2:E
			4 •			/122.3:E
10	-P49	143 BK	5 •	-XP	8	/118.4:E

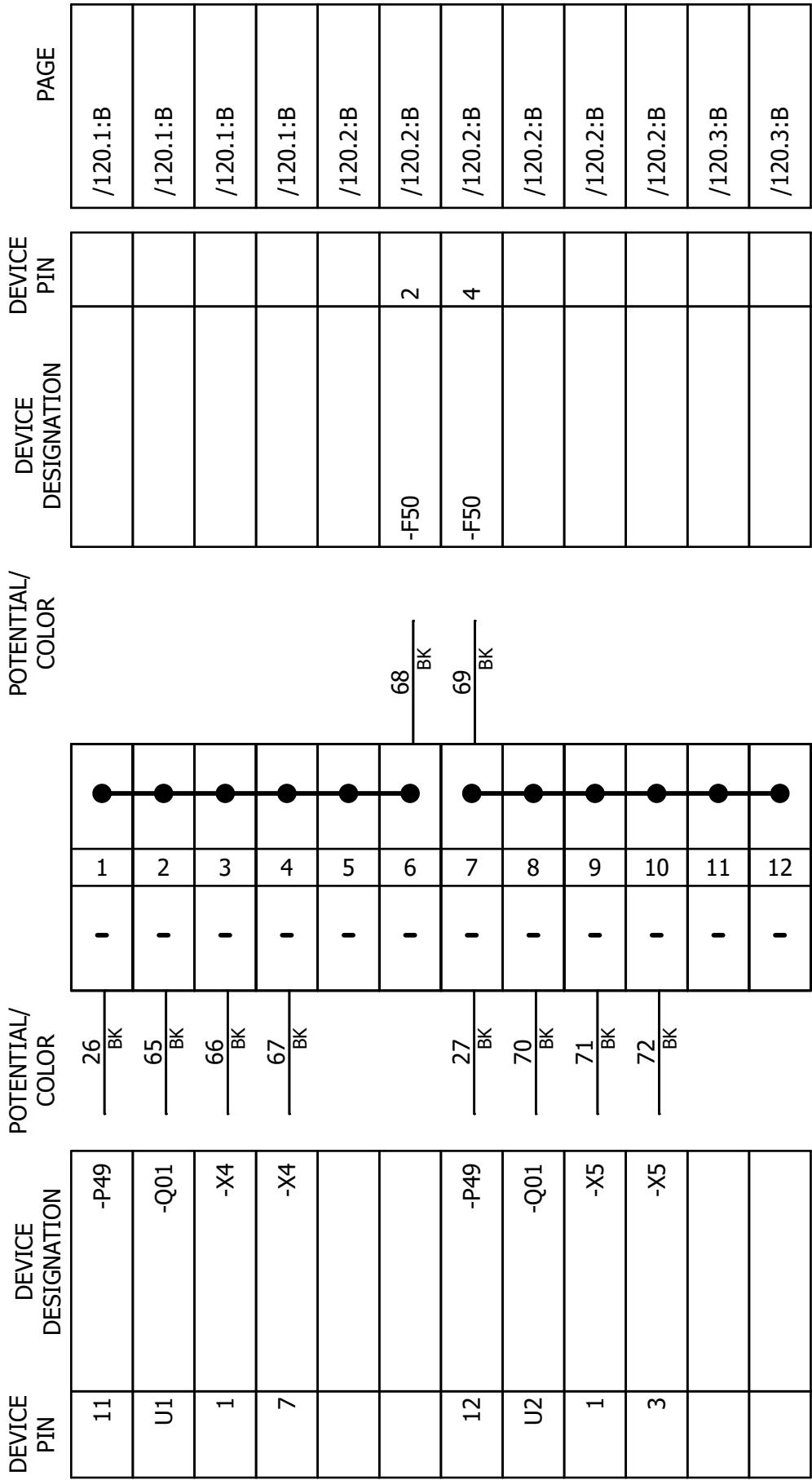
TOTAL TERMINALS COUNT: 5 PCS
TERMINAL TYPE: Feed-through terminal block - PT 2,5

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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8506		SIZE A3									
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA													PAGE No. 132													
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL														CONT. 133		REV.										
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ																										
1				2				3				4						5					6				7				8

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TERMINAL DIAGRAM

-X6



TOTAL TERMINALS COUNT: 12 PCS
TERMINAL TYPE: Feed-through terminal block - PT 2,5

✕

TOTAL TERMINALS COUNT: 7 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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8506 SIZE A3	
R3V12 06.08.2021 Last Revision Date ROV0 11.02.2021 Creation Date Rev. Date Description SIGN				SCALE 1 DESIGNED BY : VINEETHA CHECKED BY : O.TOPAL APPROVED BY : O.YILMAZ						Project No. K21001		PAGE No. 134 CONT. 135		 REV.			

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TERMINAL DIAGRAM

-X8

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
231	-Q01	93 BK	1 ●	-X7	1	/123.1:C
151	-Q01	98 BK	2 ●	-Q01	131	/123.2:C
35	-Q01	102 BK	3 ●	-Q01	101	/123.3:C

TOTAL TERMINALS COUNT: 3 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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA				Title Terminal Connection Diagram				Drawing No. 4TRD021001C9000				+8506				SIZE A3																					
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA																							PAGE No. 135					REV.																								
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL																																																				
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ																																																				
1				2				3				4				5				6				7				8																													

-X10

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	POTENTIAL/ COLOR	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
15	-P49	BU		1	-			/118.6:A
				2	-			/118.6:A
14	-P49	WH		3	-			/118.6:A
				4	-			/118.6:A
16	-P49	SH		5	-			/118.6:A
				6	-			/118.6: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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8506		SIZE A3	
R3V12 06.08.2021 Last Revision Date ROV0 11.02.2021 Creation Date Rev. Date Description SIGN				SCALE 1		DESIGNED BY : VINEETHA CHECKED BY : O.TOPAL APPROVED BY : O.YILMAZ						Project No. K21001		PAGE No. 136 CONT. 137		 REV.			

-X12

<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>RMG COPPER JSC</div>		<div>End User</div> <div>RMG COPPER JSC</div>		<div>Project</div> <div>TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA</div>		<div>Title</div> <div>Terminal Connection Diagram</div>		<div>Drawing No.</div> <div>4TRD021001C9000</div>		<div>+8506</div>		<div>SIZE</div> <div>A3</div>	
R3V12		06.08.2021		Last Revision Date				<div>SCALE</div> <div>1</div>		DESIGNED BY : VINEETHA		<div>Project No.</div> <div>K21001</div>		PAGE No.		137		<div></div>	
R0V0		11.02.2021		Creation Date						CHECKED BY : O.TOPAL				CONT.		138			
Rev.		Date		Description		SIGN				APPROVED BY : O.YILMAZ									

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A

B

C

D

E




F

TERMINAL DIAGRAM

-X12

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
342	-Q01	141 BK	•			/124.8:A
344	-Q01	142 BK	•			/124.8:A

TOTAL TERMINALS COUNT: 39 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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8506	SIZE A3	
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA									Project No. K21001		PAGE No.	138	
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL											CONT.	139	
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ													
1				2				3		4		5		6		7		8

A

B

C

D

E

F

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TERMINAL DIAGRAM

-X21

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	1	2	3	4	5	6	7	8	9	10	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
			●	●	●	●	●	●	●	●	●	●	40 BK	-F58	1	/119.2:E
													41 BK	-F50	1	/119.2:E
													42 BK	-X22	1	/119.2:E
																/119.3:E
R4	-K701	48 BK	●										49 BK	-K701	22	/119.3:E
R6	-K701	53 BK	●										54 BK	-F58	3	/119.3:E
			●										55 BK	-F50	3	/119.3:E
			●										56 BK	-X22	4	/119.3:E
			●													/119.3:E
			●										57 BK	-H14	x2	/119.4:E

TOTAL TERMINALS COUNT: 10 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
3	-X21	42 BK	1			/119.4:A
			2			/119.4:A
			3			/119.4:A
8	-X21	56 BK	4			/119.4:A
			5			/119.4:A
			6			/119.5:A

TOTAL TERMINALS COUNT: 6 PCS
TERMINAL TYPE: Feed-through terminal block - PT 4

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TERMINAL DIAGRAM

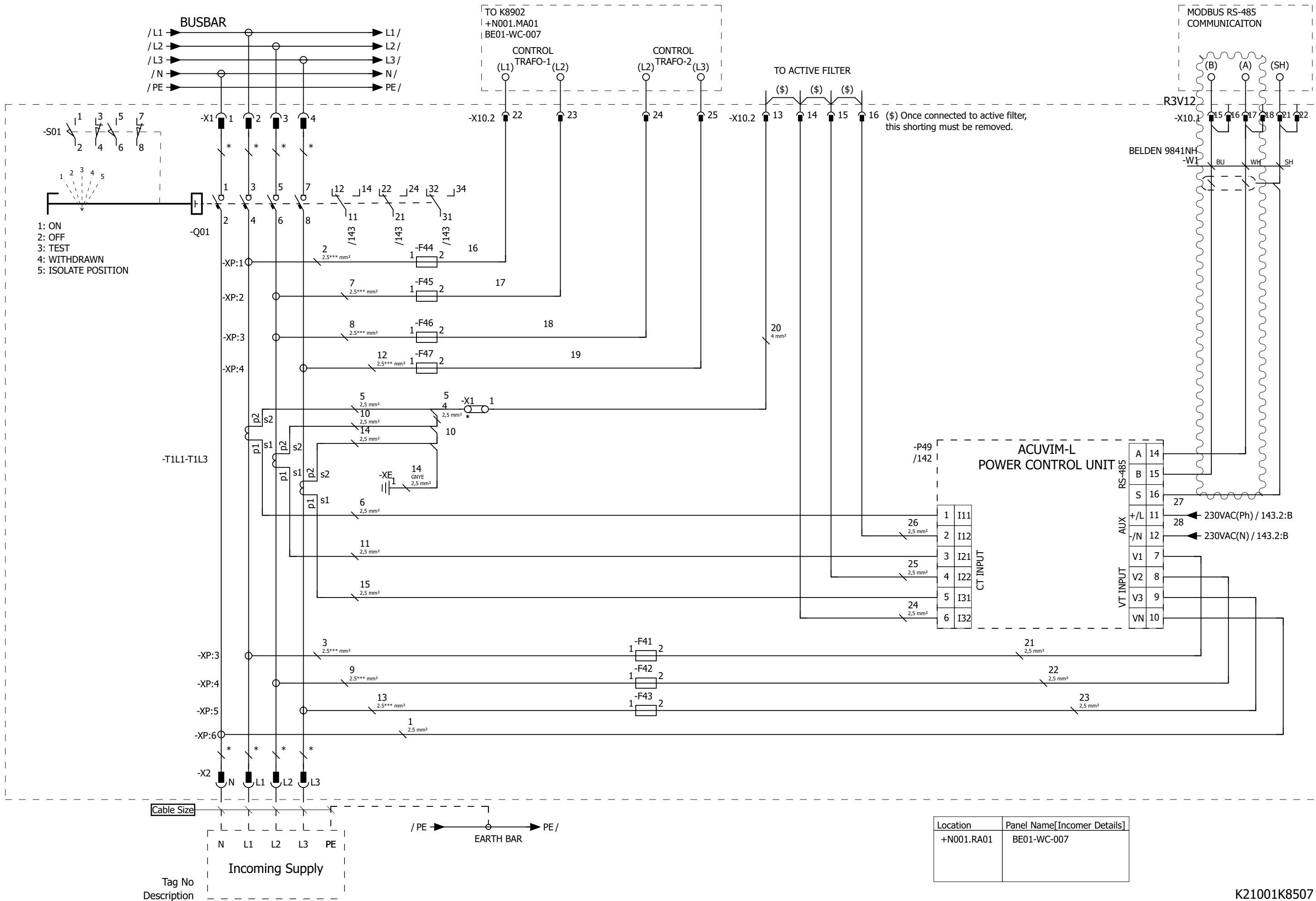
-X23

DEVICE		POTENTIAL/ COLOR	DEVICE		POTENTIAL/ COLOR	DEVICE		PAGE
PIN	DESIGNATION		PIN	DESIGNATION		PIN	DESIGNATION	
1	-F59	63 RD	1		1			/119.7:A
			2		2			/119.7:A
			3		3			/119.8:A
			4		4			/119.8:A
3	-F59	64 WH	5		5			/119.8:A
			6		6			/119.8:A
			7		7			/119.8:A
			8		8			/119.8:A

TOTAL TERMINALS COUNT: 8 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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8506	SIZE A3	
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA										Project No. K21001	PAGE No. 141	CONT. +8507/142	REV. 
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL													
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ													
1				2		3		4		5		6		7		8		

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Rev.	Date	Description	SIGN

Supplier ABB ELEKTRİK SAN. A.Ş.	Customer RMG COPPER JSC
SCALE 1	End User RMG COPPER JSC
DESIGNED BY : VINEETHA	
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APPROVED BY : O.YILMAZ	



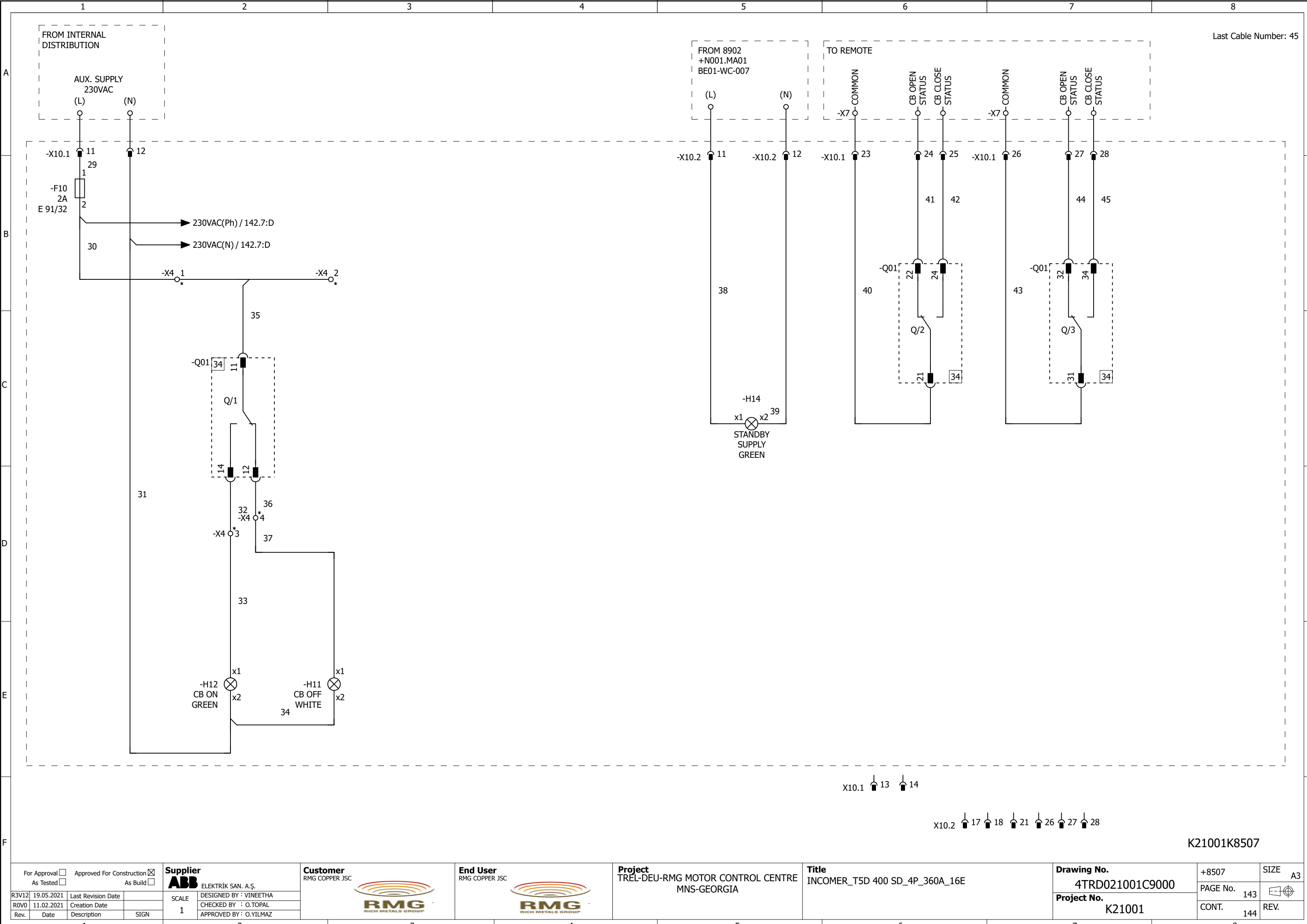
Project
TREL-DEU-RMG MOTOR CONTROL CENTRE
MNS-GEORGIA


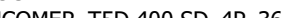


Title
INCOMER_T5D 400 SD_4P_360A_16E

Drawing No. 4TRD021001C9000	+8507	SIZE A3
Project No. K21001	PAGE No. 142	REV. 143
	CONT. 143	

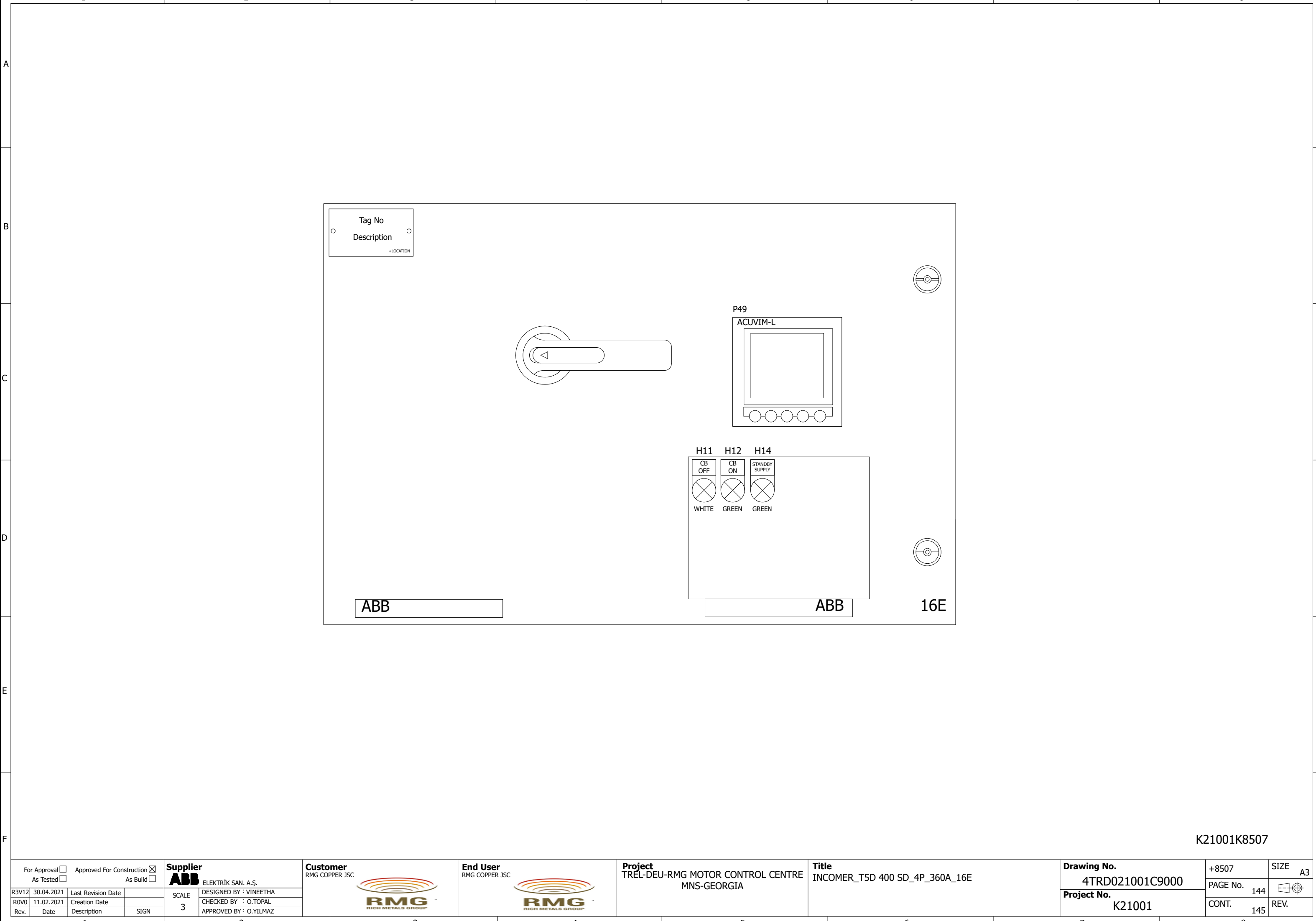
K21001K8507




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R0V0		11.02.2021		Creation Date				CHECKED BY : O.TOPAL													
Rev.		Date		Description		SIGN		APPROVED BY : O.YILMAZ													
1		2		3		4		5		6		7		8		9		10		11	

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R3V12		30.04.2021		Last Revision Date				SCALE		DESIGNED BY : VINEETHA						PAGE No.		144		<div></div>			
R0V0		11.02.2021		Creation Date				3		CHECKED BY : O.TOPAL								CONT.		145		REV.	
Rev.		Date		Description		SIGN				APPROVED BY : O.YILMAZ													
1		2		3		4		5		6		7		8		9		10		11		12	

K21001K8507



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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	WD		-Q01:1	-X1:1	X		*	BK			
2	WD		-Q01:3	-X1:2	X		*	BK			
3	WD		-Q01:5	-X1:3	X		*	BK			
4	WD		-Q01:7	-X1:4	X		*	BK			
5		X	-X10.1:15	-X10.1:16	X		1,5	BK			
6		X	-X10.1:17	-X10.1:18	X		1,5	BK			
7		X	-X10.1:21	-X10.1:22	X		1,5	BK			
8			-X10.2:13	-X10.2:14			1,5	BK			
9			-X10.2:14	-X10.2:15			1,5	BK			
10			-X10.2:15	-X10.2:16			1,5	BK			
11	LV		-P49:16	-X10.1:21	X		W1**	SH			
12	LV		-P49:15	-X10.1:15	X		W1 **	BU			
13	LV		-P49:14	-X10.1:17	X		W1 **	WH			
14	LV		-P49:10	-XP:6			2.5	BK	1		
15	WD		-F44:1	-XP:1			2.5***	BK	2		
16	LV		-F41:1	-XP:3			2.5***	BK	3		
17	CT		-T1L1:s2	-X1:1	X		2,5	BK	5		
18	CT		-T1L1:s2	-T1L2:s2		CT	2,5	BK	5		
19	LV		-P49:1	-T1L1:s1		CT	2,5	BK	6		
20	WD		-F45:1	-XP:2			2.5***	BK	7		
21	WD		-F46:1	-XP:3			2.5***	BK	8		
22	LV		-F42:1	-XP:4			2.5***	BK	9		
23	CT		-T1L2:s2	-T1L3:s2		CT	2,5	BK	10		
24	LV		-P49:3	-T1L2:s1		CT	2,5	BK	11		
25	WD		-F47:1	-XP:4			2.5***	BK	12		
26	LV		-F43:1	-XP:5			2.5***	BK	13		
27	CT		-T1L3:s2	-XE:1			2,5	GNYE	14		
28	LV		-P49:5	-T1L3:s1		CT	2,5	BK	15		
29	WD		-F44:2	-X10.2:22	X		1,5	BK	16		
30	WD		-F45:2	-X10.2:23	X		1,5	BK	17		
31	WD		-F46:2	-X10.2:24	X		1,5	BK	18		
32	WD		-F47:2	-X10.2:25	X		1,5	BK	19		
33			-X1:1	-X10.2:13	X		4	BK	20		
34	LV		-F41:2	-P49:7		LV	2,5	BK	21		
35	LV		-F42:2	-P49:8		LV	2,5	BK	22		
36	LV		-F43:2	-P49:9		LV	2,5	BK	23		
37	LV		-P49:6	-X10.2:14	X		2,5	BK	24		
38	LV		-P49:4	-X10.2:15	X		2,5	BK	25		

* 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>TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA</div>		<div>Title</div> <div>Module Wire Connection List</div>		<div>Drawing No.</div> <div>4TRD021001C9000</div>		<div>+8507</div>		<div>SIZE</div> <div>A3</div>	
<div>R3V12 06.08.2021 Last Revision Date</div> <div>Rev. Date Creation Date</div> <div>06.08.2021 11.02.2021 Description SIGN</div>												<div>Project No.</div> <div>K21001</div>		<div>PAGE No.</div> <div>145</div>		<div>REV.</div> <div>146</div>			

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 <div>  </div>		End User RMG COPPER JSC <div>  </div>		Project TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Module Wire Connection List		Drawing No. 4TRD021001C9000		+8507 SIZE A3	
06.08.2021 Last Revision Date			SCALE 1		DESIGNED BY : VINEETHA						PAGE No. 146		CONT. 147		REV.	
1.02.2021 Creation Date Date Description SIGN					CHECKED BY : O.TOPAL APPROVED BY : O.YILMAZ						Project No. K21001					

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
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TERMINAL DIAGRAM

-X4

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	1	2	3	4	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
			●	●	●	●	30 BK	-F10	2	/143.2:B
							35 BK	-Q01	11	/143.3:B
14	-Q01	32 BK	●	●	●	●	33 BK	-H12	x1	/143.2:D
12	-Q01	36 BK	●	●	●	●	37 BK	-H11	x1	/143.2:D

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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8507		SIZE A3									
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA														PAGE No. 148												
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL														CONT. 149												
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ														REV.												
1				2				3				4				5				6				7				8			

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TERMINAL DIAGRAM
-X10.1

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	11	12	13	14	15	16	17	18	21	22	23	24	25	26	27	28	DEVICE DESIGNATION	DEVICE PIN	PAGE
1	-F10		29 BK	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			/143.1:A
x2;12	-H12		31;28 BK;BK	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			/143.1:A
				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			/143.6:F
				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			/143.6:F
15	-P49		BU	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			/142.8:A
				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			/142.8:A
14	-P49		WH	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			/142.8:A
				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			/142.8:A
16	-P49		SH	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			/142.8:A
				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			/142.8:A
21	-Q01		40 BK	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			/143.6:B
22	-Q01		41 BK	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			/143.6:B
24	-Q01		42 BK	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			/143.6:B
31	-Q01		43 BK	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			/143.7:B
32	-Q01		44 BK	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			/143.7:B
34	-Q01		45 BK	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			/143.7:B

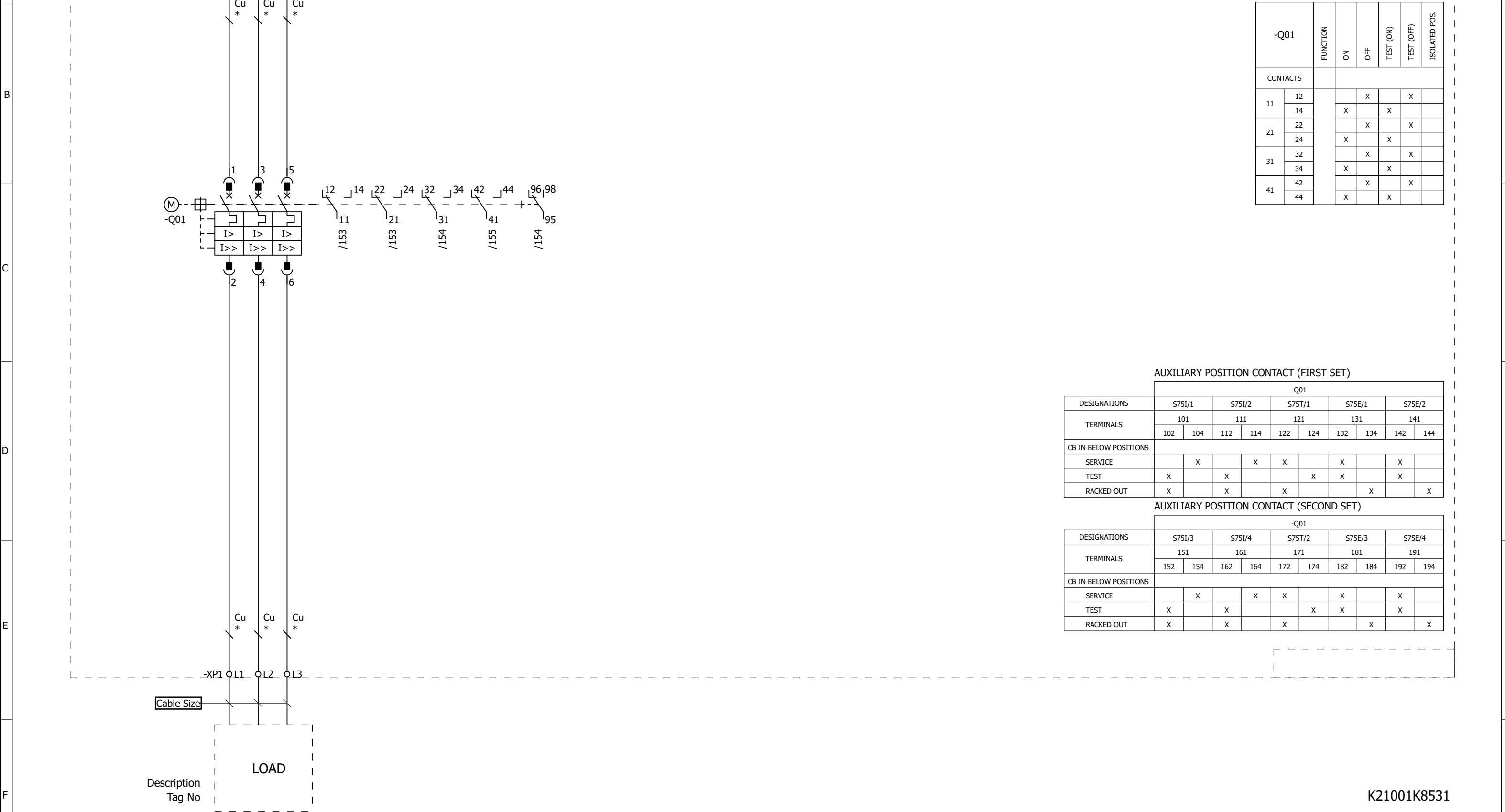
TOTAL TERMINALS COUNT: 16 PCS
TERMINAL TYPE: PLUG PART S8E 1x16P 11-18,21-28

-X10.2

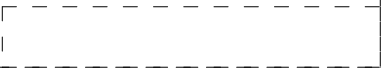
TOTAL TERMINALS COUNT: 16 PCS
TERMINAL TYPE: PLUG PART S8E 1x16P 11-18,21-28

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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8507 SIZE A3	
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA							PAGE No. 150					
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL							REV.					
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ							CONT. +8531/151					

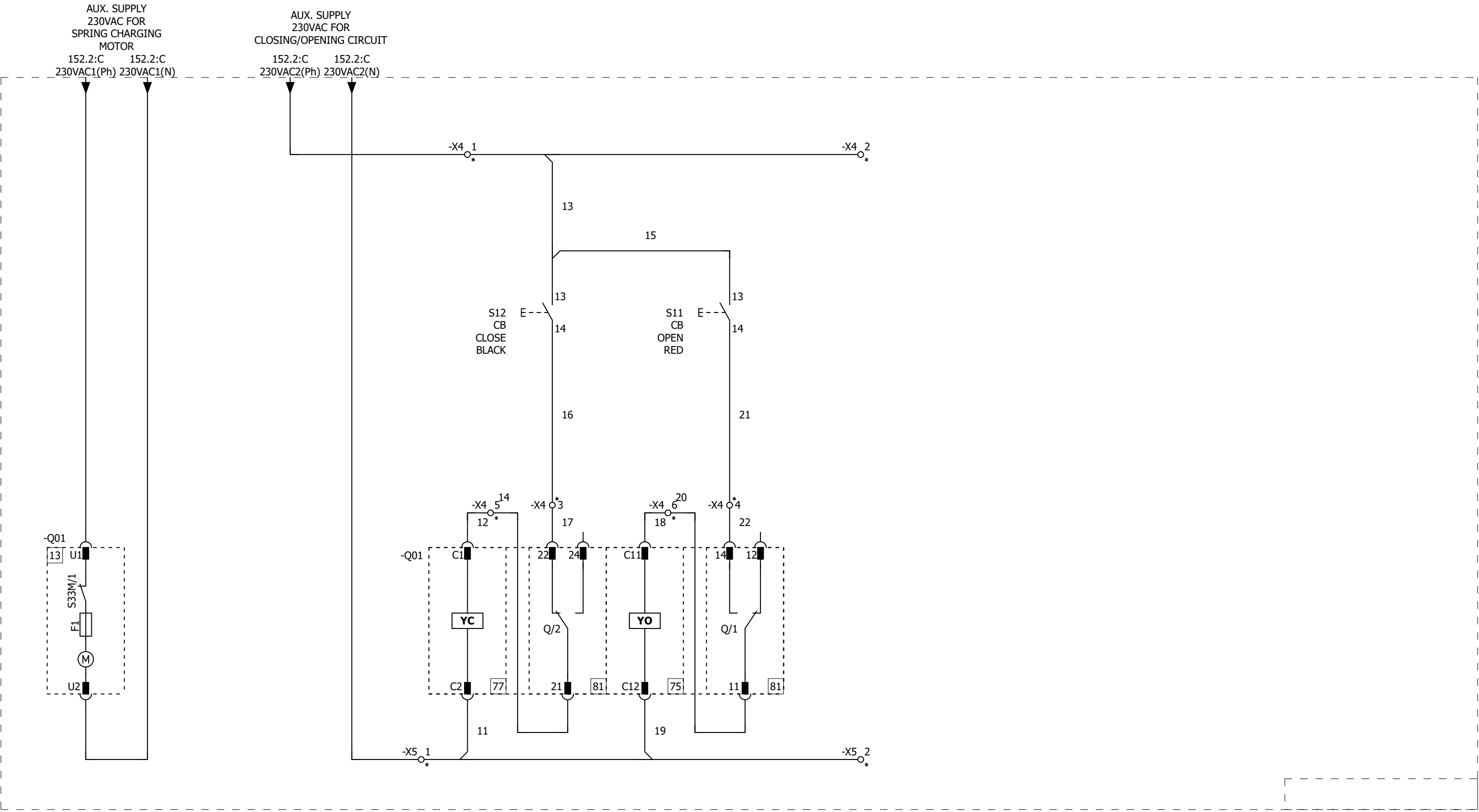
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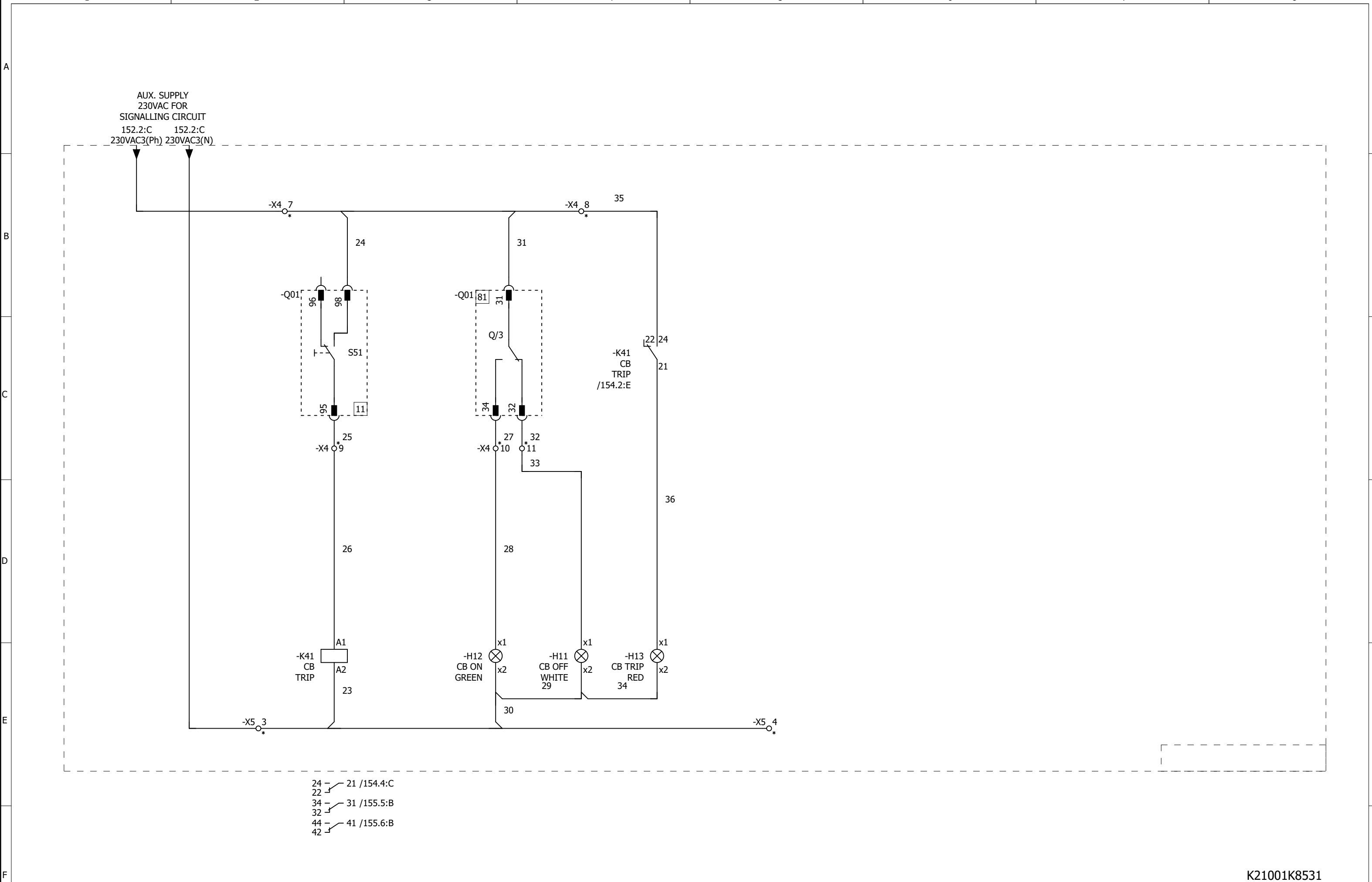
K21001K8531






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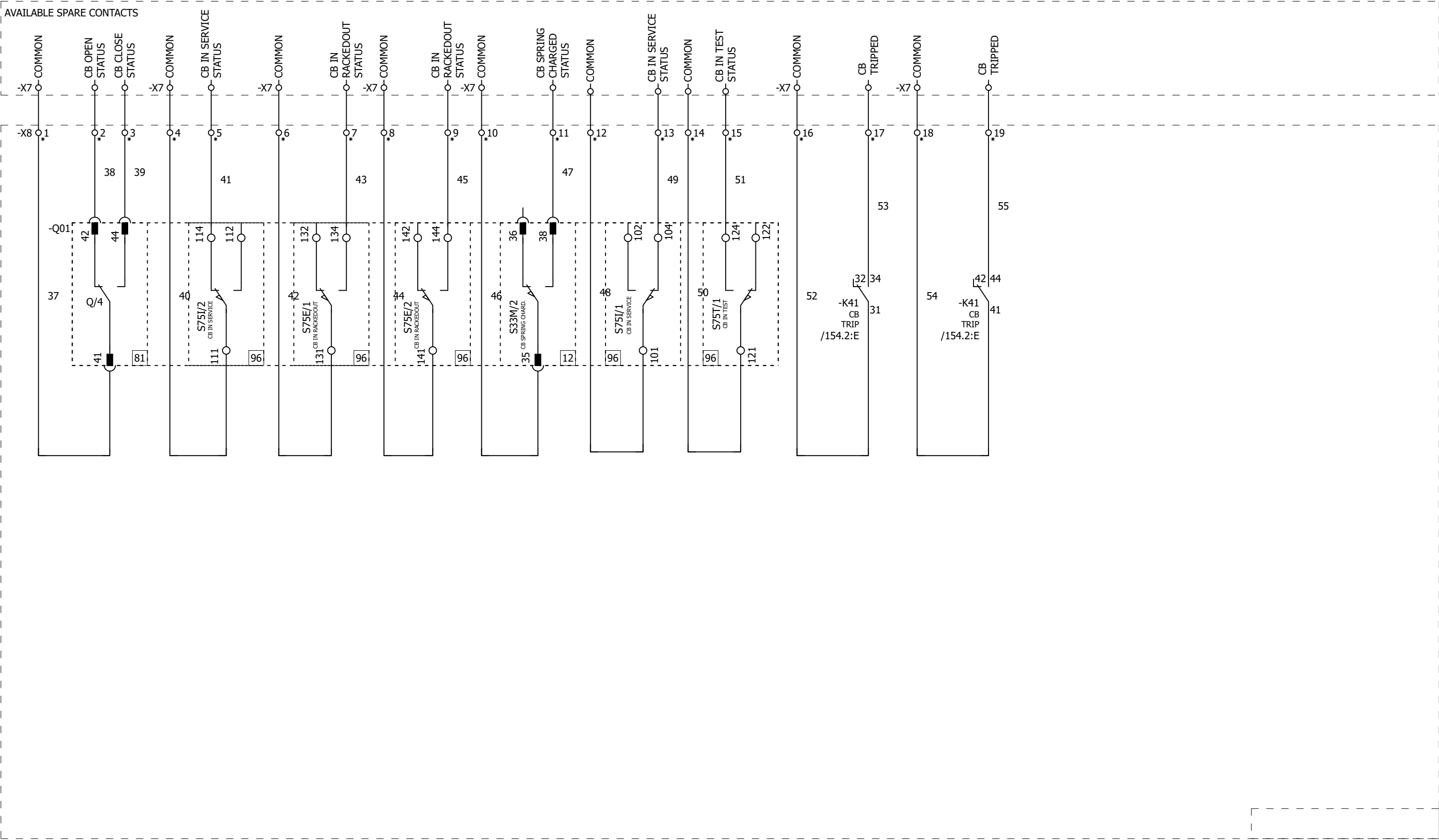
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R3V12	30.04.2021	Last Revision Date		<div>SCALE</div> <div>1</div> <div>DESIGNED BY : VINEETHA</div> <div>CHECKED BY : O.TOPAL</div> <div>APPROVED BY : O.YILMAZ</div>		<div></div>		<div></div>						<div>Project No.</div> <div>K21001</div>		<div>PAGE No.</div> <div>154</div>		<div></div>	
R0V0	11.02.2021	Creation Date														<div>CONT.</div> <div>155</div>		<div>REV.</div>	
Rev.	Date	Description	SIGN																
1				2		3		4		5		6		7		8			

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Last Cable Number: 55



K21001K8531

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R3V12	30.04.2021	Last Revision Date	
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Rev.	Date	Description	SIGN

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


Customer RMG COPPER JSC	
	

End User RMG COPPER JSC	
	

Project TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA	
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Title ED FEEDER_ACB_Emax2_E2.2N_Ekip Dip LSI_3P_1000A	
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Drawing No. 4TRD021001C9000	
Project No. K21001	

+8531	SIZE A3
PAGE No. 155	
CONT. 156	

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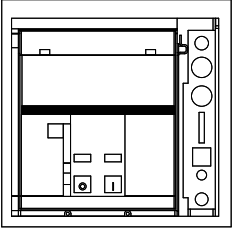
29E

LINE NO:

25E


Tag No.

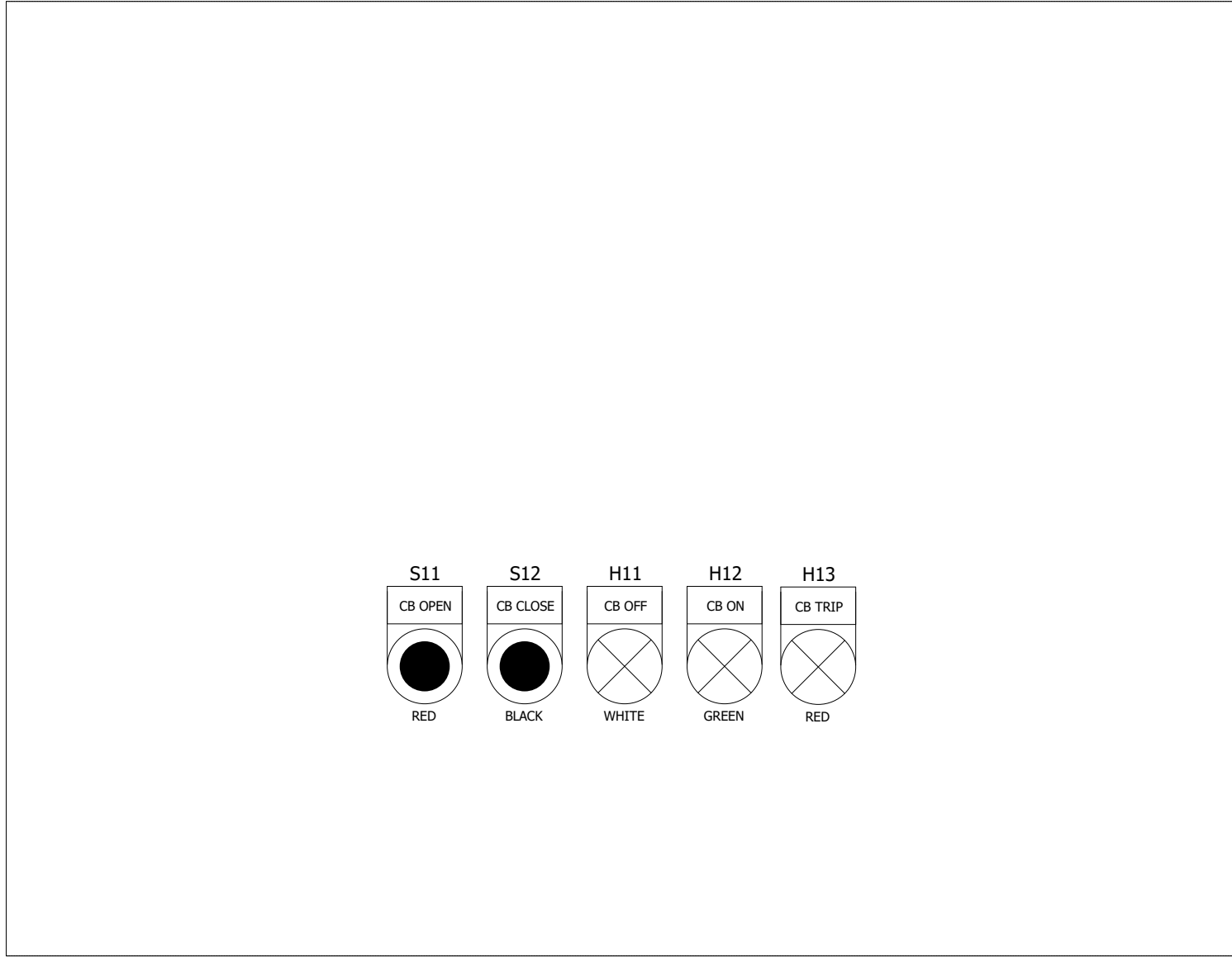
Description(%)



Rated Operational Current
at IP31-41

31E





S11
CB OPEN
RED




S12
CB CLOSE
BLACK

H11
CB OFF
WHITE

H12
CB ON
GREEN

H13
CB TRIP
RED

A
B
C
D
E
F

<div><div><div>For Approval <input type="checkbox"/></div><div>As Tested <input type="checkbox"/></div></div><div><div>Approved For Construction <input checked="" type="checkbox"/></div><div>As Build <input type="checkbox"/></div></div></div>				<div>Supplier</div> <div> ELEKTRİK SAN. A.Ş.</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>TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA</div>		<div>Title</div> <div>ED FEEDER_ACB_Emax2_E2.2N_Ekip Dip LSI_3P_1000A</div>		<div>Drawing No.</div> <div>4TRD021001C9000</div>		<div>+8531</div> <div>SIZE A3</div>	
<div>R3V12 30.04.2021 Last Revision Date</div>				<div>SCALE 10</div>		<div>DESIGNED BY : VINEETHA</div>				<div>Project No.</div> <div>K21001</div>		<div>PAGE No.</div> <div>156</div>		<div>REV.</div> <div></div>			
<div>R0V0 11.02.2021 Creation Date</div>						<div>CHECKED BY : O.TOPAL</div>				<div>CONT.</div> <div>157</div>		<div>REV.</div> <div></div>					
<div>Rev. Date Description SIGN</div>						<div>APPROVED BY: O.YILMAZ</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
1	CB		-Q01:U1	-X6:1			1,5	BK	1		
2			-X4:1	-X6:2			1,5	BK	2		
3			-X4:7	-X6:3			1,5	BK	3		
4	LV		-F10:1	-X22:1	X		1,5	BK	4		
5	LV		-F10:2	-X6:4	X		1,5	BK	5		
6	LV		-F10:3	-X22:3	X		1,5	BK	6		
7	LV		-F10:4	-X6:5	X		1,5	BK	7		
8	CB		-Q01:U2	-X6:5			1,5	BK	8		
9			-X5:1	-X6:6			1,5	BK	9		
10			-X5:3	-X6:7			1,5	BK	10		
11	CB		-Q01:C2	-X5:1	X		1,5	BK	11		
12	CB		-Q01:C1	-X4:5			1,5	BK	12		
13	LVD		-S12:13	-X4:1	X		1,5	BK	13		
14	CB		-Q01:21	-X4:5	X		1,5	BK	14		
15	LVD		-S11:13	-S12:13		LVD	1,5	BK	15		
16	LVD		-S12:14	-X4:3	X		1,5	BK	16		
17	CB		-Q01:22	-X4:3			1,5	BK	17		
18	CB		-Q01:C11	-X4:6			1,5	BK	18		
19	CB		-Q01:C12	-X5:2			1,5	BK	19		
20	CB		-Q01:11	-X4:6	X		1,5	BK	20		
21	LVD		-S11:14	-X4:4	X		1,5	BK	21		
22	CB		-Q01:14	-X4:4			1,5	BK	22		
23	LV		-K41:A2	-X5:3	X		1,5	BK	23		
24	CB		-Q01:98	-X4:7	X		1,5	BK	24		
25	CB		-Q01:95	-X4:9	X		1,5	BK	25		
26	LV		-K41:A1	-X4:9			1,5	BK	26		
27	CB		-Q01:34	-X4:10	X		1,5	BK	27		
28	LVD		-H12:x1	-X4:10			1,5	BK	28		
29	LVD		-H11:x2	-H12:x2		LVD	1,5	BK	29		
30	LVD		-H12:x2	-X5:4			1,5	BK	30		
31	CB		-Q01:31	-X4:8			1,5	BK	31		
32	CB		-Q01:32	-X4:11	X		1,5	BK	32		
33	LVD		-H11:x1	-X4:11			1,5	BK	33		
34	LVD		-H11:x2	-H13:x2		LVD	1,5	BK	34		
35	LV		-K41:24	-X4:8	X		1,5	BK	35		
36	LVD		-H13:x1	-K41:21		LV	1,5	BK	36		
37	CB		-Q01:41	-X8:1	X		1,5	BK	37		
38	CB		-Q01:42	-X8:2	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>DESIGNED BY : VINEETHA</div> <div>CHECKED BY : O.TOPAL</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>TREL-DEU-RMG MOTOR CONTROL CENTRE</div> <div>MNS-GEORGIA</div>		<div>Title</div> <div>Module Wire Connection List</div>		<div>Drawing No.</div> <div>4TRD021001C9000</div>		<div>+8531</div>		<div>SIZE</div> <div>A3</div>	
<div>R3V12 06.08.2021</div> <div>Last Revision Date</div>				<div>SCALE</div> <div>1</div>								<div>Project No.</div> <div>K21001</div>		<div>PAGE No.</div> <div>157</div>		<div>REV.</div> <div>REV.</div>			
<div>Rev. 0</div> <div>Date 11.02.2021</div> <div>Description</div> <div>SIGN</div>														<div>CONT.</div> <div>158</div>					

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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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Module Wire Connection List		Drawing No. 4TRD021001C9000		+8531 PAGE No. 158		SIZE A3	
R3V12 06.08.2021 Last Revision Date ROVO 11.02.2021 Creation Date Rev. Date Description SIGN				SCALE 1		DESIGNED BY : VINEETHA CHECKED BY : O.TOPAL APPROVED BY : O.YILMAZ						Project No. K21001		CONT. 159		REV.			

✕

TOTAL TERMINALS COUNT: 11 PCS
TERMINAL TYPE: Feed-through terminal block - PT 2,5

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R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA							Project No. K21001		PAGE No. 159			
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL									CONT. 160			REV.
Rev.	Date	Description	SIGN											APPROVED BY : O.YILMAZ			

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E




F

TERMINAL DIAGRAM

-X5

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
C2	-Q01	11 BK	1 •	-X6	6	/153.3:E
			2 •	-Q01	C12	/153.5:E
A2	-K41	23 BK	3 •	-X6	7	/154.2:E
			4 •	-H12	x2	/154.5:E

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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8531	SIZE A3
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA									Project No. K21001	PAGE No. 160		REV.
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL										CONT. 161		
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ												

A

B

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E

F

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TERMINAL DIAGRAM

-X6

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
			1 BK		U1	/152.2:B
			2 BK		1	/152.2:B
			3 BK		7	/152.2:B
						/152.2:B
2	-F10		8 BK		U2	/152.2:B
4	-F10		9 BK		1	/152.2:B
			10 BK		3	/152.2:B
						/152.3:B

1	2	3	4	5	6	7	8
●	●	●	●	●	●	●	●

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

$$\infty \times \text{—}$$

TOTAL TERMINALS COUNT: 19 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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8531 SIZE A3	
R3V12 06.08.2021 Last Revision Date ROV0 11.02.2021 Creation Date Rev. Date Description SIGN				SCALE 1 DESIGNED BY : VINEETHA CHECKED BY : O.TOPAL APPROVED BY : O.YILMAZ						Project No. K21001		PAGE No. 162 CONT. 163		 REV.			

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TERMINAL DIAGRAM

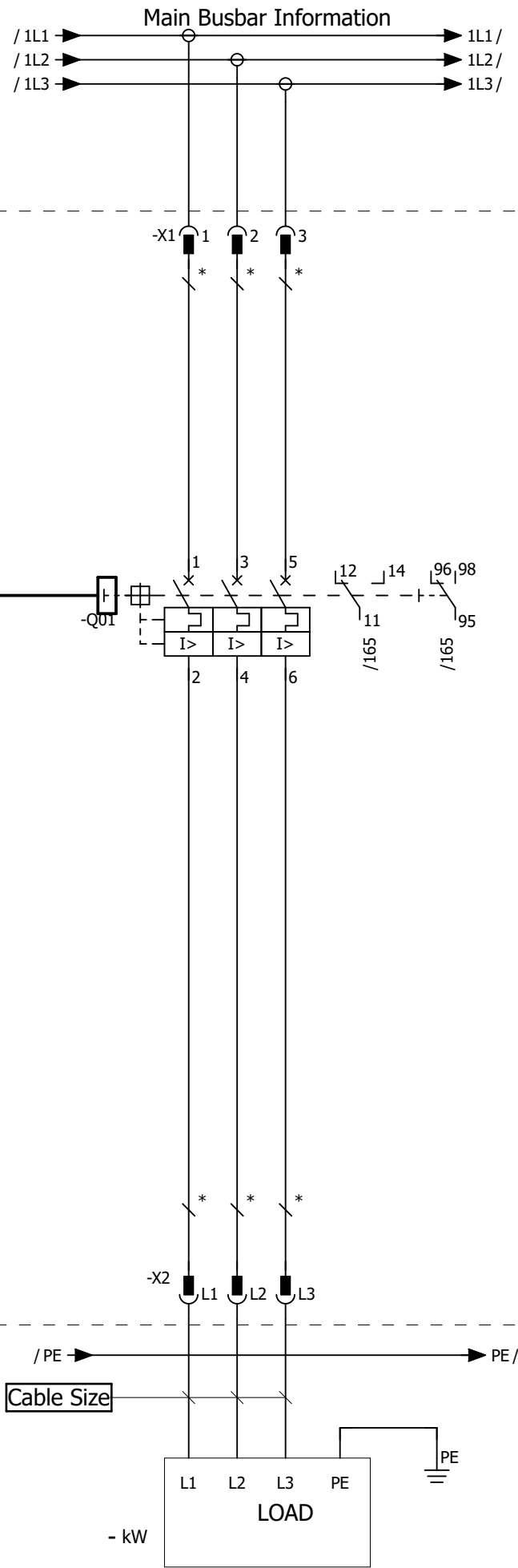
X22

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
1	-F10	4 BK	1			/152.2:A
			2			/152.2:A
3	-F10	6 BK	3			/152.2:A
			4			/152.2: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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8531	SIZE A3
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA													Project No. K21001	PAGE No. 163		
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL														CONT. +8601/164		
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ														REV.		

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SY/1 (Relay tripped)		95
		98/96
Normal Sequence	CB Open	X
	CB Open	X
Trip Sequence (trip caused by:- YO,Trip Test)	CB Open	X
	CB Trips	X
	CB Reset	X
	CB Open	X
Trip Sequence (trip caused by trip unit)	CB Open	X
	CB Trips	X
	CB Reset	X
	CB Open	X

CONTACTS	-Q01	
	11	
FUNCTION	12	14
ON		X
OFF	X	
TEST	X	
WITHDRAW	X	
ISOLATED POS.		

X INDICATES CLOSED CONTACT.
CONTACTS ARE MAINTAINED

For Approval <input type="checkbox"/>		Approved For Construction <input checked="" type="checkbox"/>	
As Tested <input type="checkbox"/>		As Build <input type="checkbox"/>	
R3V12	30.04.2021	Last Revision Date	
R0V0	11.02.2021	Creation Date	
Rev.	Date	Description	SIGN

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


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End User RMG COPPER JSC	
	

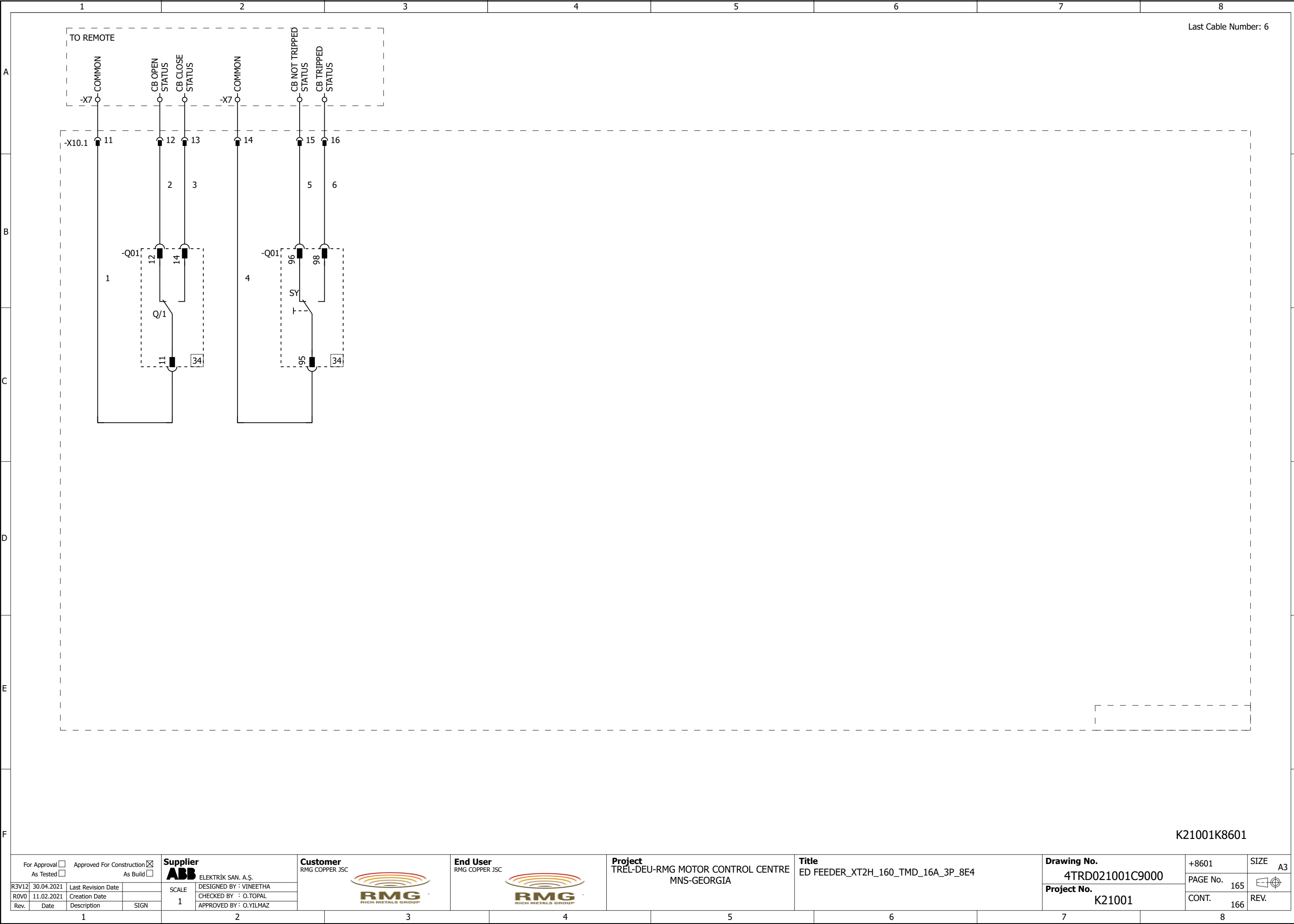
Project TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA	
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Title ED FEEDER_XT2H_160_TMD_16A_3P_8E4	
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Drawing No. 4TRD021001C9000	
Project No. K21001	

+8601	SIZE A3
PAGE No. 164	
CONT. 165	
REV.	

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<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>RMG COPPER JSC</div> <div></div>		<div>End User</div> <div>RMG COPPER JSC</div> <div></div>		<div>Project</div> <div>TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA</div>		<div>Title</div> <div>ED FEEDER_XT2H_160_TMD_16A_3P_8E4</div>		<div>Drawing No.</div> <div>4TRD021001C9000</div>		<div>+8601</div>	<div>SIZE</div> <div>A3</div>
R3V12	30.04.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA							Project No.		PAGE No.	165		
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL							CONT.	166	REV.			
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ												
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K21001K8601

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E								E
F								F

Tag No

Description (EN)

+LOCATION

LINE NO:

Location
8E4

For Approval ☐

As Tested ☐

Approved For Construction ☒

As Build ☐

Supplier

ABB

ELEKTRİK SAN. A.Ş.

SCALE

3

DESIGNED BY : VINEETHA

CHECKED BY : O.TOPAL

APPROVED BY : O.YILMAZ

Customer

RMG COPPER JSC

RMG

RICH METALS GROUP

End User

RMG COPPER JSC

RMG

RICH METALS GROUP

Project

TREL-DEU-RMG MOTOR CONTROL CENTRE
MNS-GEORGIA

Title

ED FEEDER_XT2H_160_TMD_16A_3P_8E4

Drawing No.

4TRD021001C9000

Project No.

K21001

+8601

PAGE No. 167

CONT. 168

SIZE A3

REV.

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K21001K8601



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




1	2	3	4	5	6	7	8
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TERMINAL DIAGRAM

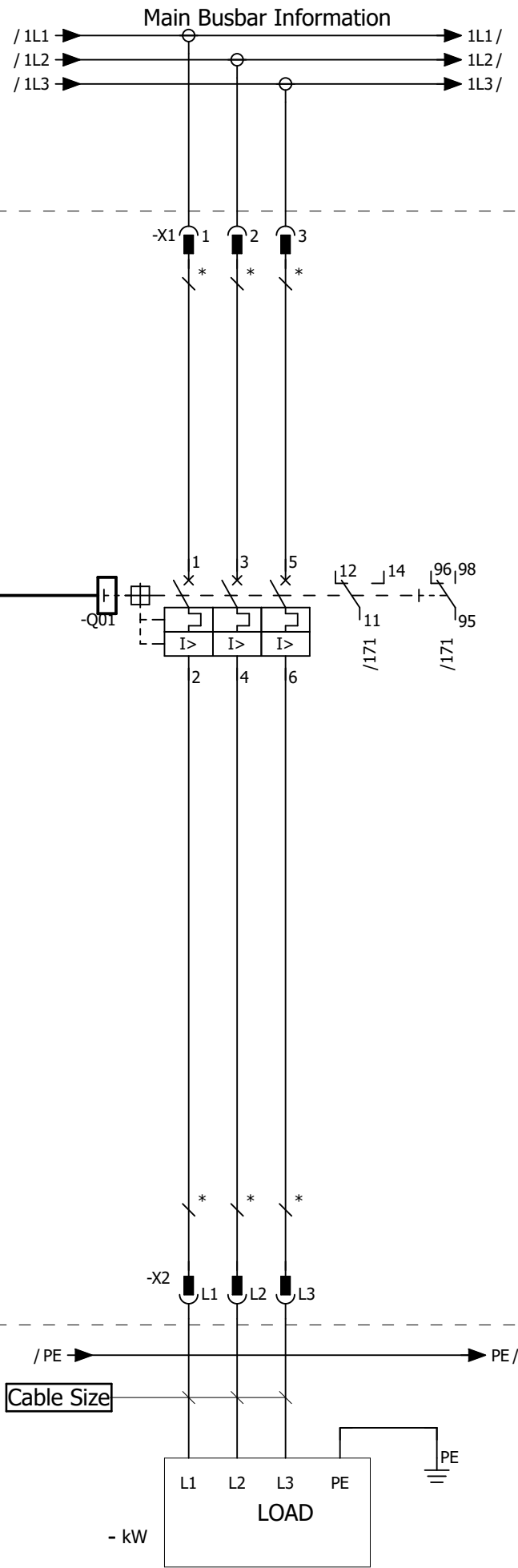
X10.1

[illegible]

TOTAL TERMINALS COUNT: 21 PCS
 TERMINAL TYPE: WITHDRAWABLE MODULE CONTROL PLUG

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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8601 SIZE A3	
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA							Project No. K21001		PAGE No. 169			
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL									CONT. +8602/170			REV.
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ												

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SY/1 (Relay tripped)		95
		98/96
Normal Sequence	CB Open	X
	CB Open	X
Trip Sequence (trip caused by:- YO,Trip Test)	CB Open	X
	CB Trips	X
	CB Reset	X
	CB Open	X
Trip Sequence (trip caused by trip unit)	CB Open	X
	CB Trips	X
	CB Reset	X
	CB Open	X

CONTACTS	-Q01	
	11	
FUNCTION	12	14
ON		X
OFF	X	
TEST	X	
WITHDRAW	X	
ISOLATED POS.		

X INDICATES CLOSED CONTACT.
CONTACTS ARE MAINTAINED

For Approval <input type="checkbox"/> As Tested <input type="checkbox"/>		Approved For Construction <input checked="" type="checkbox"/> As Build <input type="checkbox"/>	
R3V12	30.04.2021	Last Revision Date	
R0V0	11.02.2021	Creation Date	
Rev.	Date	Description	SIGN

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


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End User RMG COPPER JSC	
	

Project TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA	
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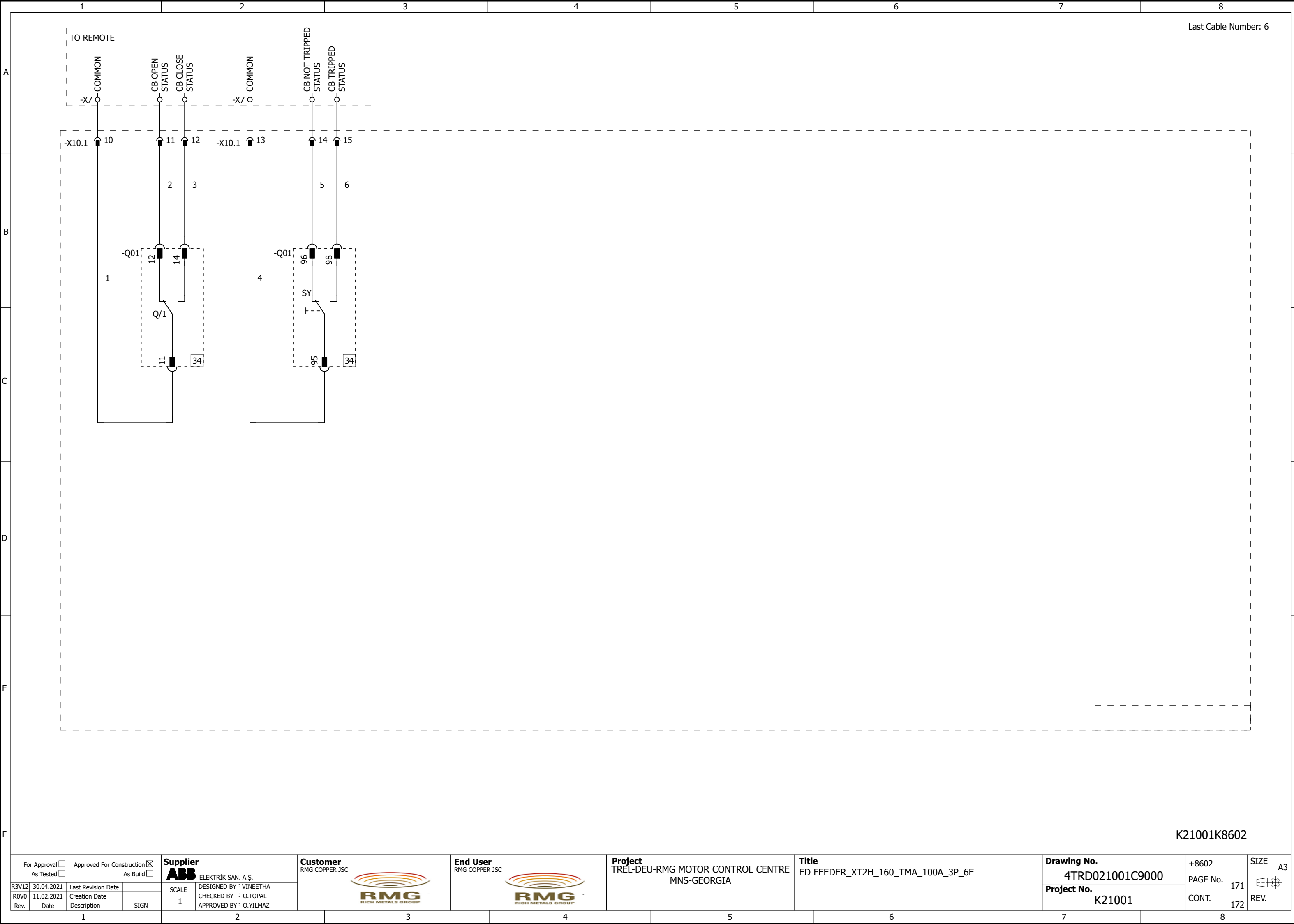
Title ED FEEDER_XT2H_160_TMA_100A_3P_6E	
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Drawing No. 4TRD021001C9000	
Project No. K21001	

+8602	SIZE A3
PAGE No. 170	
CONT. 171	
REV.	

K21001K8602

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SPARE TEMINAL

-X10.1

16

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For Approval☐

As Tested☐

Approved For Construction☒

As Build☐


Supplier

ABB

ELEKTRİK SAN. A.Ş.


Customer

RMG COPPER JSC



End User

RMG COPPER JSC



Project

TREL-DEU-RMG MOTOR CONTROL CENTRE
MNS-GEORGIA

Title

ED FEEDER_XT2H_160_TMA_100A_3P_6E

Drawing No.

4TRD021001C9000

Project No.

K21001

+8602

PAGE No.


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CONT.

173

SIZE

A3



REV.

R3V12

30.04.2021

Last Revision Date

R0V0

11.02.2021

Creation Date

Rev.

Date

Description

SIGN

SCALE

1

DESIGNED BY : VINEETHA

CHECKED BY : O.TOPAL

APPROVED BY : O.YILMAZ

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A

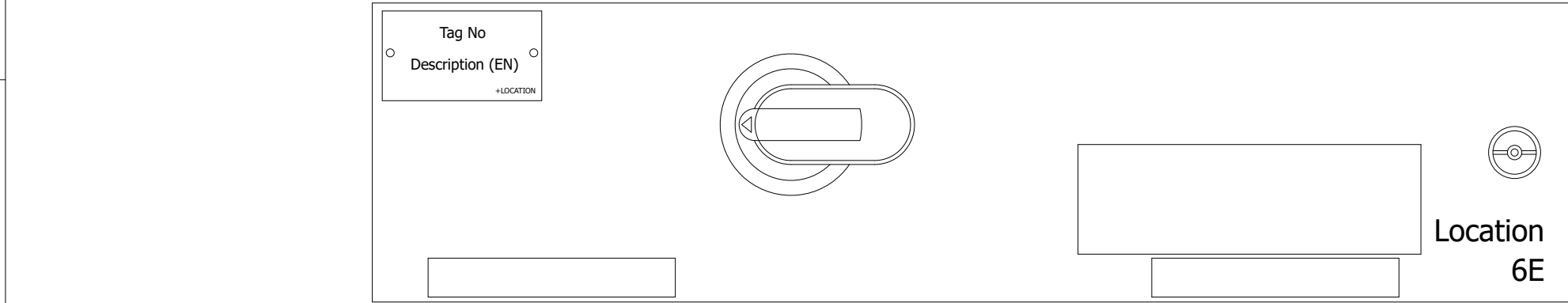
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R3V12	30.04.2021	Last Revision Date		SCALE 3	DESIGNED BY : VINEETHA									Project No. K21001	PAGE No.	173			
ROV0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL										CONT.	174			
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ										REV.				
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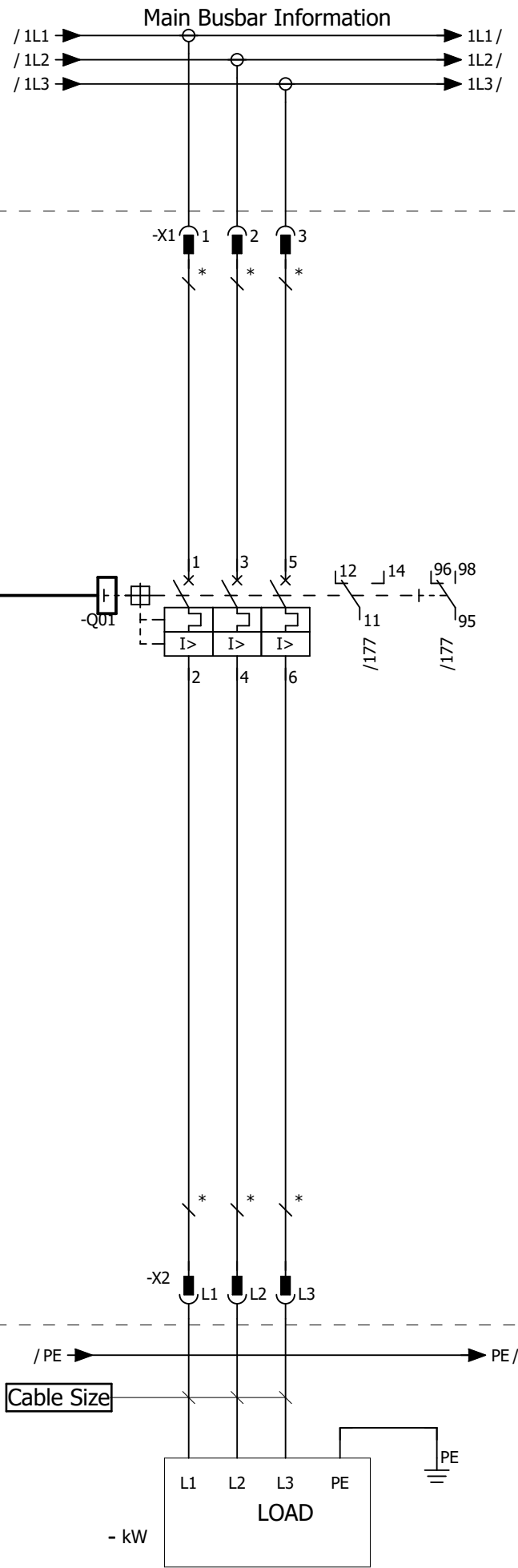
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-X10.1

OTAL TERMINALS COUNT: 20 PCS
TERMINAL TYPE: PLUG PART S8E 1x20P 10-19,20-29

A	
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E	
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SY/1 (Relay tripped)		95
		98/96
Normal Sequence	CB Open	X
	CB Open	X
Trip Sequence (trip caused by:- YO,Trip Test)	CB Open	X
	CB Trips	X
	CB Reset	X
	CB Open	X
Trip Sequence (trip caused by trip unit)	CB Open	X
	CB Trips	X
	CB Reset	X

CONTACTS	-Q01	
	11	
	12	14
FUNCTION		
ON		X
OFF	X	
TEST	X	
WITHDRAW	X	
ISOLATED POS.		

X INDICATES CLOSED CONTACT.
CONTACTS ARE MAINTAINED

For Approval <input type="checkbox"/>		Approved For Construction <input checked="" type="checkbox"/>	
As Tested <input type="checkbox"/>		As Build <input type="checkbox"/>	
R3V12	30.04.2021	Last Revision Date	
R0V0	11.02.2021	Creation Date	
Rev.	Date	Description	SIGN

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


Customer	
RMG COPPER JSC	
	

End User	
RMG COPPER JSC	
	

Project	
TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA	

Title	
ED FEEDER_XT2H_250_TMA_200A_3P_8E	

Drawing No.	
4TRD021001C9000	
Project No.	
K21001	

+8603	SIZE	A3
PAGE No. 176		
CONT. 177	REV.	

K21001K8603

TO REMOTE

COMMON

CB OPEN STATUS

CB CLOSE STATUS

COMMON

CB NOT TRIPPED STATUS

CB TRIPPED STATUS

X10.1 10

X10.1 11

X10.1 12

X10.1 13

X10.1 14

X10.1 15

1

2

3

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6

-Q01

12

14

96

98

Q/1

SY

11






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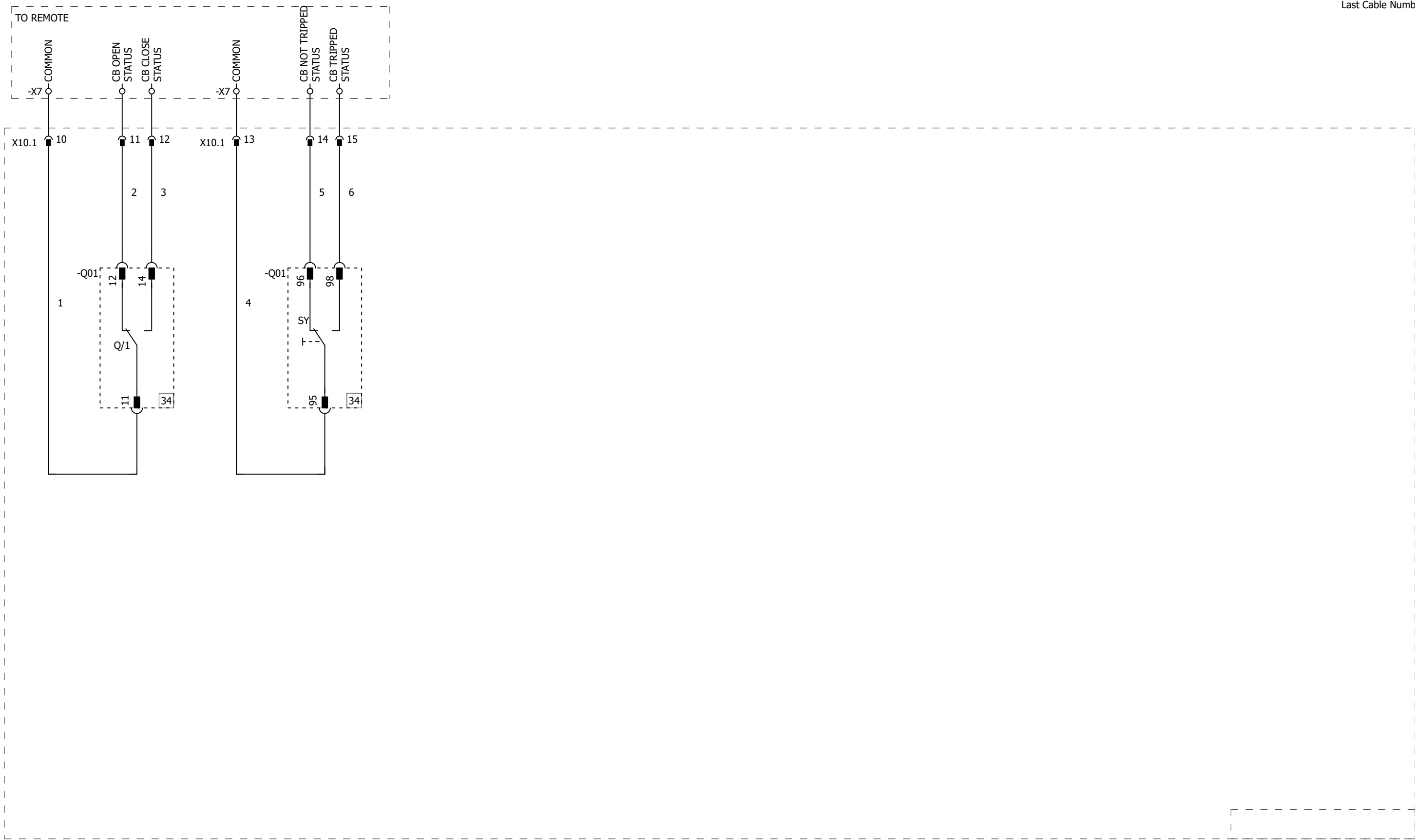
34

34

Last Cable Number: 6

K21001K8603

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R3V12	30.04.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA										Project No. K21001		PAGE No. 177			
ROV0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL												CONT. 178			
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


Last Cable Number: 6

K21001K8603

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ROV0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL												
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ												

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-X10.1	 16	 17	 18	 19	 20	 21	 22	 23	 24	 25	 26	 27	 28	 29									
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B								B
C	<div><div><div>Tag No</div><div>Description (EN)</div><div>+LOCATION</div></div><div>LINE NO:</div><div><div></div><div></div></div><div>Location 8E</div></div>							C
D								D
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F	<div><div><div><div><div>For Approval <input type="checkbox"/></div><div>As Tested <input type="checkbox"/></div></div><div><div>Approved For Construction <input checked="" type="checkbox"/></div><div>As Build <input type="checkbox"/></div></div></div><div><div>Supplier</div><div><div><div>ABB</div><div>ELEKTRİK SAN. A.Ş.</div></div><div><div>SCALE</div><div>3</div></div><div><div>DESIGNED BY : VINEETHA</div><div>CHECKED BY : O.TOPAL</div><div>APPROVED BY : O.YILMAZ</div></div></div><div><div>Customer</div><div>RMG COPPER JSC</div><div><div><div></div><div>RMG</div><div>RICH METALS GROUP</div></div></div></div><div><div>End User</div><div>RMG COPPER JSC</div><div><div><div></div><div>RMG</div><div>RICH METALS GROUP</div></div></div></div><div><div>Project</div><div>TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA</div></div><div><div>Title</div><div>ED FEEDER_XT2H_250_TMA_200A_3P_8E</div></div><div><div>Drawing No.</div><div>4TRD021001C9000</div></div><div><div>Project No.</div><div>K21001</div></div><div><div>+8603</div><div>PAGE No. 179</div><div>CONT. 180</div></div><div><div>SIZE A3</div><div><div></div><div>REV.</div></div></div></div><div><div>K21001K8603</div></div></div></div>							F
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TERMINAL DIAGRAM

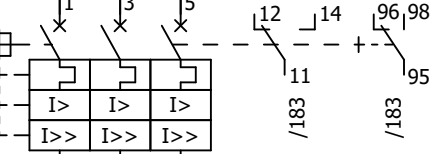
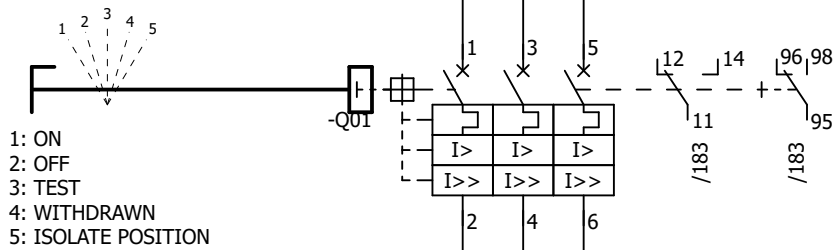
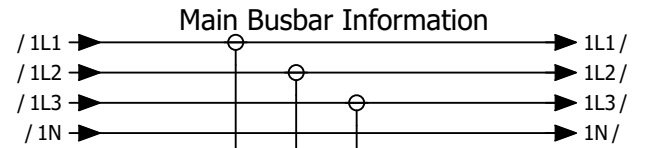
X10.1

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96	-Q01		5 BK	14	•	15	•	16	•	17	•	18	•	19	•	20	•	21	•	22	•	23	•	24	•	25	•	26	•	27	•	28	•	29	•					/177.2:A								
98	-Q01		6 BK	15	•	16	•	17	•	18	•	19	•	20	•	21	•	22	•	23	•	24	•	25	•	26	•	27	•	28	•	29	•					/177.3:A										
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TOTAL TERMINALS COUNT: 20 PCS
TERMINAL TYPE: PLUG PART S8E 1x20P 10-19,20-29

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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8603 SIZE A3	
R3V12 06.08.2021 Last Revision Date ROV0 11.02.2021 Creation Date Rev. Date Description SIGN				SCALE 1 DESIGNED BY : VINEETHA CHECKED BY : O.TOPAL APPROVED BY : O.YILMAZ						Project No. K21001		PAGE No. 181 CONT. +8604/182		 REV.			

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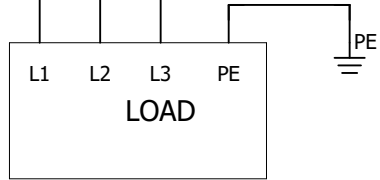
SY/1 (Relay tripped)		95
		98/96
Normal Sequence	CB Open	X
	CB Open	X
Trip Sequence (trip caused by:- YO,Trip Test)	CB Open	X
	CB Trips	X
	CB Reset	X
	CB Open	X
Trip Sequence (trip caused by trip unit)	CB Open	X
	CB Trips	X
	CB Reset	X

CONTACTS	-Q01	
	11	
FUNCTION	12	14
ON		X
OFF	X	
TEST	X	
WITHDRAW	X	
ISOLATED POS.		

X INDICATES CLOSED CONTACT.
CONTACTS ARE MAINTAINED



Cable Size



- kW

K21001K8604

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As Tested	<input type="checkbox"/>	As Build	<input type="checkbox"/>
R3V12	30.04.2021	Last Revision Date	
R0V0	11.02.2021	Creation Date	
Rev.	Date	Description	SIGN

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

Customer	RMG COPPER JSC
End User	RMG COPPER JSC
Project	TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA

End User	RMG COPPER JSC
Project	TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA

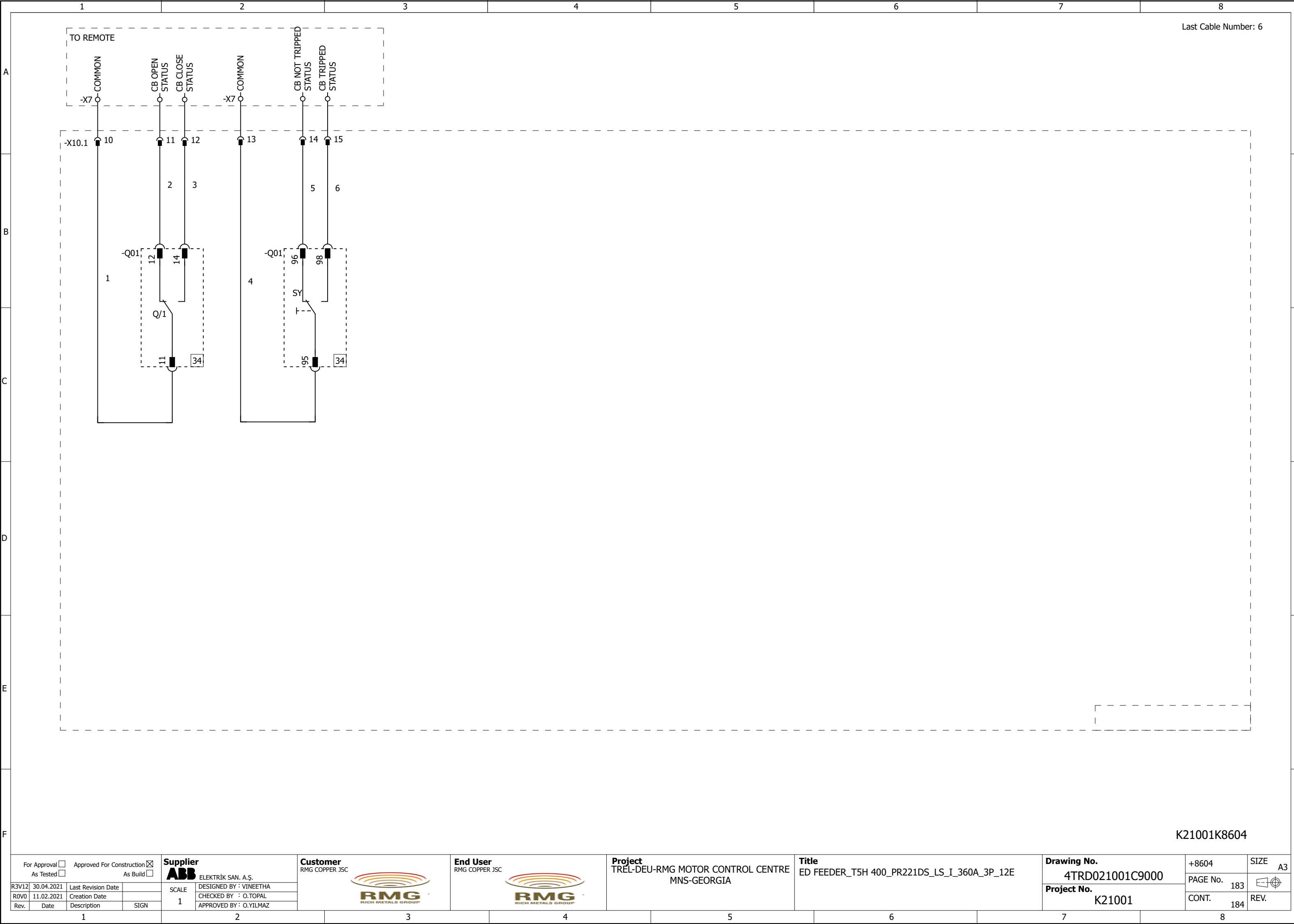
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Title	ED FEEDER_T5H 400_PR221DS_LS_I_360A_3P_12E
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
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Project No.	K21001

+8604	SIZE	A3
PAGE No.	182	
CONT.	183	REV.

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For Approval <input type="checkbox"/>		Approved For Construction <input checked="" type="checkbox"/>																																			
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R3V12	30.04.2021	Last Revision Date																																			
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Rev.	Date	Description	SIGN																																		
				SCALE 1		DESIGNED BY : VINEETHA		CHECKED BY : O.TOPAL						PAGE No. 184																							
						APPROVED BY : O.YILMAZ								CONT. 185	REV.																						

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C								C
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E								E
F								F

Tag No

Description (EN)

+LOCATION

LINE NO:

Location
12E

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K21001K8604

Approval As Tested <input type="checkbox"/>		Approved For Construction <input checked="" type="checkbox"/> As Build <input type="checkbox"/>	
06.08.2021	Last Revision Date		
1.02.2021	Creation Date		
Date	Description	SIGN	


Supplier

 ELEKTRİK SAN. A.Ş.

Customer

 RMG COPPER JSC
 

End User

 RMG COPPER JSC
 

Project

 TREL-DEU-RMG MOTOR CONTROL CENTRE
MNS-GEORGIA

Title

 Module Wire Connection List

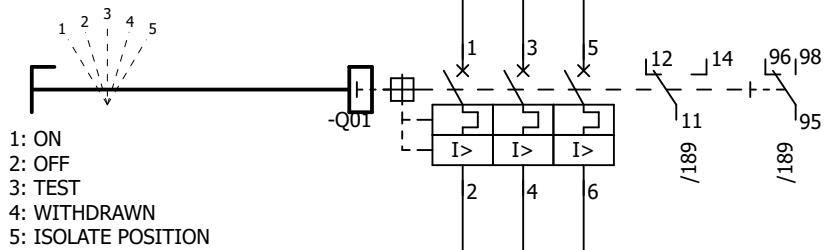
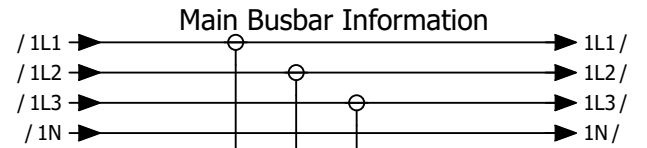
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Project No.	K21001	PAGE No.	186
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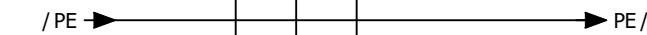
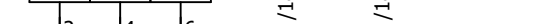
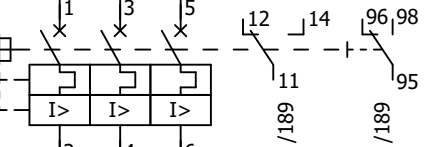
TOTAL TERMINALS COUNT: 20 PCS
TERMINAL TYPE: PLUG PART S8E 1x20P 10-19,20-29

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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8604		SIZE A3			
R3V12 06.08.2021 Last Revision Date ROV0 11.02.2021 Creation Date Rev. Date Description SIGN				SCALE 1		DESIGNED BY : VINEETHA CHECKED BY : O.TOPAL APPROVED BY : O.YILMAZ						Project No. K21001		PAGE No. 187				CONT. +8605/188		REV.	

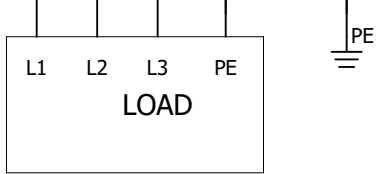
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- 1: ON
- 2: OFF
- 3: TEST
- 4: WITHDRAWN
- 5: ISOLATE POSITION






Cable Size



SY/1 (Relay tripped)		95
		98/96
Normal Sequence	CB Open	X
	CB Open	X
Trip Sequence (trip caused by:- YO,Trip Test)	CB Open	X
	CB Trips	X
	CB Reset	X
	CB Open	X
Trip Sequence (trip caused by trip unit)	CB Open	X
	CB Trips	X
	CB Reset	X

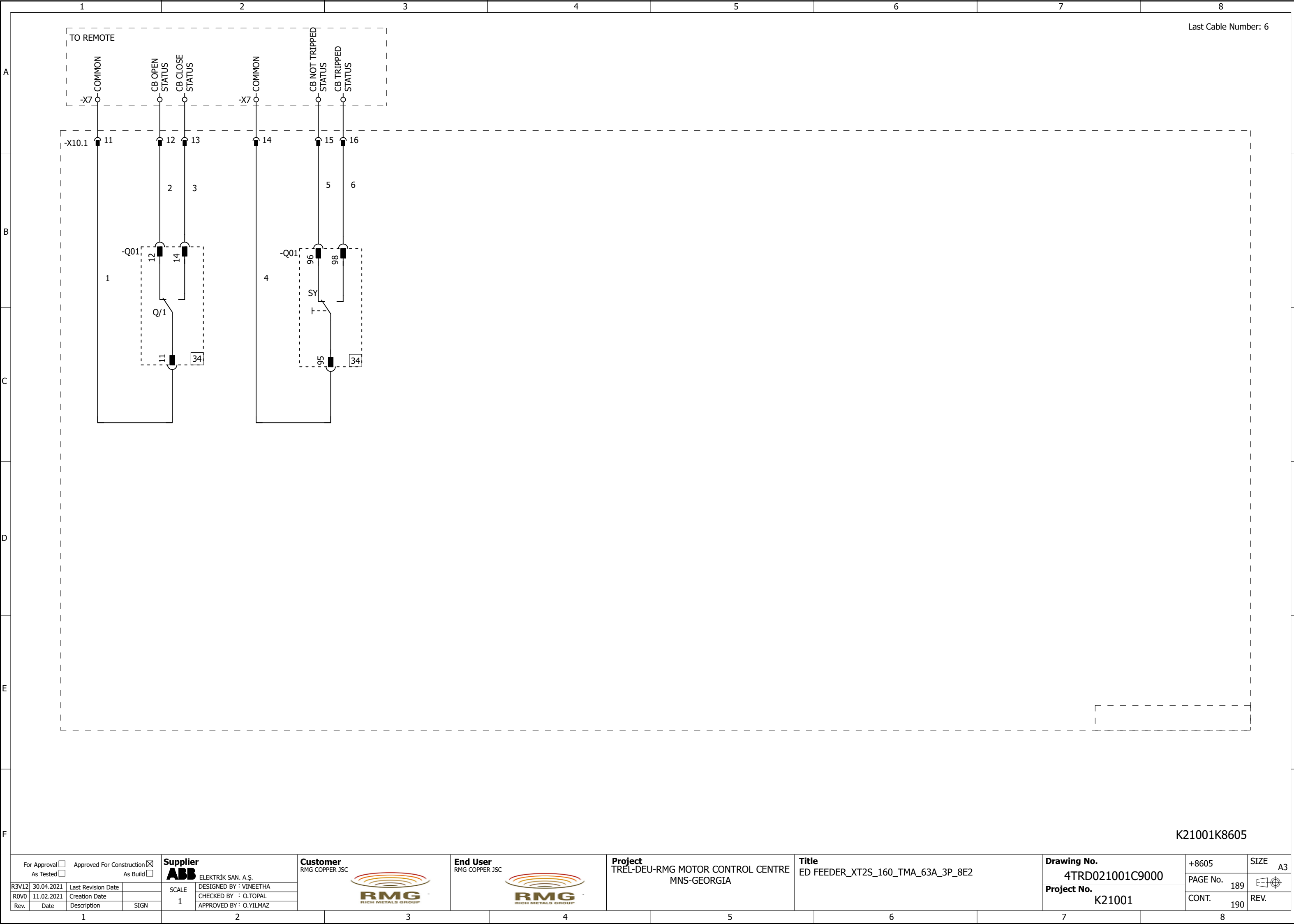
CONTACTS	-Q01	
	11	
FUNCTION	12	14
ON		X
OFF	X	
TEST	X	
WITHDRAW	X	
ISOLATED POS.		

X INDICATES CLOSED CONTACT.
CONTACTS ARE MAINTAINED


















































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SCALE 1	DESIGNED BY : VINEETHA									Project No. K21001	PAGE No.	188	
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	APPROVED BY : O.YILMAZ												

K21001K8605

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A	SPARE TEMINAL																							
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<div><div><div>For Approval <input type="checkbox"/></div><div>As Tested <input type="checkbox"/></div></div><div><div>Approved For Construction <input checked="" type="checkbox"/></div><div>As Build <input type="checkbox"/></div></div></div>		<div>Supplier</div> <div> ELEKTRİK SAN. A.Ş.</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>TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA</div>		<div>Title</div> <div>ED FEEDER_XT2S_160_TMA_63A_3P_8E2</div>		<div>Drawing No.</div> <div>4TRD021001C9000</div>		<div>+8605</div>	<div>SIZE</div> <div>A3</div>									
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R0V0	11.02.2021	Creation Date		1	CHECKED BY : O.TOPAL							Project No.												
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ							K21001		CONT.	REV.									
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D								D
E								E
F								F

Tag No

Description (EN)

+LOCATION

LINE NO:

Location
8E2

For Approval ☐

As Tested ☐

Approved For Construction ☒

As Build ☐


Supplier

ABB

ELEKTRİK SAN. A.Ş.


Customer

RMG COPPER JSC



End User

RMG COPPER JSC



Project

TREL-DEU-RMG MOTOR CONTROL CENTRE
MNS-GEORGIA

Title

ED FEEDER_XT2S_160_TMA_63A_3P_8E2

Drawing No.

4TRD021001C9000

Project No.


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PAGE No. 191

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SIZE A3





REV.

R3V12	30.04.2021	Last Revision Date		SCALE 3	DESIGNED BY : VINEETHA		
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL		
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ		
1	2	3	4	5	6	7	8

K21001K8605

[illegible]

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06.08.2021 Last Revision Date 11.02.2021 Creation Date Date Description SIGN			SCALE 1		DESIGNED BY : VINEETHA CHECKED BY : O.TOPAL APPROVED BY : O.YILMAZ		 		RMG RICH METALS GROUP		RMG RICH METALS GROUP		Project No. K21001		PAGE No. 192 CONT. 193 REV.	

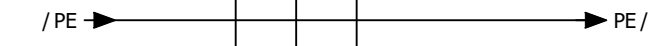
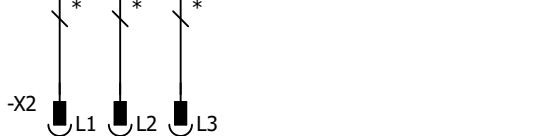
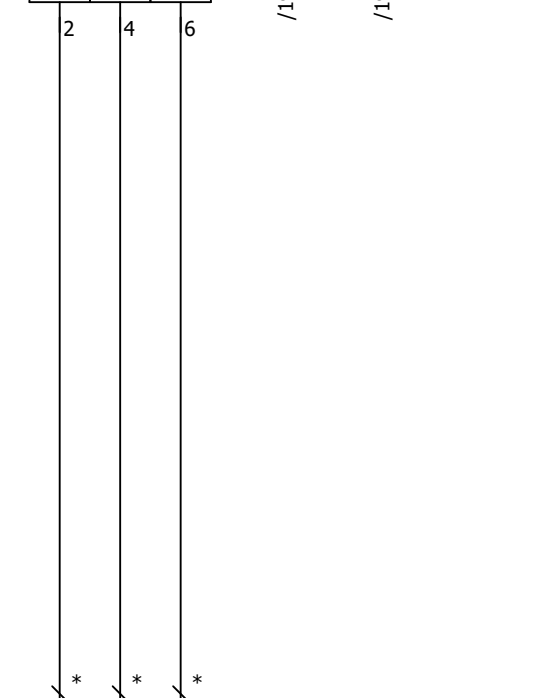
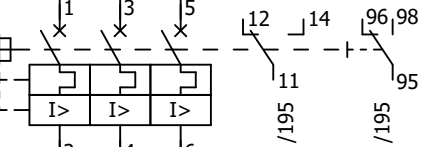
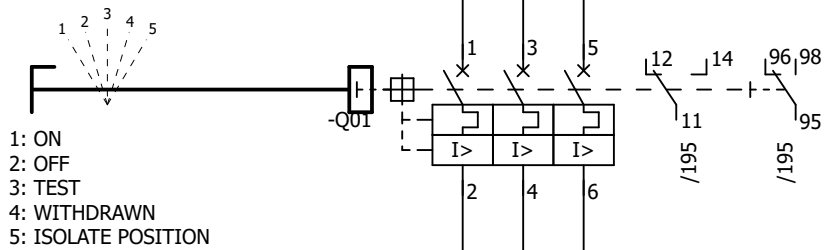
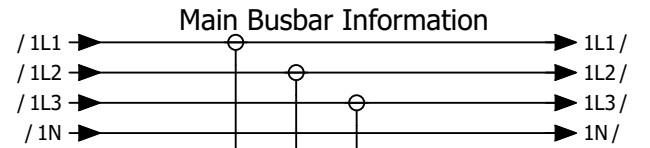
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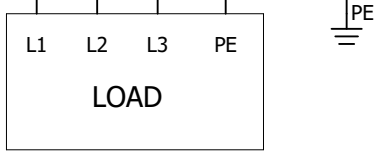
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 TERMINAL TYPE: WITHDRAWABLE MODULE CONTROL PLUG

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R3V12 06.08.2021 Last Revision Date ROV0 11.02.2021 Creation Date Rev. Date Description SIGN				SCALE 1		DESIGNED BY : VINEETHA CHECKED BY : O.TOPAL APPROVED BY : O.YILMAZ						Project No. K21001		PAGE No. 193				CONT. +8606/194		REV.	

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Cable Size



SY/1 (Relay tripped)		95
		98/96
Normal Sequence	CB Open	X
	CB Open	X
Trip Sequence (trip caused by:- YO,Trip Test)	CB Open	X
	CB Trips	X
	CB Reset	X
	CB Open	X
Trip Sequence (trip caused by trip unit)	CB Open	X
	CB Trips	X
	CB Reset	X

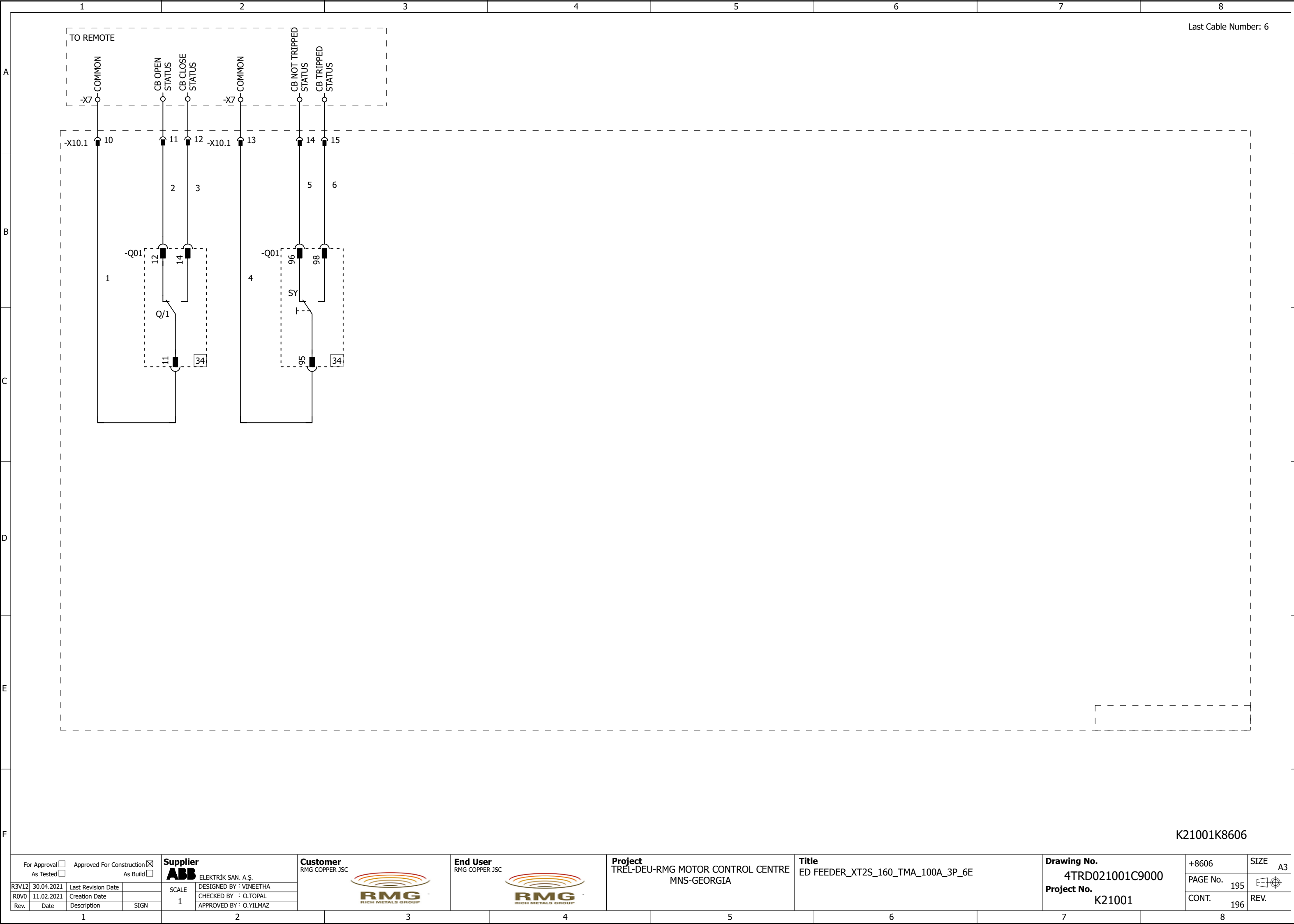
CONTACTS	-Q01	
	11	
FUNCTION	12	14
ON		X
OFF	X	
TEST	X	
WITHDRAW	X	
ISOLATED POS.		

X INDICATES CLOSED CONTACT.
CONTACTS ARE MAINTAINED

<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>Customer</div> <div>RMG COPPER JSC</div> <div></div>		<div>End User</div> <div>RMG COPPER JSC</div> <div></div>		<div>Project</div> <div>TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA</div>		<div>Title</div> <div>ED FEEDER_XT2S_160_TMA_100A_3P_6E</div>		<div>Drawing No.</div> <div>4TRD021001C9000</div>		+8606		SIZE	
R3V12 30.04.2021 Last Revision Date				SCALE 1		DESIGNED BY : VINEETHA						Project No. K21001		PAGE No.		194			
R0V0 11.02.2021 Creation Date						CHECKED BY : O.TOPAL								REV.					
Rev. Date Description SIGN						APPROVED BY : O.YILMAZ								CONT.		195			






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Last Cable Number: 6

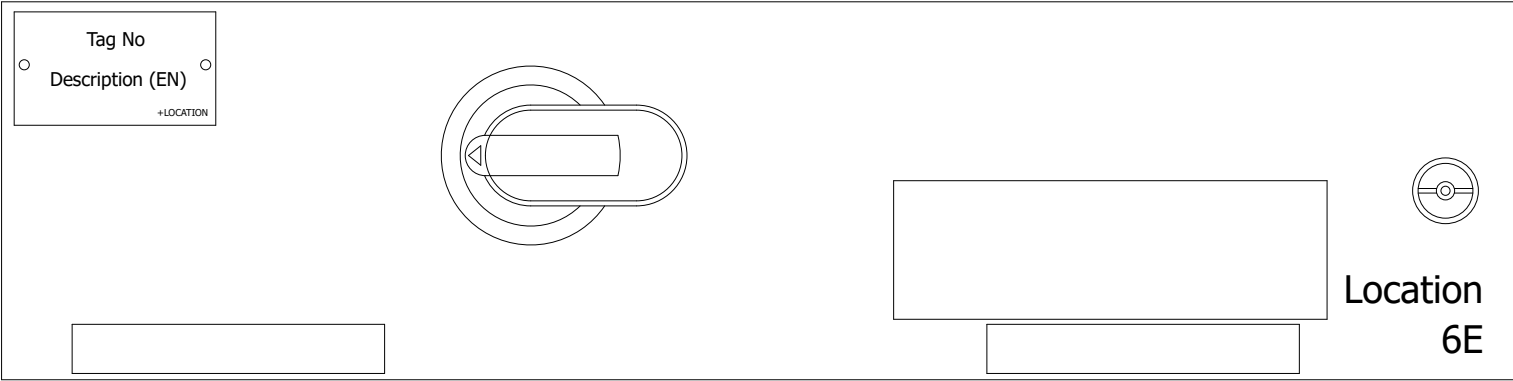
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R3V12	30.04.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA												<div>PAGE No.</div> <div>195</div>	<div></div>	
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL														<div>CONT.</div> <div>196</div>
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ														
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A
B
C
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E
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F



For Approval <input type="checkbox"/>		Approved For Construction <input checked="" type="checkbox"/>		Supplier ABB ELEKTRİK SAN. A.Ş.		Customer RMG COPPER JSC		End User RMG COPPER JSC		Project TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title ED FEEDER_XT2S_160_TMA_100A_3P_6E		Drawing No. 4TRD021001C9000		+8606		SIZE A3	
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R3V12	30.04.2021	Last Revision Date		SCALE 3		DESIGNED BY : VINEETHA													
R0V0	11.02.2021	Creation Date				CHECKED BY : O.TOPAL													
Rev.	Date	Description	SIGN			APPROVED BY : O.YILMAZ													

K21001K8606

Approval <input type="checkbox"/> Approved For Construction <input checked="" type="checkbox"/> s 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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Module Wire Connection List		Drawing No. 4TRD021001C9000		+8606 PAGE No. 198		SIZE 	
6.08.2021 Last Revision Date 1.02.2021 Creation Date Date Description SIGN			SCALE 1 DESIGNED BY : VINEETHA CHECKED BY : O.TOPAL APPROVED BY : O.YILMAZ								Project No. K21001		CONT. 199		REV.			

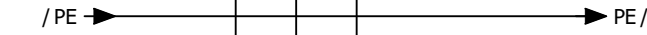
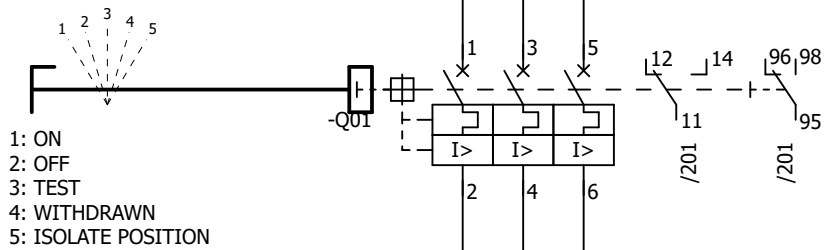
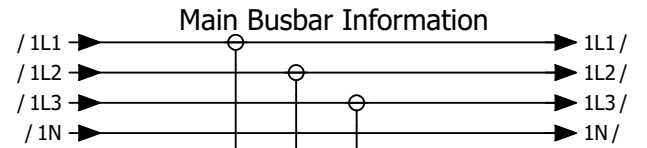
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12	-Q01		2 BK	11	1			/195.2:A
14	-Q01		3 BK	12	1			/195.2:A
95	-Q01		4 BK	13	1			/195.2:A
96	-Q01		5 BK	14	1			/195.2:A
98	-Q01		6 BK	15	1			/195.3:A
				16	1			/196.1:A
				17	1			/196.2:A
				18	1			/196.2:A
				19	1			/196.2:A
				20	1			/196.2:A
				21	1			/196.2:A
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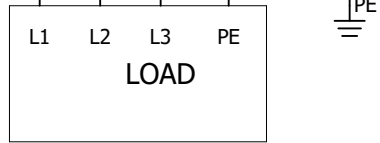
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TERMINAL TYPE: PLUG PART S8E 1x20P 10-19,20-29

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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8606 SIZE A3	
R3V12 06.08.2021 Last Revision Date ROV0 11.02.2021 Creation Date Rev. Date Description SIGN				SCALE 1 DESIGNED BY : VINEETHA CHECKED BY : O.TOPAL APPROVED BY : O.YILMAZ						Project No. K21001		PAGE No. 199 CONT. +8607/200		 REV.			

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Cable Size



SY/1 (Relay tripped)		95
		98/96
Normal Sequence	CB Open	X
	CB Open	X
Trip Sequence (trip caused by:- YO,Trip Test)	CB Open	X
	CB Trips	X
	CB Reset	X
	CB Open	X
Trip Sequence (trip caused by trip unit)	CB Open	X
	CB Trips	X
	CB Reset	X

CONTACTS	-Q01	
	11	
FUNCTION	12	14
ON		X
OFF	X	
TEST	X	
WITHDRAW	X	
ISOLATED POS.		

X INDICATES CLOSED CONTACT.
CONTACTS ARE MAINTAINED

For Approval <input type="checkbox"/> As Tested		Approved For Construction <input checked="" type="checkbox"/> As Build	
R3V12	30.04.2021	Last Revision Date	
R0V0	11.02.2021	Creation Date	
Rev.	Date	Description	SIGN

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

Customer RMG COPPER JSC	

End User RMG COPPER JSC	

Project TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA	
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Title ED FEEDER_XT2S_250_TMA_200A_3P_8E	
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
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Project No. K21001	

+8607	SIZE A3
PAGE No. 200	
CONT. 201	
REV.	

K21001K8607



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A	SPARE TEMINAL																																				
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-X10.1	 16	 17	 18	 19	 20	 21	 22	 23	 24	 25	 26	 27	 28	 29																							
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C																																					
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F	K21001K8607																																				
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As Tested <input type="checkbox"/>		As Build <input type="checkbox"/>																																			
R3V12	30.04.2021	Last Revision Date																																			
R0V0	11.02.2021	Creation Date																																			
Rev.	Date	Description	SIGN																																		
				SCALE 1		DESIGNED BY : VINEETHA		CHECKED BY : O.TOPAL						PAGE No. 202																							
						APPROVED BY : O.YILMAZ								CONT. 203		REV.																					

 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

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1	2	3	4	5	6	7	8	
A								A
B								B
C								C
D								D
E								E
F								F

Tag No

Description (EN)

+LOCATION

LINE NO:

Location
8E

For Approval ☐

As Tested ☐

Approved For Construction ☒

As Build ☐

Supplier

ABB

ELEKTRİK SAN. A.Ş.

Customer

RMG COPPER JSC

RMG

RICH METALS GROUP

End User

RMG COPPER JSC

RMG

RICH METALS GROUP

Project

TREL-DEU-RMG MOTOR CONTROL CENTRE
MNS-GEORGIA

Title

ED FEEDER_XT2S_250_TMA_200A_3P_8E

Drawing No.

4TRD021001C9000

Project No.

K21001

+8607

PAGE No. 203

CONT. 204

SIZE A3

REV.

Rev.

Date

Description

SIGN

30.04.2021

11.02.2021

Last Revision Date

Creation Date

SCALE 3

DESIGNED BY : VINEETHA

CHECKED BY : O.TOPAL

APPROVED BY : O.YILMAZ

1

2

3

4

5

6

7

8

K21001K8607

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

1	2	3	4	5	6	7	8
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TERMINAL DIAGRAM

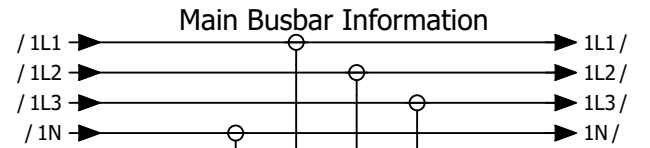
X10.1

11	-Q01	1	10	•	•
12	-Q01	2	11	•	•
14	-Q01	3	12	•	•
			16	•	•
			17	•	•
			18	•	•
			19	•	•
95	-Q01	4	13	•	•
			20	•	•
96	-Q01	5	14	•	•
			21	•	•
98	-Q01	6	15	•	•
			22	•	•
			23	•	•
			24	•	•
			25	•	•
			26	•	•
			27	•	•
			28	•	•
			29	•	•

TOTAL TERMINALS COUNT: 20 PCS
TERMINAL TYPE: PLUG PART S8E 1x20P 10-19,20-29

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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8607 SIZE A3	
R3V12 06.08.2021 Last Revision Date ROV0 11.02.2021 Creation Date Rev. Date Description SIGN				SCALE 1 DESIGNED BY : VINEETHA CHECKED BY : O.TOPAL APPROVED BY : O.YILMAZ								Project No. K21001		PAGE No. 205 CONT. +8651/206		 REV.	

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-X1 1 2 3 4

* * * *

- 1: ON
2: OFF
3: TEST
4: WITHDRAWN
5: ISOLATE POSITION

-Q01

1 3 5 7
I> I> I> I>

2 4 6 8

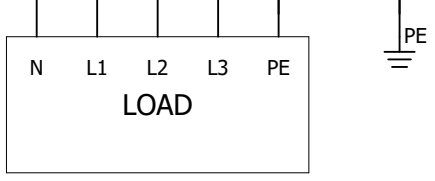
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11 95
/207 /207

-X2 N L1 L2 L3

* * * *

/ PE / PE /

Cable Size



SY/1 (Relay tripped)		95
		98/96
Normal Sequence	CB Open	X
	CB Open	X
Trip Sequence (trip caused by:- YO,Trip Test)	CB Open	X
	CB Trips	X
	CB Reset	X
	CB Open	X
Trip Sequence (trip caused by trip unit)	CB Open	X
	CB Trips	X
	CB Reset	X

CONTACTS	-Q01	
	11	
FUNCTION	12	14
ON		X
OFF	X	
TEST	X	
WITHDRAW	X	
ISOLATED POS.		

X INDICATES CLOSED CONTACT.
CONTACTS ARE MAINTAINED

For Approval <input type="checkbox"/> As Tested		Approved For Construction <input checked="" type="checkbox"/> As Build	
R3V12	30.04.2021	Last Revision Date	
R0V0	11.02.2021	Creation Date	
Rev.	Date	Description	SIGN

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


Customer RMG COPPER JSC	
	

End User RMG COPPER JSC	
	

Project TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA	
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Title ED FEEDER_XT2H_160_TMA_160A_4P_6E	
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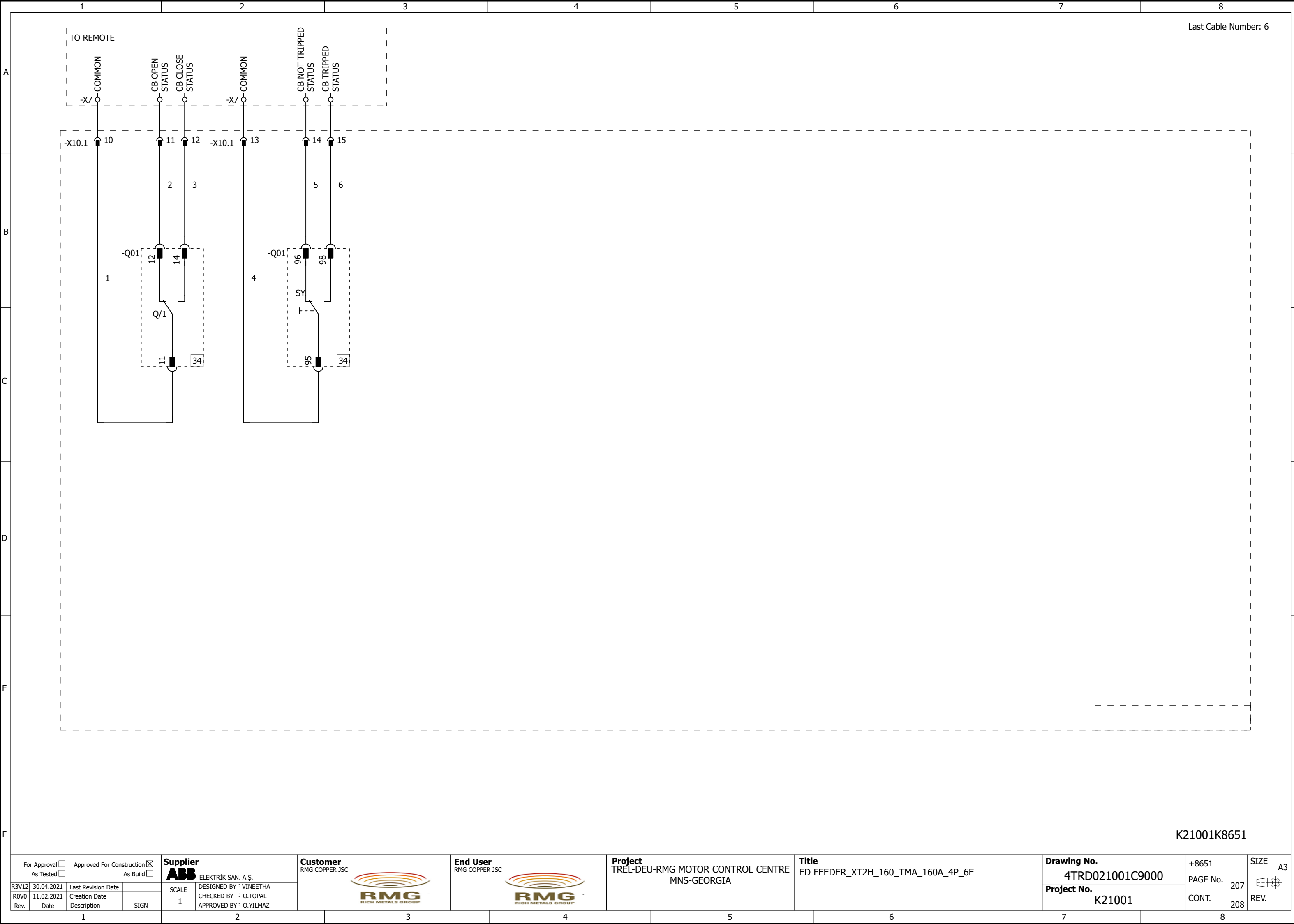
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Project No. K21001	

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K21001K8651

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


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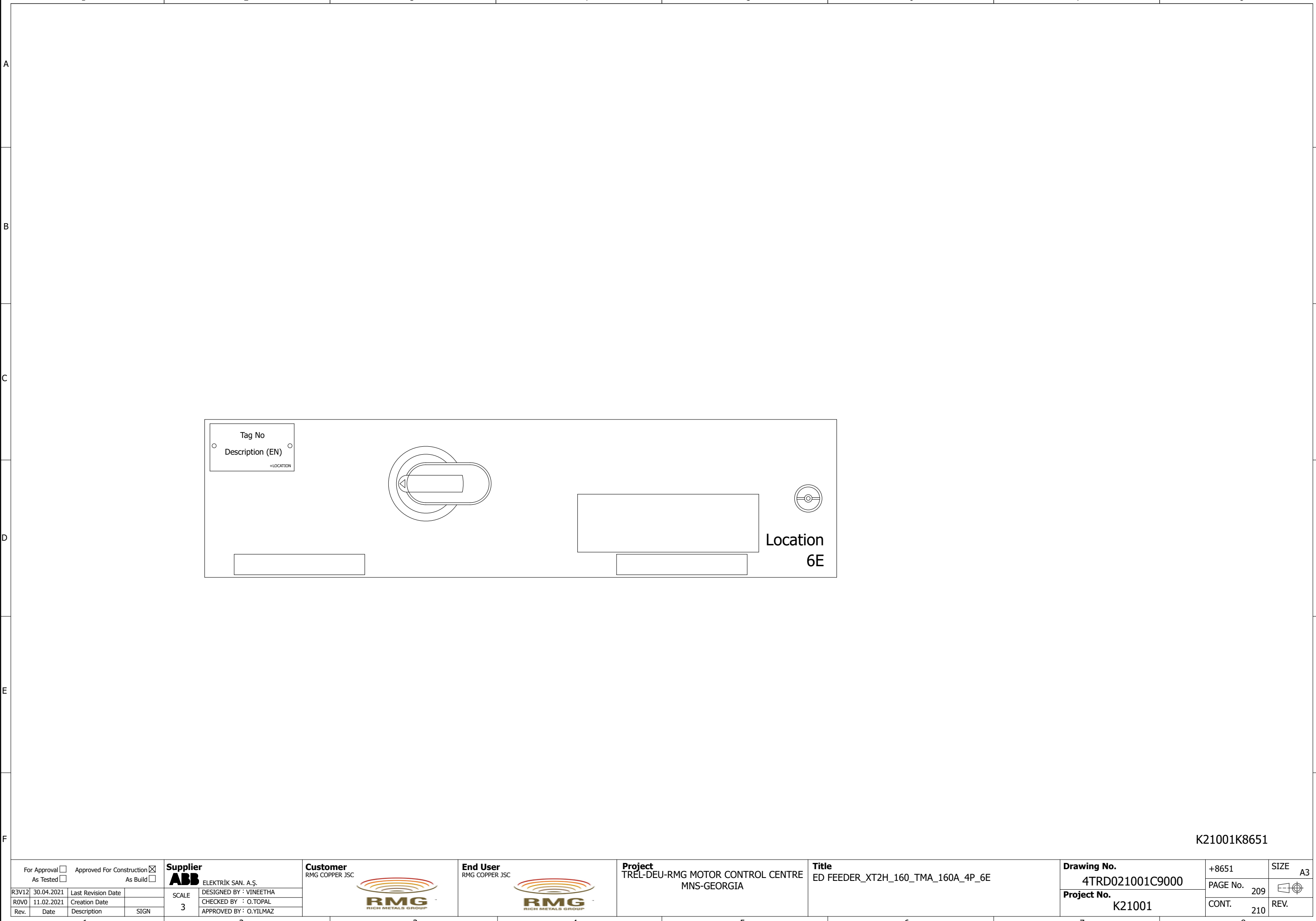
K21001K8651




<div><div><div>For Approval</div><div>As Tested</div></div><div><div>Approved For Construction</div><div>As Build</div></div></div>				<div><div>Supplier</div><div>ABB ELEKTRİK SAN. A.Ş.</div></div>		<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>TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA</div></div>		<div><div>Title</div><div>ED FEEDER_XT2H_160_TMA_160A_4P_6E</div></div>		<div><div>Drawing No.</div><div>4TRD021001C9000</div></div>		<div><div>+8651</div><div>PAGE No. 207</div></div>		<div><div>SIZE</div><div>A3</div></div>	
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R3V12	30.04.2021	Last Revision Date		SCALE 3	DESIGNED BY : VINEETHA							Project No. K21001	PAGE No.	209			
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL								CONT.	210		REV.	
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ												

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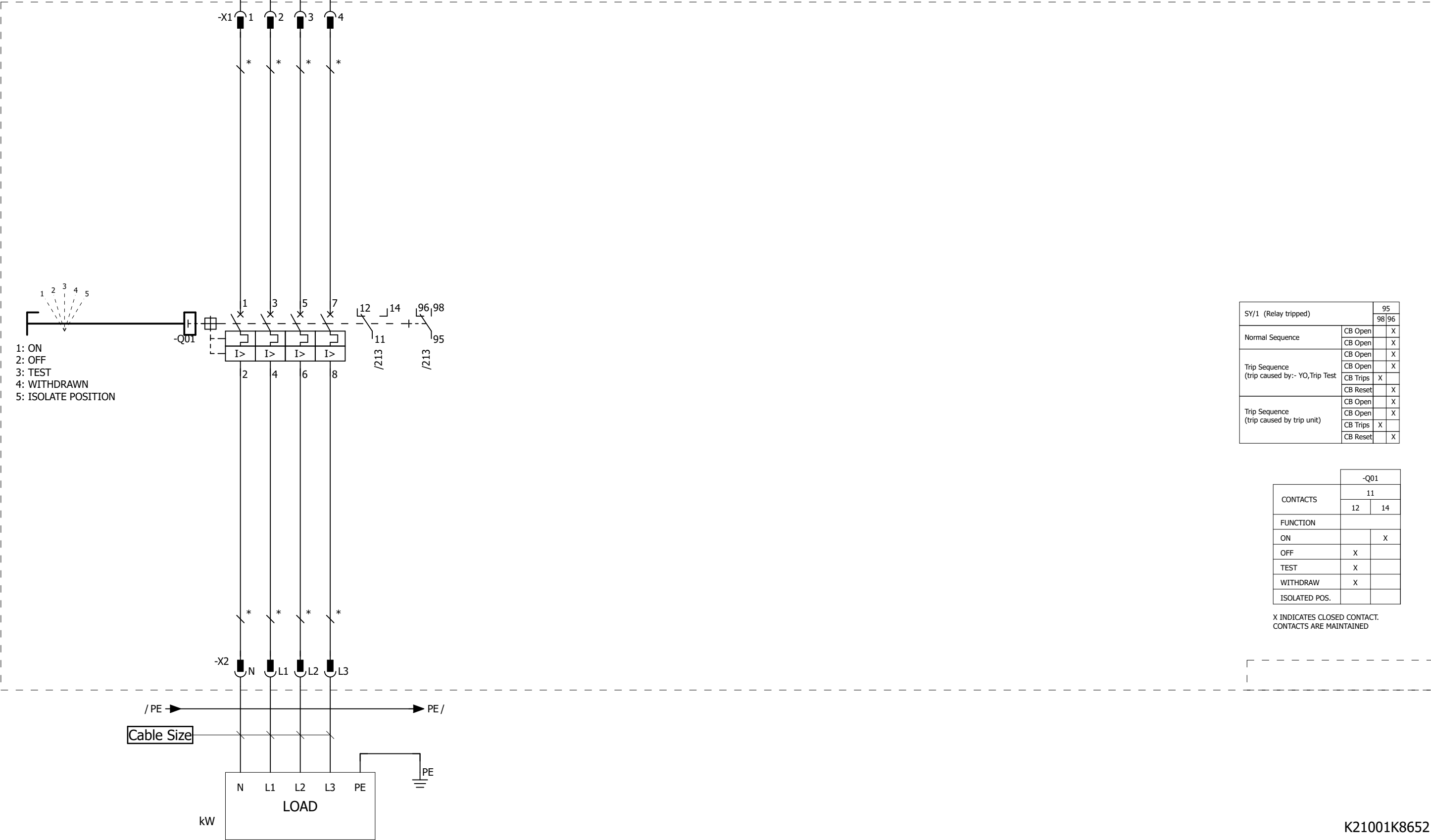
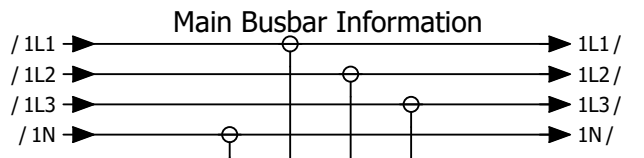
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TERMINAL DIAGRAM
-X10.1

DEVICE PIN		DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR		DEVICE DESIGNATION	DEVICE PIN	PAGE
11	-Q01	1	BK	10	-			/207.1:A
12	-Q01	2	BK	11	-			/207.1:A
14	-Q01	3	BK	12	-			/207.2:A
95	-Q01	4	BK	13	-			/207.2:A
96	-Q01	5	BK	14	-			/207.2:A
98	-Q01	6	BK	15	-			/207.3:A
				16	-			/208.1:A
				17	-			/208.2:A
				18	-			/208.2:A
				19	-			/208.2:A
				20	-			/208.2:A
				21	-			/208.2:A
				22	-			/208.2:A
				23	-			/208.3:A
				24	-			/208.3:A
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				26	-			/208.3:A
				27	-			/208.3:A
				28	-			/208.3:A
				29	-			/208.3:A

TOTAL TERMINALS COUNT: 20 PCS
TERMINAL TYPE: PLUG PART S8E 1x20P 10-19,20-29

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- 1: ON
- 2: OFF
- 3: TEST
- 4: WITHDRAWN
- 5: ISOLATE POSITION














































SY/1 (Relay tripped)		95
		98/96
Normal Sequence	CB Open	X
	CB Open	X
Trip Sequence (trip caused by:- YO, Trip Test)	CB Open	X
	CB Open	X
	CB Trips	X
	CB Reset	X
Trip Sequence (trip caused by trip unit)	CB Open	X
	CB Open	X
	CB Trips	X
	CB Reset	X

	-Q01	
CONTACTS	11	
	12	14
FUNCTION		
ON		X
OFF	X	
TEST	X	
WITHDRAW	X	
ISOLATED POS.		

X INDICATES CLOSED CONTACT.
CONTACTS ARE MAINTAINED

K21001K8652



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						Project No.		CONT.	215																																			
						K21001				REV.																																		

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D								D
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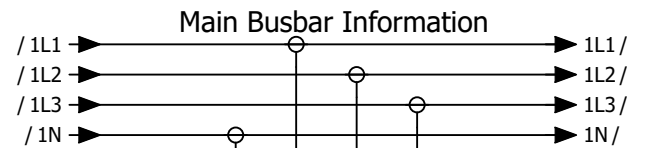
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6.08.2021 Last Revision Date 1.02.2021 Creation Date Date Description SIGN			SCALE 1 DESIGNED BY : VINEETHA CHECKED BY : O.TOPAL APPROVED BY : O.YILMAZ								Project No. K21001		PAGE No. 216 CONT. 217 REV.			

-X10.1

TOTAL TERMINALS COUNT: 20 PCS
TERMINAL TYPE: PLUG PART S8E 1x20P 10-19,20-29

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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8652		SIZE A3			
R3V12 06.08.2021 Last Revision Date ROV0 11.02.2021 Creation Date Rev. Date Description SIGN				SCALE 1		DESIGNED BY : VINEETHA CHECKED BY : O.TOPAL APPROVED BY : O.YILMAZ						Project No. K21001		PAGE No. 217				CONT. +8653/218		REV.	

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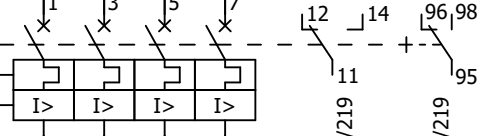
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1 2 3 4 5

1: ON
2: OFF
3: TEST
4: WITHDRAWN
5: ISOLATE POSITION

-Q01



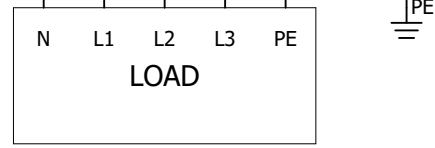
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-X2 N L1 L2 L3

/ PE / PE /

Cable Size



SY/1 (Relay tripped)		95
		98/96
Normal Sequence	CB Open	X
	CB Open	X
Trip Sequence (trip caused by:- YO,Trip Test)	CB Open	X
	CB Trips	X
	CB Reset	X
	CB Open	X
Trip Sequence (trip caused by trip unit)	CB Open	X
	CB Trips	X
	CB Reset	X

CONTACTS	-Q01	
	11	
FUNCTION	12	14
ON		X
OFF	X	
TEST	X	
WITHDRAW	X	
ISOLATED POS.		

X INDICATES CLOSED CONTACT.
CONTACTS ARE MAINTAINED

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R3V12	30.04.2021	Last Revision Date	
R0V0	11.02.2021	Creation Date	
Rev.	Date	Description	SIGN

Supplier		Customer	
ABB ELEKTRİK SAN. A.Ş.		RMG COPPER JSC	
SCALE			
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DESIGNED BY : VINEETHA			
CHECKED BY : O.TOPAL			
APPROVED BY : O.YILMAZ			

End User			
RMG COPPER JSC			

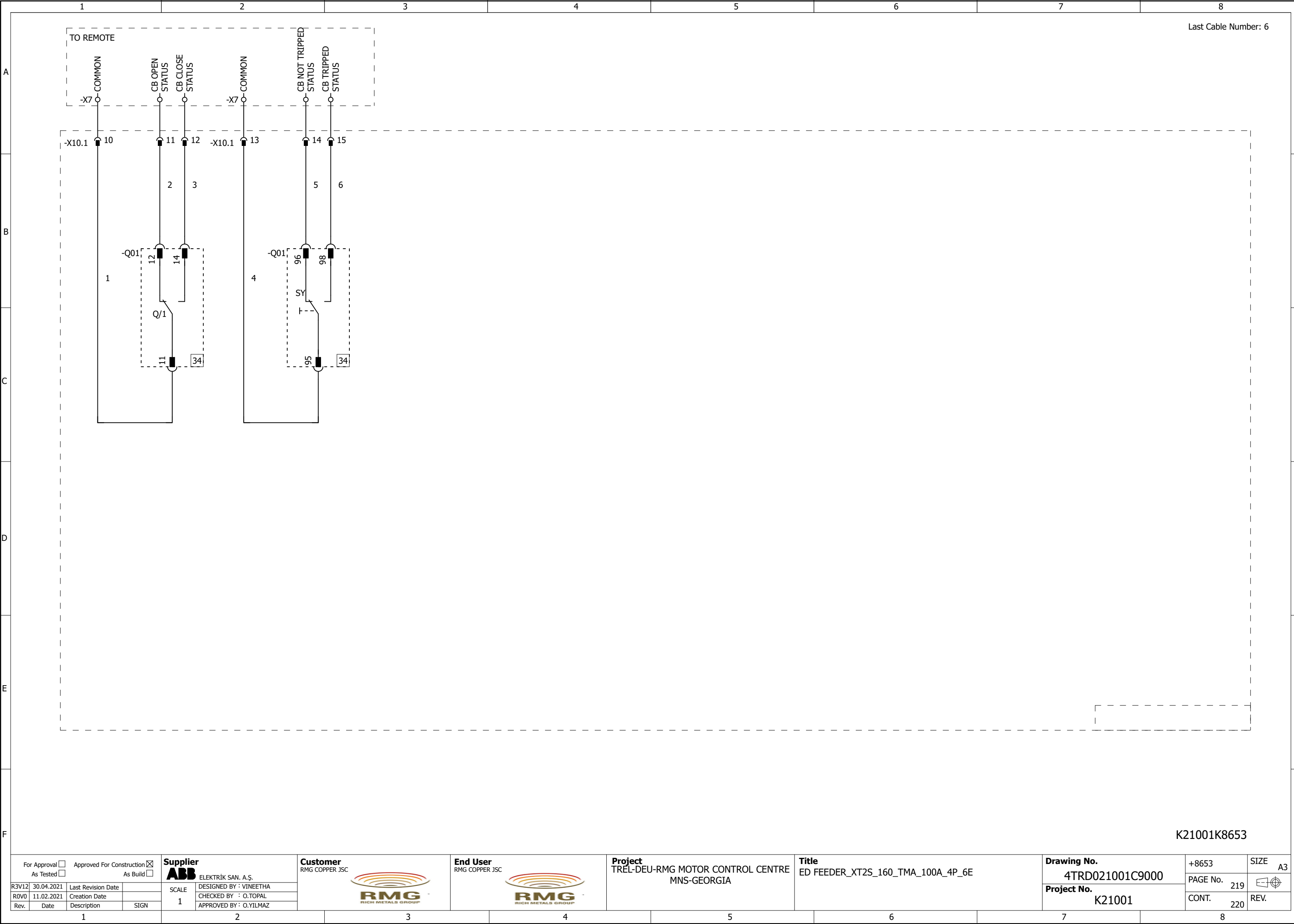
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TREL-DEU-RMG MOTOR CONTROL CENTRE			
MNS-GEORGIA			

Title			
ED FEEDER_XT2S_160_TMA_100A_4P_6E			















































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4TRD021001C9000		PAGE No. 218	A3
Project No.		CONT. 219	REV.
K21001			

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Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ																		
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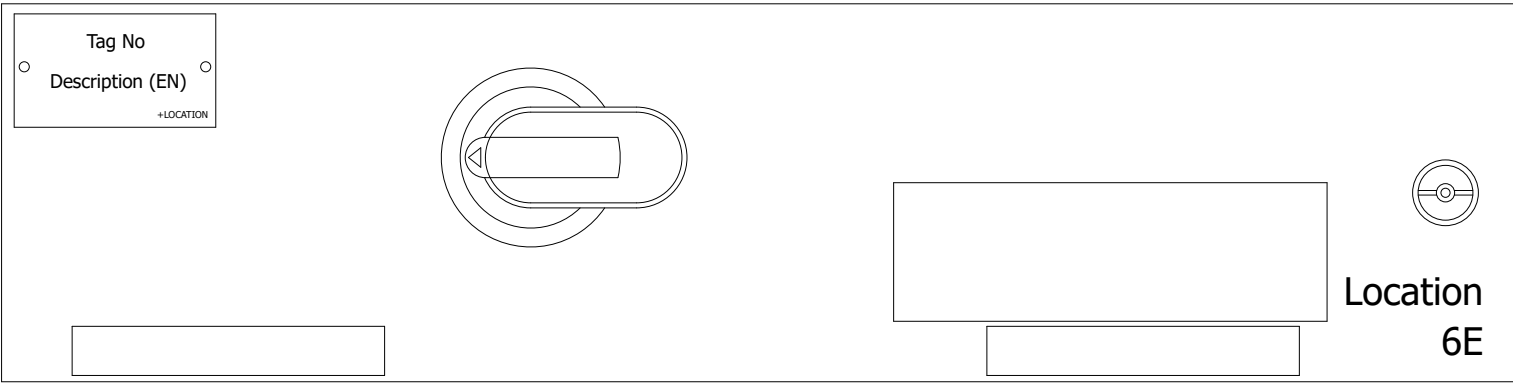
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R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL									CONT.	222			
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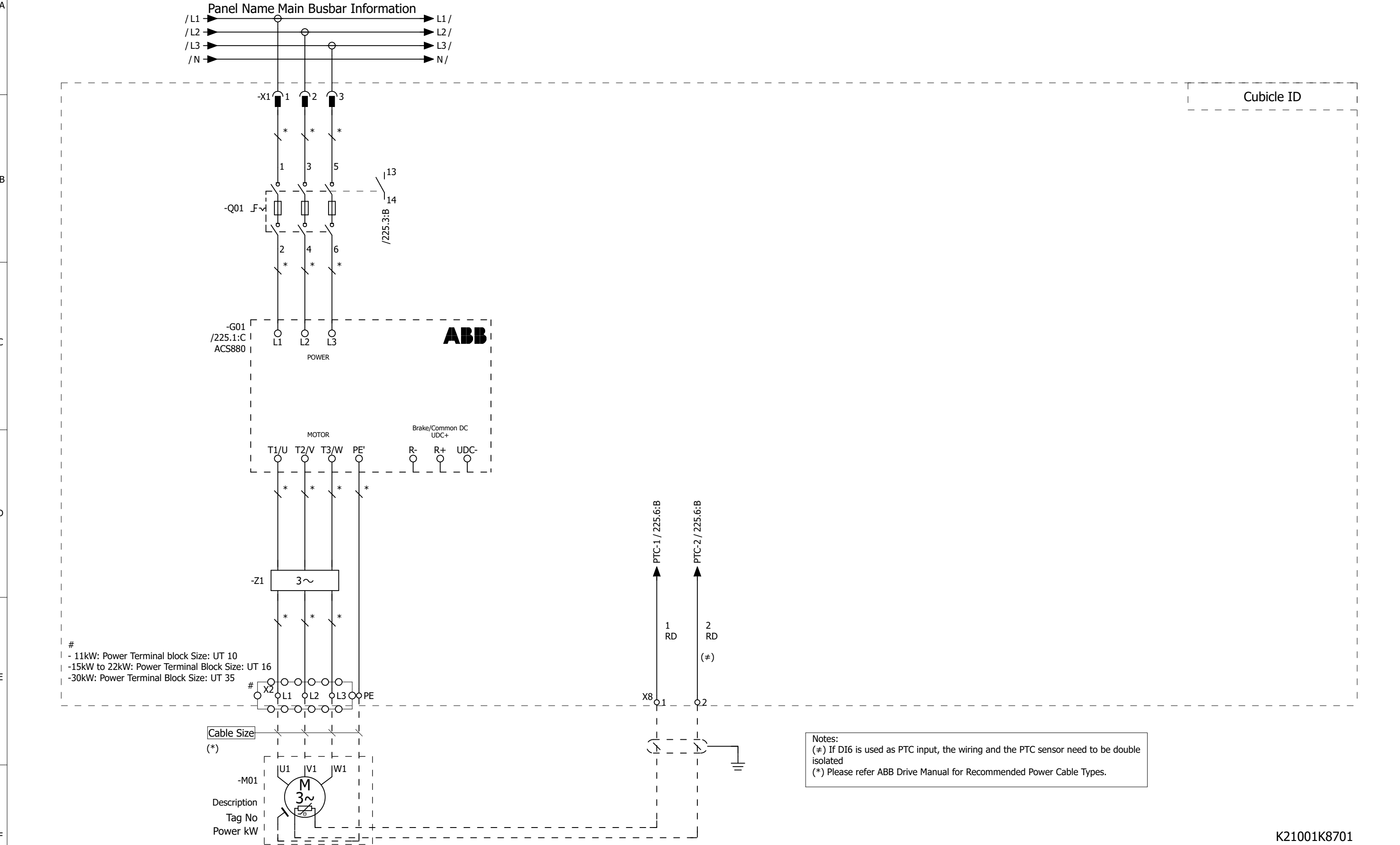
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06.08.2021 Last Revision Date			SCALE 1		DESIGNED BY : VINEETHA								PAGE No. 222					
1.02.2021 Creation Date					CHECKED BY : O.TOPAL								CONT. 223		REV.			
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TOTAL TERMINALS COUNT: 20 PCS
TERMINAL TYPE: PLUG PART S8E 1x20P 10-19,20-29

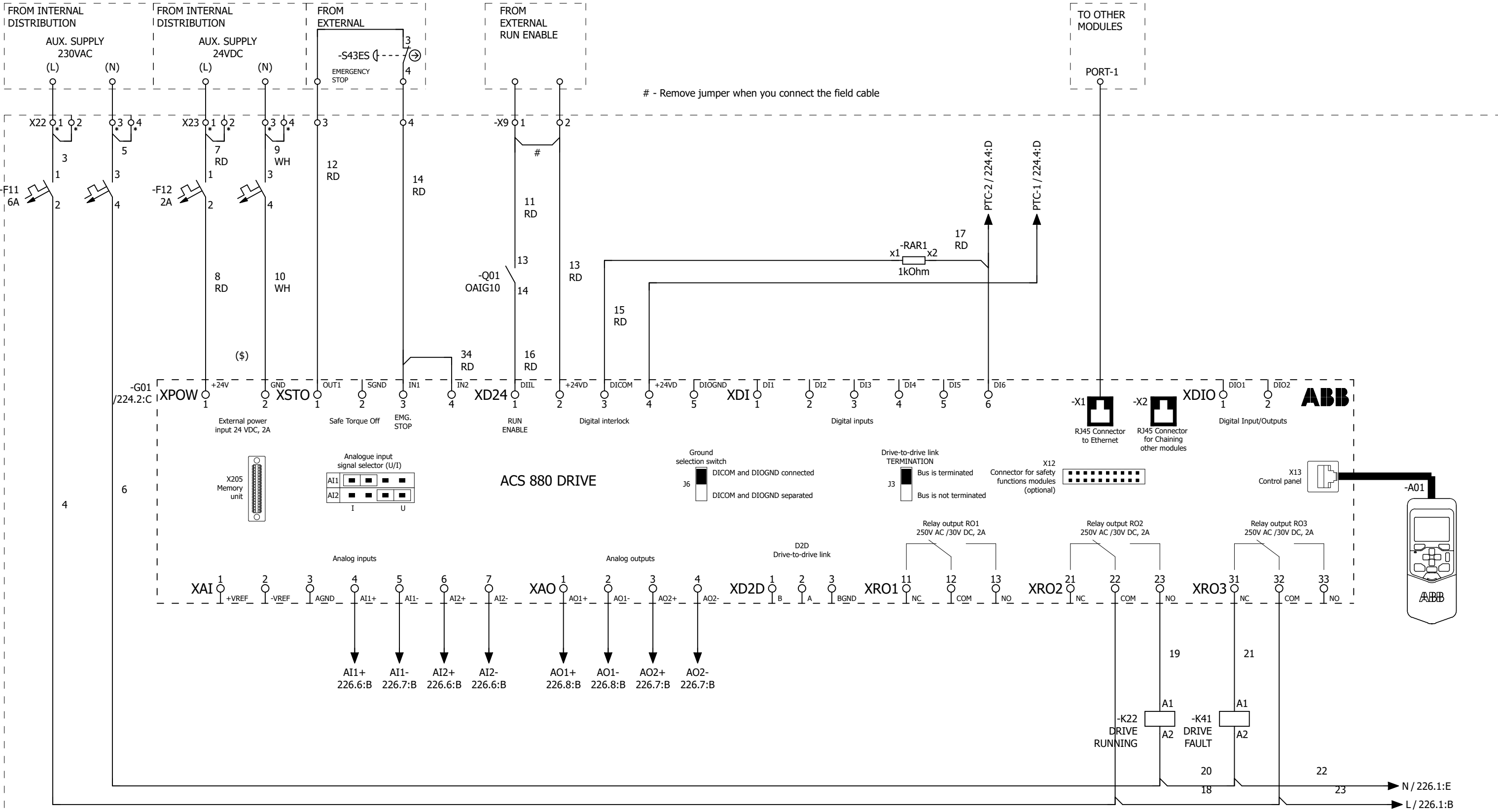
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R3V12 06.08.2021 Last Revision Date ROV0 11.02.2021 Creation Date Rev. Date Description SIGN				SCALE 1		DESIGNED BY : VINEETHA CHECKED BY : O.TOPAL APPROVED BY : O.YILMAZ						Project No. K21001		PAGE No. 223				REV.	
												CONT. +8701/224							

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<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>TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA</div>		<div>Title</div> <div>VFD-du/dt_3P_upto 30kW_OS Switch_ACS880_16E_28E_36E_PM</div>		<div>Drawing No.</div> <div>4TRD021001C9000</div>		<div>+8701</div> <div>SIZE</div> <div>A3</div>	
R3V12	30.04.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA								<div>Project No.</div> <div>K21001</div>	<div>PAGE No.</div> <div>224</div>		<div></div> <div>REV.</div>	
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL									<div>CONT.</div> <div>225</div>			
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ												

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R0V0	11.02.2021	Creation Date	
Rev.	Date	Description	SIGN

Supplier	ABB ELEKTRİK SAN. A.Ş.
Customer	RMG COPPER JSC
End User	RMG COPPER JSC
Project	TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA
Title	VFD-du/dt_3P_upto 30kW_OS Switch_ACS880_16E_28E_36E_PM
Drawing No.	4TRD021001C9000
Project No.	K21001

SCALE	1
DESIGNED BY	VINEETHA
CHECKED BY	O.TOPAL
APPROVED BY	O.YILMAZ

Supplier	ABB ELEKTRİK SAN. A.Ş.
Customer	RMG COPPER JSC
End User	RMG COPPER JSC
Project	TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA
Title	VFD-du/dt_3P_upto 30kW_OS Switch_ACS880_16E_28E_36E_PM
Drawing No.	4TRD021001C9000
Project No.	K21001

Supplier	ABB ELEKTRİK SAN. A.Ş.
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End User	RMG COPPER JSC
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Title	VFD-du/dt_3P_upto 30kW_OS Switch_ACS880_16E_28E_36E_PM
Drawing No.	4TRD021001C9000
Project No.	K21001

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End User	RMG COPPER JSC
Project	TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA
Title	VFD-du/dt_3P_upto 30kW_OS Switch_ACS880_16E_28E_36E_PM
Drawing No.	4TRD021001C9000
Project No.	K21001

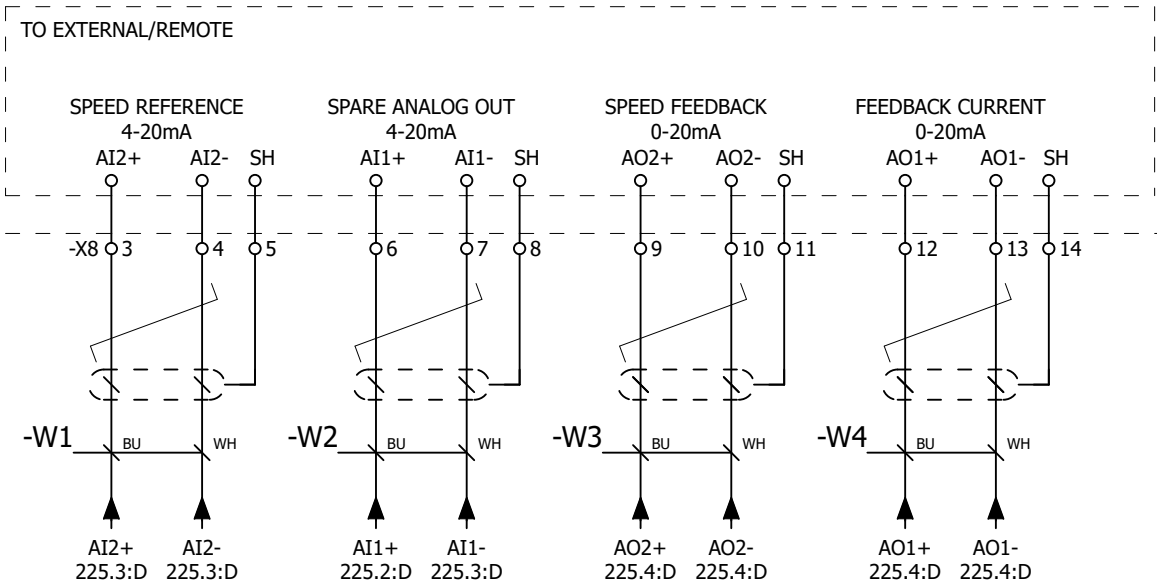
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End User	RMG COPPER JSC
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Title	VFD-du/dt_3P_upto 30kW_OS Switch_ACS880_16E_28E_36E_PM
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Title	VFD-du/dt_3P_upto 30kW_OS Switch_ACS880_16E_28E_36E_PM
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Supplier	ABB ELEKTRİK SAN. A.Ş.
Customer	RMG COPPER JSC
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Project	TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA
Title	VFD-du/dt_3P_upto 30kW_OS Switch_ACS880_16E_28E_36E_PM
Drawing No.	4TRD021001C9000
Project No.	K21001

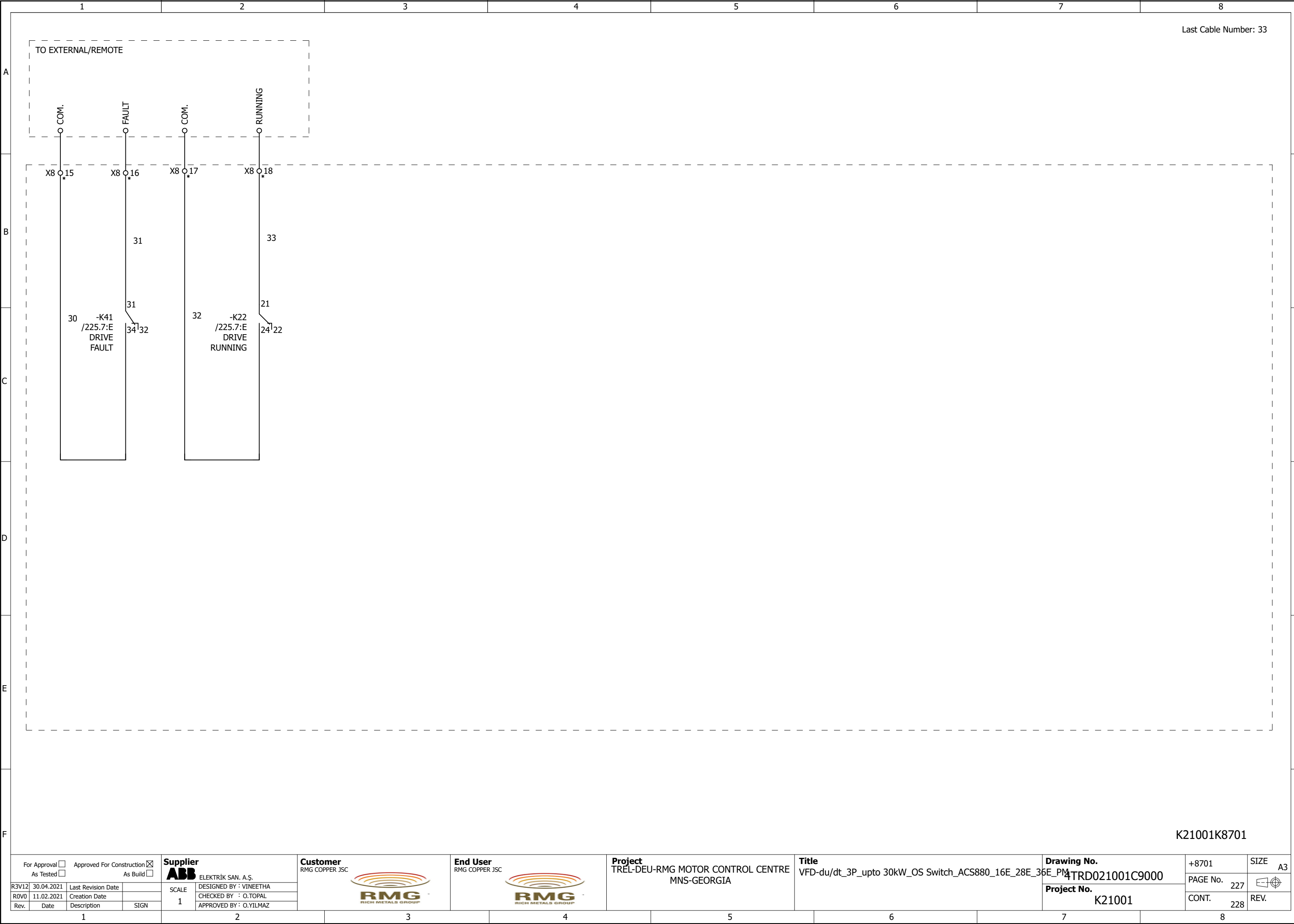
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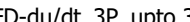
+8701	SIZE	A3
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R3V12 30.04.2021		Last Revision Date		<div>SCALE 1</div>		DESIGNED BY : VINEETHA		<div>PAGE No. 227</div>		<div>Project No. K21001</div>		<div>CONT. 228</div>		<div>REV.</div>																	
R0V0 11.02.2021		Creation Date				CHECKED BY : O.TOPAL																									
Rev. Date		Description				APPROVED BY: O.YILMAZ																									
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1		2		3		4		5		6		7		8	
A															
B															
C															
D															
E															
F															

Tag No

Description (EN)

+LOCATION

LINE NO:

H11

DRIVE STOP

WHITE

H12

DRIVE RUNNING

GREEN

H13

DRIVE FAULT

RED

Location
16E

Tag No

Description (EN)

+LOCATION

LINE NO:

H11

DRIVE STOP

WHITE

H12

DRIVE RUNNING

GREEN

H13

DRIVE FAULT

RED

Location
28E

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30.04.2021

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ROV0

11.02.2021

Creation Date

Rev.

Date

Description

SIGN

Supplier

ABB

ELEKTRİK SAN. A.Ş.

SCALE

3

DESIGNED BY : VINEETHA

CHECKED BY : O.TOPAL

APPROVED BY : O.YILMAZ

Customer

RMG COPPER JSC

RMG

RICH METALS GROUP

End User

RMG COPPER JSC

RMG

RICH METALS GROUP

Project

TREL-DEU-RMG MOTOR CONTROL CENTRE
MNS-GEORGIA

Title

VFD-du/dt_3P_upto 30kW_OS Switch_ACS880_16E_28E_36E_PM4

Drawing No.

4TRD021001C9000

Project No.

K21001

+8701

PAGE No.

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SIZE

A3






REV.

K21001K8701

Location
16E

<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>RMG COPPER JSC</div>		<div>End User</div> <div>RMG COPPER JSC</div>		<div>Project</div> <div>TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA</div>		<div>Title</div> <div>VFD-du/dt_3P_upto 30kW_OS Switch_ACS880_16E_28E_36E_PM</div>		<div>Drawing No.</div> <div>4TRD021001C9000</div>		<div>+8701</div> <div>SIZE</div> <div>A3</div>	
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R0V0 11.02.2021		Creation Date				CHECKED BY : O.TOPAL								CONT. 229			
Rev. Date		Description				APPROVED BY : O.YILMAZ								REV.			
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K21001K8701

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R3V12	30.04.2021	Last Revision Date		<div>SCALE</div> <div>3</div>	DESIGNED BY : VINEETHA				<div>Project No.</div> <div>K21001</div>		PAGE No.		229	<div></div>			
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL						CONT.		230	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	PM		-G01:T1/U	-Z1		PM	*	BK			
2	PM		-G01:T2/V	-Z1		PM	*	BK			
3	PM		-G01:T3/W	-Z1		PM	*	BK			
4	PM		-G01:L1	-Q01:2		PM	*	BK			
5	PM		-G01:L2	-Q01:4		PM	*	BK			
6	PM		-G01:L3	-Q01:6		PM	*	BK			
7		X	-X9:1	-X9:2	X		1,5	BK			
8	PM		-G01:XAI:6	-X8:3	X		W1**	BU			
9	PM		-G01:XAI:7	-X8:4	X		W1**	WH			
10	PM		-G01:XAI:4	-X8:6	X		W2**	BU			
11	PM		-G01:XAI:5	-X8:7	X		W2**	WH			
12	PM		-G01:XAO:3	-X8:9	X		W3**	BU			
13	PM		-G01:XAO:4	-X8:10	X		W3**	WH			
14	PM		-G01:XAO:1	-X8:12	X		W4**	BU			
15	PM		-G01:XAO:2	-X8:13	X		W4**	WH			
16	PM		-G01:XD24:4	-X8:1			1,5	RD	1		
17	PM		-G01:XDI:6	-X8:2			1,5	RD	2		
18	PM		-F11:1	-X22:1	X		1,5	BK	3		
19	PM		-F11:2	-G01:XRO2:22		PM	1,5	BK	4		
20	PM		-F11:3	-X22:3	X		1,5	BK	5		
21	PM		-F11:4	-K22:A2		PM	1,5	BK	6		
22	PM		-F12:1	-X23:1	X		1,5	RD	7		
23	PM		-F12:2	-G01:XPOW:1		PM	1,5	RD	8		
24	PM		-F12:3	-X23:3	X		1,5	WH	9		
25	PM		-F12:4	-G01:XPOW:2		PM	1,5	WH	10		
26	PM		-Q01:13	-X9:1	X		1,5	RD	11		
27	PM		-G01:XSTO:1	-X23:3	X		1,5	RD	12		
28	PM		-G01:XD24:2	-X9:2	X		1,5	RD	13		
29	PM		-G01:XSTO:3	-X23:4	X		1,5	RD	14		
30	PM		-G01:XD24:3	-RAR1:x1			1,5	RD	15		
31	PM		-G01:XD24:1	-Q01:14		PM	1,5	RD	16		
32	PM		-G01:XDI:6	-RAR1:x2			1,5	RD	17		
33	PM		-G01:XRO2:22	-G01:XRO3:32		PM	1,5	BK	18		
34	PM		-G01:XRO2:23	-K22:A1		PM	1,5	BK	19		
35	PM		-K22:A2	-K41:A2		PM	1,5	BK	20		
36	PM		-G01:XRO3:31	-K41:A1		PM	1,5	BK	21		
37	PM		-H11:x2	-K41:A2		PM	1,5	BK	22		
38	PM		-G01:XRO3:32	-K22:11		PM	1,5	BK	23		

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

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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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Module Wire Connection List		Drawing No. 4TRD021001C9000		+8701 PAGE No. 231		SIZE A3	
R3V12 06.08.2021 Last Revision Date ROVO 11.02.2021 Creation Date Rev. Date Description SIGN				SCALE 1		DESIGNED BY : VINEETHA CHECKED BY : O.TOPAL APPROVED BY : O.YILMAZ						Project No. K21001		CONT. 232		REV.			

[illegible]

TOTAL TERMINALS COUNT: 18 PCS
TERMINAL TYPE: Feed-through terminal block - PT 2,5

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R3V12 06.08.2021 Last Revision Date ROV0 11.02.2021 Creation Date Rev. Date Description SIGN				SCALE 1		DESIGNED BY : VINEETHA CHECKED BY : O.TOPAL APPROVED BY : O.YILMAZ						Project No. K21001		PAGE No. 232 CONT. 233		 REV.			

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TERMINAL DIAGRAM

X22

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
1	-F11	3 BK	1			/225.1: A
			2			/225.1: A
3	-F11	5 BK	3			/225.1: A
			4			/225.1: A

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

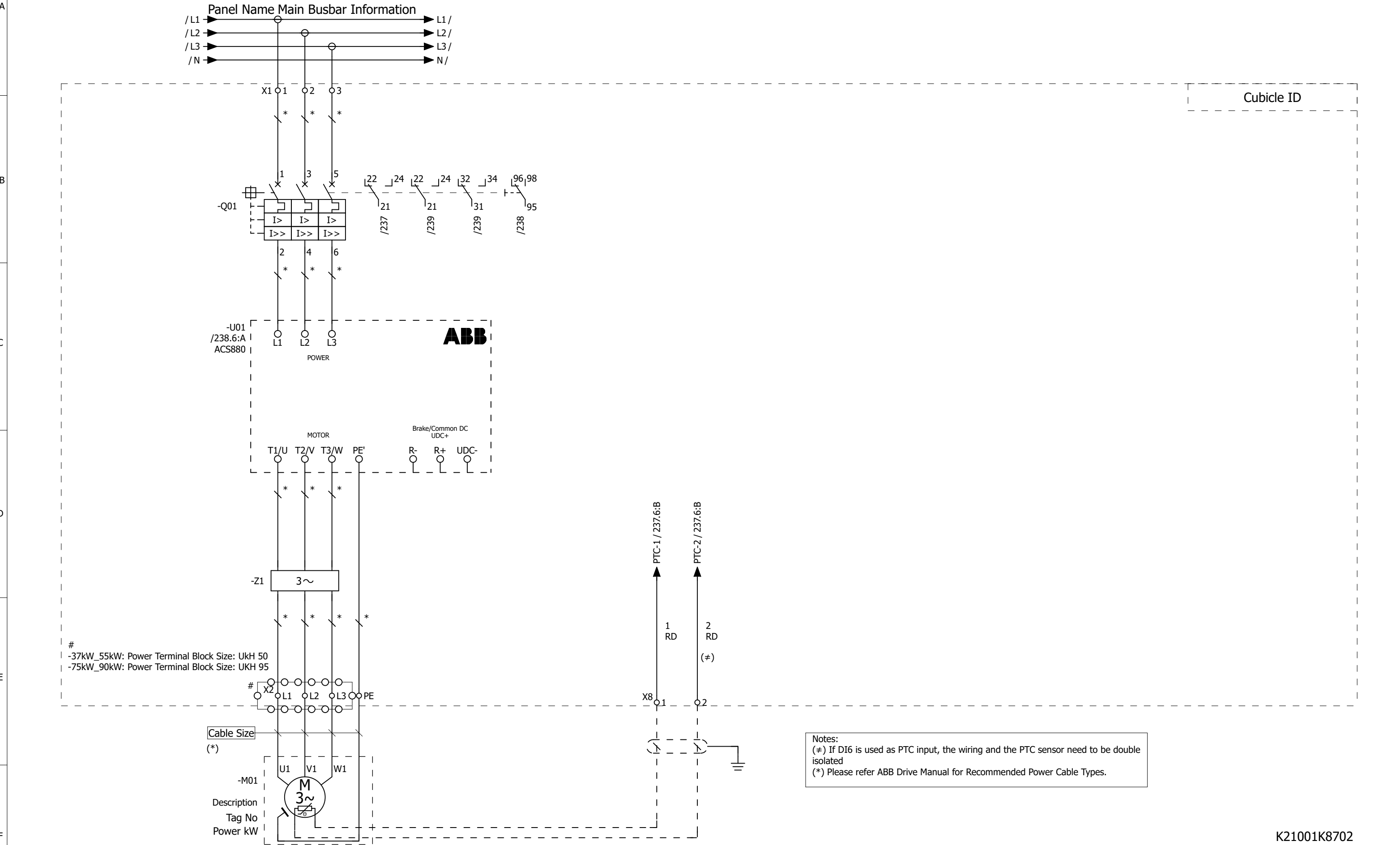
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R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA													PAGE No. 234													
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Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ																										
1				2				3				4								5				6				7			




-X23

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

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R3V12 06.08.2021 Last Revision Date ROV0 11.02.2021 Creation Date Rev. Date Description SIGN				SCALE 1 DESIGNED BY : VINEETHA CHECKED BY : O.TOPAL APPROVED BY : O.YILMAZ						Project No. K21001		PAGE No. 235 CONT. +8702/236		 REV.			

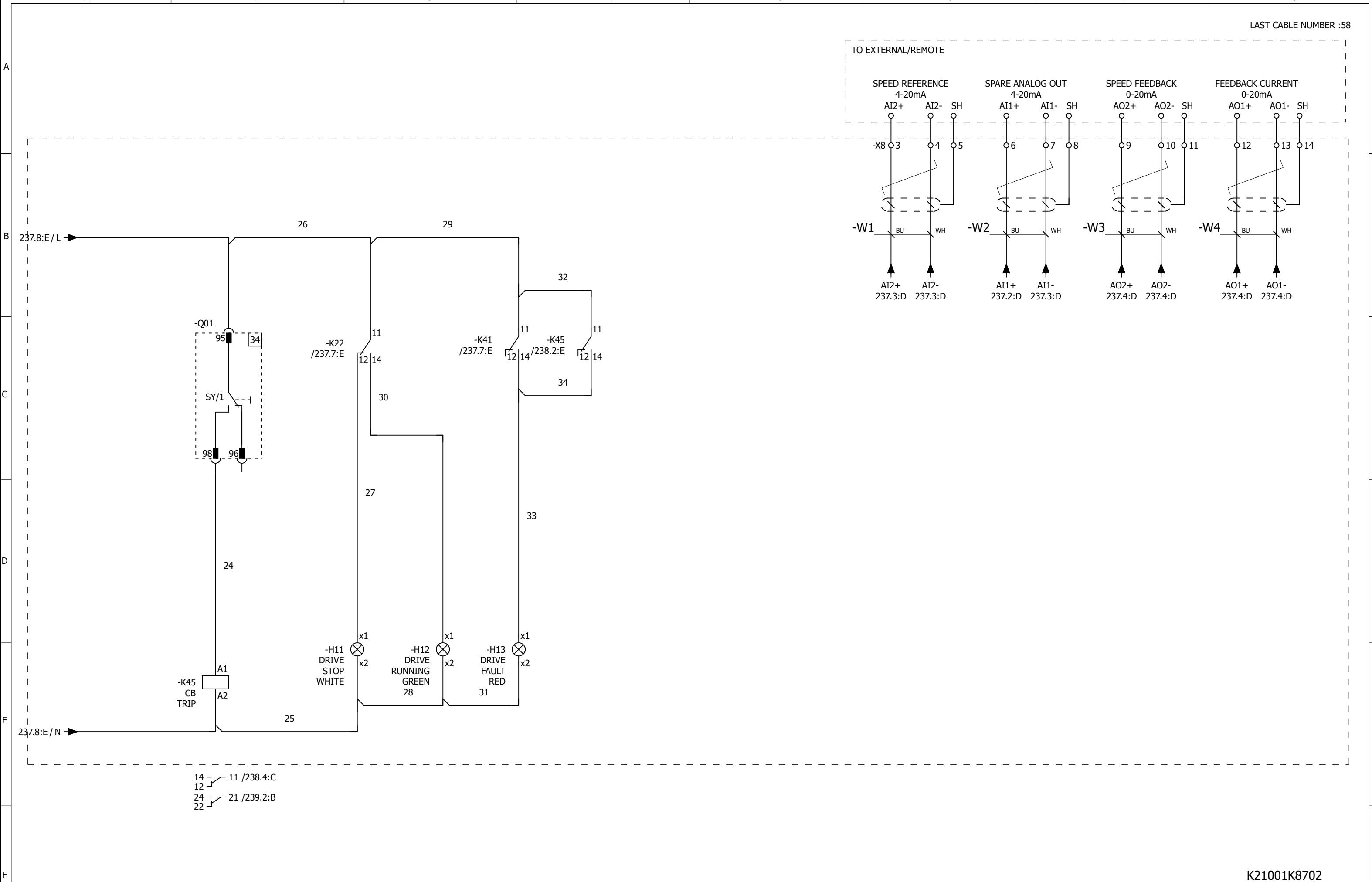
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Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ												

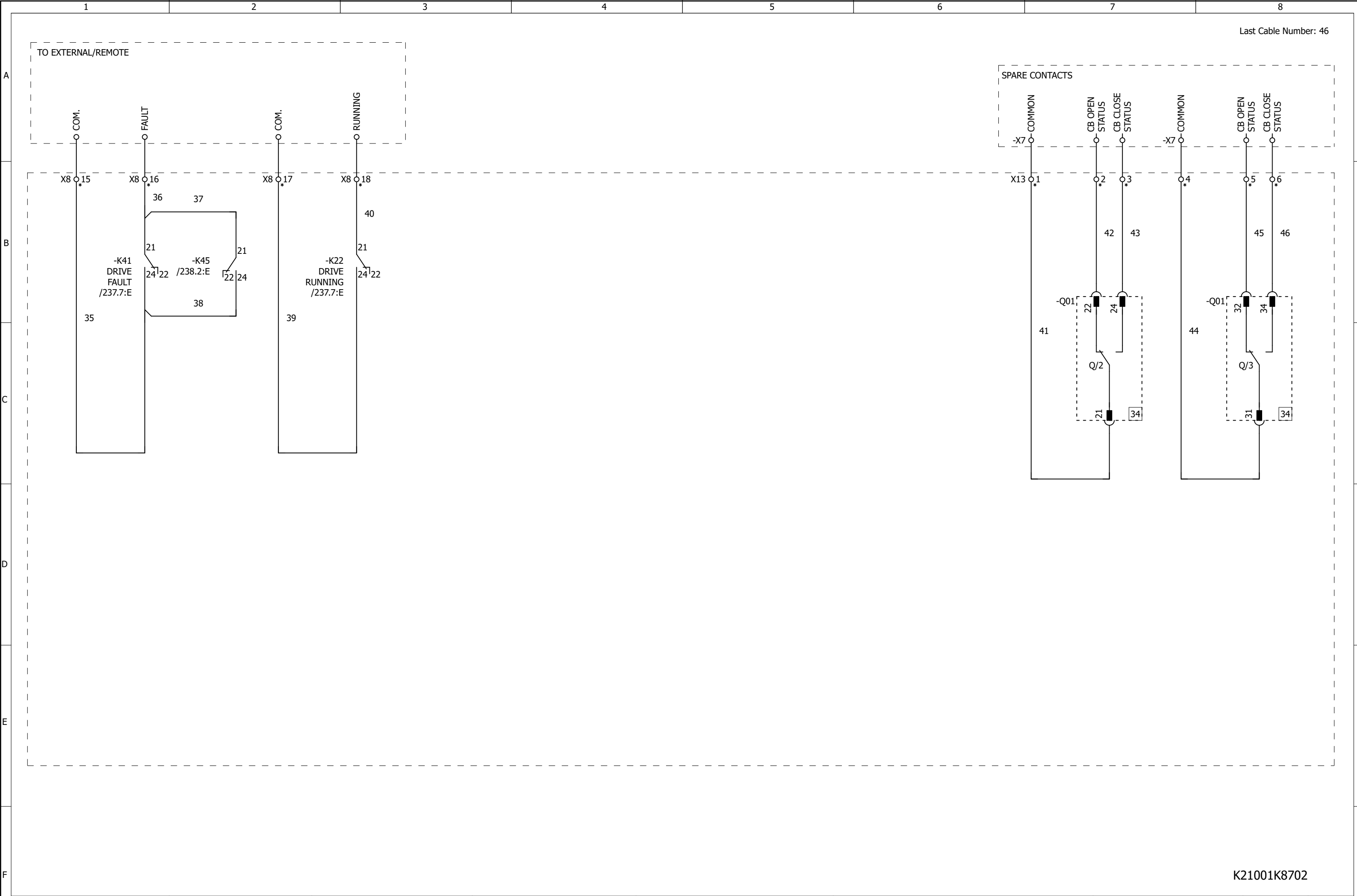
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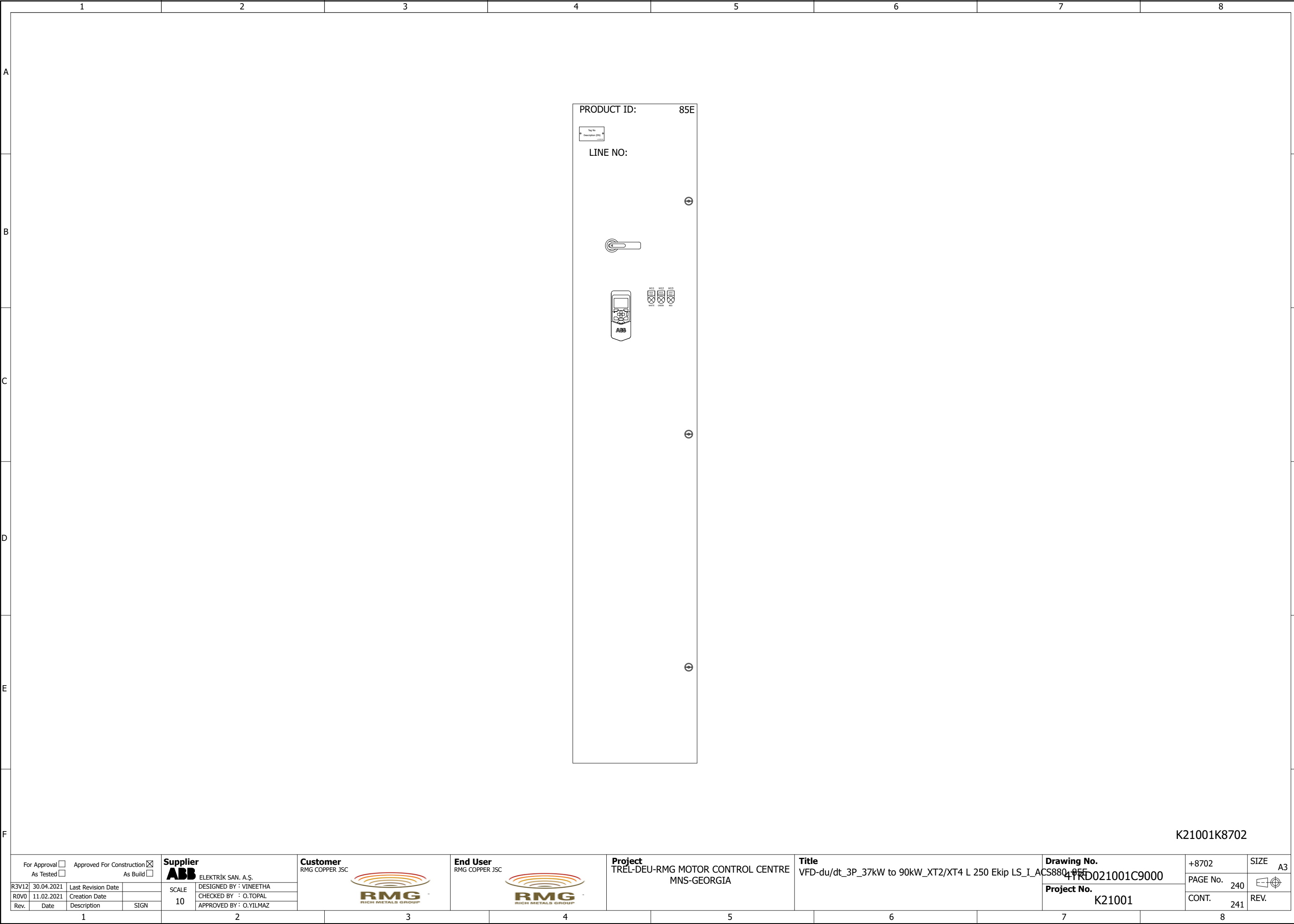
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Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ																
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
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R3V12		30.04.2021		Last Revision Date				SCALE		DESIGNED BY : VINEETHA		<div>Project No.</div> <div>K21001</div>		PAGE No.		239	<div><div></div><div></div></div>														
R0V0		11.02.2021		Creation Date				1		CHECKED BY : O.TOPAL				CONT.		240	REV.														
Rev.		Date		Description		SIGN				APPROVED BY : O.YILMAZ																					
1				2				3				4				5				6				7				8			

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R3V12	30.04.2021	Last Revision Date		SCALE 10	DESIGNED BY : VINEETHA							Project No. K21001		PAGE No.	240			
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL									CONT.	241			
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ										REV.			
1				2				3		4		5		6		7		8

K21001K8702

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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		-U01:T1/U	-Z1		LV	*	BK			
2	LV		-U01:T2/V	-Z1		LV	*	BK			
3	LV		-U01:T3/W	-Z1		LV	*	BK			
4	LV		-Q01:2	-U01:L1		LV	*	BK			
5	LV		-Q01:4	-U01:L2		LV	*	BK			
6	LV		-Q01:6	-U01:L3		LV	*	BK			
7		X	-X9:1	-X9:2	X		1,5	BK			
8	LV		-G01:XAI:6	-X8:3	X		W1**	BU			
9	LV		-G01:XAI:7	-X8:4	X		W1**	WH			
10	LV		-G01:XAI:4	-X8:6	X		W2**	BU			
11	LV		-G01:XAI:5	-X8:7	X		W2**	WH			
12	LV		-G01:XAO:3	-X8:9	X		W3**	BU			
13	LV		-G01:XAO:4	-X8:10	X		W3**	WH			
14	LV		-G01:XAO:1	-X8:12	X		W4**	BU			
15	LV		-G01:XAO:2	-X8:13	X		W4**	WH			
16	PM		-G01:XD24:4	-X8:1			1,5	RD	1		
17	PM		-G01:XDI:6	-X8:2			1,5	RD	2		
18	LV		-F11:1	-X22:1	X		1,5	BK	3		
19	LV		-F11:2	-G01:XRO2:22		LV	1,5	BK	4		
20	LV		-F11:3	-X22:3	X		1,5	BK	5		
21	LV		-F11:4	-K22:A2		LV	1,5	BK	6		
22	LV		-F12:1	-X23:1	X		1,5	RD	7		
23	LV		-F12:2	-G01:XPOW:1		LV	1,5	RD	8		
24	LV		-F12:3	-X23:3	X		1,5	WH	9		
25	LV		-F12:4	-G01:XPOW:2		LV	1,5	WH	10		
26	CB		-Q01:14	-X9:1	X		1,5	RD	11		
27	PM		-G01:XSTO:1	-X23:3	X		1,5	RD	12		
28	PM		-G01:XD24:2	-X9:2	X		1,5	RD	13		
29	PM		-G01:XSTO:3	-X23:4	X		1,5	RD	14		
30	PM		-G01:XD24:3	-RAR1:x1			1,5	RD	15		
31	PM		-G01:XD24:1	-Q01:11		CB	1,5	RD	16		
32	PM		-G01:XDI:6	-RAR1:x2			1,5	RD	17		
33	LV		-G01:XRO2:22	-G01:XRO3:32		LV	1,5	BK	18		
34	LV		-G01:XRO2:23	-K22:A1		LV	1,5	BK	19		
35	LV		-K22:A2	-K41:A2		LV	1,5	BK	20		
36	LV		-G01:XRO3:31	-K41:A1		LV	1,5	BK	21		
37	LV		-K41:A2	-K45:A2		LV	1,5	BK	22		
38	LV		-G01:XRO3:32	-Q01:95		WD	1,5	BK	23		

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

<div>For Approval <input type="checkbox"/> As Tested <input type="checkbox"/></div> <div>Last Revision Date <input type="text"/></div> <div>Rev. <input type="text"/> Date <input type="text"/></div>				<div>Approved For Construction <input checked="" type="checkbox"/> As Build <input type="checkbox"/></div> <div>Creation Date <input type="text"/></div> <div>Description <input type="text"/></div> <div>SIGN <input type="text"/></div>		<div>Supplier</div> <div>ABB ELEKTRİK SAN. A.Ş.</div> <div>SCALE 1</div> <div>DESIGNED BY : VINEETHA</div> <div>CHECKED BY : O.TOPAL</div> <div>APPROVED BY : O.YILMAZ</div>		<div>Customer</div> <div>RMG COPPER JSC</div> <div></div> <div>RMG RICH METALS GROUP</div>		<div>End User</div> <div>RMG COPPER JSC</div> <div></div> <div>RMG RICH METALS GROUP</div>		<div>Project</div> <div>TREL-DEU-RMG MOTOR CONTROL CENTRE</div> <div>MNS-GEORGIA</div>		<div>Title</div> <div>Module Wire Connection List</div>		<div>Drawing No.</div> <div>4TRD021001C9000</div> <div>Project No.</div> <div>K21001</div>		<div>+8702</div> <div>PAGE No. 241</div> <div>CONT. 242</div>	<div>SIZE A3</div> <div></div> <div>REV.</div>
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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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Module Wire Connection List		Drawing No. 4TRD021001C9000		+8702		SIZE A3			
R3V12 06.08.2021 Last Revision Date R0V0 11.02.2021 Creation Date Rev. Date Description SIGN				SCALE 1		DESIGNED BY : VINEETHA CHECKED BY : O.TOPAL APPROVED BY : O.YILMAZ						Project No. K21001		PAGE No. 242				CONT. 243		REV.	

8X

TOTAL TERMINALS COUNT: 18 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  ELEKTRİK SAN. A.Ş.		Customer RMG COPPER JSC 		End User RMG COPPER JSC 		Project TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. +8702 <div> SIZE A3 </div>	
Project No. K21001				SCALE 1		DESIGNED BY : VINEETHA CHECKED BY : O.TOPAL APPROVED BY : O.YILMAZ						PAGE No. 243 <div>  </div>		CONT. 244 <div> REV. </div>	

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A

B

C

D

E




F

TERMINAL DIAGRAM

-X9

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
14	-Q01	11 RD	1			/237.3:A
XD24:2	-G01	13 RD	2			/237.4:A

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

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R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA								Project No. K21001	PAGE No.	244		
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL									CONT.	245		REV.
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ												

A

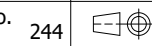
B

C

D

E

F






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TERMINAL DIAGRAM

X22

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
1	-F11	3 BK	1			/237.1:A
			2			/237.1:A
3	-F11	5 BK	3			/237.1:A
			4			/237.1: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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No.		+8702	SIZE A3										
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA												Project No.	246													
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL															REV.											
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ														CONT.	247											
1				2				3				4				5				6				7				8			

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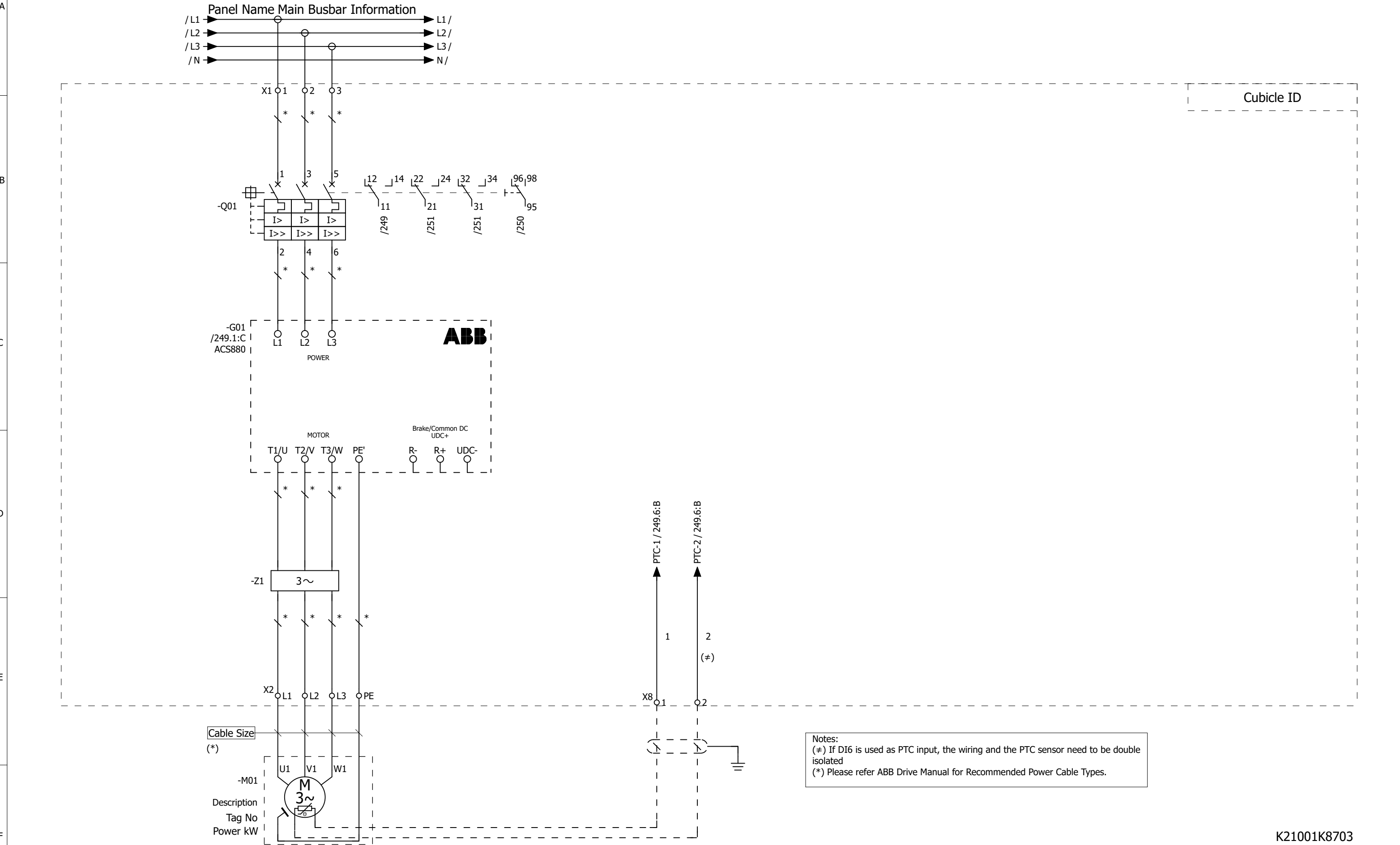
TERMINAL DIAGRAM
X23




DEVICE PIN		DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR		DEVICE DESIGNATION	DEVICE PIN	PAGE
1		-F12	7 RD	•	1	•		/237.2:A
				•	2	•		/237.2:A
XSTO:1		-G01	12 RD	•	3	•		/237.2:A
3		-F12	9 WH	•	3	•		/237.2:A
XSTO:3		-G01	14 RD	•	4	•		/237.3:A
				•	4	•		/237.2:A

TOTAL TERMINALS COUNT: 6 PCS
TERMINAL TYPE: Feed-through terminal block - PT 4

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R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA																
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL																
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ																

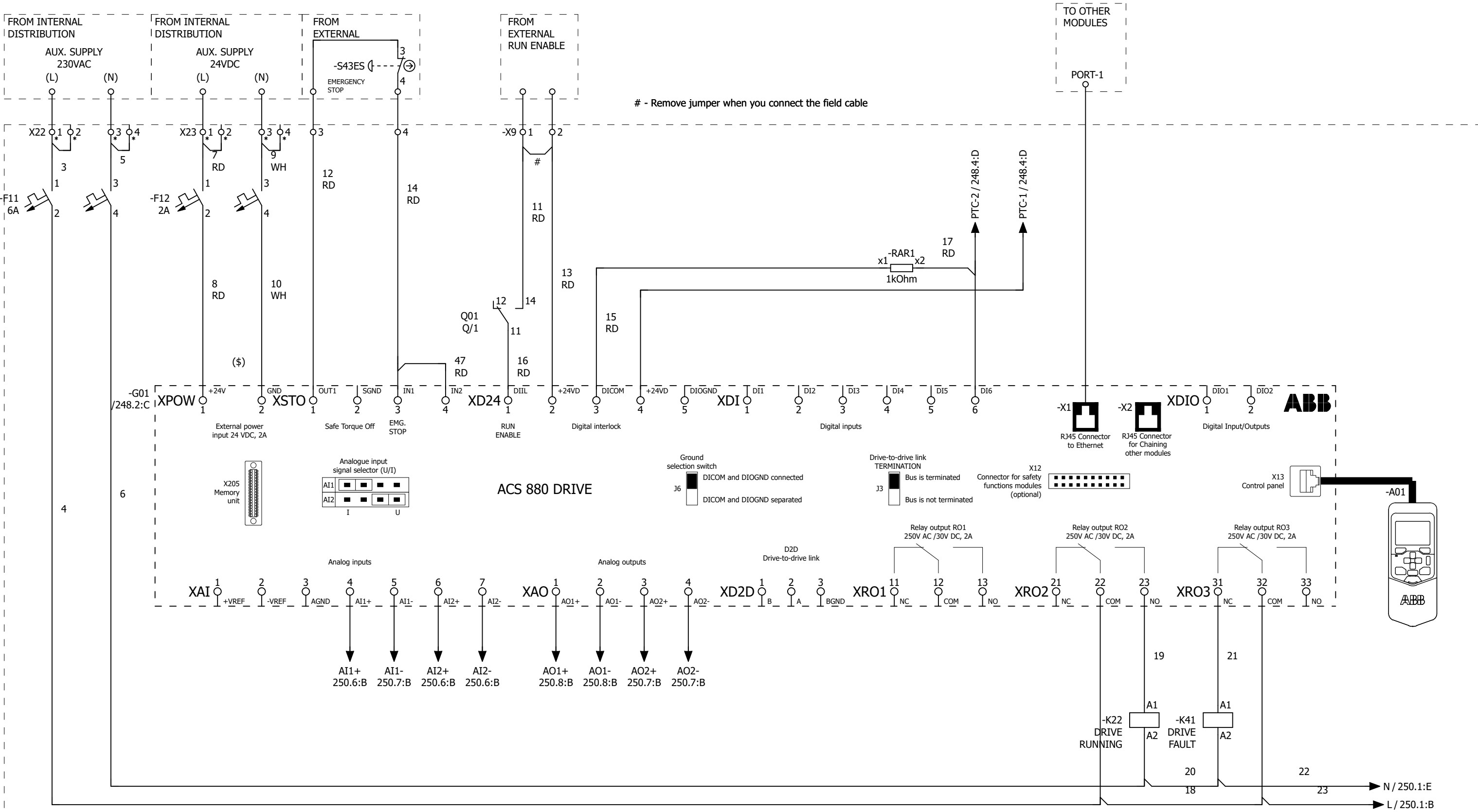
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R3V12	08.07.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA	<div></div>	<div></div>						<div>Project No.</div> <div>K21001</div>	<div>PAGE No.</div> <div>248</div>		<div></div> <div>REV.</div>	
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL									<div>CONT.</div> <div>249</div>			
Rev.	Date	Description	SIGN		APPROVED BY: O.YILMAZ												

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Note :
(\$)External +24 V (2 A) power supply for the control unit can be connected to terminal block XPOW. Using an external supply is recommended if
• the control board needs to be kept operational during input power breaks, for example, due to continuous fieldbus communication
• immediate restart is needed after power breaks (that is, no control board power up delay is allowed).

14 11 /250.3:C
12 11 /250.3:C
24 21 /251.3:B
22 21 /251.1:B

K21001K8703

For Approval <input type="checkbox"/> As Tested		Approved For Construction <input checked="" type="checkbox"/> As Build	
R3V12	08.07.2021	Last Revision Date	
R0V0	11.02.2021	Creation Date	
Rev.	Date	Description	SIGN

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

Customer RMG COPPER JSC	
	

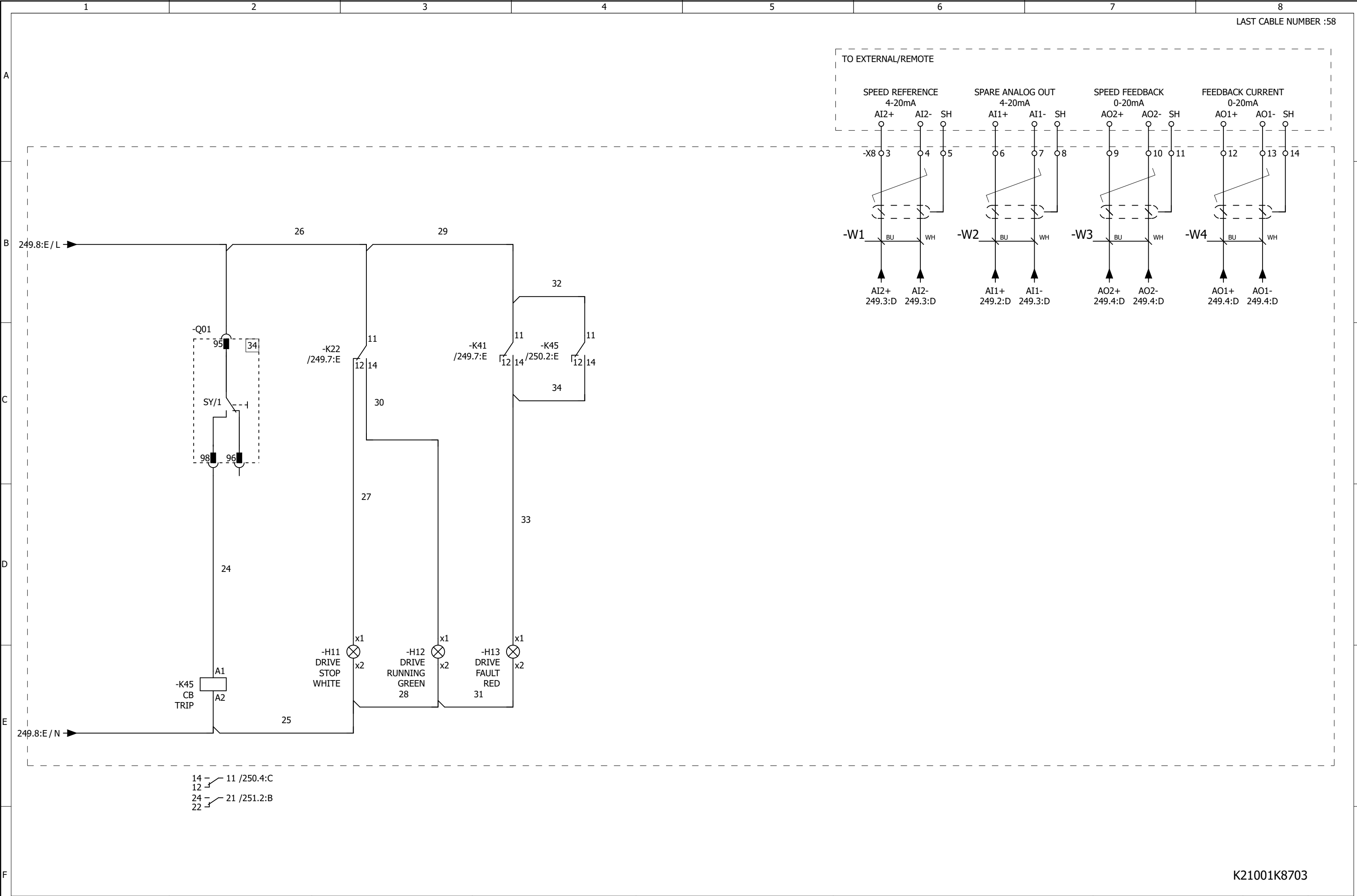
End User RMG COPPER JSC	
	




Project TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA	
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Title VFD-du/dt_3P_200kW_T5 L 630 PR221DS-LS_I_ACS880_85E	
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Drawing No. 4TRD021001C9000		+8703	SIZE A3
Project No. K21001		PAGE No. 249	REV. 250

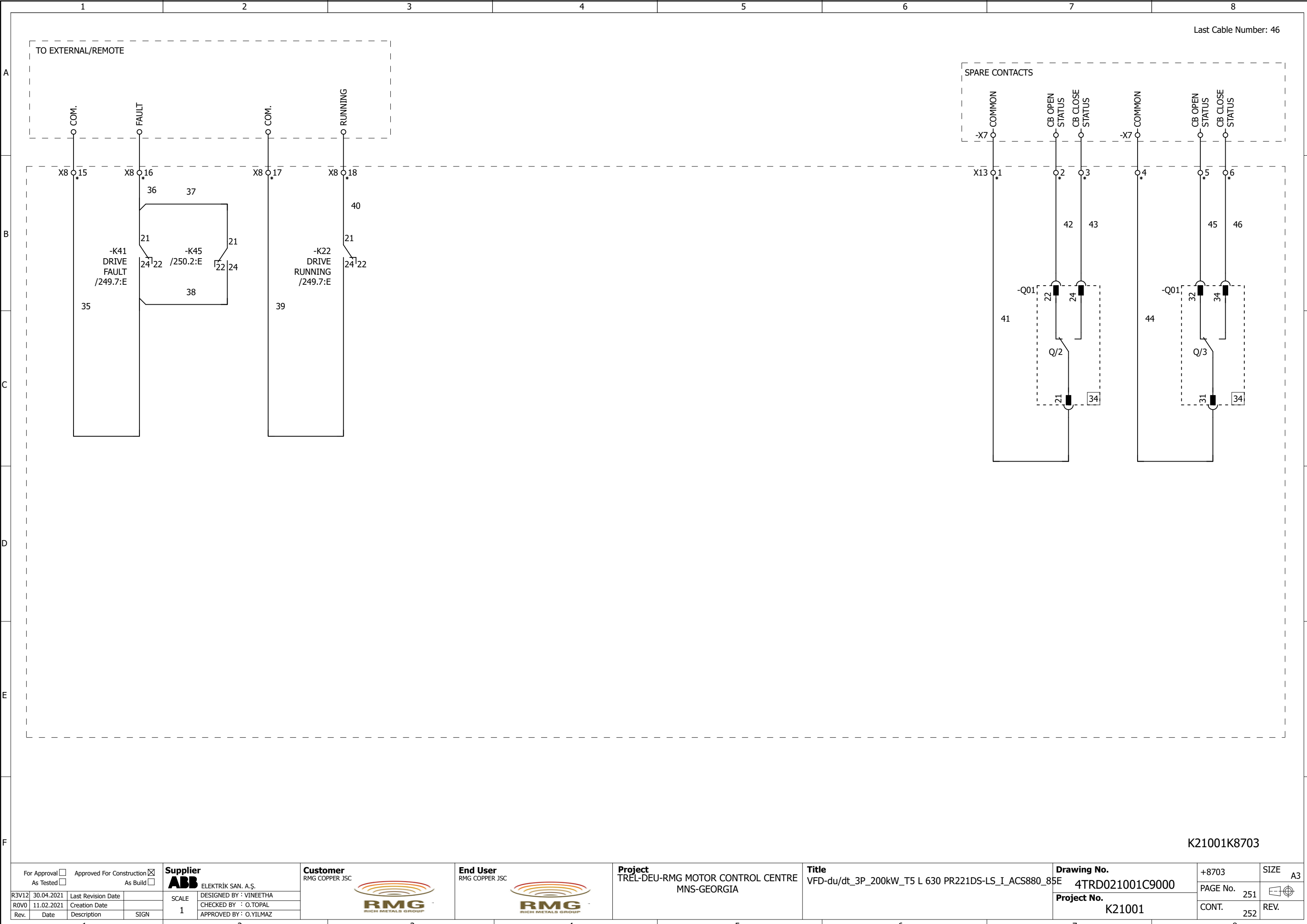
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


<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>Customer</div> <div>RMG COPPER JSC</div>		<div>End User</div> <div>RMG COPPER JSC</div>		<div>Project</div> <div>TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA</div>		<div>Title</div> <div>VFD-du/dt_3P_200kW_T5 L 630 PR221DS-LS_I_ACS880_85E</div>		<div>Drawing No.</div> <div>4TRD021001C9000</div>		<div>+8703</div> <div>SIZE</div> <div>A3</div>	
R3V12	08.07.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA							<div>Project No.</div> <div>K21001</div>		PAGE No. 250			
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL									CONT. 251			
Rev.	Date	Description	SIGN		APPROVED BY: O.YILMAZ												
1				2		3		4		5		6		7		8	

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R3V12	30.04.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA							Project No. K21001		PAGE No.		251		REV.
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL									CONT.		252		
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ													
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
1	LV		-G01:T1/U	-Z1		LV	*	BK			
2	LV		-G01:T2/V	-Z1		LV	*	BK			
3	LV		-G01:T3/W	-Z1		LV	*	BK			
4	LV		-G01:L1	-Q01:2		LV	*	BK			
5	LV		-G01:L2	-Q01:4		LV	*	BK			
6	LV		-G01:L3	-Q01:6		LV	*	BK			
7		X	-X9:1	-X9:2	X		1,5	BK			
8	LV		-G01:XAI:6	-X8:3	X		W1**	BU			
9	LV		-G01:XAI:7	-X8:4	X		W1**	WH			
10	LV		-G01:XAI:4	-X8:6	X		W2**	BU			
11	LV		-G01:XAI:5	-X8:7	X		W2**	WH			
12	LV		-G01:XAO:3	-X8:9	X		W3**	BU			
13	LV		-G01:XAO:4	-X8:10	X		W3**	WH			
14	LV		-G01:XAO:1	-X8:12	X		W4**	BU			
15	LV		-G01:XAO:2	-X8:13	X		W4**	WH			
16	PM		-G01:XD24:4	-X8:1			1,5	BK	1		
17	PM		-G01:XDI:6	-X8:2			1,5	BK	2		
18	LV		-F11:1	-X22:1	X		1,5	BK	3		
19	LV		-F11:2	-G01:XRO2:22		LV	1,5	BK	4		
20	LV		-F11:3	-X22:3	X		1,5	BK	5		
21	LV		-F11:4	-K22:A2		LV	1,5	BK	6		
22	LV		-F12:1	-X23:1	X		1,5	RD	7		
23	LV		-F12:2	-G01:XPOW:1		LV	1,5	RD	8		
24	LV		-F12:3	-X23:3	X		1,5	WH	9		
25	LV		-F12:4	-G01:XPOW:2		LV	1,5	WH	10		
26	WD		-Q01:14	-X9:1	X		1,5	RD	11		
27	PM		-G01:XSTO:1	-X23:3	X		1,5	RD	12		
28	PM		-G01:XD24:2	-X9:2	X		1,5	RD	13		
29	PM		-G01:XSTO:3	-X23:4	X		1,5	RD	14		
30	PM		-G01:XD24:3	-RAR1:x1			1,5	RD	15		
31	PM		-G01:XD24:1	-Q01:11		WD	1,5	RD	16		
32	PM		-G01:XDI:6	-RAR1:x2			1,5	RD	17		
33	LV		-G01:XRO2:22	-G01:XRO3:32		LV	1,5	BK	18		
34	LV		-G01:XRO2:23	-K22:A1		LV	1,5	BK	19		
35	LV		-K22:A2	-K41:A2		LV	1,5	BK	20		
36	LV		-G01:XRO3:31	-K41:A1		LV	1,5	BK	21		
37	LV		-K41:A2	-K45:A2		LV	1,5	BK	22		
38	LV		-G01:XRO3:32	-Q01:95		WD	1,5	BK	23		

* 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.TOPAL</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>TREL-DEU-RMG MOTOR CONTROL CENTRE</div> <div>MNS-GEORGIA</div>		<div>Title</div> <div>Module Wire Connection List</div>		<div>Drawing No.</div> <div>4TRD021001C9000</div>		<div>+8703</div>		<div>SIZE</div> <div>A3</div>	
<div>R3V12 06.08.2021</div> <div>Last Revision Date</div>				<div>SCALE</div> <div>1</div>								<div>Project No.</div> <div>K21001</div>		<div>PAGE No.</div> <div>253</div>		<div>REV.</div> <div>254</div>			
<div>Rev.</div> <div>Date</div>				<div>Description</div> <div>SIGN</div>															

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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Module Wire Connection List		Drawing No. 4TRD021001C9000		+8703 SIZE A3	
R3V12 06.08.2021 Last Revision Date R0V0 11.02.2021 Creation Date Rev. Date Description SIGN				SCALE 1		DESIGNED BY : VINEETHA CHECKED BY : O.TOPAL APPROVED BY : O.YILMAZ						Project No. K21001		PAGE No. 254 CONT. 255		 REV.	

$\infty \times$

TOTAL TERMINALS COUNT: 18 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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8703 SIZE A3	
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA			Project No. K21001	PAGE No. 255	CONT. 256	REV.										
ROV0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL																
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ																

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TERMINAL DIAGRAM
X13

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	1	2	3	4	5	6	7	8
11	-Q01	41 BK	1	1	/251.7:B						
12	-Q01	42 BK	2	1	/251.7:B						
14	-Q01	43 BK	3	1	/251.7:B						
11	-Q01	44 BK	4	1	/251.7:B						
12	-Q01	45 BK	5	1	/251.8:B						
14	-Q01	46 BK	6	1	/251.8:B						

TOTAL TERMINALS COUNT: 6 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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8703		SIZE A3									
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA													PAGE No. 257		REV.											
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL														CONT. 258												
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ																										

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TERMINAL DIAGRAM

X22

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
1	-F11	3 BK	1			/249.1: A
			2			/249.1: A
3	-F11	5 BK	3			/249.1: A
			4			/249.1: A

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

<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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8703	SIZE A3	
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA										Project No. K21001	PAGE No. 258	CONT. 259	REV. 
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL													
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ													
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TERMINAL DIAGRAM

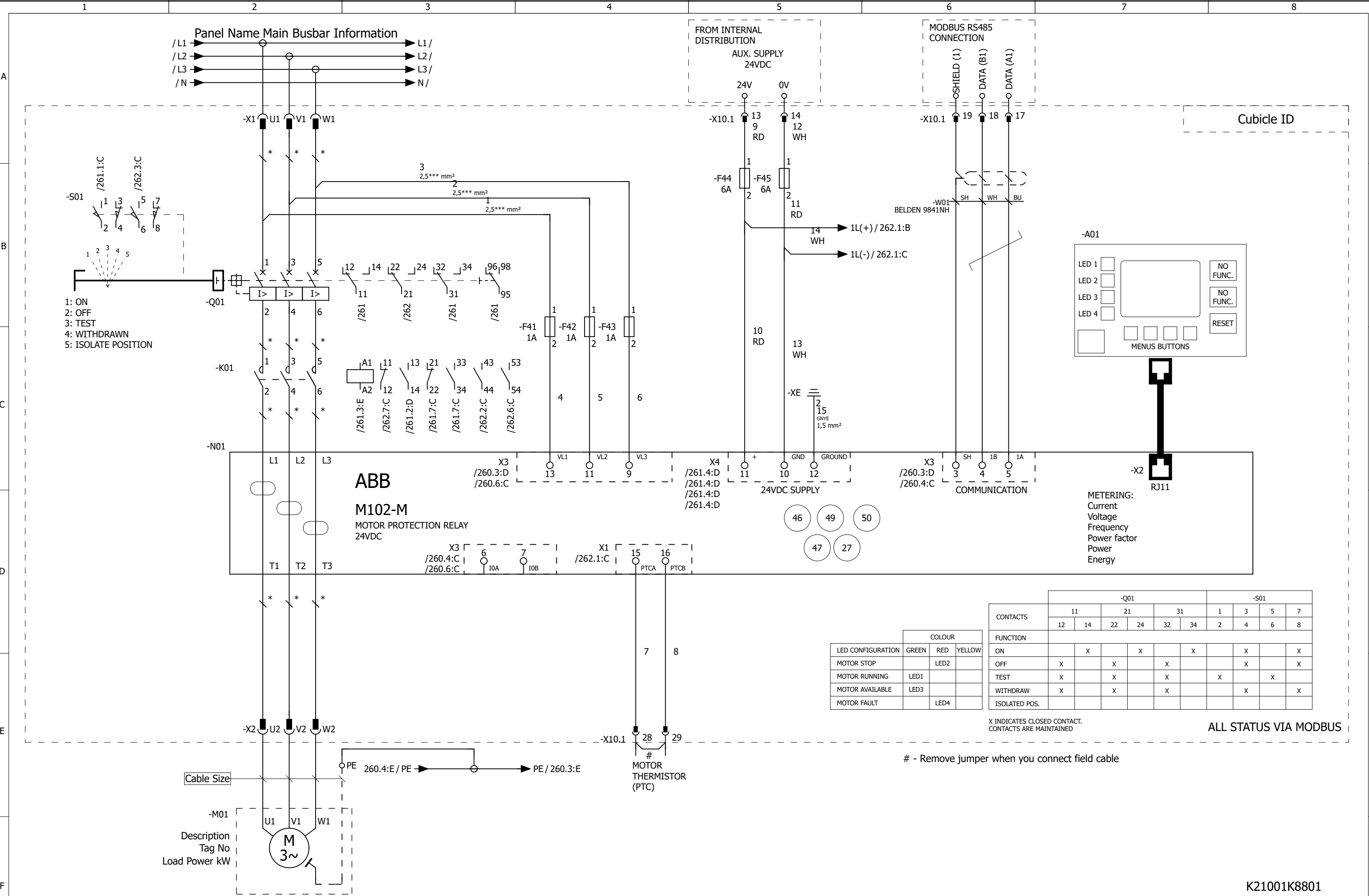
X23

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</
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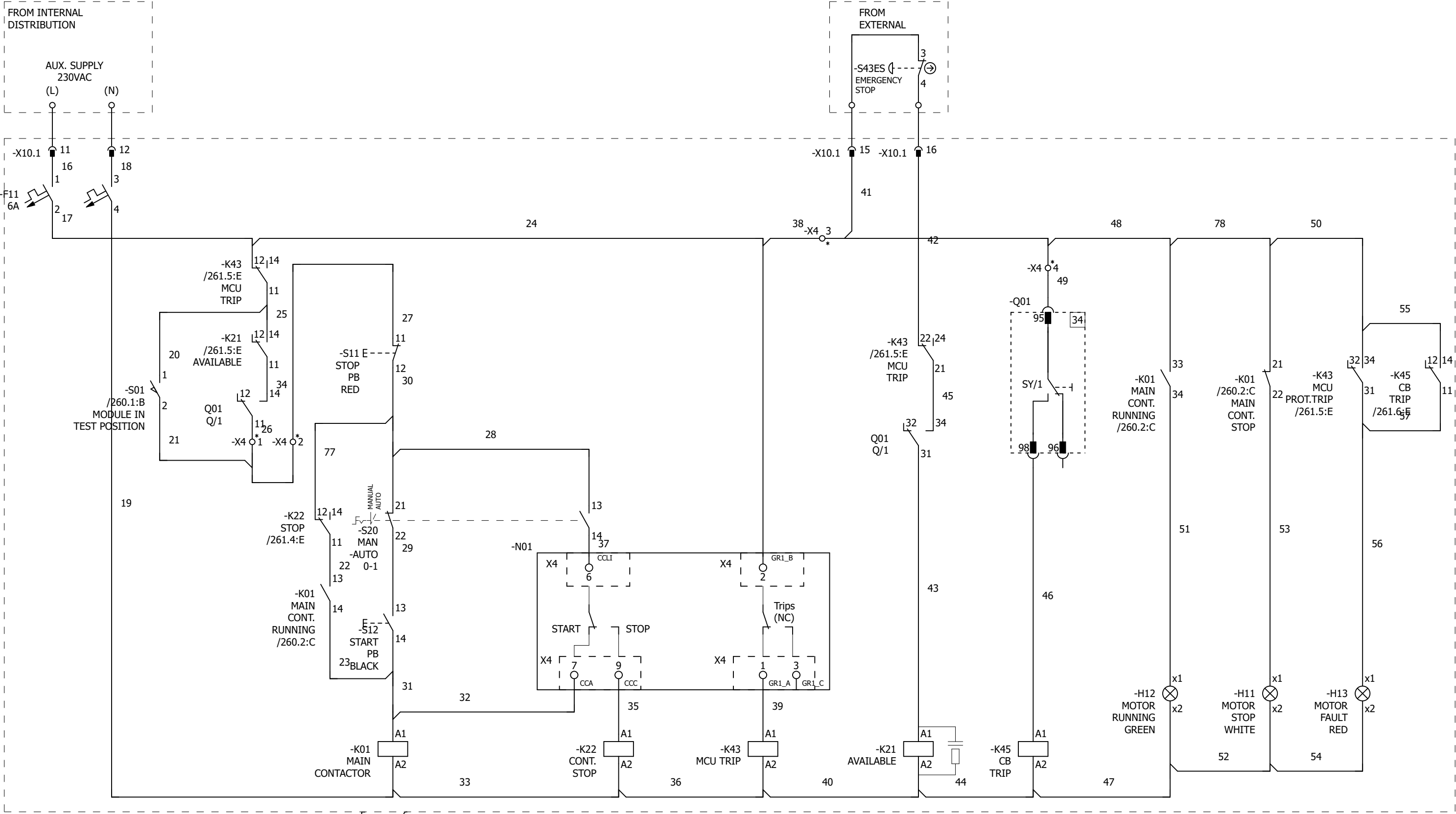
TOTAL TERMINALS COUNT: 6 PCS
TERMINAL TYPE: Feed-through terminal block - PT 4

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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8703 SIZE A3	
R3V12 06.08.2021 Last Revision Date ROV0 11.02.2021 Creation Date Rev. Date Description SIGN				SCALE 1 DESIGNED BY : VINEETHA CHECKED BY : O.TOPAL APPROVED BY : O.YILMAZ						Project No. K21001		PAGE No. 259 CONT. +8801/260		 REV.			

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5 6
3 4
1 2 /260.2:C
11 12 /262.7:C
13 14 /261.2:D
21 22 /261.7:C
33 34 /261.7:C
43 44 /262.2:C
53 54 /262.6:C

14 11 /261.2:D
12 12

14 11 /261.2:B
12 12 /261.5:C
24 21 /261.8:C
34 31 /261.8:C
32 41 /262.5:C
44 42

14 11 /261.2:C
12 12 /262.2:C
24 21 /262.6:C
22 22

14 11 /261.8:C
12 12 /262.8:C
24 21 /262.6:C
22 22

NOTE:
(#) JUMPERS WILL BE REMOVED AT SITE WHEN REMOTE SIGNALS ARE CONNECTED.
(*) ONLY IF REQUIRED.

K21001K8801

For Approval	<input type="checkbox"/>	Approved For Construction	<input checked="" type="checkbox"/>
As Tested	<input type="checkbox"/>	As Build	<input type="checkbox"/>
R3V12	22.06.2021	Last Revision Date	
R0V0	11.02.2021	Creation Date	
Rev.	Date	Description	SIGN

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

Customer	RMG COPPER JSC
RMG	

End User	RMG COPPER JSC
RMG	

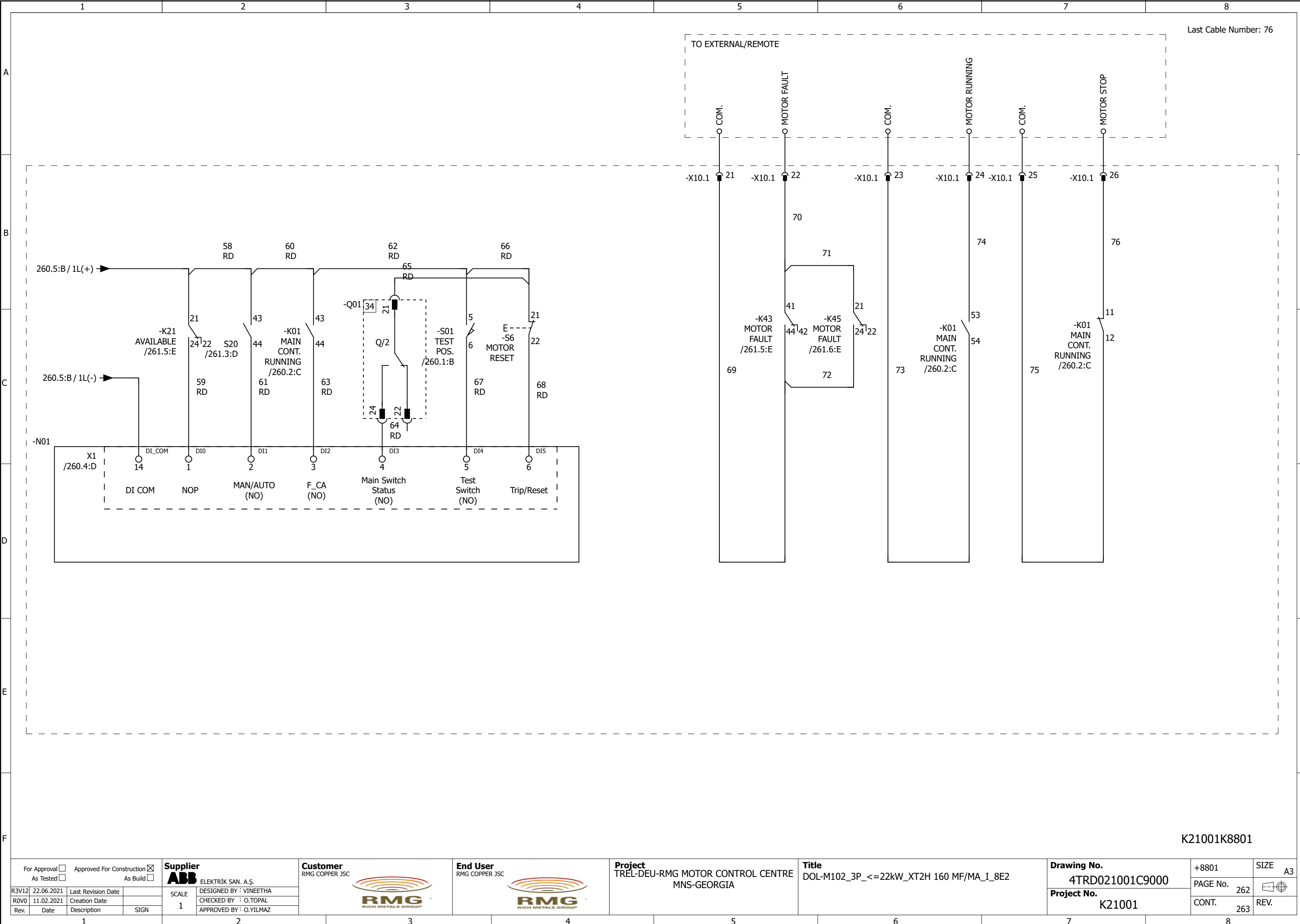
Project
TREL-DEU-RMG MOTOR CONTROL CENTRE
MNS-GEORGIA




Title
DOL-M102_3P_<=22kW_XT2H 160 MF/MA_I_8E2

Drawing No.
4TRD021001C9000
Project No.
K21001

+8801	SIZE	A3
PAGE No. 261	REV.	
CONT. 262		

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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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title DOL-M102_3P_<=22kW_XT2H 160 MF/MA_I_8E2		Drawing No. 4TRD021001C9000		+8801	SIZE A3		
R3V12	22.06.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA															PAGE No.	262		
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL																CONT.	263	REV.
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ																		
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R3V12		30.04.2021		Last Revision Date				SCALE		1		DESIGNED BY : VINEETHA				PAGE No.		263		<div><div></div><div></div></div>											
ROV0		11.02.2021		Creation Date								CHECKED BY : O.TOPAL						CONT.		264											
Rev.		Date		Description		SIGN						APPROVED BY : O.YILMAZ						REV.													
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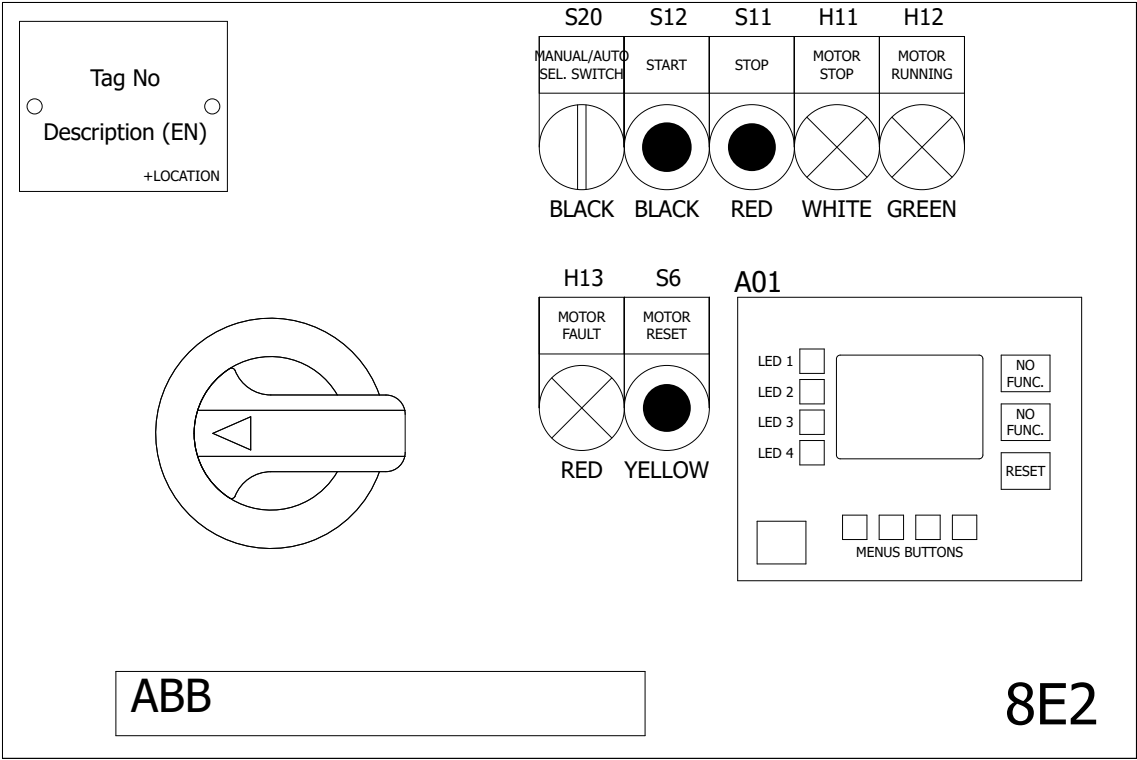
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
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<div><div><div>For Approval <input type="checkbox"/></div><div>As Tested <input type="checkbox"/></div></div><div><div>Approved For Construction <input checked="" type="checkbox"/></div><div>As Build <input type="checkbox"/></div></div></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>TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA</div>		<div>Title</div> <div>DOL-M102_3P_<=22kW_XT2H 160 MF/MA_I_8E2</div>		<div>Drawing No.</div> <div>4TRD021001C9000</div>		+8801	SIZE	A3
R3V12	30.04.2021	Last Revision Date		SCALE	DESIGNED BY : VINEETHA							Project No.	PAGE No.		264		REV.	
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL								CONT.		265			
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ							K21001						
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K21001K8801

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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	WD		-Q01:1	-X1:U1	X		*	BK			
2	WD		-K01:1	-Q01:2		WD	*	BK			
3	WD		-Q01:3	-X1:V1	X		*	BK			
4	WD		-K01:3	-Q01:4		WD	*	BK			
5	WD		-Q01:5	-X1:W1	X		*	BK			
6	WD		-K01:5	-Q01:6		WD	*	BK			
7			-X10.1:28	-X10.1:29			1,5	BK			
8	WD		-N01-X3:3	-X10.1:19	X		-W01**	SH			#4
9	WD		-N01-X3:4	-X10.1:18	X		-W01**	WH			#4
10	WD		-N01-X3:5	-X10.1:17	X		-W01**	BU			#4
11	WD		-F41:1	-Q01:1		WD	2,5***	BK	1		
12	WD		-F42:1	-Q01:3		WD	2,5***	BK	2		
13	WD		-F43:1	-Q01:5		WD	2,5***	BK	3		
14	WD		-F41:2	-N01-X3:13		WD	1,5	BK	4		
15	WD		-F42:2	-N01-X3:11		WD	1,5	BK	5		
16	WD		-F43:2	-N01-X3:9		WD	1,5	BK	6		
17	WD		-N01-X1:15	-X10.1:28	X		1,5	BK	7		
18	WD		-N01-X1:16	-X10.1:29	X		1,5	BK	8		
19	WD		-F44:1	-X10.1:13	X		1,5	RD	9		
20	WD		-F44:2	-N01-X4:11		WD	1,5	RD	10		
21	WD		-F44:2	-K21:21		WD	1,5	RD	11		
22	WD		-F45:1	-X10.1:14	X		1,5	WH	12		
23	WD		-F45:2	-N01-X4:10		WD	1,5	WH	13		
24	WD		-F45:2	-N01-X1:14		WD	1,5	WH	14		
25	WD		-N01-X4:12	-XE:2		WD	1,5	GNYE	15		
26	WD		-F11:1	-X10.1:11	X		1,5	BK	16		
27	WD		-F11:2	-K43:12		WD	1,5	BK	17		
28	WD		-F11:3	-X10.1:12	X		1,5	BK	18		
29	WD		-F11:4	-K01:A2		WD	1,5	BK	19		
30	WD		-K43:11	-S01:1		WD	1,5	BK	20		
31	WD		-S01:2	-X4:2			1,5	BK	21		
32	WD		-K01:13	-K22:11		WD	1,5	BK	22		
33	WD		-K01:14	-S12:14		WD	1,5	BK	23		
34	WD		-K43:12	-N01-X4:2		WD	1,5	BK	24		
35	WD		-K21:14	-K43:11		WD	1,5	BK	25		
36	WD		-Q01:11	-X4:1	X		1,5	BK	26		
37	WD		-S11:11	-X4:2	X		1,5	BK	27		
38	WD		-S20:13	-S20:21		WD	1,5	BK	28		

* 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.TOPAL</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>TREL-DEU-RMG MOTOR CONTROL CENTRE</div> <div>MNS-GEORGIA</div>		<div>Title</div> <div>Module Wire Connection List</div>		<div>Drawing No.</div> <div>4TRD021001C9000</div>		<div>+8801</div>		<div>SIZE</div> <div>A3</div>	
<div>R3V12 06.08.2021 Last Revision Date</div> <div>Rev. Date Creation Date Description SIGN</div>				<div>SCALE</div> <div>1</div>								<div>Project No.</div> <div>K21001</div>		<div>PAGE No.</div> <div>265</div>		<div>REV.</div> <div>266</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	WD		-S12:13	-S20:22		WD	1,5	BK	29		
40	WD		-S11:12	-S20:21		WD	1,5	BK	30		
41	WD		-K01:A1	-S12:14		WD	1,5	BK	31		
42	WD		-K01:A1	-N01-X4:7		WD	1,5	BK	32		
43	WD		-K01:A2	-K22:A2		WD	1,5	BK	33		
44	WD		-K21:11	-Q01:14		WD	1,5	BK	34		
45	WD		-K22:A1	-N01-X4:9		WD	1,5	BK	35		
46	WD		-K22:A2	-K43:A2		WD	1,5	BK	36		
47	WD		-N01-X4:6	-S20:14		WD	1,5	BK	37		
48	WD		-N01-X4:2	-X4:3			1,5	BK	38		
49	WD		-K43:A1	-N01-X4:1		WD	1,5	BK	39		
50	WD		-K21:A2	-K43:A2		WD	1,5	BK	40		
51		X	-X4:3	-X10.1:15	X		1,5	BK	41		
52	WD		-K43:22	-X10.1:16	X		1,5	BK	42		
53	WD		-K21:A1	-Q01:31		WD	1,5	BK	43		
54	WD		-K21:A2	-K45:A2		WD	1,5	BK	44		
55	WD		-K43:21	-Q01:34		WD	1,5	BK	45		
56	WD		-K45:A1	-Q01:98		WD	1,5	BK	46		
57	WD		-H12:x2	-K45:A2		WD	1,5	BK	47		
58	WD		-K01:33	-X4:4	X		1,5	BK	48		
59	WD		-Q01:95	-X4:4			1,5	BK	49		
60	WD		-K01:21	-K43:34		WD	1,5	BK	50		
61	WD		-H12:x1	-K01:34		WD	1,5	BK	51		
62	WD		-H11:x2	-H12:x2		WD	1,5	BK	52		
63	WD		-H11:x1	-K01:22		WD	1,5	BK	53		
64	WD		-H11:x2	-H13:x2		WD	1,5	BK	54		
65	WD		-K43:34	-K45:14		WD	1,5	BK	55		
66	WD		-H13:x1	-K43:31		WD	1,5	BK	56		
67	WD		-K43:31	-K45:11		WD	1,5	BK	57		
68	WD		-K21:21	-S20:43		WD	1,5	RD	58		
69	WD		-K21:24	-N01-X1:1		WD	1,5	RD	59		
70	WD		-K01:43	-S20:43		WD	1,5	RD	60		
71	WD		-N01-X1:2	-S20:44		WD	1,5	RD	61		
72	WD		-K01:43	-S01:5		WD	1,5	RD	62		
73	WD		-K01:44	-N01-X1:3		WD	1,5	RD	63		
74	WD		-N01-X1:4	-Q01:14		WD	1,5	RD	64		
75	WD		-Q01:11	-S6:21		WD	1,5	RD	65		
76	WD		-S01:5	-S6:21		WD	1,5	RD	66		

* 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>Customer</div> <div>RMG COPPER JSC</div> <div></div>		<div>End User</div> <div>RMG COPPER JSC</div> <div></div>		<div>Project</div> <div>TREL-DEU-RMG MOTOR CONTROL CENTRE</div> <div>MNS-GEORGIA</div>		<div>Title</div> <div>Module Wire Connection List</div>		<div>Drawing No.</div> <div>4TRD021001C9000</div>		<div>+8801</div>		<div>SIZE</div> <div>A3</div>	
<div>R3V12 06.08.2021</div> <div>Last Revision Date</div>				<div>SCALE</div> <div>1</div>		<div>Creation Date</div> <div>11.02.2021</div>		<div>CHECKED BY : O.TOPAL</div>		<div>Project No.</div> <div>K21001</div>		<div>PAGE No.</div> <div>266</div>		<div>CONT.</div> <div>267</div>		<div>REV.</div>			
<div>Rev.</div> <div>Date</div>				<div>Description</div> <div>SIGN</div>															

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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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Module Wire Connection List		Drawing No. 4TRD021001C9000		+8801 SIZE A3	
R3V12 06.08.2021 Last Revision Date ROV0 11.02.2021 Creation Date Rev. Date Description SIGN				SCALE 1		DESIGNED BY : VINEETHA CHECKED BY : O.TOPAL APPROVED BY : O.YILMAZ						PAGE No. 267				CONT. 268	
												Project No. K21001		REV.			

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
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TERMINAL DIAGRAM

-X4

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
11	-Q01	26 BK	1			/261.2:C
11	-S11	27 BK	2		-S01	/261.2:C
15	-X10.1	41 BK	3		-N01-X4	/261.5:B
33	-K01	48 BK	4		-Q01	/261.6:B

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

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R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA										Project No. K21001	PAGE No.	268	
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL											CONT.	269	
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ													
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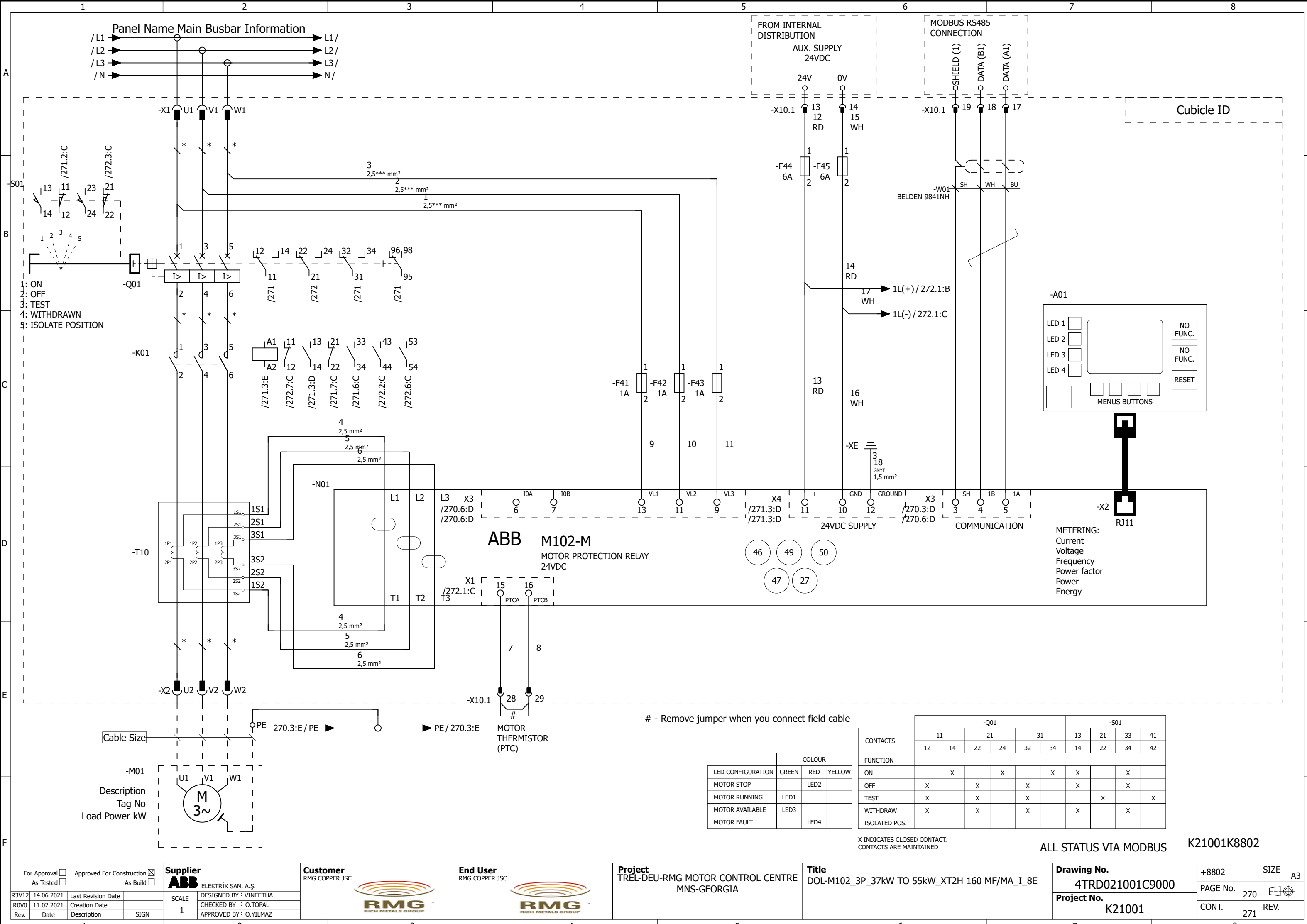
TERMINAL DIAGRAM
X10.1

DEVICE PIN		DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
1	-F11		16 BK	11	•			/261.1:B
3	-F11		18 BK	12	•			/261.1:B
1	-F44		9 RD	13	•			/260.5:A
1	-F45		12 WH	14	•			/260.5:A
3	-X4		41 BK	15	•			/261.5:B
22	-K43		42 BK	16	•			/261.5:B
5	-N01-X3		BU	17	•			/260.6:A
4	-N01-X3		WH	18	•			/260.6:A
3	-N01-X3		SH	19	•			/260.6:A
				20	•			/263.2:A
44	-K43		69 BK	21	•			/262.5:B
41	-K43		70 BK	22	•			/262.5:B
54	-K01		73 BK	23	•			/262.6:B
53	-K01		74 BK	24	•			/262.6:B
12	-K01		75 BK	25	•			/262.7:B
11	-K01		76 BK	26	•			/262.7:B
				27	•			/263.2:A
15	-N01-X1		7 BK	28	•			/260.4:E
16	-N01-X1		8 BK	29	•			/260.4:E
				30	•			/263.2:A

TOTAL TERMINALS COUNT: 20 PCS
TERMINAL TYPE: WITHDRAWABLE MODULE CONTROL PLUG

<div>For Approval <input type="checkbox"/> As Tested <input type="checkbox"/></div> <div>Last Revision Date</div> <div>Rev. Date</div>				<div>Approved For Construction <input checked="" type="checkbox"/> As Build <input type="checkbox"/></div> <div>Creation Date</div> <div>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.TOPAL</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>TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA</div>		<div>Title</div> <div>Terminal Connection Diagram</div>		<div>Drawing No.</div> <div>4TRD021001C9000</div> <div>Project No.</div> <div>K21001</div>		<div>+8801</div> <div>PAGE No. 269</div> <div>CONT. +8802/270</div>		<div>SIZE A3</div> <div></div> <div>REV.</div>									
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FROM INTERNAL DISTRIBUTION

AUX. SUPPLY 230VAC

(L) (N)

-X10.1 11 12

19 21

1 3

2 4

F11 6A

27

41

-X4 3

15 16

-X10.1 44

51

81

53

58

-K43 /271.4:E MCU TRIP

-K21 /271.5:E AVAILABLE

-S01 /270.1:B MODULE IN TEST POSITION

Q01 Q/1

-X4 1 2

-S11 E STOP PB RED

30

80

-K22 STOP /271.4:E

MANUAL AUTO 0-1

-S20 MAN-AUTO

-S12 START PB BLACK

-K01 MAIN CONT. RUNNING /270.2:C

31

13

14

40

-N01

X4 CCL1

GR1_B

START STOP

X4 CCA CCC

GR1_A GR1_C

Trips (NC)

35

38

42

-K01 MAIN CONTACTOR

-K22 CONT. STOP

-K43 MCU TRIP

36

39

43

-K21 AVAILABLE

-K45 CB TRIP

47

50

-Q01

SY/1

95 96

34

49

-K01 MAIN CONT. RUNNING /270.2:C

-K01 /270.2:C MAIN CONT. STOP

-K43 MCU PROT.TRIP /271.4:E

-K45 CB TRIP /271.6:E

54

55

56

57

59

-H12 MOTOR RUNNING GREEN

-H11 MOTOR STOP WHITE

-H13 MOTOR FAULT RED

5

6

3

4

1

2 /270.2:C

11 12 /272.7:C

13 14 /271.3:D

21 22 /271.7:C

33 34 /271.6:C

43 44 /272.2:C

53 54 /272.6:C

14 12 11 /271.3:D

14 12 21 /271.2:B

24 22 31 /271.7:C

44 42 41 /272.5:C

14 12 21 /271.2:C

24 22 21 /272.2:C

14 12 21 /271.8:C





24 22 21 /272.6:C

NOTE:
(#) JUMPERS WILL BE REMOVED AT SITE WHEN REMOTE SIGNALS ARE CONNECTED.
(*) ONLY IF REQUIRED.

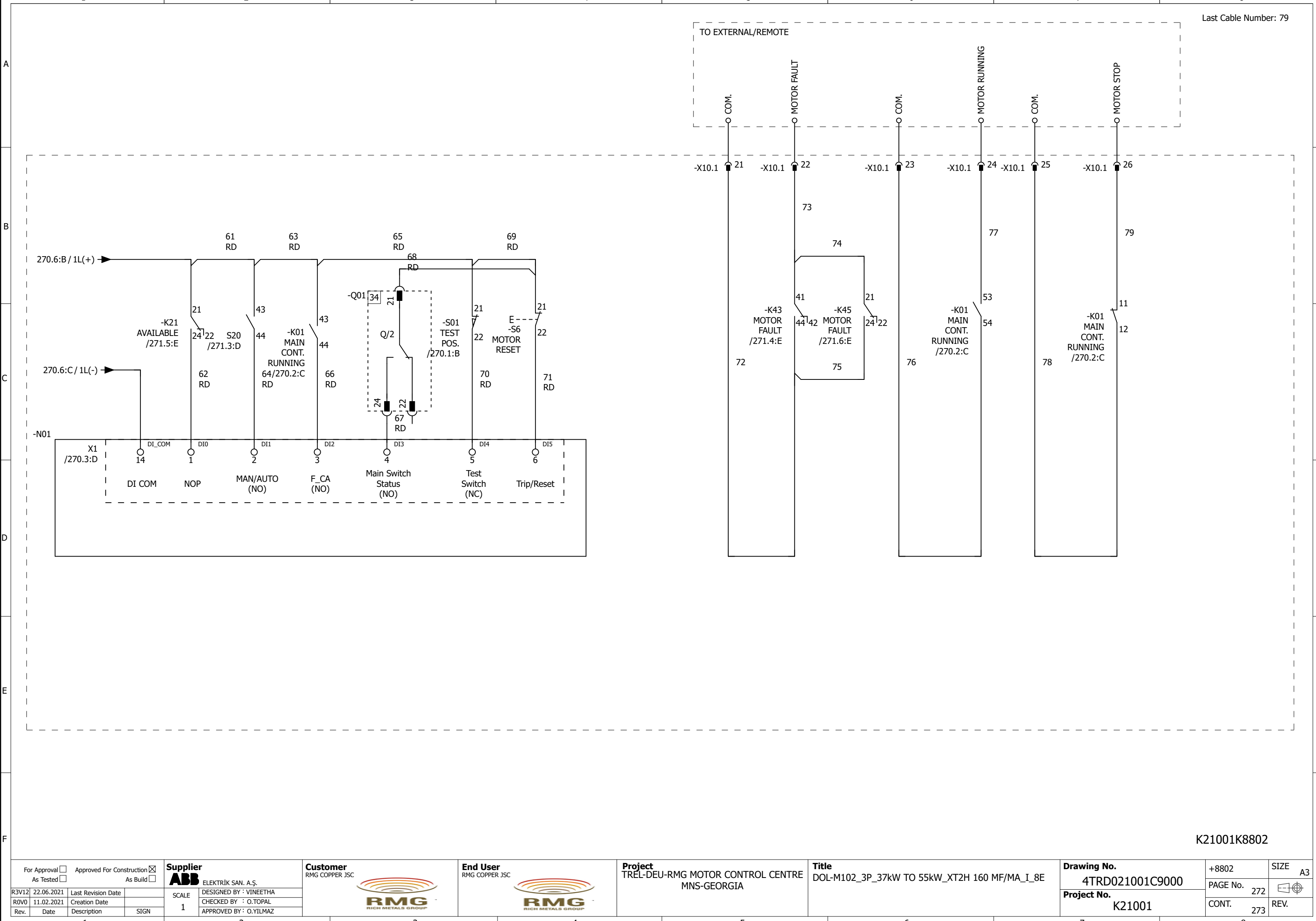
K21001K8802

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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title DOL-M102_3P_37kW TO 55kW_XT2H 160 MF/MA_I_8E		Drawing No. 4TRD021001C9000		+8802		SIZE A3	
R3V12 22.06.2021 Last Revision Date				DESIGNED BY : VINEETHA										Project No. K21001		PAGE No. 271			
R0V0 11.02.2021 Creation Date				CHECKED BY : O.TOPAL										CONT. 272		REV.			
Rev. Date Description SIGN				APPROVED BY : O.YILMAZ															

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<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><div>ABB</div><div>ELEKTRİK SAN. A.Ş.</div></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>TRÉL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA</div>		<div>Title</div> <div>DOL-M102_3P_37kW TO 55kW_XT2H 160 MF/MA_I_8E</div>		<div>Drawing No.</div> <div>4TRD021001C9000</div>		<div>+8802</div>	<div>SIZE</div> <div>A3</div>
R3V12	22.06.2021	Last Revision Date		<div>SCALE</div> <div>1</div>	DESIGNED BY : VINEETHA			<div>Project No.</div> <div>K21001</div>	<div>PAGE No.</div> <div>271</div>								
ROV0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL				<div>CONT.</div> <div>272</div>			REV.					
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ												

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Last Cable Number: 79

K21001K8802

<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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title DOL-M102_3P_37kW TO 55kW_XT2H 160 MF/MA_I_8E				Drawing No. 4TRD021001C9000		+8802	SIZE A3
R3V12	22.06.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA									Project No. K21001		PAGE No.	272		
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL											CONT.	273		REV.
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ														
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R3V12		30.04.2021		Last Revision Date				SCALE		1		DESIGNED BY : VINEETHA				PAGE No.		273		<div><div></div><div></div></div>													
ROV0		11.02.2021		Creation Date								CHECKED BY : O.TOPAL				CONT.		274		REV.													
Rev.		Date		Description		SIGN						APPROVED BY : O.YILMAZ																					
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C	<div><div><div>Tag No</div><div>Description (EN)</div><div>+LOCATION</div></div><div></div><div>ABB</div></div> <div><div><div><div>S20 MANUAL/AUTO SEL. SWITCH</div><div>S12 START</div><div>S11 STOP</div><div>H11 MOTOR STOP</div><div>H12 MOTOR RUNNING</div></div><div><div>BLACK</div><div>BLACK</div><div>RED</div><div>WHITE</div><div>GREEN</div></div><div><div>H13</div><div>S6</div><div>A01</div></div><div><div><div>MOTOR FAULT</div><div>MOTOR RESET</div></div><div><div>LED 1</div><div>LED 2</div><div>LED 3</div><div>LED 4</div></div><div><div>NO FUNC.</div><div>NO FUNC.</div><div>RESET</div></div><div><div></div><div></div><div></div><div></div></div><div>MENUS BUTTONS</div></div><div>RED</div><div>YELLOW</div></div><div></div><div>8E</div><div>ABB</div></div>							C
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F	<div>K21001K8802</div>							F
<div><div><div>For Approval</div><div>As Tested</div></div><div><div>Approved For Construction</div><div>As Build</div></div></div> <div><div>R3V12</div><div>30.04.2021</div><div>Last Revision Date</div><div></div></div> <div><div>R0V0</div><div>11.02.2021</div><div>Creation Date</div><div></div></div> <div><div>Rev.</div><div>Date</div><div>Description</div><div>SIGN</div></div>		<div>Supplier</div> <div><div>ABB</div><div>ELEKTRİK SAN. A.Ş.</div></div> <div>SCALE</div> <div>2</div> <div><div>DESIGNED BY : VINEETHA</div><div>CHECKED BY : O.TOPAL</div><div>APPROVED BY : O.YILMAZ</div></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>TREL-DEU-RMG MOTOR CONTROL CENTRE</div> <div>MNS-GEORGIA</div>	<div>Title</div> <div>DOL-M102_3P_37kW TO 55kW_XT2H 160 MF/MA_I_8E</div>	<div>Drawing No.</div> <div>4TRD021001C9000</div> <div>Project No.</div> <div>K21001</div>	<div>+8802</div> <div>PAGE No.</div> <div>274</div> <div>CONT.</div> <div>275</div> <div>SIZE</div> <div>A3</div> <div>REV.</div> <div></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
1	WD		-Q01:1	-X1:U1	X		*	BK			
2	WD		-K01:1	-Q01:2		WD	*	BK			
3	WD		-Q01:3	-X1:V1	X		*	BK			
4	WD		-K01:3	-Q01:4		WD	*	BK			
5	WD		-Q01:5	-X1:W1	X		*	BK			
6	WD		-K01:5	-Q01:6		WD	*	BK			
7			-X10.1:28	-X10.1:29			1,5	BK			
8	WD		-N01-X3:3	-X10.1:19	X		-W01**	SH			#4
9	WD		-N01-X3:4	-X10.1:18	X		-W01**	WH			#4
10	WD		-N01-X3:5	-X10.1:17	X		-W01**	BU			#4
11	WD		-F41:1	-X1:U1	X		*	BK	1		
12	WD		-F42:1	-X1:V1	X		*	BK	2		
13	WD		-F43:1	-X1:W1	X		*	BK	3		
14	WD		-T10:1S1	-T10:1S2		WD	2,5	BK	4		
15	WD		-T10:2S1	-T10:2S2		WD	2,5	BK	5		
16	WD		-T10:3S1	-T10:3S2		WD	2,5	BK	6		
17	WD		-N01-X1:15	-X10.1:28	X		1,5	BK	7		
18	WD		-N01-X1:16	-X10.1:29	X		1,5	BK	8		
19	WD		-F41:2	-N01-X3:13		WD	1,5	BK	9		
20	WD		-F42:2	-N01-X3:11		WD	1,5	BK	10		
21	WD		-F43:2	-N01-X3:9		WD	1,5	BK	11		
22	WD		-F44:1	-X10.1:13	X		1,5	RD	12		
23	WD		-F44:2	-N01-X4:11		WD	1,5	RD	13		
24	WD		-F44:2	-K21:21		WD	1,5	RD	14		
25	WD		-F45:1	-X10.1:14	X		1,5	WH	15		
26	WD		-F45:2	-N01-X4:10		WD	1,5	WH	16		
27	WD		-F45:2	-N01-X1:14		WD	1,5	WH	17		
28	WD		-N01-X4:12	-XE:3		WD	1,5	GNYE	18		
29	WD		-F11:1	-X10.1:11	X		1,5	BK	19		
30	WD		-F11:2	-K43:12		WD	1,5	BK	20		
31	WD		-F11:3	-X10.1:12	X		1,5	BK	21		
32	WD		-F11:4	-K01:A2		WD	1,5	BK	22		
33	WD		-K43:11	-S01:11		WD	1,5	BK	23		
34	WD		-S01:12	-X4:2			1,5	BK	24		
35	WD		-K01:13	-K22:11		WD	1,5	BK	25		
36	WD		-K01:14	-S12:14		IP	1,5	BK	26		
37	WD		-K43:12	-N01-X4:2		WD	1,5	BK	27		
38	WD		-K21:14	-K43:11		WD	1,5	BK	28		

* 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.TOPAL</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>TREL-DEU-RMG MOTOR CONTROL CENTRE</div> <div>MNS-GEORGIA</div>		<div>Title</div> <div>Module Wire Connection List</div>		<div>Drawing No.</div> <div>4TRD021001C9000</div>		<div>+8802</div>		<div>SIZE</div> <div>A3</div>	
<div>R3V12 06.08.2021</div> <div>Last Revision Date</div>				<div>SCALE</div> <div>1</div>								<div>Project No.</div> <div>K21001</div>		<div>PAGE No.</div> <div>275</div>		<div>REV.</div> <div>REV.</div>			
<div>R0V0 11.02.2021</div> <div>Rev. Date</div>				<div>Description</div> <div>SIGN</div>										<div>CONT.</div> <div>276</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	WD		-Q01:11	-X4:1	X		1,5	BK	29		
40	IP		-S11:11	-X4:2	X		1,5	BK	30		
41	IP		-S20:13	-S20:21		IP	1,5	BK	31		
42	IP		-S12:13	-S20:22		IP	1,5	BK	32		
43	IP		-S11:12	-S20:21		IP	1,5	BK	33		
44	WD		-K01:A1	-S12:14		IP	1,5	BK	34		
45	WD		-K01:A1	-N01-X4:7		WD	1,5	BK	35		
46	WD		-K01:A2	-K22:A2		WD	1,5	BK	36		
47	WD		-K21:11	-Q01:14		WD	1,5	BK	37		
48	WD		-K22:A1	-N01-X4:9		WD	1,5	BK	38		
49	WD		-K22:A2	-K43:A2		WD	1,5	BK	39		
50	WD		-N01-X4:6	-S20:14		IP	1,5	BK	40		
51	WD		-N01-X4:2	-X4:3			1,5	BK	41		
52	WD		-K43:A1	-N01-X4:1		WD	1,5	BK	42		
53	WD		-K21:A2	-K43:A2		WD	1,5	BK	43		
54		X	-X4:3	-X10.1:15	X		1,5	BK	44		
55	WD		-K43:22	-X10.1:16	X		1,5	BK	45		
56	WD		-K21:A1	-Q01:31		WD	1,5	BK	46		
57	WD		-K21:A2	-K45:A2		WD	1,5	BK	47		
58	WD		-K43:21	-Q01:34		WD	1,5	BK	48		
59	WD		-K45:A1	-Q01:98		WD	1,5	BK	49		
60	IP		-H12:x2	-K45:A2		WD	1,5	BK	50		
61	WD		-K01:33	-X4:4	X		1,5	BK	51		
62	WD		-Q01:95	-X4:4			1,5	BK	52		
63	WD		-K01:21	-K43:34		WD	1,5	BK	53		
64	IP		-H12:x1	-K01:34		WD	1,5	BK	54		
65	IP		-H11:x2	-H12:x2		IP	1,5	BK	55		
66	IP		-H11:x1	-K01:22		WD	1,5	BK	56		
67	IP		-H11:x2	-H13:x2		IP	1,5	BK	57		
68	WD		-K43:34	-K45:14		WD	1,5	BK	58		
69	IP		-H13:x1	-K43:31		WD	1,5	BK	59		
70	WD		-K43:31	-K45:11		WD	1,5	BK	60		
71	WD		-K21:21	-S20:43		IP	1,5	RD	61		
72	WD		-K21:24	-N01-X1:1		WD	1,5	RD	62		
73	WD		-K01:43	-S20:43		IP	1,5	RD	63		
74	WD		-N01-X1:2	-S20:44		IP	1,5	RD	64		
75	WD		-K01:43	-S01:21		WD	1,5	RD	65		
76	WD		-K01:44	-N01-X1:3		WD	1,5	RD	66		

* 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.TOPAL</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>TREL-DEU-RMG MOTOR CONTROL CENTRE</div> <div>MNS-GEORGIA</div>		<div>Title</div> <div>Module Wire Connection List</div>		<div>Drawing No.</div> <div>4TRD021001C9000</div>		<div>+8802</div>		<div>SIZE</div> <div>A3</div>	
<div>R3V12 06.08.2021</div> <div>Last Revision Date</div>				<div>SCALE</div> <div>1</div>								<div>Project No.</div> <div>K21001</div>		<div>PAGE No.</div> <div>276</div>		<div>REV.</div> <div>REV.</div>			
<div>Rev. 0</div> <div>Date 11.02.2021</div> <div>Description</div> <div>SIGN</div>														<div>CONT.</div> <div>277</div>					

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

1	2	3	4	5	6	7	8
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✕

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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8802		SIZE A3	
R3V12 06.08.2021 Last Revision Date ROV0 11.02.2021 Creation Date Rev. Date Description SIGN				SCALE 1		DESIGNED BY : VINEETHA CHECKED BY : O.TOPAL APPROVED BY : O.YILMAZ						Project No. K21001		PAGE No. 278 CONT. 279		 REV.			

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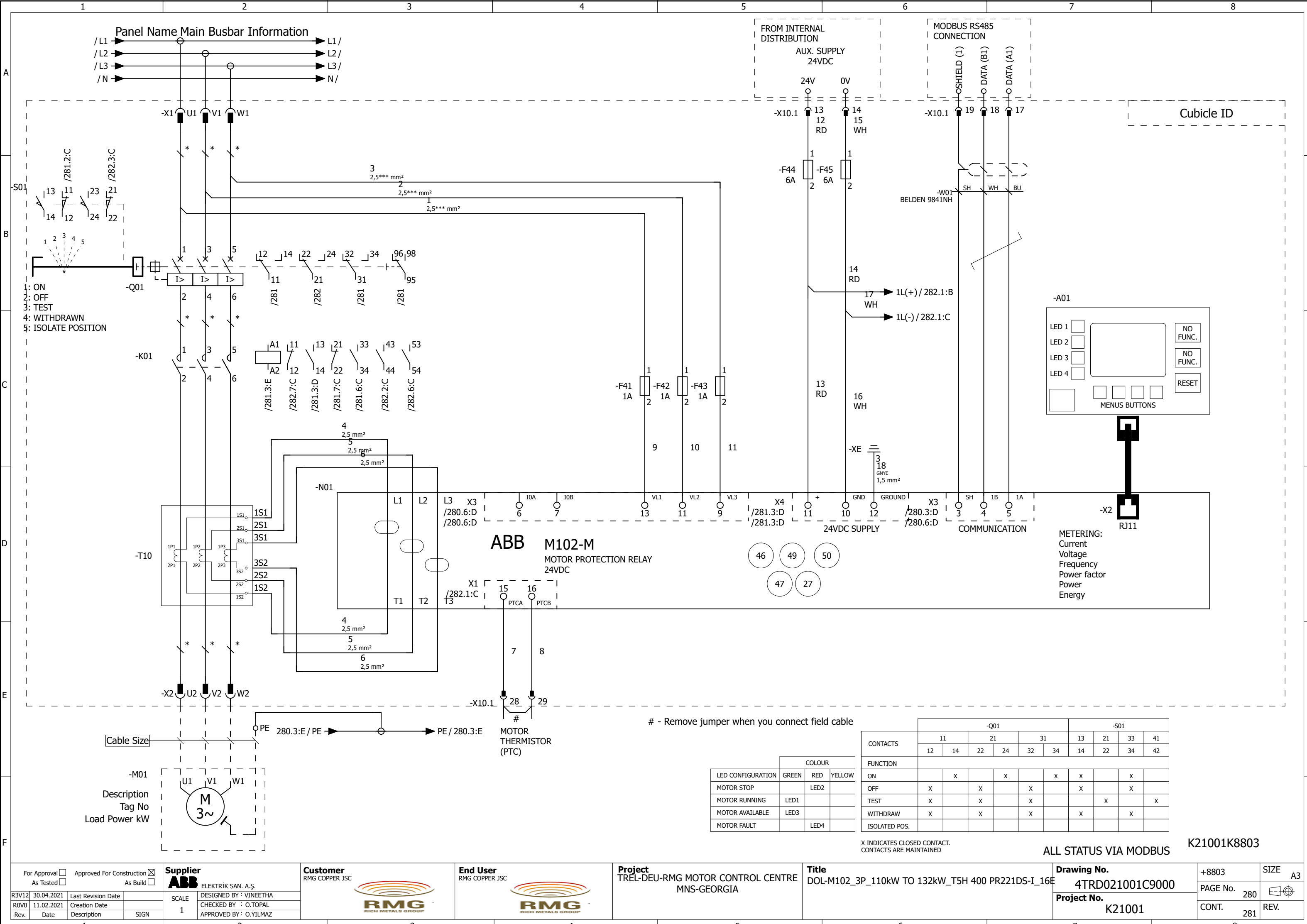
TERMINAL DIAGRAM
X10.1

DEVICE PIN		DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR		DEVICE DESIGNATION	DEVICE PIN	DEVICE DESIGNATION	DEVICE PIN	PAGE
				10	1					/273.1:A
1		-F11	19 BK	11	1					/271.1:B
3		-F11	21 BK	12	1					/271.1:B
1		-F44	12 RD	13	1					/270.5:A
1		-F45	15 WH	14	1					/270.6:A
3		-X4	44 BK	15	1					/271.5:B
22		-K43	45 BK	16	1					/271.5:B
5		-N01-X3	BU	17	1					/270.7:A
4		-N01-X3	WH	18	1					/270.6:A
3		-N01-X3	SH	19	1					/270.6:A
				20	1					/273.2:A
44		-K43	72 BK	21	1					/272.5:B
41		-K43	73 BK	22	1					/272.5:B
54		-K01	76 BK	23	1					/272.6:B
53		-K01	77 BK	24	1					/272.6:B
12		-K01	78 BK	25	1					/272.7:B
11		-K01	79 BK	26	1					/272.7:B
				27	1					/273.2:A
15		-N01-X1	7 BK	28	1					/270.4:E
16		-N01-X1	8 BK	29	1					/270.4:E

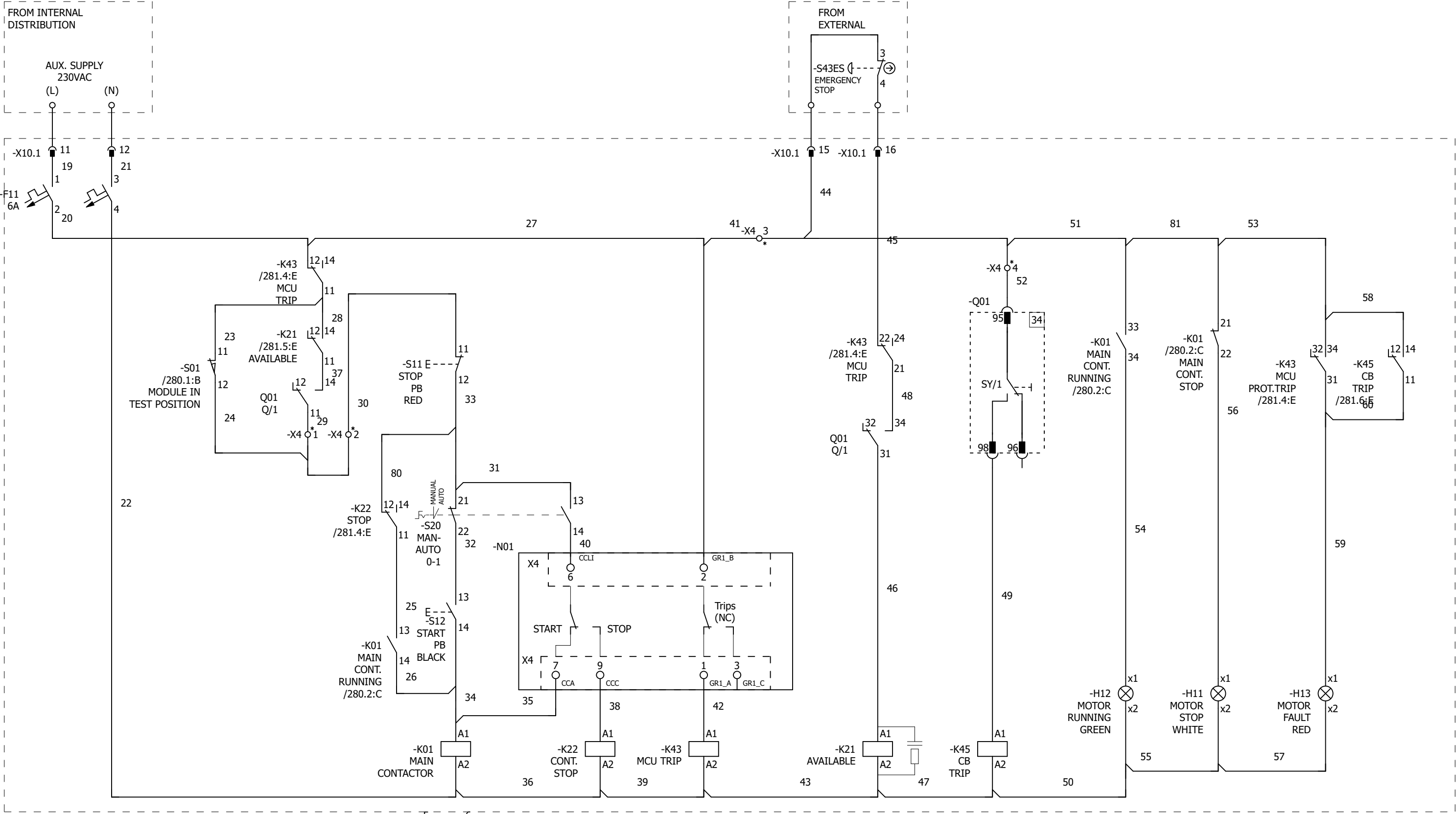
TOTAL TERMINALS COUNT: 20 PCS
TERMINAL TYPE: PLUG PART S8E 1x20P 10-19,20-29

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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8802	SIZE A3
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA									Project No. K21001		PAGE No. 279	
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL											CONT. +8803/280	
Rev.	Date	Description	SIGN		APPROVED BY: O.YILMAZ											REV.	

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- 5 6

3 4

1 2 /280.2:C

11 12 /282.7:C

13 14 /281.3:D

21 22 /281.7:C

33 34 /281.6:C

43 44 /282.2:C

53 54 /282.6:C
- 14 12 11 /281.3:D

14 12 21 /281.2:B

24 22 21 /281.5:C




34 32 31 /281.7:C

44 42 41 /282.5:C
- 14 12 11 /281.2:C



24 22 21 /282.2:C
- 14 12 11 /281.8:C

24 22 21 /282.6:C

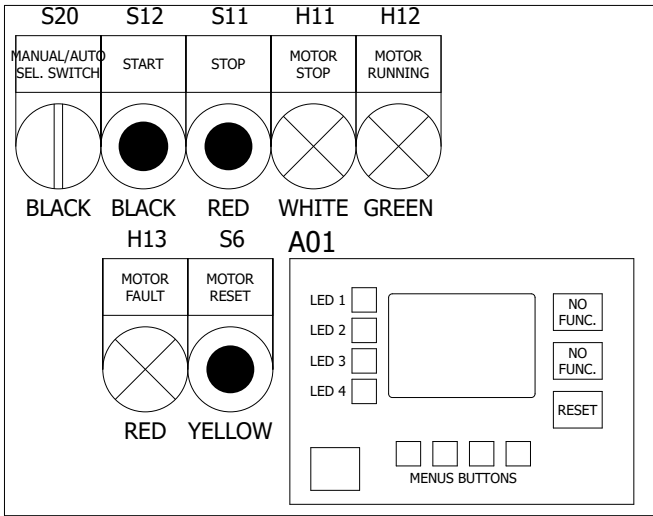
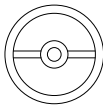
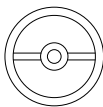
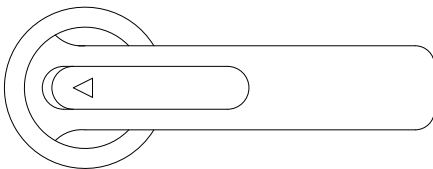
NOTE:
(#) JUMPERS WILL BE REMOVED AT SITE WHEN REMOTE SIGNALS ARE CONNECTED.
(*) ONLY IF REQUIRED.

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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title DOL-M102_3P_110kW TO 132kW_T5H 400 PR221DS-I_16E		Drawing No. 4TRD021001C9000		+8803	SIZE A3
R3V12	22.06.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA									Project No. K21001		PAGE No.	281				
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL									CONT.	282	REV.					
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ																

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1		2		3		4		5		6		7		8																	
A																															
SPARE TEMINAL																															
-X10.1		<div><div><div></div><div>10</div></div><div><div></div><div>20</div></div><div><div></div><div>27</div></div></div>																													
B																															
C																															
D																															
E																															
F																															
K21001K8803																															
<div><div><div>For Approval<input type="checkbox"/></div><div>As Tested<input type="checkbox"/></div></div><div><div>Approved For Construction<input checked="" type="checkbox"/></div><div>As Build<input type="checkbox"/></div></div></div>				<div>Supplier</div> <div><div>ABB</div><div>ELEKTRİK SAN. A.Ş.</div></div>				<div>Customer</div> <div>RMG COPPER JSC</div> <div><div></div></div>				<div>End User</div> <div>RMG COPPER JSC</div> <div><div></div></div>				<div>Project</div> <div>TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA</div>				<div>Title</div> <div>DOL-M102_3P_110kW TO 132kW_T5H 400 PR221DS-I_16E</div>				<div>Drawing No.</div> <div>4TRD021001C9000</div>				<div>+8803</div> <div>PAGE No. 283</div> <div>CONT. 284</div>		<div>SIZE</div> <div>A3</div> <div><div></div></div> <div>REV.</div>	
R3V12 30.04.2021		Last Revision Date				SCALE		1		DESIGNED BY : VINEETHA				Project No.		K21001															
R0V0 11.02.2021		Creation Date								CHECKED BY : O.TOPAL																					
Rev. Date		Description		SIGN						APPROVED BY : O.YILMAZ																					
1		2		3		4		5		6		7		8																	

LINE NO:



ABB

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16E

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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title DOL-M102_3P_110kW TO 132kW_T5H 400 PR221DS-I_16		Drawing No. 4TRD021001C9000		+8803 SIZE A3	
R3V12 30.04.2021 Last Revision Date ROV0 11.02.2021 Creation Date Rev. Date Description SIGN				SCALE 2 DESIGNED BY : VINEETHA CHECKED BY : O.TOPAL APPROVED BY : O.YILMAZ								Project No. K21001		PAGE No. 284 CONT. 285		 REV.	

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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	WD		-Q01:1	-X1:U1	X		*	BK			
2	WD		-K01:1	-Q01:2		WD	*	BK			
3	WD		-Q01:3	-X1:V1	X		*	BK			
4	WD		-K01:3	-Q01:4		WD	*	BK			
5	WD		-Q01:5	-X1:W1	X		*	BK			
6	WD		-K01:5	-Q01:6		WD	*	BK			
7			-X10.1:28	-X10.1:29			1,5	BK			
8	WD		-N01-X3:3	-X10.1:19	X		-W01**	SH			#4
9	WD		-N01-X3:4	-X10.1:18	X		-W01**	WH			#4
10	WD		-N01-X3:5	-X10.1:17	X		-W01**	BU			#4
11	WD		-F41:1	-X1:U1	X		*	BK	1		
12	WD		-F42:1	-X1:V1	X		*	BK	2		
13	WD		-F43:1	-X1:W1	X		*	BK	3		
14	WD		-T10:1S1	-T10:1S2		WD	2,5	BK	4		
15	WD		-T10:2S1	-T10:2S2		WD	2,5	BK	5		
16	WD		-T10:3S1	-T10:3S2		WD	2,5	BK	6		
17	WD		-N01-X1:15	-X10.1:28	X		1,5	BK	7		
18	WD		-N01-X1:16	-X10.1:29	X		1,5	BK	8		
19	WD		-F41:2	-N01-X3:13		WD	1,5	BK	9		
20	WD		-F42:2	-N01-X3:11		WD	1,5	BK	10		
21	WD		-F43:2	-N01-X3:9		WD	1,5	BK	11		
22	WD		-F44:1	-X10.1:13	X		1,5	RD	12		
23	WD		-F44:2	-N01-X4:11		WD	1,5	RD	13		
24	WD		-F44:2	-K21:21		WD	1,5	RD	14		
25	WD		-F45:1	-X10.1:14	X		1,5	WH	15		
26	WD		-F45:2	-N01-X4:10		WD	1,5	WH	16		
27	WD		-F45:2	-N01-X1:14		WD	1,5	WH	17		
28	WD		-N01-X4:12	-XE:3		WD	1,5	GNYE	18		
29	WD		-F11:1	-X10.1:11	X		1,5	BK	19		
30	WD		-F11:2	-K43:12		WD	1,5	BK	20		
31	WD		-F11:3	-X10.1:12	X		1,5	BK	21		
32	WD		-F11:4	-K01:A2		WD	1,5	BK	22		
33	WD		-K43:11	-S01:11		WD	1,5	BK	23		
34	WD		-S01:12	-X4:2			1,5	BK	24		
35	WD		-K01:13	-K22:11		WD	1,5	BK	25		
36	WD		-K01:14	-S12:14		IP	1,5	BK	26		
37	WD		-K43:12	-N01-X4:2		WD	1,5	BK	27		
38	WD		-K21:14	-K43:11		WD	1,5	BK	28		

* 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.TOPAL</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>TREL-DEU-RMG MOTOR CONTROL CENTRE</div> <div>MNS-GEORGIA</div>		<div>Title</div> <div>Module Wire Connection List</div>		<div>Drawing No.</div> <div>4TRD021001C9000</div>		<div>+8803</div>		<div>SIZE</div> <div>A3</div>	
<div>R3V12 06.08.2021 Last Revision Date</div> <div>Rev. Date Creation Date Description SIGN</div>				<div>SCALE</div> <div>1</div>								<div>Project No.</div> <div>K21001</div>		<div>PAGE No.</div> <div>285</div>		<div>REV.</div> <div>286</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	WD		-Q01:11	-X4:1	X		1,5	BK	29		
40	IP		-S11:11	-X4:2	X		1,5	BK	30		
41	IP		-S20:13	-S20:21		IP	1,5	BK	31		
42	IP		-S12:13	-S20:22		IP	1,5	BK	32		
43	IP		-S11:12	-S20:21		IP	1,5	BK	33		
44	WD		-K01:A1	-S12:14		IP	1,5	BK	34		
45	WD		-K01:A1	-N01-X4:7		WD	1,5	BK	35		
46	WD		-K01:A2	-K22:A2		WD	1,5	BK	36		
47	WD		-K21:11	-Q01:14		WD	1,5	BK	37		
48	WD		-K22:A1	-N01-X4:9		WD	1,5	BK	38		
49	WD		-K22:A2	-K43:A2		WD	1,5	BK	39		
50	WD		-N01-X4:6	-S20:14		IP	1,5	BK	40		
51	WD		-N01-X4:2	-X4:3			1,5	BK	41		
52	WD		-K43:A1	-N01-X4:1		WD	1,5	BK	42		
53	WD		-K21:A2	-K43:A2		WD	1,5	BK	43		
54		X	-X4:3	-X10.1:15	X		1,5	BK	44		
55	WD		-K43:22	-X10.1:16	X		1,5	BK	45		
56	WD		-K21:A1	-Q01:31		WD	1,5	BK	46		
57	WD		-K21:A2	-K45:A2		WD	1,5	BK	47		
58	WD		-K43:21	-Q01:34		WD	1,5	BK	48		
59	WD		-K45:A1	-Q01:98		WD	1,5	BK	49		
60	IP		-H12:x2	-K45:A2		WD	1,5	BK	50		
61	WD		-K01:33	-X4:4	X		1,5	BK	51		
62	WD		-Q01:95	-X4:4			1,5	BK	52		
63	WD		-K01:21	-K43:34		WD	1,5	BK	53		
64	IP		-H12:x1	-K01:34		WD	1,5	BK	54		
65	IP		-H11:x2	-H12:x2		IP	1,5	BK	55		
66	IP		-H11:x1	-K01:22		WD	1,5	BK	56		
67	IP		-H11:x2	-H13:x2		IP	1,5	BK	57		
68	WD		-K43:34	-K45:14		WD	1,5	BK	58		
69	IP		-H13:x1	-K43:31		WD	1,5	BK	59		
70	WD		-K43:31	-K45:11		WD	1,5	BK	60		
71	WD		-K21:21	-S20:43		IP	1,5	RD	61		
72	WD		-K21:24	-N01-X1:1		WD	1,5	RD	62		
73	WD		-K01:43	-S20:43		IP	1,5	RD	63		
74	WD		-N01-X1:2	-S20:44		IP	1,5	RD	64		
75	WD		-K01:43	-S01:21		WD	1,5	RD	65		
76	WD		-K01:44	-N01-X1:3		WD	1,5	RD	66		

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

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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Module Wire Connection List		Drawing No. 4TRD021001C9000		+8803	SIZE	A3	
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA										Project No. K21001	PAGE No.	286		REV.
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL														
Rev.	Date	Description	SIGN		APPROVED BY: O.YILMAZ												287		

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

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F

TERMINAL DIAGRAM

-X4

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
11	-Q01	29 BK	1			/281.2:C
11	-S11	30 BK	2		12	/281.2:C
15	-X10.1	44 BK	3		2	/281.5:B
33	-K01	51 BK	4		95	/281.6:B

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

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R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA									Project No. K21001	PAGE No. 288	CONT. 289	REV. 	
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL													
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ													
1				2				3		4		5		6		7		8

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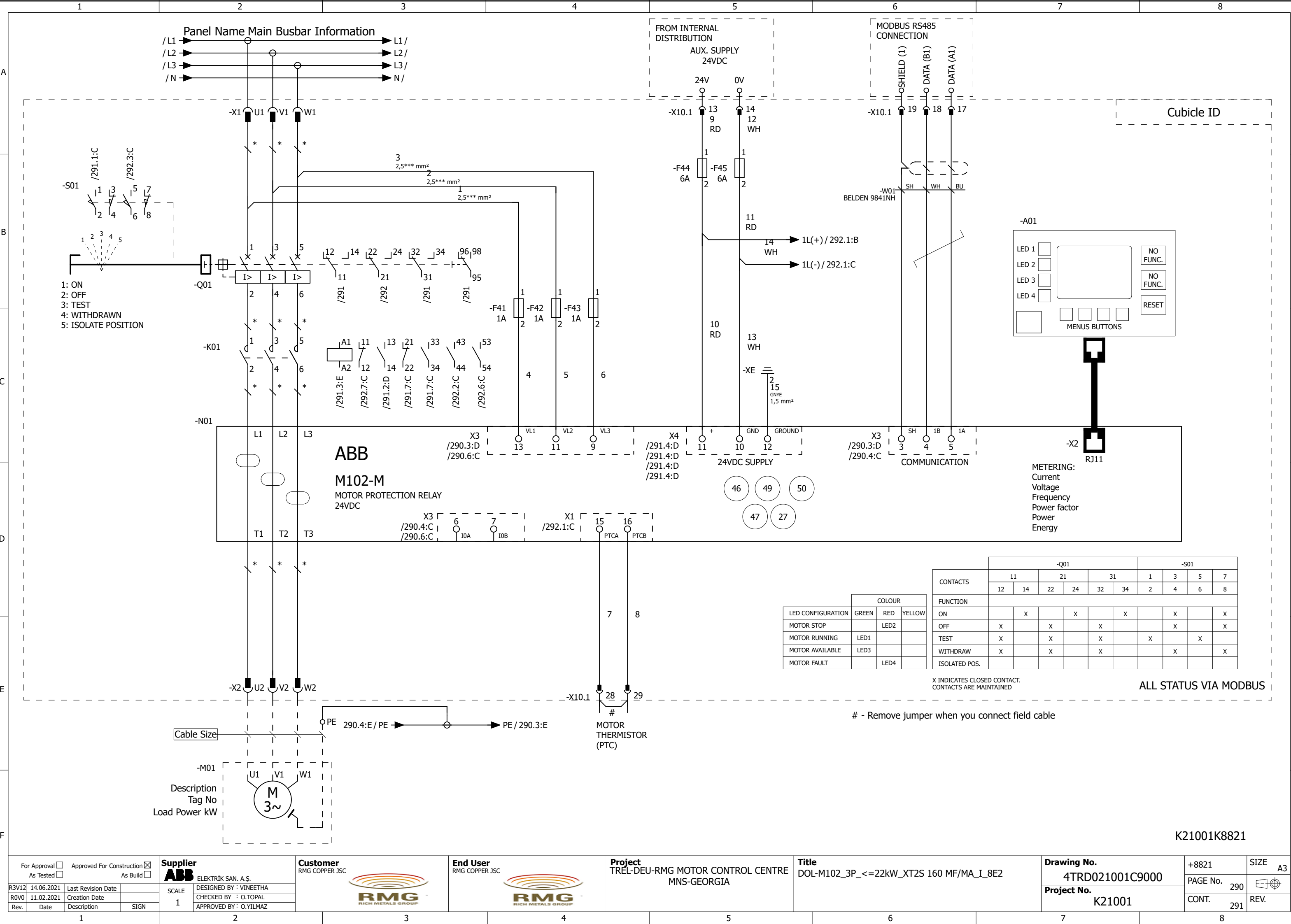
TERMINAL DIAGRAM
X10.1

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	DEVICE DESIGNATION	DEVICE PIN	PAGE
			19 BK																							/283.1:A
1	-F11																									/281.1:B
3	-F11		21 BK																							/281.1:B
1	-F44		12 RD																							/280.5:A
1	-F45		15 WH																							/280.6:A
3	-X4		44 BK																							/281.5:B
22	-K43		45 BK																							/281.5:B
5	-N01-X3		BU																							/280.7:A
4	-N01-X3		WH																							/280.6:A
3	-N01-X3		SH																							/280.6:A
																										/283.2:A
44	-K43		72 BK																							/282.5:B
41	-K43		73 BK																							/282.5:B
54	-K01		76 BK																							/282.6:B
53	-K01		77 BK																							/282.6:B
12	-K01		78 BK																							/282.7:B
11	-K01		79 BK																							/282.7:B
																										/283.2:A
15	-N01-X1		7 BK																							/280.4:E
16	-N01-X1		8 BK																							/280.4:E

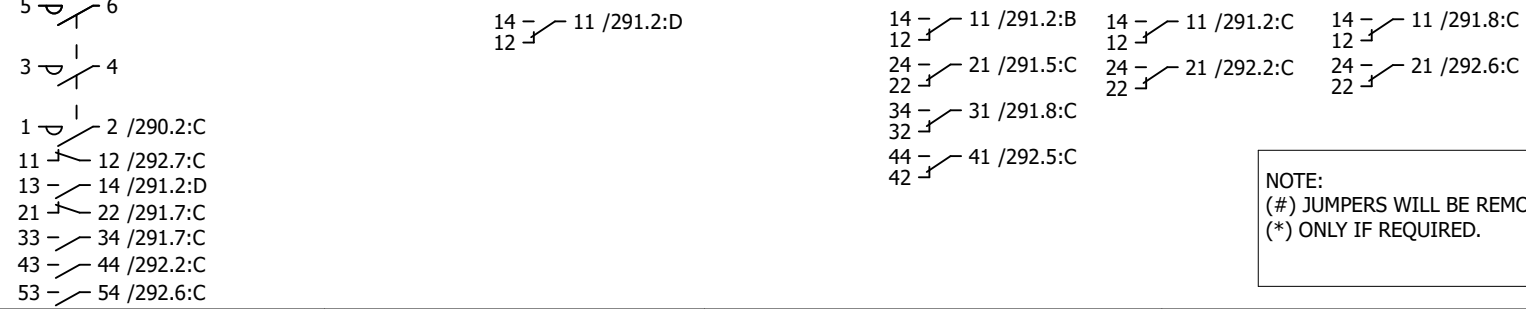
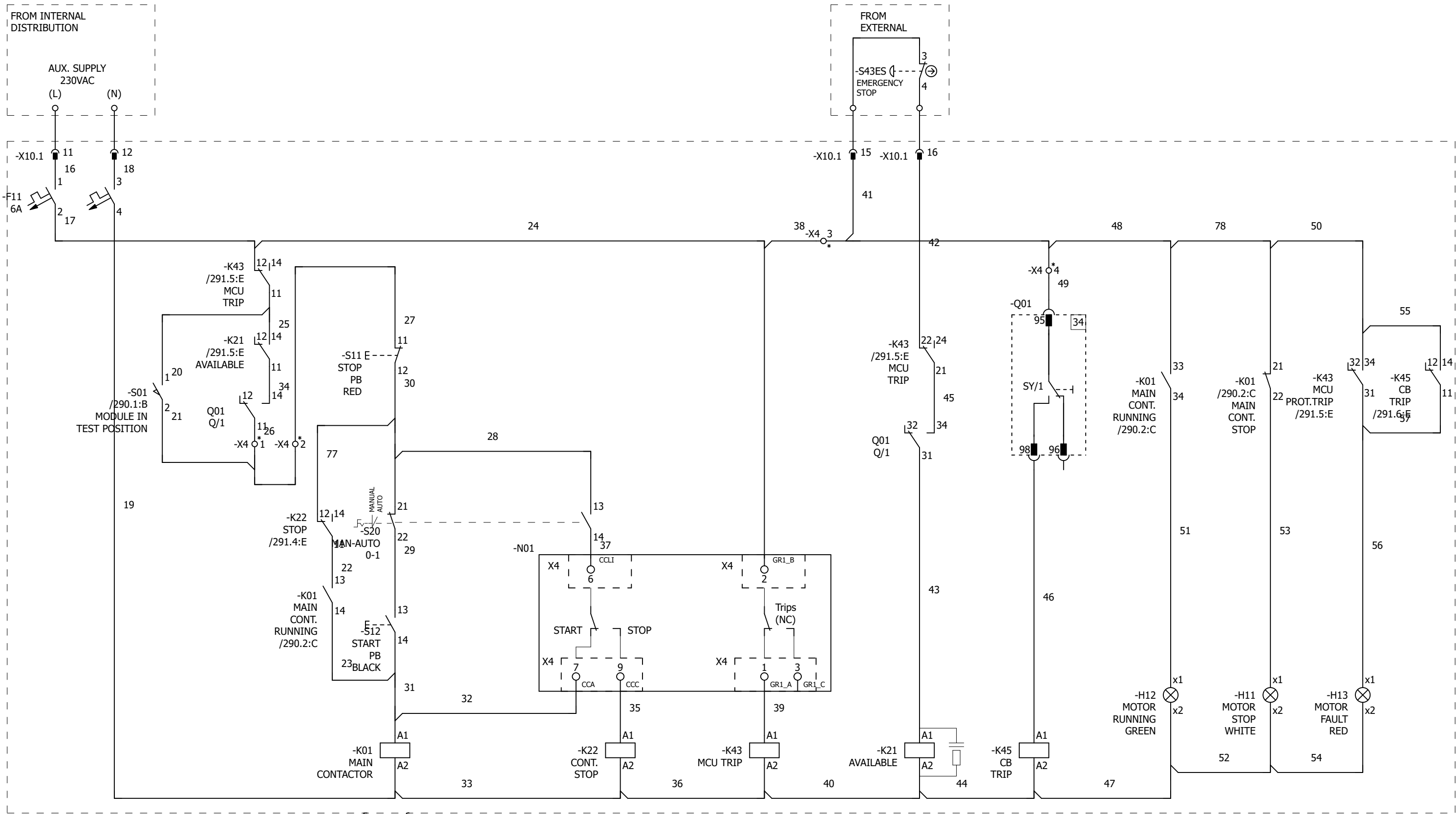
TOTAL TERMINALS COUNT: 20 PCS
TERMINAL TYPE: PLUG PART S8E 1x20P 10-19,20-29

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R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA										PAGE No. 289					
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL															
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ										CONT. +8821/290					

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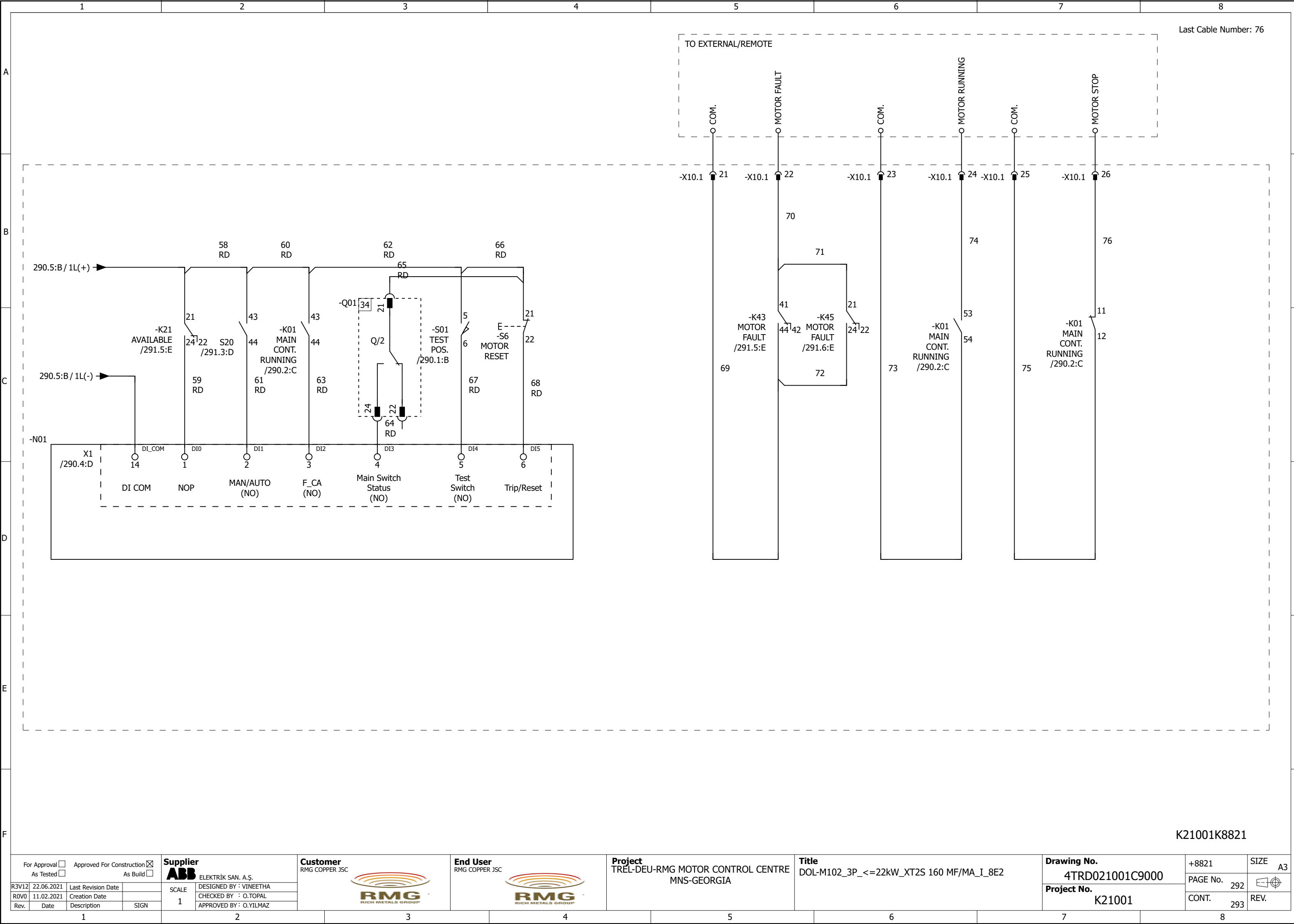



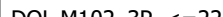

NOTE:
(#) JUMPERS WILL BE REMOVED AT SITE WHEN REMOTE SIGNALS ARE CONNECTED.
(*) ONLY IF REQUIRED.

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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title DOL-M102_3P_<=22kW_XT2S 160 MF/MA_I_8E2		Drawing No. 4TRD021001C9000		+8821	SIZE A3
R3V12	22.06.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA									Project No. K21001		PAGE No.	291
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL											CONT.	292
Rev.	Date	Description	SIGN		APPROVED BY: O.YILMAZ												REV.

K21001K8821

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R3V12		22.06.2021		Last Revision Date				SCALE 1		DESIGNED BY : VINEETHA										Project No. K21001		PAGE No.		292							
R0V0		11.02.2021		Creation Date						CHECKED BY : O.TOPAL												CONT.		293				REV.			
Rev.		Date		Description		SIGN				APPROVED BY: O.YILMAZ																					
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A	SPARE TEMINAL																		
	<table><tr><td>-X10.1</td><td> 10</td><td> 20</td><td> 27</td><td> 30</td><td colspan="3"></td></tr></table>								-X10.1	 10	 20	 27	 30						
-X10.1	 10	 20	 27	 30															
B																			
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E																			
F	K21001K8821																		
<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>Customer</div> <div>RMG COPPER JSC</div> <div></div>		<div>End User</div> <div>RMG COPPER JSC</div> <div></div>		<div>Project</div> <div>TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA</div>		<div>Title</div> <div>DOL-M102_3P_<=22kW_XT2S 160 MF/MA_I_8E2</div>		<div>Drawing No.</div> <div>4TRD021001C9000</div>		<div>+8821</div>		<div>SIZE</div> <div>A3</div>	
R3V12 30.04.2021		Last Revision Date		SCALE 1		DESIGNED BY : VINEETHA								PAGE No. 293					
R0V0 11.02.2021		Creation Date				CHECKED BY : O.TOPAL								CONT. 294		REV.			
Rev. Date		Description		SIGN		APPROVED BY : O.YILMAZ													
1		2		3		4		5		6		7		8					

Diagram illustrating the terminal block layout for the ABB 8E2 terminal block, showing the arrangement of terminals and their functions.

Terminal Functions:

- S20:** MANUAL/AUTO SEL. SWITCH
- S12:** START
- S11:** STOP
- H11:** MOTOR STOP
- H12:** MOTOR RUNNING
- H13:** MOTOR FAULT
- S6:** MOTOR RESET
- A01:** LED 1, LED 2, LED 3, LED 4, NO FUNC., NO FUNC., RESET, MENUS BUTTONS

Terminal Symbols:

- BLACK:** S20, S12, S11
- RED:** H11, H13
- WHITE:** H12
- GREEN:** S6

Terminal Block Details:

- LED 1, LED 2, LED 3, LED 4:** Indicators for motor status.
- NO FUNC., NO FUNC., RESET:** Buttons for motor control.
- MENUS BUTTONS:** Buttons for menu navigation.

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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	WD		-Q01:1	-X1:U1	X		*	BK			
2	WD		-K01:1	-Q01:2		WD	*	BK			
3	WD		-Q01:3	-X1:V1	X		*	BK			
4	WD		-K01:3	-Q01:4		WD	*	BK			
5	WD		-Q01:5	-X1:W1	X		*	BK			
6	WD		-K01:5	-Q01:6		WD	*	BK			
7			-X10.1:28	-X10.1:29			1,5	BK			
8	WD		-N01-X3:3	-X10.1:19	X		-W01**	SH			#4
9	WD		-N01-X3:4	-X10.1:18	X		-W01**	WH			#4
10	WD		-N01-X3:5	-X10.1:17	X		-W01**	BU			#4
11	WD		-F41:1	-Q01:1		WD	2,5***	BK	1		
12	WD		-F42:1	-Q01:3		WD	2,5***	BK	2		
13	WD		-F43:1	-Q01:5		WD	2,5***	BK	3		
14	WD		-F41:2	-N01-X3:13		WD	1,5	BK	4		
15	WD		-F42:2	-N01-X3:11		WD	1,5	BK	5		
16	WD		-F43:2	-N01-X3:9		WD	1,5	BK	6		
17	WD		-N01-X1:15	-X10.1:28	X		1,5	BK	7		
18	WD		-N01-X1:16	-X10.1:29	X		1,5	BK	8		
19	WD		-F44:1	-X10.1:13	X		1,5	RD	9		
20	WD		-F44:2	-N01-X4:11		WD	1,5	RD	10		
21	WD		-F44:2	-K21:21		WD	1,5	RD	11		
22	WD		-F45:1	-X10.1:14	X		1,5	WH	12		
23	WD		-F45:2	-N01-X4:10		WD	1,5	WH	13		
24	WD		-F45:2	-N01-X1:14		WD	1,5	WH	14		
25	WD		-N01-X4:12	-XE:2		WD	1,5	GNYE	15		
26	WD		-F11:1	-X10.1:11	X		1,5	BK	16		
27	WD		-F11:2	-K43:12		WD	1,5	BK	17		
28	WD		-F11:3	-X10.1:12	X		1,5	BK	18		
29	WD		-F11:4	-K01:A2		WD	1,5	BK	19		
30	WD		-K43:11	-S01:1		WD	1,5	BK	20		
31	WD		-S01:2	-X4:2			1,5	BK	21		
32	WD		-K01:13	-K22:11		WD	1,5	BK	22		
33	WD		-K01:14	-S12:14		WD	1,5	BK	23		
34	WD		-K43:12	-N01-X4:2		WD	1,5	BK	24		
35	WD		-K21:14	-K43:11		WD	1,5	BK	25		
36	WD		-Q01:11	-X4:1	X		1,5	BK	26		
37	WD		-S11:11	-X4:2	X		1,5	BK	27		
38	WD		-S20:13	-S20:21		IP	1,5	BK	28		

* 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.TOPAL</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>TREL-DEU-RMG MOTOR CONTROL CENTRE</div> <div>MNS-GEORGIA</div>		<div>Title</div> <div>Module Wire Connection List</div>		<div>Drawing No.</div> <div>4TRD021001C9000</div>		<div>+8821</div>		<div>SIZE</div> <div>A3</div>	
<div>R3V12 06.08.2021</div> <div>Last Revision Date</div>				<div>SCALE</div> <div>1</div>								<div>Project No.</div> <div>K21001</div>		<div>PAGE No.</div> <div>295</div>		<div>REV.</div> <div>296</div>			
<div>Rev.</div> <div>Date</div>				<div>Description</div> <div>SIGN</div>										<div>CONT.</div> <div>296</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
39	WD		-S12:13	-S20:22		IP	1,5	BK	29		
40	WD		-S11:12	-S20:21		IP	1,5	BK	30		
41	WD		-K01:A1	-S12:14		WD	1,5	BK	31		
42	WD		-K01:A1	-N01-X4:7		WD	1,5	BK	32		
43	WD		-K01:A2	-K22:A2		WD	1,5	BK	33		
44	WD		-K21:11	-Q01:14		WD	1,5	BK	34		
45	WD		-K22:A1	-N01-X4:9		WD	1,5	BK	35		
46	WD		-K22:A2	-K43:A2		WD	1,5	BK	36		
47	WD		-N01-X4:6	-S20:14		WD	1,5	BK	37		
48	WD		-N01-X4:2	-X4:3			1,5	BK	38		
49	WD		-K43:A1	-N01-X4:1		WD	1,5	BK	39		
50	WD		-K21:A2	-K43:A2		WD	1,5	BK	40		
51		X	-X4:3	-X10.1:15	X		1,5	BK	41		
52	WD		-K43:22	-X10.1:16	X		1,5	BK	42		
53	WD		-K21:A1	-Q01:31		WD	1,5	BK	43		
54	WD		-K21:A2	-K45:A2		WD	1,5	BK	44		
55	WD		-K43:21	-Q01:34		WD	1,5	BK	45		
56	WD		-K45:A1	-Q01:98		WD	1,5	BK	46		
57	WD		-H12:x2	-K45:A2		WD	1,5	BK	47		
58	WD		-K01:33	-X4:4	X		1,5	BK	48		
59	WD		-Q01:95	-X4:4			1,5	BK	49		
60	WD		-K01:21	-K43:34		WD	1,5	BK	50		
61	WD		-H12:x1	-K01:34		WD	1,5	BK	51		
62	WD		-H11:x2	-H12:x2		WD	1,5	BK	52		
63	WD		-H11:x1	-K01:22		WD	1,5	BK	53		
64	WD		-H11:x2	-H13:x2		WD	1,5	BK	54		
65	WD		-K43:34	-K45:14		WD	1,5	BK	55		
66	WD		-H13:x1	-K43:31		WD	1,5	BK	56		
67	WD		-K43:31	-K45:11		WD	1,5	BK	57		
68	WD		-K21:21	-S20:43		WD	1,5	RD	58		
69	WD		-K21:24	-N01-X1:1		WD	1,5	RD	59		
70	WD		-K01:43	-S20:43		WD	1,5	RD	60		
71	WD		-N01-X1:2	-S20:44		WD	1,5	RD	61		
72	WD		-K01:43	-S01:5		WD	1,5	RD	62		
73	WD		-K01:44	-N01-X1:3		WD	1,5	RD	63		
74	WD		-N01-X1:4	-Q01:14		WD	1,5	RD	64		
75	WD		-Q01:11	-S6:21		WD	1,5	RD	65		
76	WD		-S01:5	-S6:21		WD	1,5	RD	66		

* 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.TOPAL</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>TREL-DEU-RMG MOTOR CONTROL CENTRE</div> <div>MNS-GEORGIA</div>		<div>Title</div> <div>Module Wire Connection List</div>		<div>Drawing No.</div> <div>4TRD021001C9000</div>		<div>+8821</div>		<div>SIZE</div> <div>A3</div>	
<div>R3V12 06.08.2021</div> <div>Last Revision Date</div>				<div>SCALE</div> <div>1</div>								<div>Project No.</div> <div>K21001</div>		<div>PAGE No.</div> <div>296</div>		<div>REV.</div> <div>297</div>			
<div>Rev.</div> <div>Date</div> <div>Description</div> <div>SIGN</div>																			

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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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Module Wire Connection List		Drawing No. 4TRD021001C9000		+8821 SIZE A3	
R3V12 06.08.2021 Last Revision Date ROV0 11.02.2021 Creation Date Rev. Date Description SIGN				SCALE 1 DESIGNED BY : VINEETHA CHECKED BY : O.TOPAL APPROVED BY : O.YILMAZ						Project No. K21001		PAGE No. 297 CONT. 298		 REV.			

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TERMINAL DIAGRAM

-X4

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
11	-Q01	26 BK	1			/291.2:C
11	-S11	27 BK	2		2	/291.2:C
15	-X10.1	41 BK	3		2	/291.5:B
33	-K01	48 BK	4		95	/291.6:B

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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8821	SIZE A3
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA									Project No. K21001	PAGE No.	298	
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL										CONT.	299	
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ												

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TERMINAL DIAGRAM

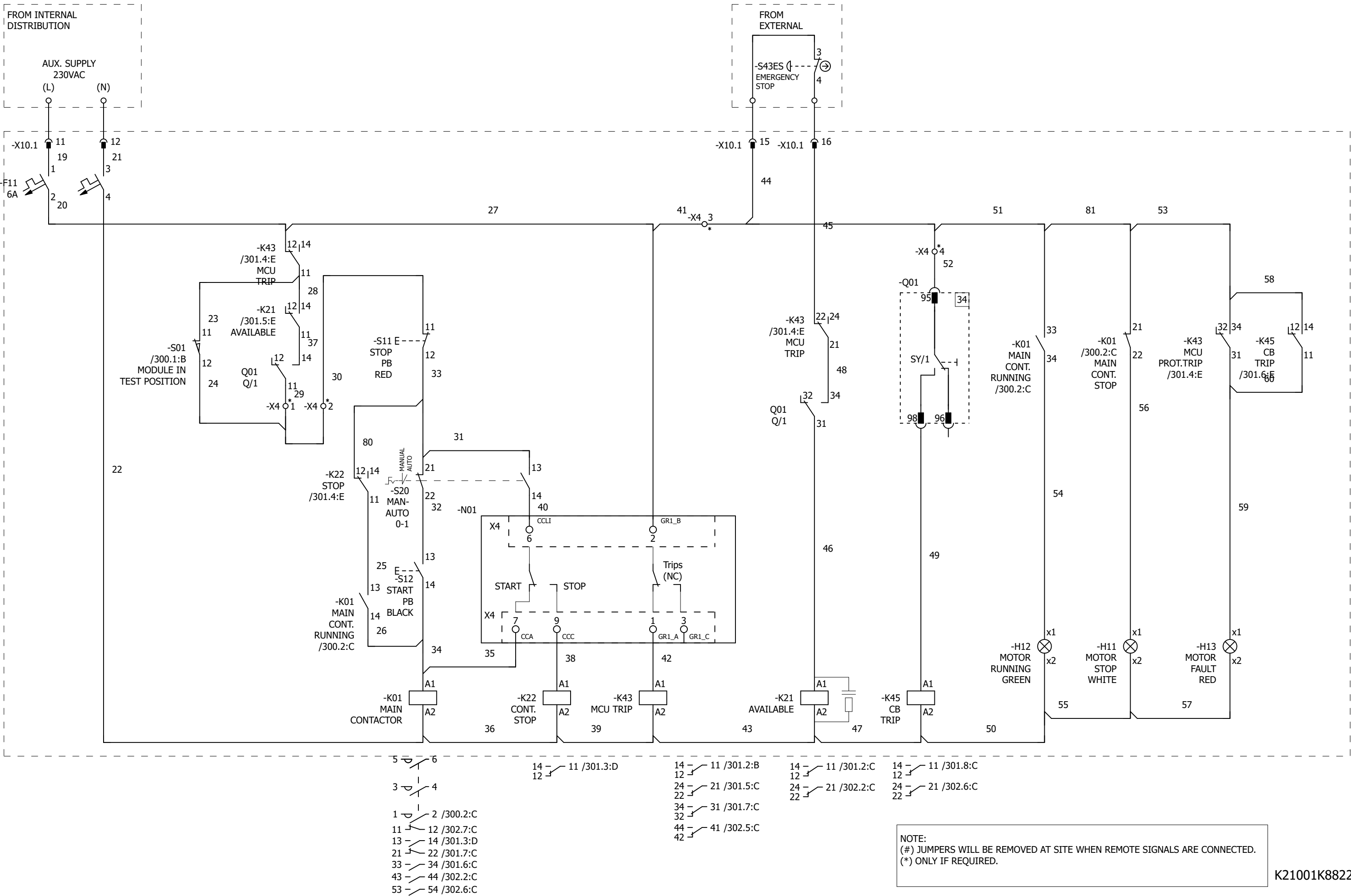
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
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TERMINAL TYPE: WITHDRAWABLE MODULE CONTROL PLUG

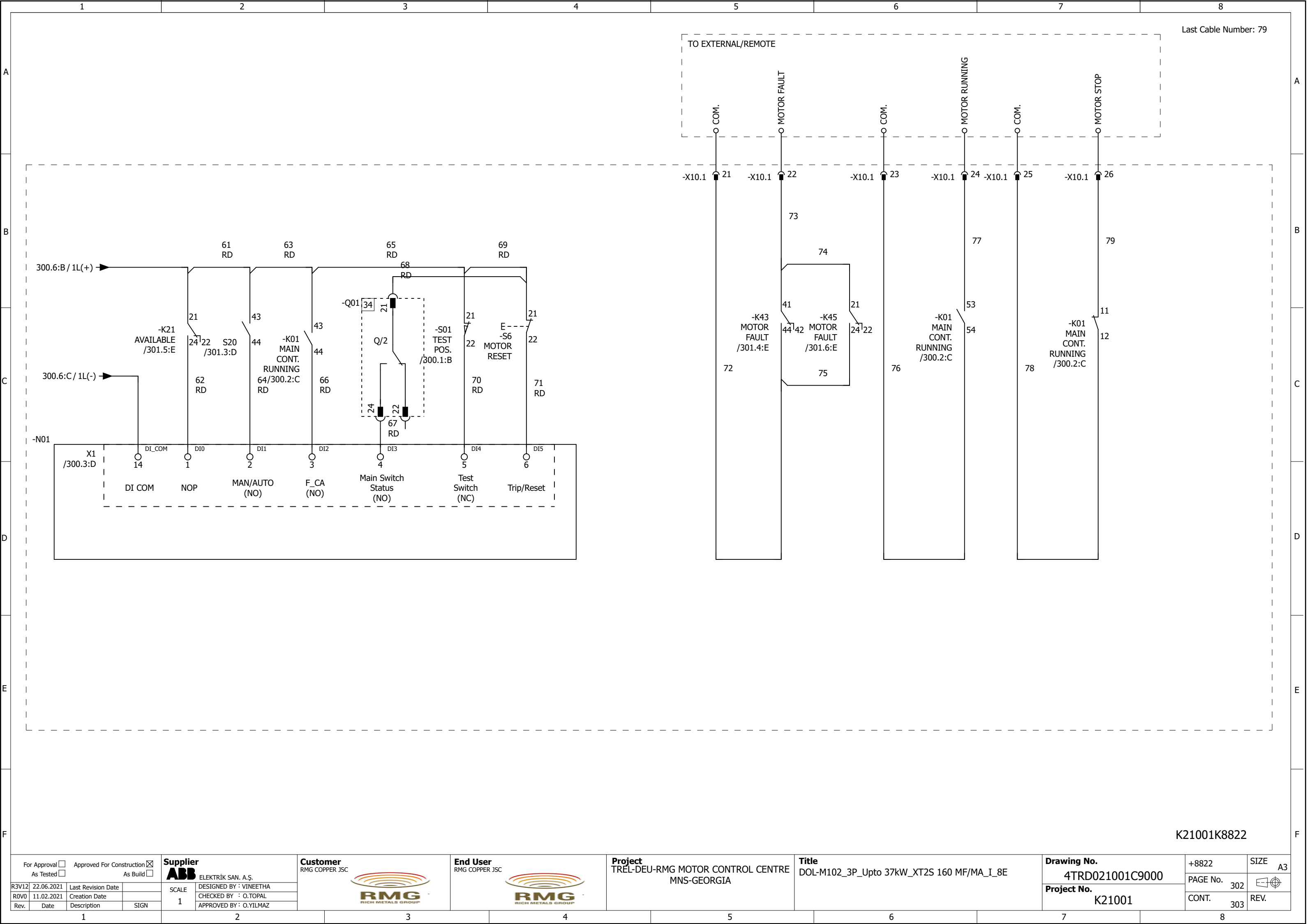
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R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA							Project No. K21001		299 CONT. +8822/300 REV.			
R0V0	11.02.2021	Creation Date	CHECKED BY : O.TOPAL														
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ												




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R3V12	22.06.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA										PAGE No. 301		
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL											CONT. 302	
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ												REV.

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 TRÉL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title DOL-M102_3P_Upto 37kW_XT2S 160 MF/MA_I_8E		Drawing No. 4TRD021001C9000		+8822		SIZE A3		
R3V12	22.06.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA										Project No. K21001		PAGE No.		302	
ROV0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL												CONT.		303	
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ															



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 TRÉL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title DOL-M102_3P_Upto 37kW_XT2S 160 MF/MA_I_8E		Drawing No. 4TRD021001C9000		+8822		SIZE A3		
R3V12	22.06.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA										Project No. K21001		PAGE No.		302	
ROV0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL												CONT.		303	
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ															

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R3V12		30.04.2021		Last Revision Date				SCALE		1		DESIGNED BY : VINEETHA				PAGE No.		303		<div><div></div><div></div></div>											
R0V0		11.02.2021		Creation Date								CHECKED BY : O.TOPAL						CONT.		304											
Rev.		Date		Description		SIGN						APPROVED BY : O.YILMAZ						REV.													
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The diagram illustrates the terminal block wiring for an ABB 8E terminal block. It includes a terminal block layout with terminals S20, S12, S11, H11, and H12. The terminal block is shown with a top view and a side view. The top view shows the terminal block with terminals S20, S12, S11, H11, and H12. The side view shows the terminal block with terminals S20, S12, S11, H11, and H12. The terminal block is shown with a top view and a side view. The top view shows the terminal block with terminals S20, S12, S11, H11, and H12. The side view shows the terminal block with terminals S20, S12, S11, H11, and H12.

Terminal Block Layout:

S20	S12	S11	H11	H12
MANUAL/AUTO SEL. SWITCH	START	STOP	MOTOR STOP	MOTOR RUNNING
BLACK	BLACK	RED	WHITE	GREEN
H13	S6	A01		

Terminal Block Details:

MOTOR FAULT	MOTOR RESET
RED	YELLOW

LED Indicators:

LED 1	LED 2	LED 3	LED 4

Buttons:

NO FUNC.	NO FUNC.	RESET

Menus:

MENUS BUTTONS

ABB 8E

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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	WD		-K01:1	-Q01:2		WD	*	BK			
2	WD		-K01:3	-Q01:4		WD	*	BK			
3	WD		-K01:5	-Q01:6		WD	*	BK			
4	WD		-Q01:1	-X1:U1	X		*	BK			
5	WD		-Q01:3	-X1:V1	X		*	BK			
6	WD		-Q01:5	-X1:W1	X		*	BK			
7			-X10.1:28	-X10.1:29			1,5	BK			
8	WD		-N01-X3:3	-X10.1:19	X		-W01**	SH			#4
9	WD		-N01-X3:4	-X10.1:18	X		-W01**	WH			#4
10	WD		-N01-X3:5	-X10.1:17	X		-W01**	BU			#4
11	WD		-F41:1	-X1:U1	X		*	BK	1		
12	WD		-F42:1	-X1:V1	X		*	BK	2		
13	WD		-F43:1	-X1:W1	X		*	BK	3		
14	WD		-T10:1S1	-T10:1S2		WD	2,5	BK	4		
15	WD		-T10:2S1	-T10:2S2		WD	2,5	BK	5		
16	WD		-T10:3S1	-T10:3S2		WD	2,5	BK	6		
17	WD		-N01-X1:15	-X10.1:28	X		1,5	BK	7		
18	WD		-N01-X1:16	-X10.1:29	X		1,5	BK	8		
19	WD		-F41:2	-N01-X3:13		WD	1,5	BK	9		
20	WD		-F42:2	-N01-X3:11		WD	1,5	BK	10		
21	WD		-F43:2	-N01-X3:9		WD	1,5	BK	11		
22	WD		-F44:1	-X10.1:13	X		1,5	RD	12		
23	WD		-F44:2	-N01-X4:11		WD	1,5	RD	13		
24	WD		-F44:2	-K21:21		WD	1,5	RD	14		
25	WD		-F45:1	-X10.1:14	X		1,5	WH	15		
26	WD		-F45:2	-N01-X4:10		WD	1,5	WH	16		
27	WD		-F45:2	-N01-X1:14		WD	1,5	WH	17		
28	WD		-N01-X4:12	-XE:3		WD	1,5	GNYE	18		
29	WD		-F11:1	-X10.1:11	X		1,5	BK	19		
30	WD		-F11:2	-K43:12		WD	1,5	BK	20		
31	WD		-F11:3	-X10.1:12	X		1,5	BK	21		
32	WD		-F11:4	-K01:A2		WD	1,5	BK	22		
33	WD		-K43:11	-S01:11		WD	1,5	BK	23		
34	WD		-S01:12	-X4:2			1,5	BK	24		
35	WD		-K01:13	-K22:11		WD	1,5	BK	25		
36	WD		-K01:14	-S12:14		IP	1,5	BK	26		
37	WD		-K43:12	-N01-X4:2		WD	1,5	BK	27		
38	WD		-K21:14	-K43:11		WD	1,5	BK	28		

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

<div>For Approval <input type="checkbox"/> As Tested <input type="checkbox"/></div> <div>Last Revision Date <input type="text"/></div> <div>Rev. <input type="text"/> Date <input type="text"/></div>				<div>Approved For Construction <input checked="" type="checkbox"/> As Build <input type="checkbox"/></div> <div>Creation Date <input type="text"/></div> <div>Description <input type="text"/></div> <div>SIGN <input type="text"/></div>		<div>Supplier</div> <div>ABB ELEKTRİK SAN. A.Ş.</div> <div>SCALE 1</div> <div>DESIGNED BY : VINEETHA</div> <div>CHECKED BY : O.TOPAL</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>TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA</div>		<div>Title</div> <div>Module Wire Connection List</div>		<div>Drawing No.</div> <div>4TRD021001C9000</div> <div>Project No.</div> <div>K21001</div>		<div>+8822</div> <div>PAGE No. 305</div> <div>CONT. 306</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
39	WD		-Q01:11	-X4:1	X		1,5	BK	29		
40	IP		-S11:11	-X4:2	X		1,5	BK	30		
41	IP		-S20:13	-S20:21		IP	1,5	BK	31		
42	IP		-S12:13	-S20:22		IP	1,5	BK	32		
43	IP		-S11:12	-S20:21		IP	1,5	BK	33		
44	WD		-K01:A1	-S12:14		IP	1,5	BK	34		
45	WD		-K01:A1	-N01-X4:7		WD	1,5	BK	35		
46	WD		-K01:A2	-K22:A2		WD	1,5	BK	36		
47	WD		-K21:11	-Q01:14		WD	1,5	BK	37		
48	WD		-K22:A1	-N01-X4:9		WD	1,5	BK	38		
49	WD		-K22:A2	-K43:A2		WD	1,5	BK	39		
50	WD		-N01-X4:6	-S20:14		IP	1,5	BK	40		
51	WD		-N01-X4:2	-X4:3			1,5	BK	41		
52	WD		-K43:A1	-N01-X4:1		WD	1,5	BK	42		
53	WD		-K21:A2	-K43:A2		WD	1,5	BK	43		
54		X	-X4:3	-X10.1:15	X		1,5	BK	44		
55	WD		-K43:22	-X10.1:16	X		1,5	BK	45		
56	WD		-K21:A1	-Q01:31		WD	1,5	BK	46		
57	WD		-K21:A2	-K45:A2		WD	1,5	BK	47		
58	WD		-K43:21	-Q01:34		WD	1,5	BK	48		
59	WD		-K45:A1	-Q01:98		WD	1,5	BK	49		
60	IP		-H12:x2	-K45:A2		WD	1,5	BK	50		
61	WD		-K01:33	-X4:4	X		1,5	BK	51		
62	WD		-Q01:95	-X4:4			1,5	BK	52		
63	WD		-K01:21	-K43:34		WD	1,5	BK	53		
64	IP		-H12:x1	-K01:34		WD	1,5	BK	54		
65	IP		-H11:x2	-H12:x2		IP	1,5	BK	55		
66	IP		-H11:x1	-K01:22		WD	1,5	BK	56		
67	IP		-H11:x2	-H13:x2		IP	1,5	BK	57		
68	WD		-K43:34	-K45:14		WD	1,5	BK	58		
69	IP		-H13:x1	-K43:31		WD	1,5	BK	59		
70	WD		-K43:31	-K45:11		WD	1,5	BK	60		
71	WD		-K21:21	-S20:43		IP	1,5	RD	61		
72	WD		-K21:24	-N01-X1:1		WD	1,5	RD	62		
73	WD		-K01:43	-S20:43		IP	1,5	RD	63		
74	WD		-N01-X1:2	-S20:44		IP	1,5	RD	64		
75	WD		-K01:43	-S01:21		WD	1,5	RD	65		
76	WD		-K01:44	-N01-X1:3		WD	1,5	RD	66		

* 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>Customer</div> <div>RMG COPPER JSC</div> <div></div>		<div>End User</div> <div>RMG COPPER JSC</div> <div></div>		<div>Project</div> <div>TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA</div>		<div>Title</div> <div>Module Wire Connection List</div>		<div>Drawing No.</div> <div>4TRD021001C9000</div>		<div>+8822</div>		<div>SIZE</div> <div>A3</div>	
<div>R3V12 06.08.2021 Last Revision Date</div> <div>R0V0 11.02.2021 Creation Date</div> <div>Rev. Date Description SIGN</div>				<div>SCALE</div> <div>1</div>		<div>DESIGNED BY : VINEETHA</div> <div>CHECKED BY : O.TOPAL</div> <div>APPROVED BY: O.YILMAZ</div>								<div>Project No.</div> <div>K21001</div>		<div>PAGE No.</div> <div>306</div>		<div>REV.</div> <div></div>	
1				2		3		4		5		6		7		8			

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

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TERMINAL DIAGRAM

-X4

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
11	-Q01	29 BK	1			/301.2:C
11	-S11	30 BK	2		12	/301.2:C
15	-X10.1	44 BK	3		2	/301.5:B
33	-K01	51 BK	4		95	/301.6:B

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

<div><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 ABB ELEKTRİK SAN. A.Ş.		Customer RMG COPPER JSC		End User RMG COPPER JSC		Project TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8822	SIZE A3
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA								Project No. K21001	PAGE No. 308	CONT. 309	REV. 	
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL												
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ												

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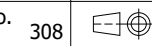
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D

E

F

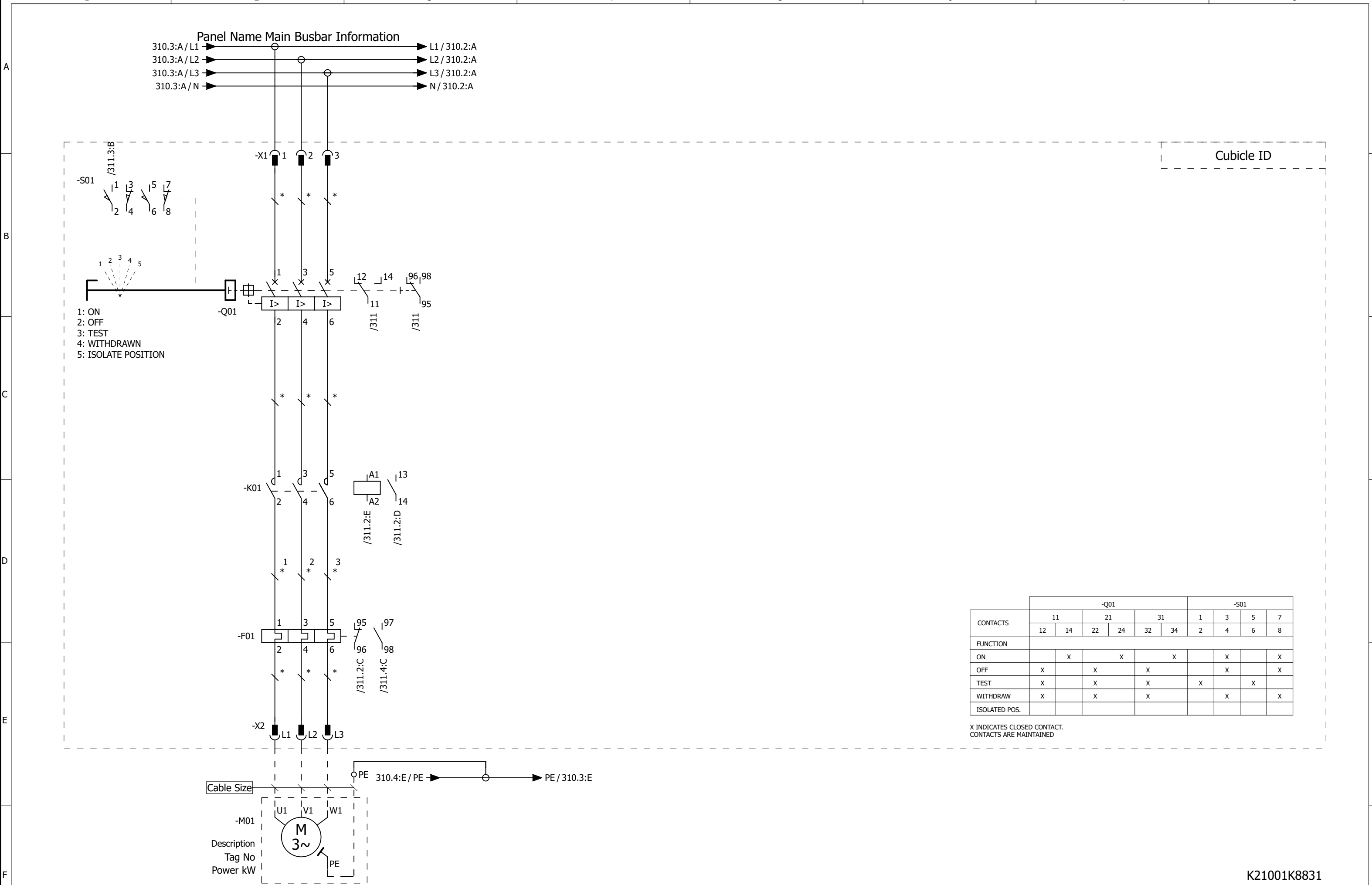


-X10.1

TOTAL TERMINALS COUNT: 20 PCS
TERMINAL TYPE: PLUG PART S8E 1x20P 10-19,20-29

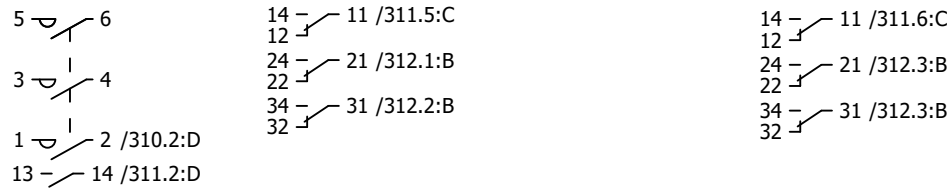
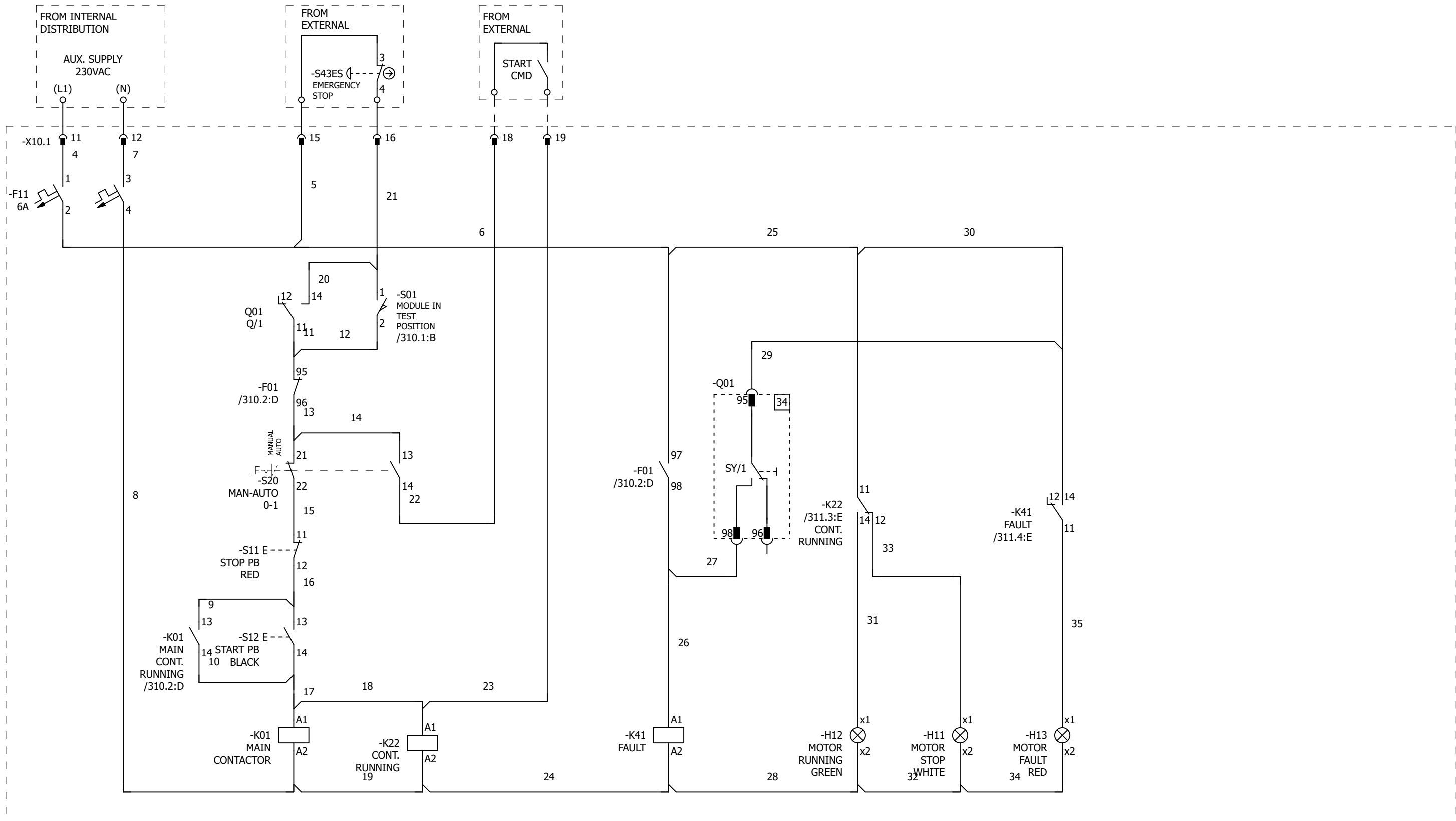
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R3V12 06.08.2021 Last Revision Date ROV0 11.02.2021 Creation Date Rev. Date Description SIGN				SCALE 1		DESIGNED BY : VINEETHA CHECKED BY : O.TOPAL APPROVED BY : O.YILMAZ						Project No. K21001		309		CONT. +8831/310		REV.	

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K21001K8831

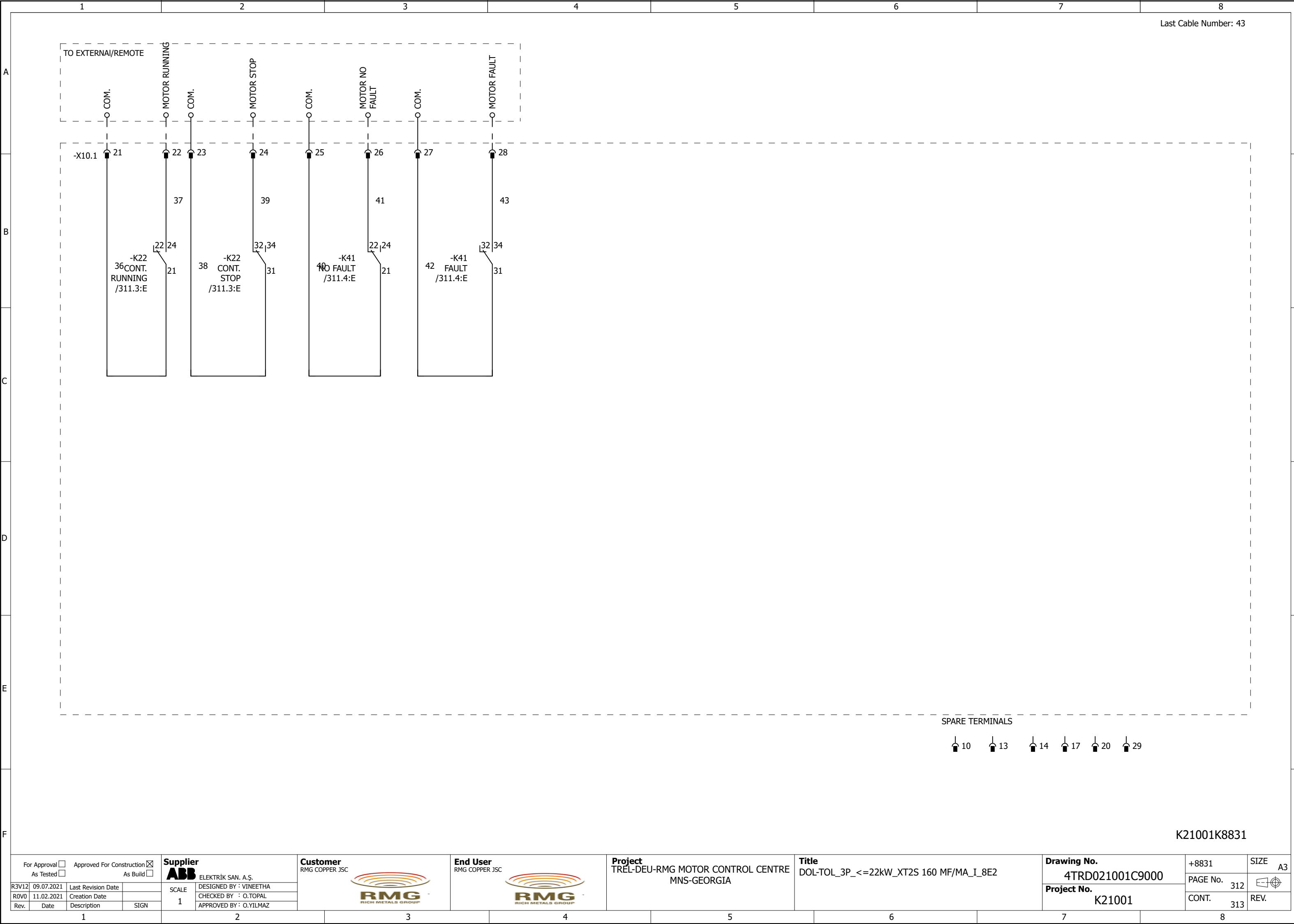
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


K21001K8831

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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title DOL-TOL_3P_<=22kW_XT2S 160 MF/MA_I_8E2		Drawing No. 4TRD021001C9000		+8831	SIZE A3	
R3V12	09.07.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA									Project No. K21001	PAGE No. 311		REV.	
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL													
Rev.	Date	Description	SIGN		APPROVED BY: O.YILMAZ													
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R3V12	09.07.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA									Project No. K21001		PAGE No.	312	
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL											CONT.	313	
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ													REV.
1				2		3		4		5		6		7		8		

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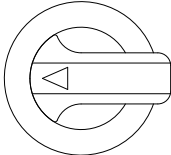
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Tag No




Description (EN)

+LOCATION

○








S20	S12	S11
MANUAL/AUTO SEL. SWITCH	START	STOP
		
BLACK	BLACK	RED

H11	H12	H13
MOTOR STOP	MOTOR RUNNING	MOTOR FAULT
		
WHITE	GREEN	RED

Location

8E2

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R3V12	30.04.2021	Last Revision Date		SCALE	DESIGNED BY : VINEETHA							<div>Project No.</div> <div>K21001</div>		<div>PAGE No.</div> <div>313</div>		<div></div> <div>REV.</div>					
ROV0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL							<div>CONT.</div> <div>314</div>									
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	WD		-K01:1	-Q01:2		WD	*	BK			
2	WD		-K01:3	-Q01:4		WD	*	BK			
3	WD		-K01:5	-Q01:6		WD	*	BK			
4	WD		-F01:1	-K01:2		WD	1,5	BK	1		
5	WD		-F01:3	-K01:4		WD	1,5	BK	2		
6	WD		-F01:5	-K01:6		WD	1,5	BK	3		
7	WD		-F11:1	-X10.1:11	X		1,5	BK	4		
8	WD		-F11:2	-X10.1:15	X		1,5	BK	5		
9	WD		-F01:97	-F11:2		WD	1,5	BK	6		
10	WD		-F11:3	-X10.1:12	X		1,5	BK	7		
11	WD		-F11:4	-K01:A2		WD	1,5	BK	8		
12	WD		-K01:13	-S12:13		WD	1,5	BK	9		
13	WD		-K01:14	-S12:14		WD	1,5	BK	10		
14	WD		-F01:95	-Q01:11		WD	1,5	BK	11		
15	WD		-F01:95	-S01:2		WD	1,5	BK	12		
16	WD		-F01:96	-S20:21		WD	1,5	BK	13		
17	WD		-S20:13	-S20:21		WD	1,5	BK	14		
18	WD		-S11:11	-S20:22		WD	1,5	BK	15		
19	WD		-S11:12	-S12:13		WD	1,5	BK	16		
20	WD		-K01:A1	-S12:14		WD	1,5	BK	17		
21	WD		-K01:A1	-K22:A1		WD	1,5	BK	18		
22	WD		-K01:A2	-K22:A2		WD	1,5	BK	19		
23	WD		-Q01:14	-S01:1		WD	1,5	BK	20		
24	WD		-S01:1	-X10.1:16	X		1,5	BK	21		
25	WD		-S20:14	-X10.1:18	X		1,5	BK	22		
26	WD		-K22:A1	-X10.1:19	X		1,5	BK	23		
27	WD		-K22:A2	-K41:A2		WD	1,5	BK	24		
28	WD		-F01:97	-K22:11		WD	1,5	BK	25		
29	WD		-F01:98	-K41:A1		WD	1,5	BK	26		
30	WD		-F01:98	-Q01:98		WD	1,5	BK	27		
31	WD		-H12:x2	-K41:A2		WD	1,5	BK	28		
32	WD		-K41:14	-Q01:95		WD	1,5	BK	29		
33	WD		-K22:11	-K41:14		WD	1,5	BK	30		
34	WD		-H12:x1	-K22:14		WD	1,5	BK	31		
35	WD		-H11:x2	-H12:x2		WD	1,5	BK	32		
36	WD		-H11:x1	-K22:12		WD	1,5	BK	33		
37	WD		-H11:x2	-H13:x2		WD	1,5	BK	34		
38	WD		-H13:x1	-K41:11		WD	1,5	BK	35		

* 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.TOPAL</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>TREL-DEU-RMG MOTOR CONTROL CENTRE</div> <div>MNS-GEORGIA</div>		<div>Title</div> <div>Module Wire Connection List</div>		<div>Drawing No.</div> <div>4TRD021001C9000</div>		<div>+8831</div>		<div>SIZE</div> <div>A3</div>	
<div>R3V12 06.08.2021</div> <div>Last Revision Date</div>				<div>SCALE</div> <div>1</div>								<div>Project No.</div> <div>K21001</div>		<div>PAGE No.</div> <div>314</div>		<div>REV.</div> <div>315</div>			
<div>Rev.</div> <div>Date</div> <div>Description</div> <div>SIGN</div>																			

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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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Module Wire Connection List		Drawing No. 4TRD021001C9000		+8831 SIZE A3	
R3V12 06.08.2021 Last Revision Date R0V0 11.02.2021 Creation Date Rev. Date Description SIGN				SCALE 1		DESIGNED BY : VINEETHA CHECKED BY : O.TOPAL APPROVED BY : O.YILMAZ		 		Project No. K21001		PAGE No. 315 CONT. 316		 REV.			

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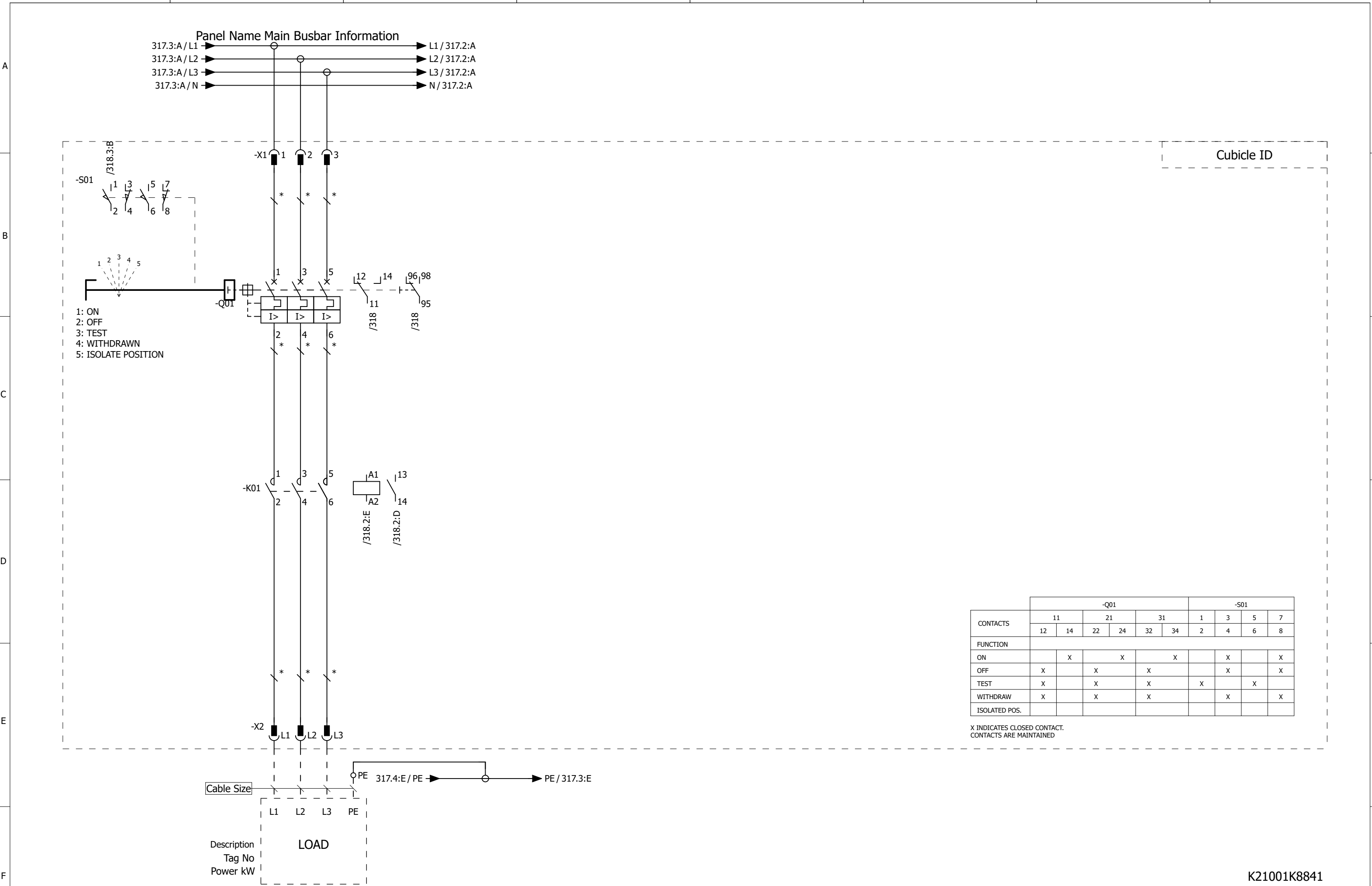
TERMINAL DIAGRAM
-X10.1

DEVICE PIN		DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR		DEVICE DESIGNATION	DEVICE PIN	DEVICE DESIGNATION	DEVICE PIN	PAGE
				10	1					/312.6:E
1		-F11	4 BK	11	1					/311.1:B
3		-F11	7 BK	12	1					/311.1:B
				13	1					/312.7:E
				14	1					/312.7:E
2		-F11	5 BK	15	1					/311.2:B
1		-S01	21 BK	16	1					/311.3:B
				17	1					/312.7:E
14		-S20	22 BK	18	1					/311.3:B
A1		-K22	23 BK	19	1					/311.4:B
				20	1					/312.7:E
21		-K22	36 BK	21	1					/312.1:B
24		-K22	37 BK	22	1					/312.2:B
31		-K22	38 BK	23	1					/312.2:B
32		-K22	39 BK	24	1					/312.2:B
21		-K41	40 BK	25	1					/312.2:B
22		-K41	41 BK	26	1					/312.3:B
31		-K41	42 BK	27	1					/312.3:B
34		-K41	43 BK	28	1					/312.4:B
				29	1					/312.7:E

TOTAL TERMINALS COUNT: 20 PCS
TERMINAL TYPE: WITHDRAWABLE MODULE CONTROL PLUG

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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8831	SIZE A3
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA									Project No. K21001		PAGE No. 316	REV.
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL											CONT. +8841/317	
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ												

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R3V12	30.04.2021	Last Revision Date	
R0V0	11.02.2021	Creation Date	
Rev.	Date	Description	SIGN

Supplier	ABB ELEKTRİK SAN. A.Ş.
Customer	RMG COPPER JSC
End User	RMG COPPER JSC
Project	TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA
Title	CF_3P_<=1.5kW_XT2S 160 TMD 10_AF38_8E2
Drawing No.	4TRD021001C9000
Project No.	K21001

SCALE	1
DESIGNED BY	VINEETHA
CHECKED BY	O.TOPAL
APPROVED BY	O.YILMAZ

Supplier	ABB ELEKTRİK SAN. A.Ş.
Customer	RMG COPPER JSC
End User	RMG COPPER JSC
Project	TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA
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Drawing No.	4TRD021001C9000
Project No.	K21001

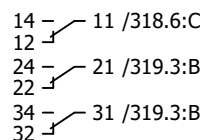
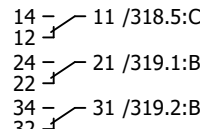
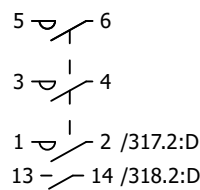
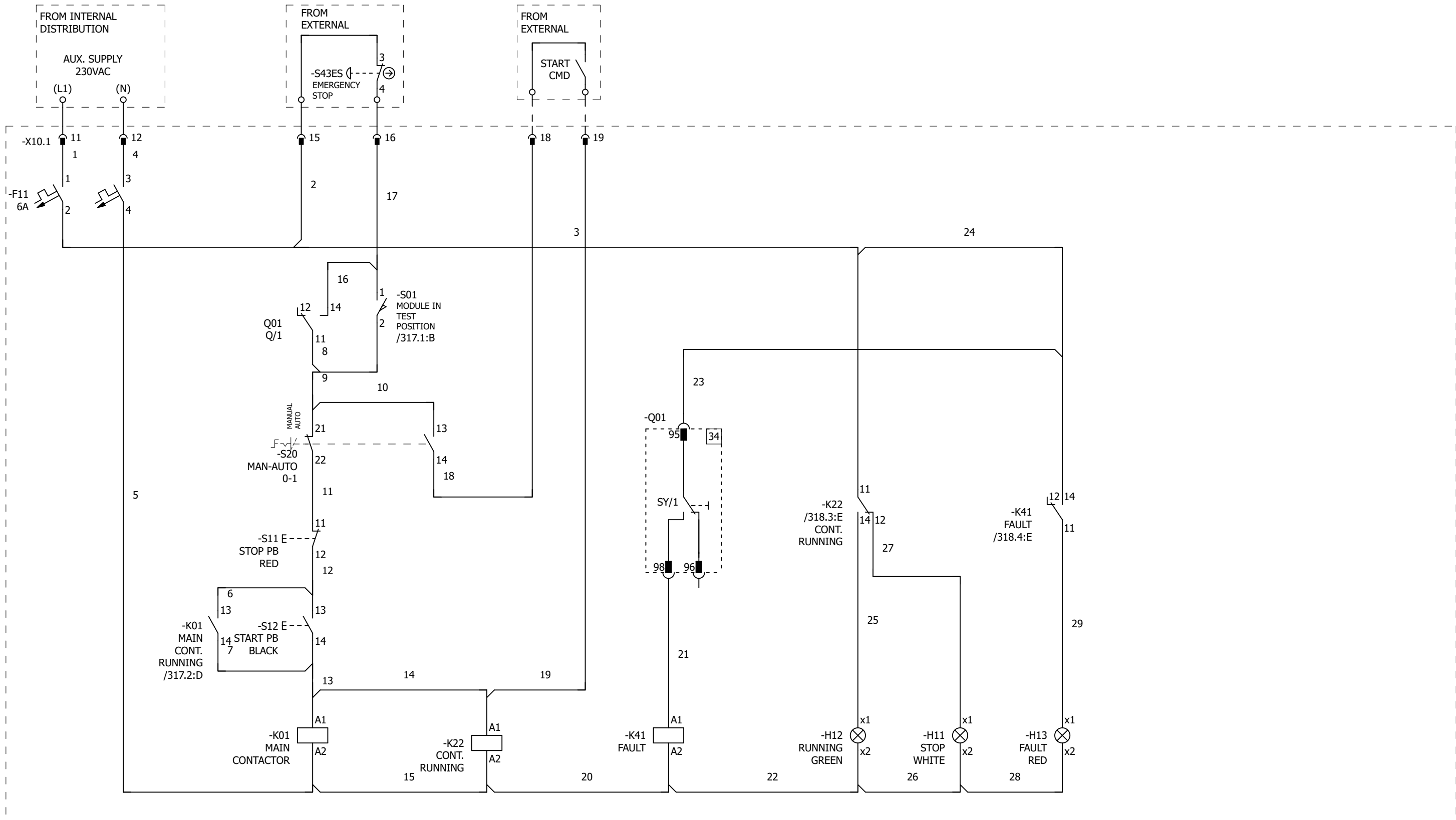
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Drawing No.	4TRD021001C9000
Project No.	K21001

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As Tested	<input type="checkbox"/>	As Build	<input type="checkbox"/>
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R0V0	11.02.2021	Creation Date	
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Supplier	ABB ELEKTRİK SAN. A.Ş.
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Drawing No.	4TRD021001C9000
Project No.	K21001

SCALE	1
DESIGNED BY	: VINEETHA
CHECKED BY	: O.TOPAL
APPROVED BY	: O.YILMAZ

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Title	CF_3P_<=1.5kW_XT2S 160 TMD 10_AF38_8E2
Drawing No.	4TRD021001C9000
Project No.	K21001

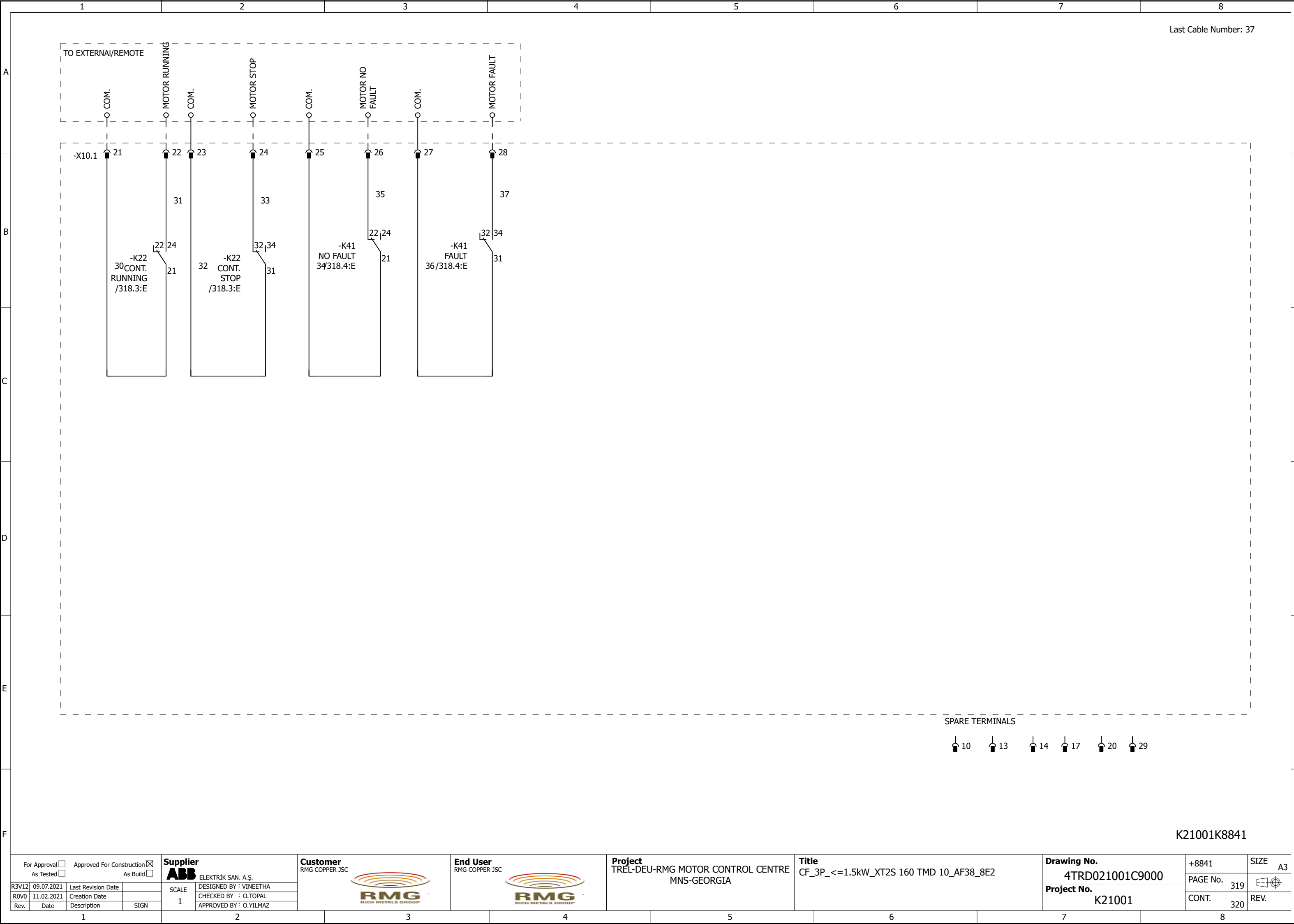
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Drawing No.	4TRD021001C9000
Project No.	K21001







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<div><div>For Approval <input type="checkbox"/> As Tested</div><div>Approved For Construction <input checked="" type="checkbox"/> As Build</div></div>				<div>Supplier</div> <div> ELEKTRİK SAN. A.Ş.</div>		<div>Customer</div> <div>RMG COPPER JSC </div>		<div>End User</div> <div>RMG COPPER JSC </div>		<div>Project</div> <div>TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA</div>		<div>Title</div> <div>CF_3P_<=1.5kW_XT2S 160 TMD 10_AF38_8E2</div>		<div>Drawing No.</div> <div>4TRD021001C9000</div>		+8841	SIZE	A3
R3V12	09.07.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA									Project No. K21001		PAGE No.	319	
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL											CONT.	320	
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ													REV.
1				2		3		4		5		6		7		8		

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1	2	3	4	5	6	7	8	
A								A
B								B
C	<div><div><div>Tag No</div><div>Description (EN)</div><div>+LOCATION</div></div><div></div><div></div></div> <div><div><div>S20 MANUAL/AUTO SEL. SWITCH</div><div>S12 START</div><div>S11 STOP</div></div><div><div>H11 MOTOR STOP</div><div>H12 MOTOR RUNNING</div><div>H13 MOTOR FAULT</div></div><div><div>BLACK</div><div>BLACK</div><div>RED</div><div>WHITE</div><div>GREEN</div><div>RED</div></div></div> <div><div>Location</div><div>8E2</div></div>							

K21001K8841

<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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title CF_3P_<=1.5kW_XT2S 160 TMD 10_AF38_8E2		Drawing No. 4TRD021001C9000		+8841	SIZE A3	
R3V12	30.04.2021	Last Revision Date		SCALE 3	DESIGNED BY : VINEETHA										Project No. K21001		PAGE No. 320	
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL											CONT. 321		
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ											REV.		
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
1	WD		-K01:1	-Q01:2		WD	*	BK			
2	WD		-K01:3	-Q01:4		WD	*	BK			
3	WD		-K01:5	-Q01:6		WD	*	BK			
4	WD		-F11:1	-X10.1:11	X		1,5	BK	1		
5	WD		-F11:2	-X10.1:15	X		1,5	BK	2		
6	WD		-F11:2	-K22:11		WD	1,5	BK	3		
7	WD		-F11:3	-X10.1:12	X		1,5	BK	4		
8	WD		-F11:4	-K01:A2		WD	1,5	BK	5		
9	WD		-K01:13	-S12:13			1,5	BK	6		
10	WD		-K01:14	-S12:14			1,5	BK	7		
11	WD		-Q01:11	-S01:2		WD	1,5	BK	8		
12	WD		-S01:2	-S20:21		WD	1,5	BK	9		
13	WD		-S20:13	-S20:21		WD	1,5	BK	10		
14	WD		-S11:11	-S20:22		WD	1,5	BK	11		
15	WD		-S11:12	-S12:13			1,5	BK	12		
16	WD		-K01:A1	-S12:14			1,5	BK	13		
17	WD		-K01:A1	-K22:A1			1,5	BK	14		
18	WD		-K01:A2	-K22:A2			1,5	BK	15		
19	WD		-Q01:14	-S01:1		WD	1,5	BK	16		
20	WD		-S01:1	-X10.1:16	X		1,5	BK	17		
21	WD		-S20:14	-X10.1:18	X		1,5	BK	18		
22			-K22:A1	-X10.1:19	X		1,5	BK	19		
23			-K22:A2	-K41:A2		WD	1,5	BK	20		
24	WD		-K41:A1	-Q01:98		WD	1,5	BK	21		
25	WD		-H12:x2	-K41:A2		WD	1,5	BK	22		
26	WD		-K41:14	-Q01:95		WD	1,5	BK	23		
27	WD		-K22:11	-K41:14		WD	1,5	BK	24		
28	WD		-H12:x1	-K22:14		WD	1,5	BK	25		
29	WD		-H11:x2	-H12:x2		WD	1,5	BK	26		
30	WD		-H11:x1	-K22:12		WD	1,5	BK	27		
31	WD		-H11:x2	-H13:x2		WD	1,5	BK	28		
32	WD		-H13:x1	-K41:11		WD	1,5	BK	29		
33	WD		-K22:21	-X10.1:21	X		1,5	BK	30		
34	WD		-K22:24	-X10.1:22	X		1,5	BK	31		
35	WD		-K22:31	-X10.1:23	X		1,5	BK	32		
36	WD		-K22:32	-X10.1:24	X		1,5	BK	33		
37			-K41:21	-X10.1:25	X		1,5	BK	34		
38			-K41:22	-X10.1:26	X		1,5	BK	35		

* 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.TOPAL</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>TREL-DEU-RMG MOTOR CONTROL CENTRE</div> <div>MNS-GEORGIA</div>		<div>Title</div> <div>Module Wire Connection List</div>		<div>Drawing No.</div> <div>4TRD021001C9000</div>		<div>+8841</div>		<div>SIZE</div> <div>A3</div>	
<div>R3V12 06.08.2021</div> <div>Last Revision Date</div>				<div>SCALE</div> <div>1</div>								<div>Project No.</div> <div>K21001</div>		<div>PAGE No.</div> <div>321</div>		<div>REV.</div> <div>322</div>			
<div>Rev.</div> <div>Date</div> <div>Description</div> <div>SIGN</div>														<div>CONT.</div>		<div>REV.</div>			

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Approval <input checked="" 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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Module Wire Connection List		Drawing No. +8841		SIZE	
6.08.2021 Last Revision Date 1.02.2021 Creation Date Date Description SIGN			SCALE 1		DESIGNED BY : VINEETHA CHECKED BY : O.TOPAL APPROVED BY : O.YILMAZ						Project No. K21001		322		REV.	
													CONT.		323	

TERMINAL DIAGRAM

-X10.1

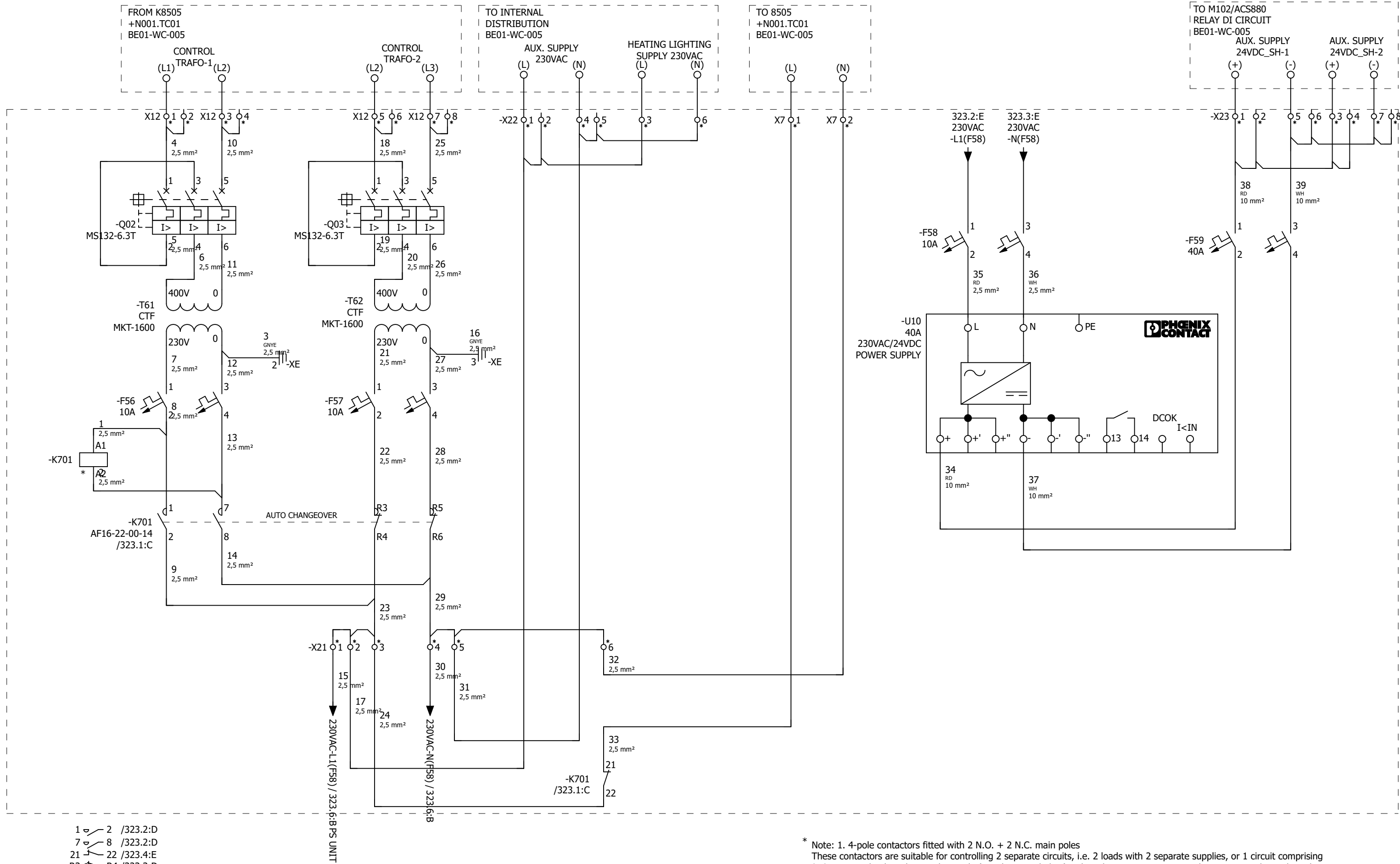
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TOTAL TERMINALS COUNT: 20 PCS
TERMINAL TYPE: WITHDRAWABLE MODULE CONTROL PLUG

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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. +8841		SIZE A3	
R3V12 06.08.2021 Last Revision Date ROV0 11.02.2021 Creation Date Rev. Date Description SIGN				SCALE 1		DESIGNED BY : VINEETHA CHECKED BY : O.TOPAL APPROVED BY : O.YILMAZ						Project No. K21001		PAGE No. 323 CONT. +8901/323		 REV.	

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Last Cable Number: 39



<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>Customer</div> <div>RMG COPPER JSC</div> <div></div>		<div>End User</div> <div>RMG COPPER JSC</div> <div></div>		<div>Project</div> <div>TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA</div>		<div>Title</div> <div>230V CONTROL TRAFO. CIRCUIT_BE001-WC-005_16E</div>		<div>Drawing No.</div> <div>4TRD021001C9000</div>		+8901		SIZE		A3	
R3V12		30.07.2021		Last Revision Date				SCALE		1		DESIGNED BY : VINEETHA		PAGE No.		323					
R0V0		11.02.2021		Creation Date				CHECKED BY : O.TOPAL				APPROVED BY : O.YILMAZ		CONT.		324		REV.			
Rev.		Date		Description		SIGN															

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1	2	3	4	5	6	7	8	
A								A
B								B
C	<div><div><div>Tag No</div><div>Description (EN)</div><div>+LOCATION</div></div><div>LINE NO:</div><div><div></div><div></div></div><div>Location</div><div>16E</div></div>							C
D								D
E								E
F	<div><div><div><div><div><div></div><div>For Approval</div></div><div><div>As Tested</div><div></div></div></div><div><div>Approved For Construction</div><div></div></div><div><div>As Build</div><div></div></div></div><div><div>Supplier</div><div><div><div>ABB</div><div>ELEKTRİK SAN. A.Ş.</div></div><div><div>Customer</div><div>RMG COPPER JSC</div><div><div><div></div><div>RMG</div><div>RICH METALS GROUP</div></div></div><div><div>End User</div><div>RMG COPPER JSC</div><div><div><div></div><div>RMG</div><div>RICH METALS GROUP</div></div></div><div><div>Project</div><div>TREL-DEU-RMG MOTOR CONTROL CENTRE</div><div>MNS-GEORGIA</div></div><div><div>Title</div><div>230V CONTROL TRAFO. CIRCUIT_BE001-WC-005_16E</div></div><div><div>Drawing No.</div><div>4TRD021001C9000</div></div><div><div>Project No.</div><div>K21001</div></div></div><div><div><div>30.04.2021</div><div>Last Revision Date</div><div></div></div><div><div>11.02.2021</div><div>Creation Date</div><div></div></div><div><div>Rev.</div><div>Date</div><div>Description</div><div>SIGN</div></div></div><div><div>SCALE</div><div>3</div><div><div>DESIGNED BY : VINEETHA</div><div>CHECKED BY : O.TOPAL</div><div>APPROVED BY : O.YILMAZ</div></div></div></div><div><div>+8901</div><div>PAGE No.</div><div>324</div><div>CONT.</div><div>325</div></div><div><div>SIZE</div><div>A3</div><div>REV.</div></div></div><div><div>K21001K8901</div></div></div></div></div>							F

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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	PM		-K701:1	-K701:A1			2,5	BK	1		
2	PM		-K701:7	-K701:A2			2,5	BK	2		
3	PM		-T61:0	-XE:2		PM	2,5	GNYE	3		
4	PM		-Q02:1	-X12:1	X		2,5	BK	4		
5	PM		-Q02:2	-Q02:3		PM	2,5	BK	5		
6	PM		-Q02:4	-T61:400V		PM	2,5	BK	6		
7	PM		-F56:1	-T61:230V		PM	2,5	BK	7		
8	PM		-F56:2	-K701:1		PM	2,5	BK	8		
9	PM		-K701:2	-K701:R4		PM	2,5	BK	9		
10	PM		-Q02:5	-X12:3	X		2,5	BK	10		
11	PM		-Q02:6	-T61:0		PM	2,5	BK	11		
12	PM		-F56:3	-T61:0		PM	2,5	BK	12		
13	PM		-F56:4	-K701:7		PM	2,5	BK	13		
14	PM		-K701:8	-K701:R6		PM	2,5	BK	14		
15	LV		-F58:1	-X21:1			2,5	BK	15		
16	PM		-T62:0	-XE:3		PM	2,5	GNYE	16		
17			-X21:2	-X22:1	X		2,5	BK	17		
18	PM		-Q03:1	-X12:5	X		2,5	BK	18		
19	PM		-Q03:2	-Q03:3		PM	2,5	BK	19		
20	PM		-Q03:4	-T62:400V		PM	2,5	BK	20		
21	PM		-F57:1	-T62:230V		PM	2,5	BK	21		
22	PM		-F57:2	-K701:R3		PM	2,5	BK	22		
23	PM		-K701:R4	-X21:3	X		2,5	BK	23		
24	PM		-K701:22	-X21:3			2,5	BK	24		
25	PM		-Q03:5	-X12:7	X		2,5	BK	25		
26	PM		-Q03:6	-T62:0		PM	2,5	BK	26		
27	PM		-F57:3	-T62:0		PM	2,5	BK	27		
28	PM		-F57:4	-K701:R5		PM	2,5	BK	28		
29	PM		-K701:R6	-X21:4	X		2,5	BK	29		
30	LV		-F58:3	-X21:4			2,5	BK	30		
31			-X21:5	-X22:4	X		2,5	BK	31		
32		X	-X7:2	-X21:6			2,5	BK	32		
33	PM		-K701:21	-X7:1	X		2,5	BK	33		
34	LV		-F59:2	-U10:+			10	RD	34		
35	LV		-F58:2	-U10:L			2,5	RD	35		
36	LV		-F58:4	-U10:N			2,5	WH	36		
37	LV		-F59:4	-U10:-			10	WH	37		
38	LV		-F59:1	-X23:1	X		10	RD	38		

* According to Engineering Guideline ** Shielded Cable (BELDEN 9841NH) *** Silicone insulated K21001K8901

<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.TOPAL</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>TREL-DEU-RMG MOTOR CONTROL CENTRE</div> <div>MNS-GEORGIA</div>		<div>Title</div> <div>Module Wire Connection List</div>		<div>Drawing No.</div> <div>4TRD021001C9000</div>		<div>+8901</div>		<div>SIZE</div> <div>A3</div>	
<div>R3V12 06.08.2021</div> <div>Last Revision Date</div>				<div>SCALE</div> <div>1</div>								<div>Project No.</div> <div>K21001</div>		<div>PAGE No.</div> <div>325</div>		<div>REV.</div> <div>326</div>			
<div>Rev. 0</div> <div>Date</div>				<div>Creation Date</div> <div>SIGN</div>										<div>CONT.</div> <div>326</div>		<div>REV.</div>			

Module Wire List

[illegible]

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

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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Module Wire Connection List		Drawing No. +8901		SIZE A3	
R3V12 06.08.2021 Last Revision Date ROVO 11.02.2021 Creation Date Rev. Date Description SIGN				SCALE 1		DESIGNED BY : VINEETHA CHECKED BY : O.TOPAL APPROVED BY : O.YILMAZ						Project No. K21001		PAGE No. 326 CONT. 327		 REV.	

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TERMINAL DIAGRAM

X7

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
21	-K701	33 BK	•			/323.5:A
6	-X21	32 BK	•			/323.5:A

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

<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>TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA</div>		<div>Title</div> <div>Terminal Connection Diagram</div>		<div>Drawing No.</div> <div>4TRD021001C9000</div>		<div>+8901</div>		<div>SIZE</div> <div>A3</div>	
R3V12 06.08.2021 Last Revision Date				<div>SCALE</div> <div>1</div>		DESIGNED BY : VINEETHA						PAGE No.		327					
R0V0 11.02.2021 Creation Date						CHECKED BY : O.TOPAL						CONT.		328					
Rev. Date Description SIGN						APPROVED BY : O.YILMAZ								REV.					

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TERMINAL DIAGRAM

X12

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR		POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
1	-Q02			1			/323.2:A
				2			/323.2:A
5	-Q02			3			/323.2:A
				6			/323.3:A
1	-Q03			5			/323.3:A
				4			/323.2:A
5	-Q03			7			/323.3:A
				8			/323.3:A

TOTAL TERMINALS COUNT: 8 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  ELEKTRİK SAN. A.Ş.		Customer RMG COPPER JSC 		End User RMG COPPER JSC 		Project TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8901		SIZE A3	
R3V12 06.08.2021 Last Revision Date ROV0 11.02.2021 Creation Date Rev. Date Description SIGN				SCALE 1		DESIGNED BY : VINEETHA CHECKED BY : O.TOPAL APPROVED BY : O.YILMAZ						Project No. K21001		PAGE No. 328					
												CONT. 329		REV.					

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TERMINAL DIAGRAM

-X21

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	1	2	3	4	5	6	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
			●	1	15 BK	●				-F58	1	/323.2:E
			●	2	17 BK	●				-X22	1	/323.3:E
R4	-K701	23 BK	●	3	24 BK					-K701	22	/323.3:E
R6	-K701	29 BK	●	4	30 BK	●				-F58	3	/323.3:E
			●	5	31 BK	●				-X22	4	/323.3:E
			●	6	32 BK	●				-X7	2	/323.4:E

TOTAL TERMINALS COUNT: 6 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	-X21	17 BK	1			/323.4:A
			2			/323.4:A
			3			/323.4:A
5	-X21	31 BK	4			/323.4:A
			5			/323.4:A
			6			/323.4:A

TOTAL TERMINALS COUNT: 6 PCS
TERMINAL TYPE: Feed-through terminal block - PT 4

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TERMINAL DIAGRAM

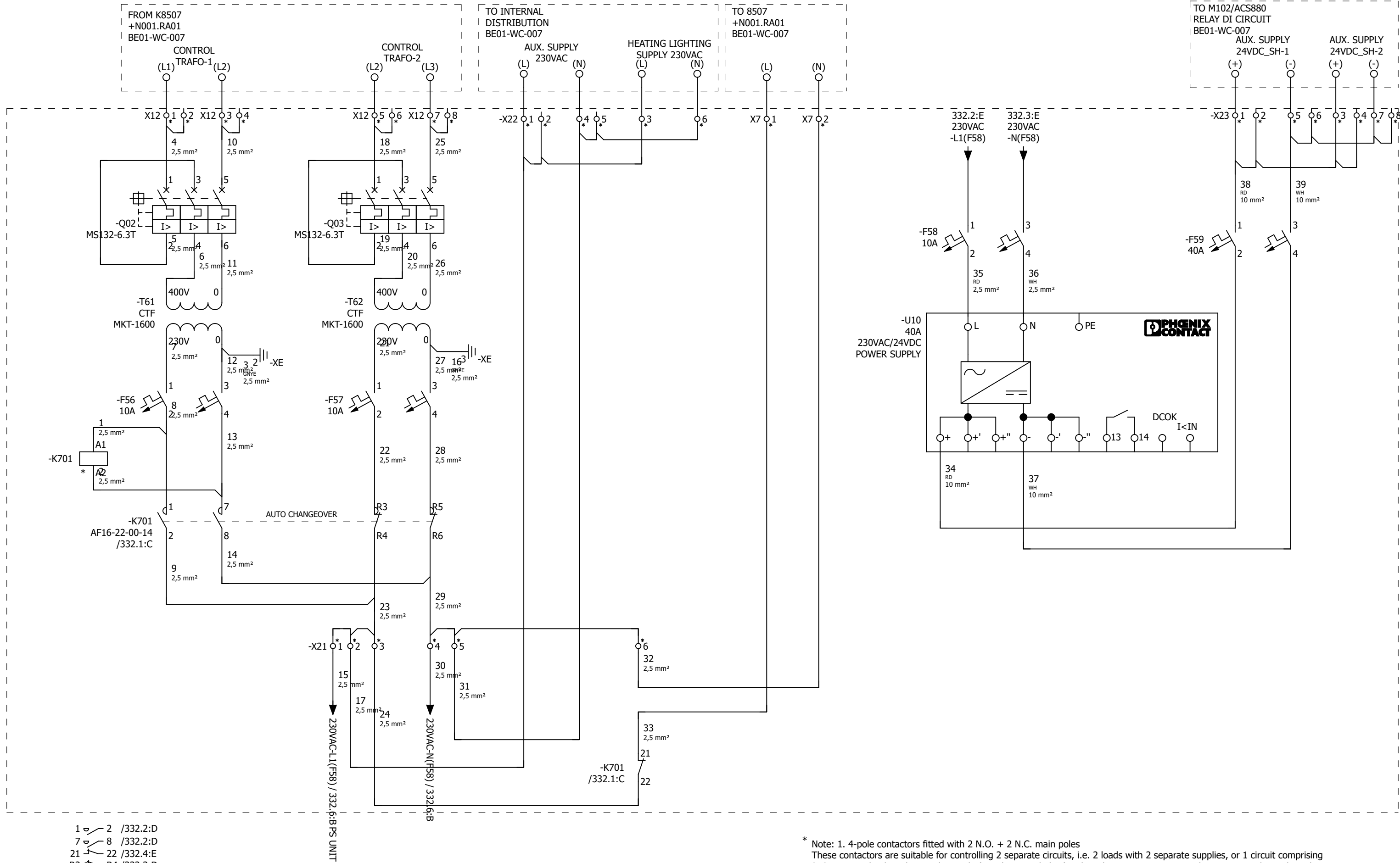
-X23







DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	1	2	3	4	5	6	7	8	DEVICE DESIGNATION	DEVICE PIN	PAGE
1	-F59	38 RD		●	1	●	2	●	3	●	4			/323.7:A
														/323.8:A
														/323.8:A
														/323.8:A
3	-F59	39 WH		●	5	●	6	●	7	●	8			/323.8:A
														/323.8:A
														/323.8:A
														/323.8:A

TOTAL TERMINALS COUNT: 8 PCS
TERMINAL TYPE: Feed-through terminal block - UT 16

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Last Cable Number: 39



<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>Customer</div> <div>RMG COPPER JSC</div> <div></div>		<div>End User</div> <div>RMG COPPER JSC</div> <div></div>		<div>Project</div> <div>TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA</div>		<div>Title</div> <div>230V CONTROL TRAFO. CIRCUIT_BE001-WC-007_16E</div>		<div>Drawing No.</div> <div>4TRD021001C9000</div>		<div>+8902</div> <div>SIZE</div> <div>A3</div>			
R3V12	30.07.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA									Project No.	PAGE No.	332		REV.	
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL														
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ														
1		2		3				4		5		6		7		8			9

K21001K8902

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A								A
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D								D
E								E
F								F

Tag No

Description (EN)

+LOCATION

LINE NO:

Location
16E

K21001K8902

<div><div><div>For Approval <input type="checkbox"/></div><div>As Tested <input type="checkbox"/></div></div><div><div>Approved For Construction <input checked="" type="checkbox"/></div><div>As Build <input type="checkbox"/></div></div></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>TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA</div>		<div>Title</div> <div>230V CONTROL TRAFO. CIRCUIT_BE001-WC-007_16E</div>		<div>Drawing No.</div> <div>4TRD021001C9000</div>		<div>+8902</div>		<div>SIZE</div> <div>A3</div>	
R3V12		30.04.2021		Last Revision Date				SCALE		3		DESIGNED BY : VINEETHA							
R0V0		11.02.2021		Creation Date				CHECKED BY : O.TOPAL				APPROVED BY : O.YILMAZ							
Rev.		Date		Description		SIGN						CONT.		REV.					
1								2				3							
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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		X	-X12:3	-X12:4	X		1,5	BK			
2	PM		-K701:1	-K701:A1			2,5	BK	1		
3	PM		-K701:7	-K701:A2			2,5	BK	2		
4	PM		-T61:0	-XE:2		PM	2,5	GNYE	3		
5	PM		-Q02:1	-X12:1	X		2,5	BK	4		
6	PM		-Q02:2	-Q02:3		PM	2,5	BK	5		
7	PM		-Q02:4	-T61:400V		PM	2,5	BK	6		
8	PM		-F56:1	-T61:230V		PM	2,5	BK	7		
9	PM		-F56:2	-K701:1		PM	2,5	BK	8		
10	PM		-K701:2	-K701:R4		PM	2,5	BK	9		
11	PM		-Q02:5	-X12:3	X		2,5	BK	10		
12	PM		-Q02:6	-T61:0		PM	2,5	BK	11		
13	PM		-F56:3	-T61:0		PM	2,5	BK	12		
14	PM		-F56:4	-K701:7		PM	2,5	BK	13		
15	PM		-K701:8	-K701:R6		PM	2,5	BK	14		
16	LV		-F58:1	-X21:1			2,5	BK	15		
17	PM		-T62:0	-XE:3		PM	2,5	GNYE	16		
18			-X21:2	-X22:1	X		2,5	BK	17		
19	PM		-Q03:1	-X12:5	X		2,5	BK	18		
20	PM		-Q03:2	-Q03:3		PM	2,5	BK	19		
21	PM		-Q03:4	-T62:400V		PM	2,5	BK	20		
22	PM		-F57:1	-T62:230V		PM	2,5	BK	21		
23	PM		-F57:2	-K701:R3		PM	2,5	BK	22		
24	PM		-K701:R4	-X21:3	X		2,5	BK	23		
25	PM		-K701:22	-X21:3			2,5	BK	24		
26	PM		-Q03:5	-X12:7	X		2,5	BK	25		
27	PM		-Q03:6	-T62:0		PM	2,5	BK	26		
28	PM		-F57:3	-T62:0		PM	2,5	BK	27		
29	PM		-F57:4	-K701:R5		PM	2,5	BK	28		
30	PM		-K701:R6	-X21:4	X		2,5	BK	29		
31	LV		-F58:3	-X21:4			2,5	BK	30		
32			-X21:5	-X22:4	X		2,5	BK	31		
33		X	-X7:2	-X21:6			2,5	BK	32		
34	PM		-K701:21	-X7:1	X		2,5	BK	33		
35	LV		-F59:2	-U10:+			10	RD	34		
36	LV		-F58:2	-U10:L			2,5	RD	35		
37	LV		-F58:4	-U10:N			2,5	WH	36		
38	LV		-F59:4	-U10:-			10	WH	37		

* According to Engineering Guideline




** Shielded Cable (BELDEN 9841NH)

*** Silicone insulated

K21001K8902

<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.TOPAL</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>TREL-DEU-RMG MOTOR CONTROL CENTRE</div> <div>MNS-GEORGIA</div>		<div>Title</div> <div>Module Wire Connection List</div>		<div>Drawing No.</div> <div>4TRD021001C9000</div>		<div>+8902</div>		<div>SIZE</div> <div>A3</div>	
<div>R3V12 06.08.2021</div> <div>Last Revision Date</div>				<div>SCALE</div> <div>1</div>								<div>Project No.</div> <div>K21001</div>		<div>PAGE No.</div> <div>334</div>		<div>REV.</div> <div>335</div>			
<div>Rev. 0</div> <div>Date 11.02.2021</div> <div>Description</div> <div>SIGN</div>																			

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Approval <input type="checkbox"/> Approved For Construction <input checked="" type="checkbox"/> s 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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Module Wire Connection List		Drawing No. 4TRD021001C9000		+8902 SIZE A3	
6.08.2021 Last Revision Date 1.02.2021 Creation Date Date Description SIGN			SCALE 1 DESIGNED BY : VINEETHA CHECKED BY : O.TOPAL APPROVED BY : O.YILMAZ								Project No. K21001		PAGE No. 335 CONT. 336		 REV.	

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TERMINAL DIAGRAM

X7

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
21	-K701	33 BK	•			/332.5:A
6	-X21	32 BK	•			/332.5:A

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

<div><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>	<div><div>Supplier</div><div> ELEKTRİK SAN. A.Ş.</div></div>	<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>TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA</div></div>	<div><div>Title</div><div>Terminal Connection Diagram</div></div>	<div><div>Drawing No.</div><div>4TRD021001C9000</div></div>	<div><div>+8902</div><div>SIZE A3</div></div>
<div><div>R3V12</div><div>06.08.2021</div><div>Last Revision Date</div><div></div></div>	<div><div>SCALE</div><div>1</div></div>	<div><div>DESIGNED BY : VINEETHA</div></div>	<div><div>Customer</div><div>RMG COPPER JSC </div></div>	<div><div>Project</div><div>TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA</div></div>	<div><div>Title</div><div>Terminal Connection Diagram</div></div>	<div><div>Drawing No.</div><div>4TRD021001C9000</div></div>	<div><div>+8902</div><div>SIZE A3</div></div>
<div><div>R0V0</div><div>11.02.2021</div><div>Creation Date</div><div></div></div>	<div><div>SCALE</div><div>1</div></div>	<div><div>CHECKED BY : O.TOPAL</div></div>	<div><div>Customer</div><div>RMG COPPER JSC </div></div>	<div><div>Project</div><div>TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA</div></div>	<div><div>Title</div><div>Terminal Connection Diagram</div></div>	<div><div>Drawing No.</div><div>4TRD021001C9000</div></div>	<div><div>+8902</div><div>SIZE A3</div></div>
<div><div>Rev.</div><div>Date</div><div>Description</div><div>SIGN</div></div>	<div><div>SCALE</div><div>1</div></div>	<div><div>APPROVED BY : O.YILMAZ</div></div>	<div><div>Customer</div><div>RMG COPPER JSC </div></div>	<div><div>Project</div><div>TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA</div></div>	<div><div>Title</div><div>Terminal Connection Diagram</div></div>	<div><div>Drawing No.</div><div>4TRD021001C9000</div></div>	<div><div>+8902</div><div>SIZE A3</div></div>

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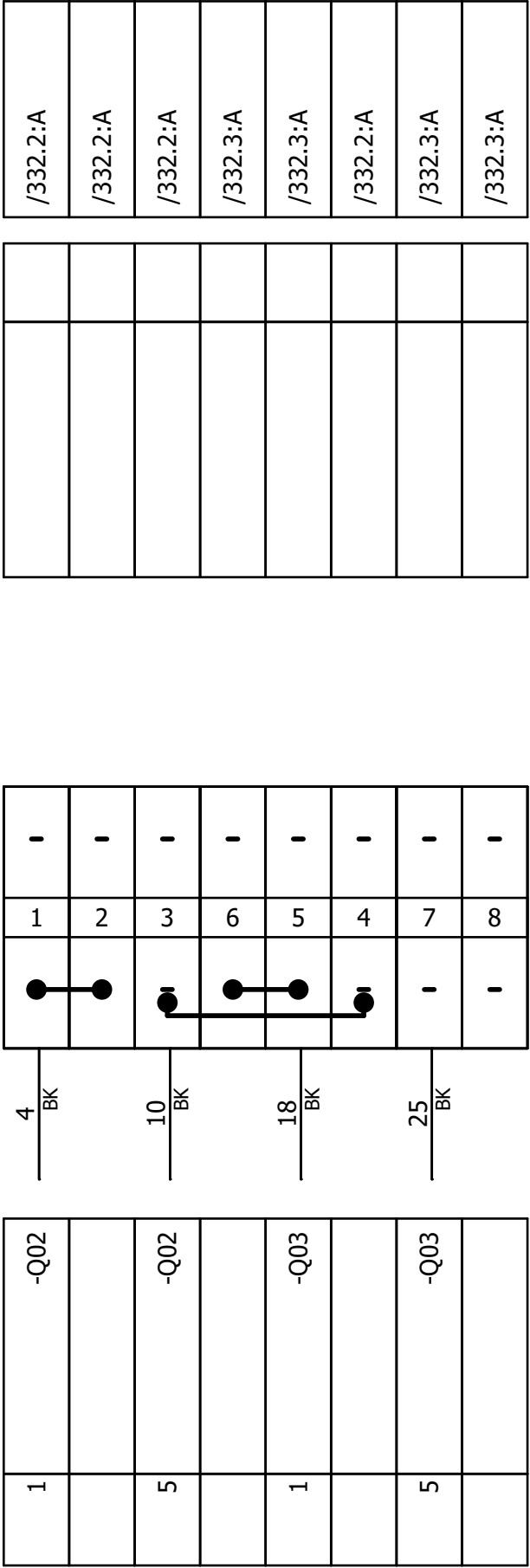
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TERMINAL DIAGRAM

X12



TOTAL TERMINALS COUNT: 8 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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8902		SIZE A3	
R3V12 06.08.2021 Last Revision Date ROV0 11.02.2021 Creation Date Rev. Date Description SIGN				SCALE 1		DESIGNED BY : VINEETHA CHECKED BY : O.TOPAL APPROVED BY : O.YILMAZ						Project No. K21001		PAGE No. 337 CONT. 338		 REV.			

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TERMINAL DIAGRAM

-X21

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	1	2	3	4	5	6	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
			●	1	15 BK	●				-F58	1	/332.2:E
			●	2	17 BK	●				-X22	1	/332.3:E
R4	-K701	23 BK	●	3	24 BK					-K701	22	/332.3:E
R6	-K701	29 BK	●	4	30 BK	●				-F58	3	/332.3:E
			●	5	31 BK	●				-X22	4	/332.3:E
			●	6	32 BK	●				-X7	2	/332.4:E

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

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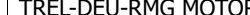


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TERMINAL DIAGRAM

-X22

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
2	-X21	17 BK	1			/332.4:A
			2			/332.4:A
			3			/332.4:A
5	-X21	31 BK	4			/332.4:A
			5			/332.4:A
			6			/332.4:A

TOTAL TERMINALS COUNT: 6 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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8902	SIZE A3	
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA													Project No. K21001	PAGE No.	339		
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL														CONT.	340		REV.
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ																	
1				2			3		4		5		6		7		8		9		10	

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
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TERMINAL DIAGRAM

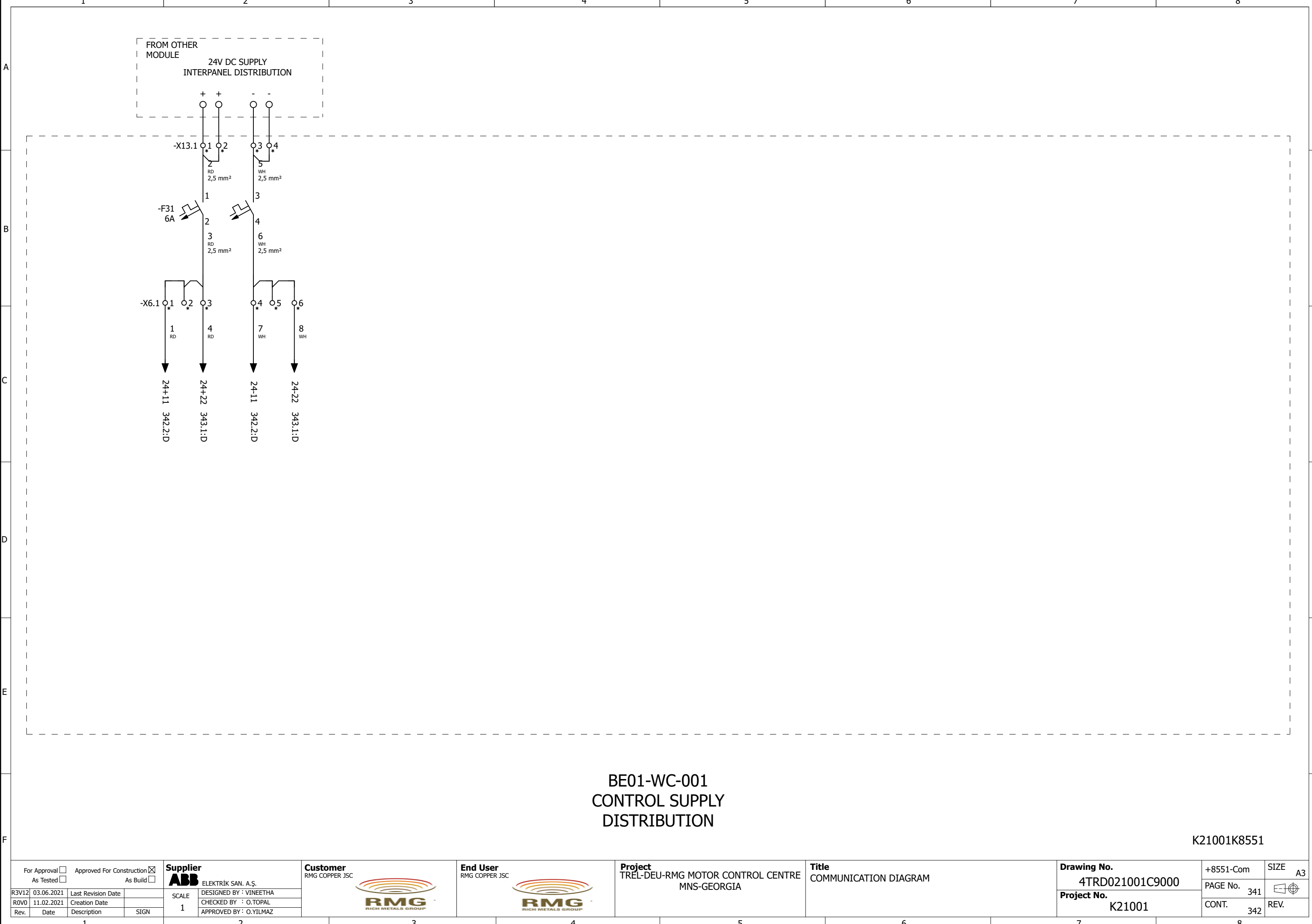
-X23

DEVICE		POTENTIAL/ COLOR	POTENTIAL/ COLOR		DEVICE DESIGNATION	DEVICE PIN	PAGE
PIN	DESIGNATION						
1	-F59	38 RD	1	1			/332.7:A
			2	1			/332.8:A
			3	1			/332.8:A
			4	1			/332.8:A
3	-F59	39 WH	5	1			/332.8:A
			6	1			/332.8:A
			7	1			/332.8:A
			8	1			/332.8:A

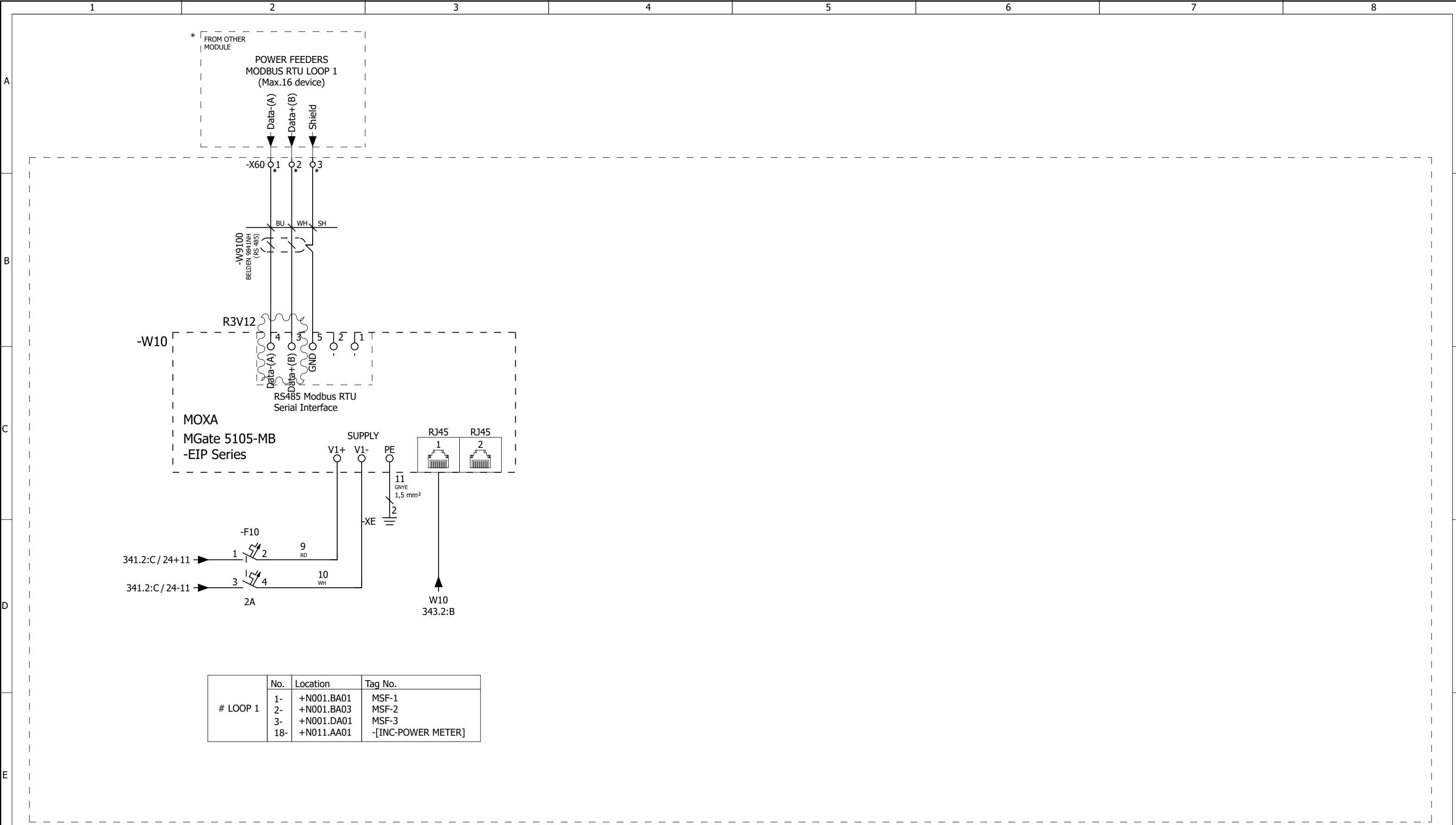
TOTAL TERMINALS COUNT: 8 PCS
TERMINAL TYPE: Feed-through terminal block - UT 16

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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8902	SIZE A3
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA									Project No. K21001		PAGE No. 340	
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL											CONT. +8551-Com/341	
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ											REV.	

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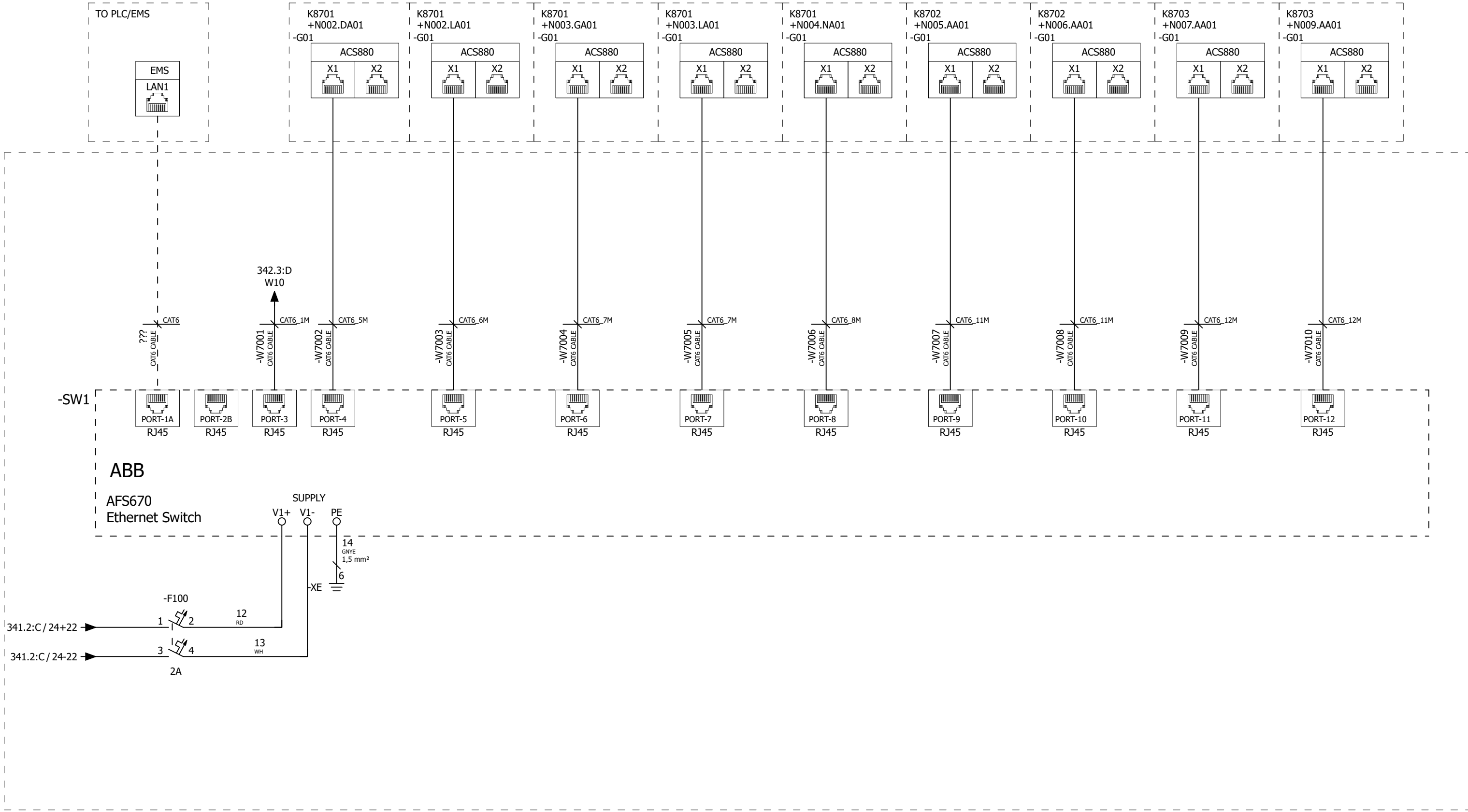


BE01-WC-001
MOTOR FEEDERS
MODBUS COMMUNICATION

K21001K8551




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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title COMMUNICATION DIAGRAM		Drawing No. 4TRD021001C9000		+8551-Com	SIZE A3
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA									Project No. K21001	PAGE No. 342	CONT. 343	REV.
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL												
Rev.	Date	Description	SIGN		APPROVED BY: O.YILMAZ												
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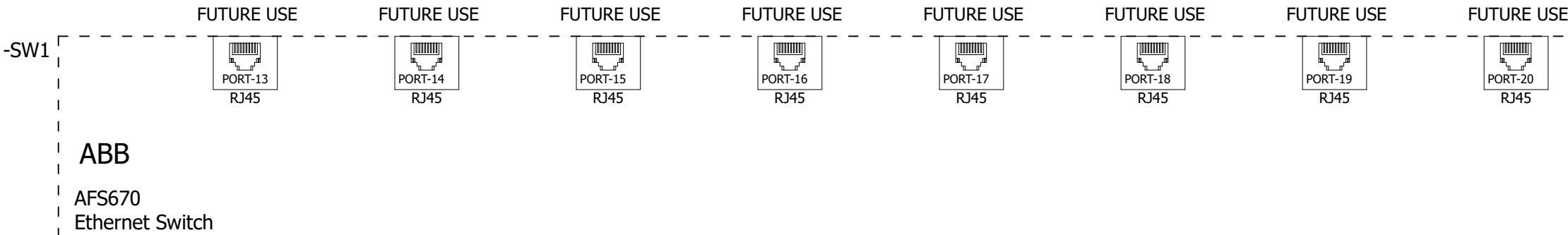
BE01-WC-001
NETWORK SWITCH

K21001K8551

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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title COMMUNICATION DIAGRAM		Drawing No. 4TRD021001C9000		+8551-Com		SIZE A3	
R3V12	03.06.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA													Project No. K21001		PAGE No.	343		REV.
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL															CONT.	344		
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ																		


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Last Cable Number: 14

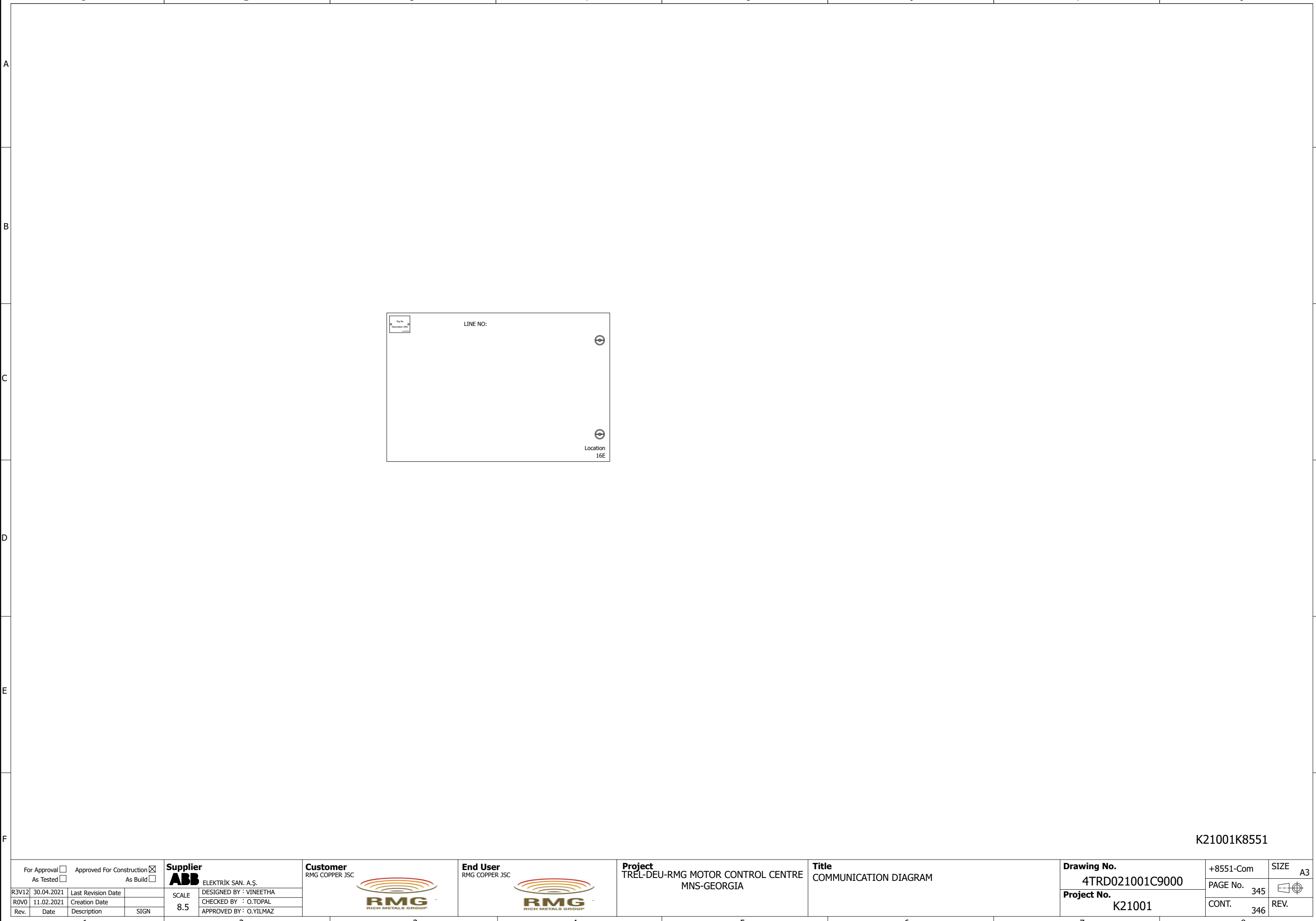





BE01-WC-001
NETWORK SWITCH

K21001K8551

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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title COMMUNICATION DIAGRAM		Drawing No. 4TRD021001C9000		+8551-Com		SIZE A3	
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R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL																		
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ																		




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R0V0		11.02.2021		Creation Date														<div>CONT.</div> <div>346</div>		<div>REV.</div>	
Rev.		Date		Description		SIGN															

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Approval <input checked="" 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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Module Wire Connection List		Drawing No. 4TRD021001C9000		+8551-Com SIZE A3	
06.08.2021 Last Revision Date 11.02.2021 Creation Date Date Description SIGN			SCALE 1 DESIGNED BY : VINEETHA CHECKED BY : O.TOPAL APPROVED BY : O.YILMAZ								Project No. K21001		PAGE No. 346 CONT. 347		 REV.	

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TERMINAL DIAGRAM

-X6.1

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
1	-F10	1 RD	●	1		/341.2:B
			●	2		/341.2:B
1	-F100	4 RD	●	3	2	/341.2:B
3	-F10	7 WH	●	4	4	/341.2:B
			●	5		/341.2:B
3	-F100	8 WH	●	6		/341.2:B

TOTAL TERMINALS COUNT: 6 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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8551-Com	SIZE A3
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA														PAGE No.	347	
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL																
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ															CONT.	

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TERMINAL DIAGRAM
-X13.1

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
1	-F31	2 RD	1 •			/341.2:A
			2 •			/341.2:A
3	-F31	5 WH	3 •			/341.2:A
			4 •			/341.2: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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8551-Com		SIZE A3									
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA														PAGE No.		348										
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL														CONT.		349										
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ														REV.												
1				2				3				4				5				6				7				8			




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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		/342.2:A
3	-W10	WH	2	2		/342.2:A
5	-W10	SH	3	3		/342.2:A

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




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R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA														PAGE No. 349															
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL																													
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ														CONT. +8552-Com/350															
1				2				3				4				5				6				7				8						

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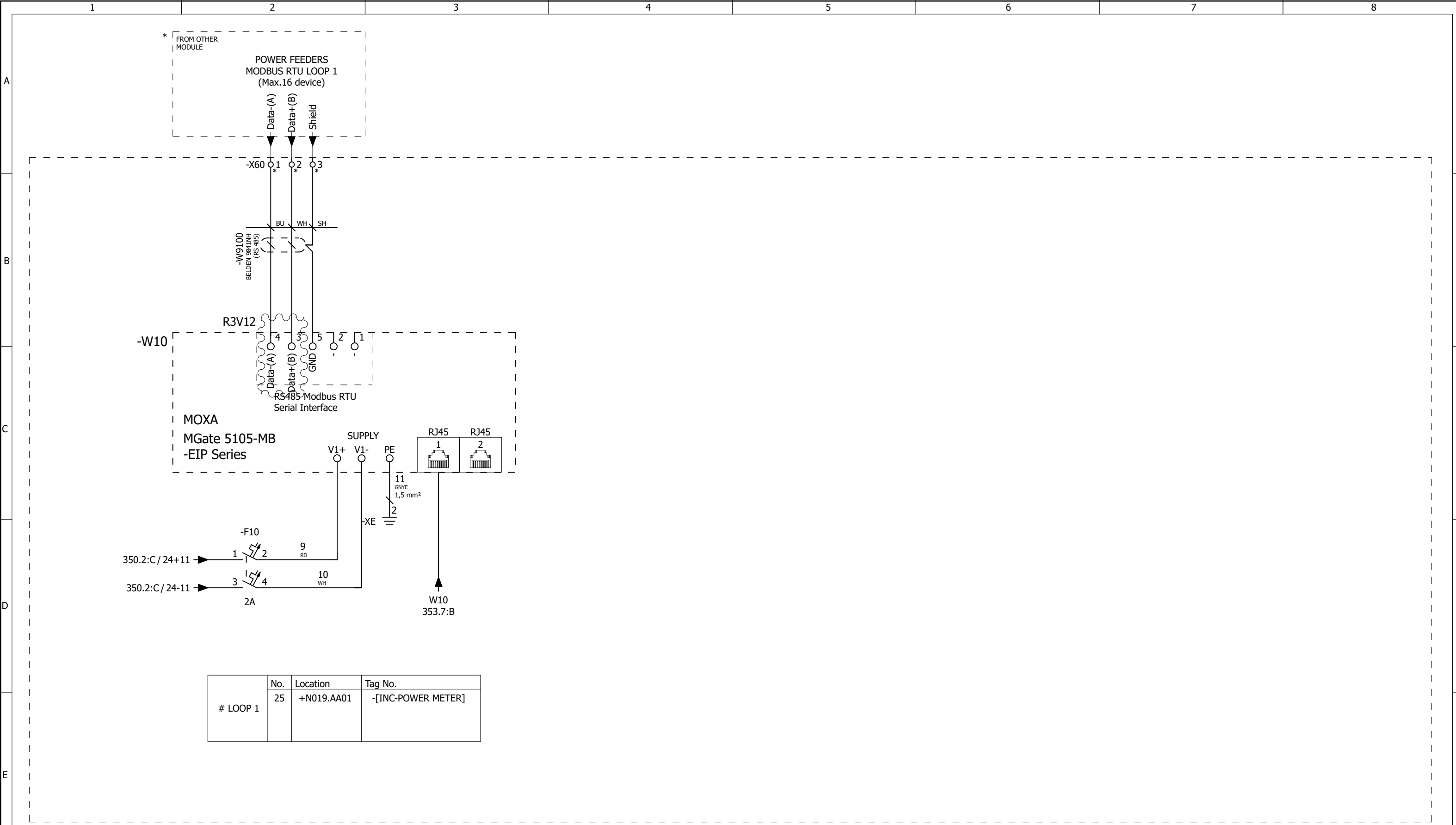


BE01-WC-002
CONTROL SUPPLY
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R3V12	03.06.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA									Project No. K21001	PAGE No. 350	CONT. 351	REV.	
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL													
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ													
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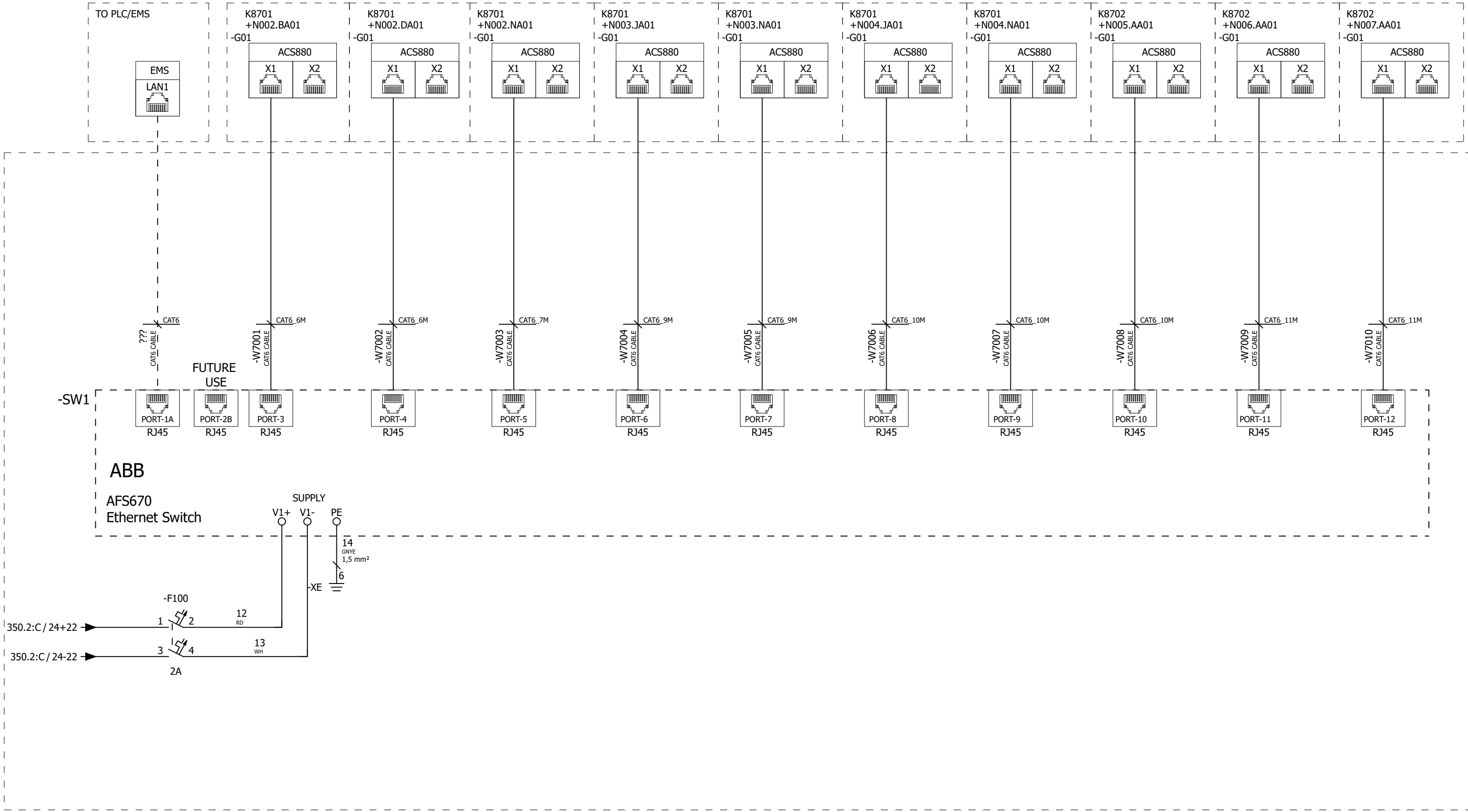


BE01-WC-002
MOTOR FEEDERS
MODBUS COMMUNICATION

K21001K8552




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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title COMMUNICATION DIAGRAM		Drawing No. 4TRD021001C9000		+8552-Com	SIZE A3										
R3V12		06.08.2021		Last Revision Date				SCALE 1	DESIGNED BY : VINEETHA												PAGE No.	351									
R0V0		11.02.2021		Creation Date					CHECKED BY : O.TOPAL															CONT.		352		REV.			
Rev.		Date		Description		SIGN			APPROVED BY : O.YILMAZ																						
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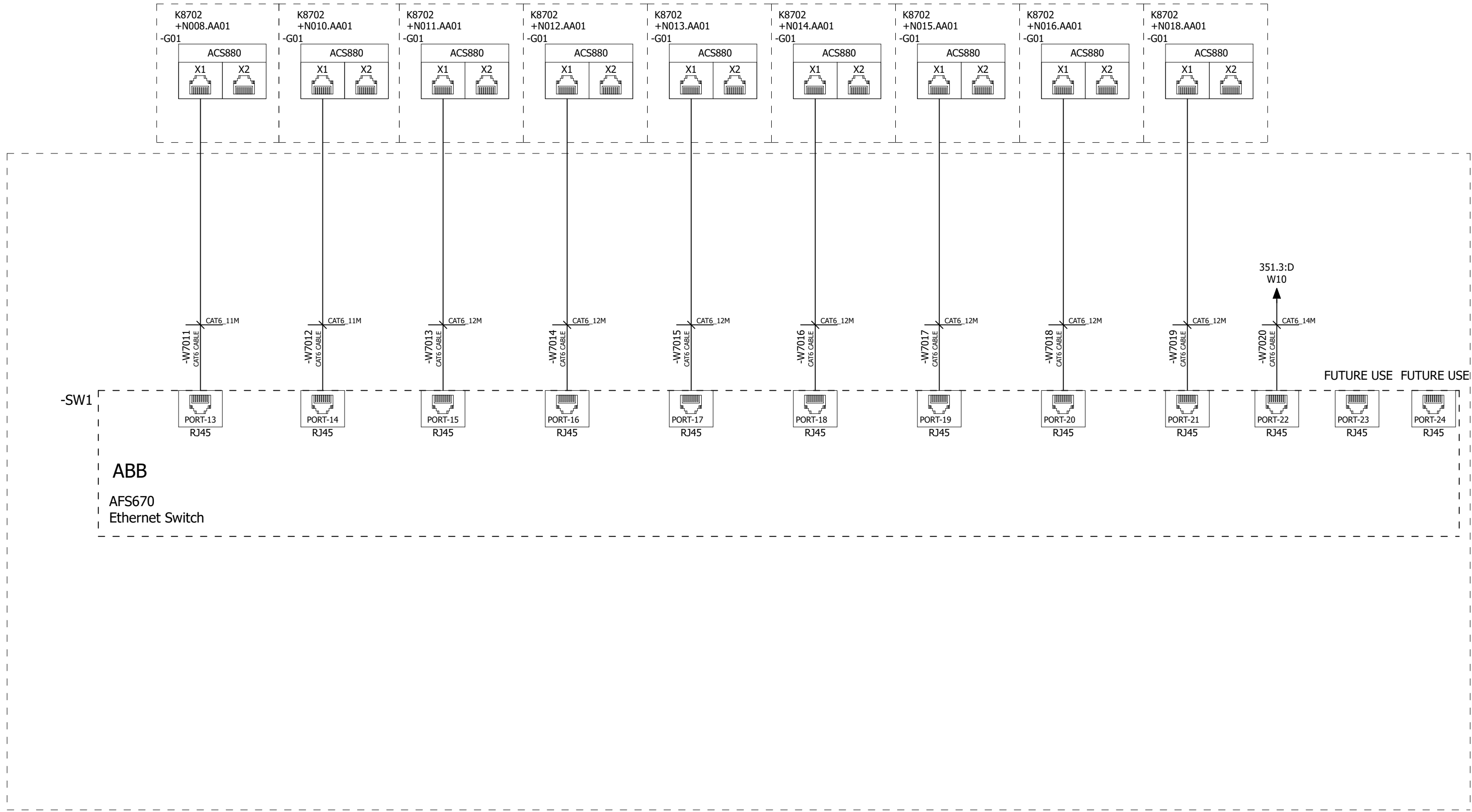


BE01-WC-002
NETWORK SWITCH

K21001K8552




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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title COMMUNICATION DIAGRAM		Drawing No. 4TRD021001C9000		+8552-Com		SIZE A3			
R3V12		03.06.2021		Last Revision Date				SCALE 1		DESIGNED BY : VINEETHA										PAGE No.		352			
R0V0		11.02.2021		Creation Date						CHECKED BY : O.TOPAL										CONT.		353			
Rev.		Date		Description		SIGN				APPROVED BY : O.YILMAZ															

1 2 3 4 5 6 7 8

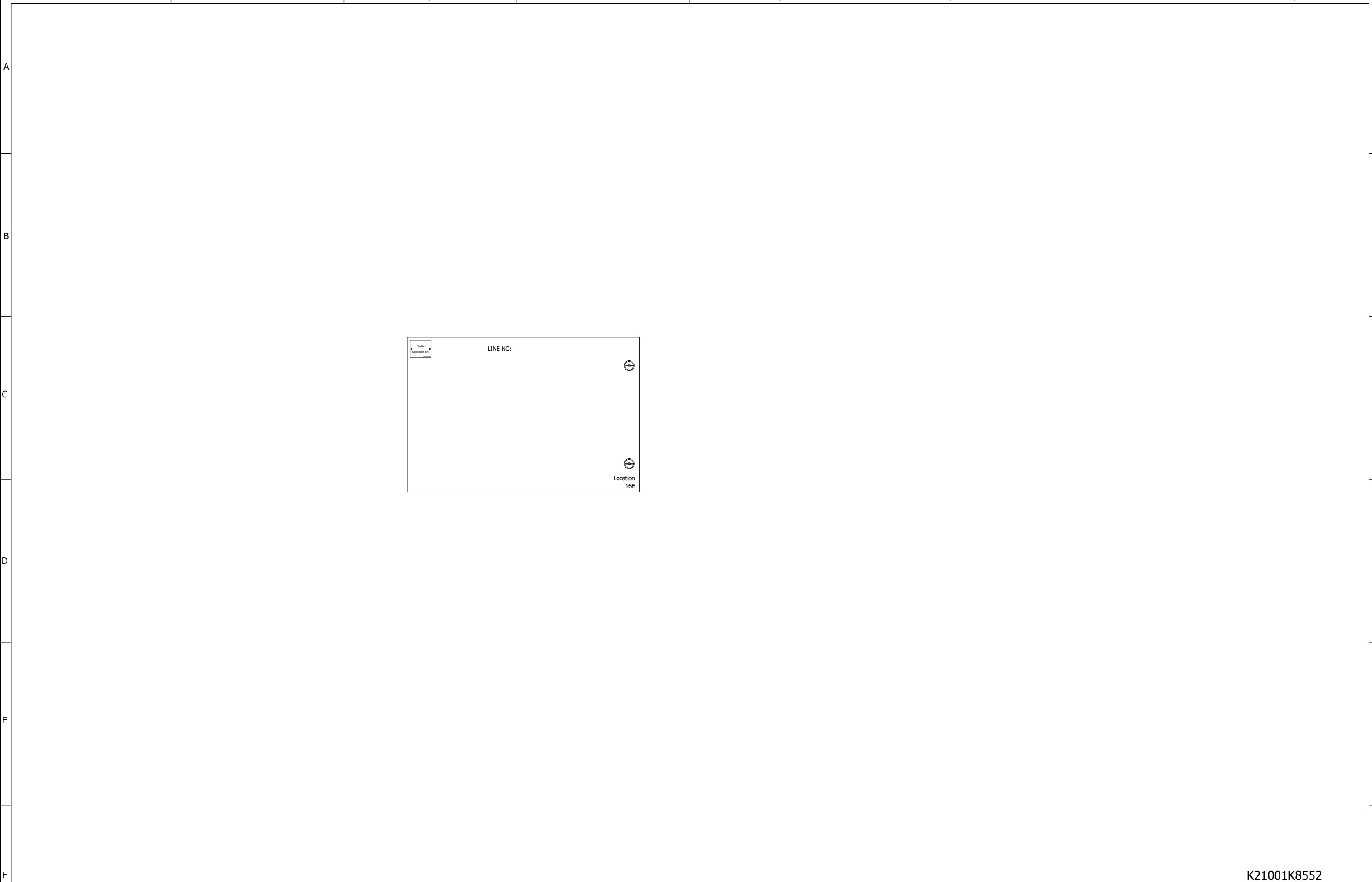





BE01-WC-002
NETWORK SWITCH

K21001K8552

<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>RMG COPPER JSC</div>		<div>End User</div> <div>RMG COPPER JSC</div>		<div>Project</div> <div>TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA</div>		<div>Title</div> <div>COMMUNICATION DIAGRAM</div>		<div>Drawing No.</div> <div>4TRD021001C9000</div>		<div>+8552-Com</div> <div>SIZE A3</div>	
R3V12	19.05.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA							<div>Project No.</div> <div>K21001</div>		<div>PAGE No.</div> <div>353</div>			
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL							<div>CONT.</div> <div>354</div>		REV.			
Rev.	Date	Description	SIGN									APPROVED BY : O.YILMAZ					

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R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL											CONT.	355	REV.
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ													
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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Module Wire Connection List		Drawing No. 4TRD021001C9000		+8552-Com SIZE A3	
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA								Project No. K21001	PAGE No.	355		
ROV0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL									CONT.	356		REV.
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ												

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TERMINAL DIAGRAM

-X6.1

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
1	-F10	1 RD	●	1		/350.2:B
			●	2		/350.2:B
1	-F100	4 RD	●	3	2	/350.2:B
3	-F10	7 WH	●	4	4	/350.2:B
			●	5		/350.2:B
3	-F100	8 WH	●	6		/350.2:B

TOTAL TERMINALS COUNT: 6 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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8552-Com	SIZE A3
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA													PAGE No.	356		
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL																
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ													CONT.	357	REV.	

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A

B

C

D

E




F

TERMINAL DIAGRAM

-X13.1

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
1	-F31	2 RD	1			/350.2:A
			2			/350.2:A
3	-F31	5 WH	3			/350.2:A
			4			/350.2: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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8552-Com		SIZE A3									
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA														PAGE No.		357										
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL														CONT.		358										
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ														REV.												
1				2				3				4				5				6				7				8			

A

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A

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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		/351.2:A
3	-W10	WH	2	2		/351.2:A
5	-W10	SH	3	3		/351.2:A

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

<div><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 ABB ELEKTRİK SAN. A.Ş.		Customer RMG COPPER JSC		End User RMG COPPER JSC		Project TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8552-Com	SIZE A3
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA							Project No. K21001	PAGE No. 358	CONT. +8553-Com/359		REV.	
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL												
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ												
1				2				3		4		5		6		7	

A

B

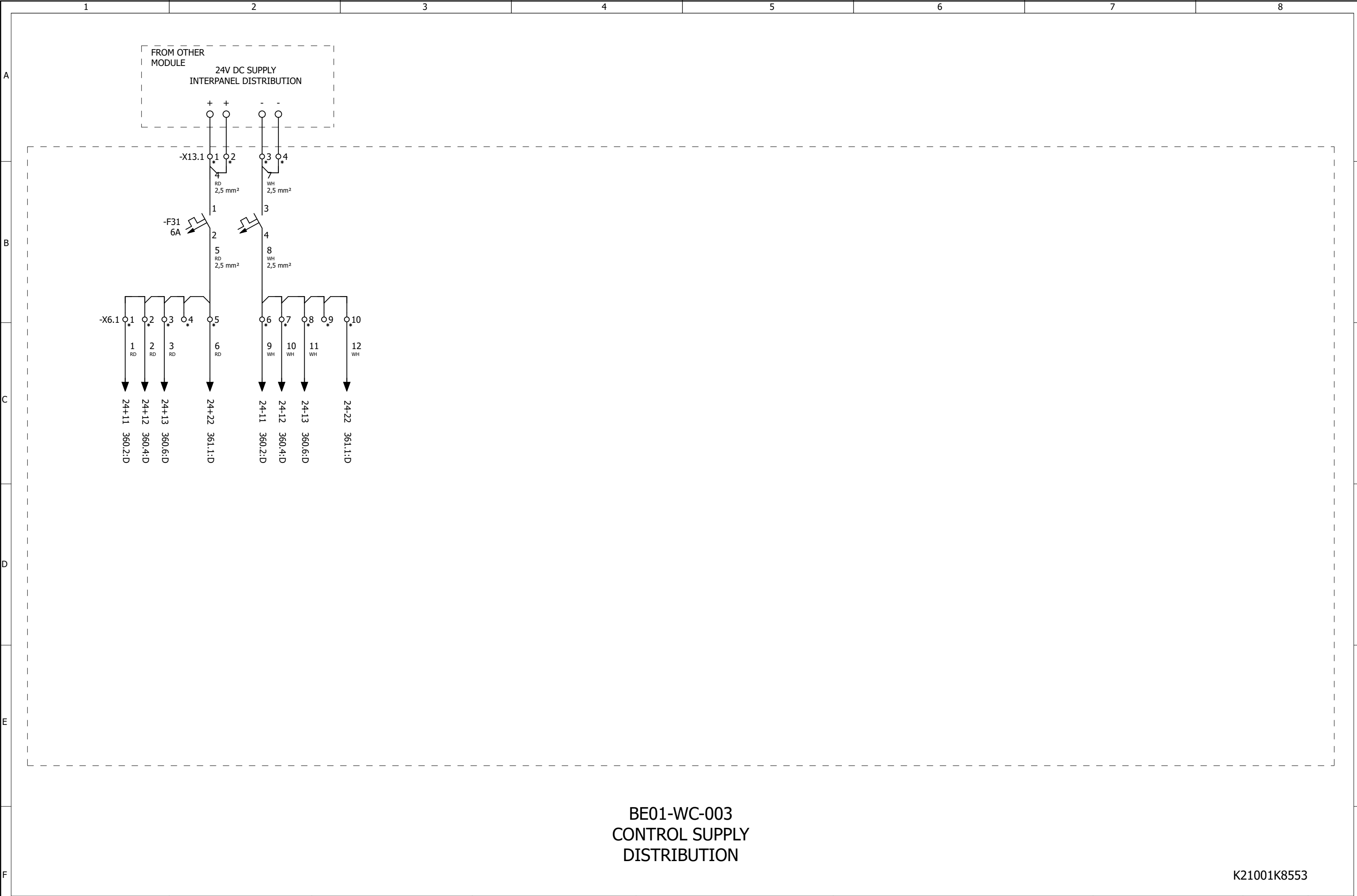
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D

E

F

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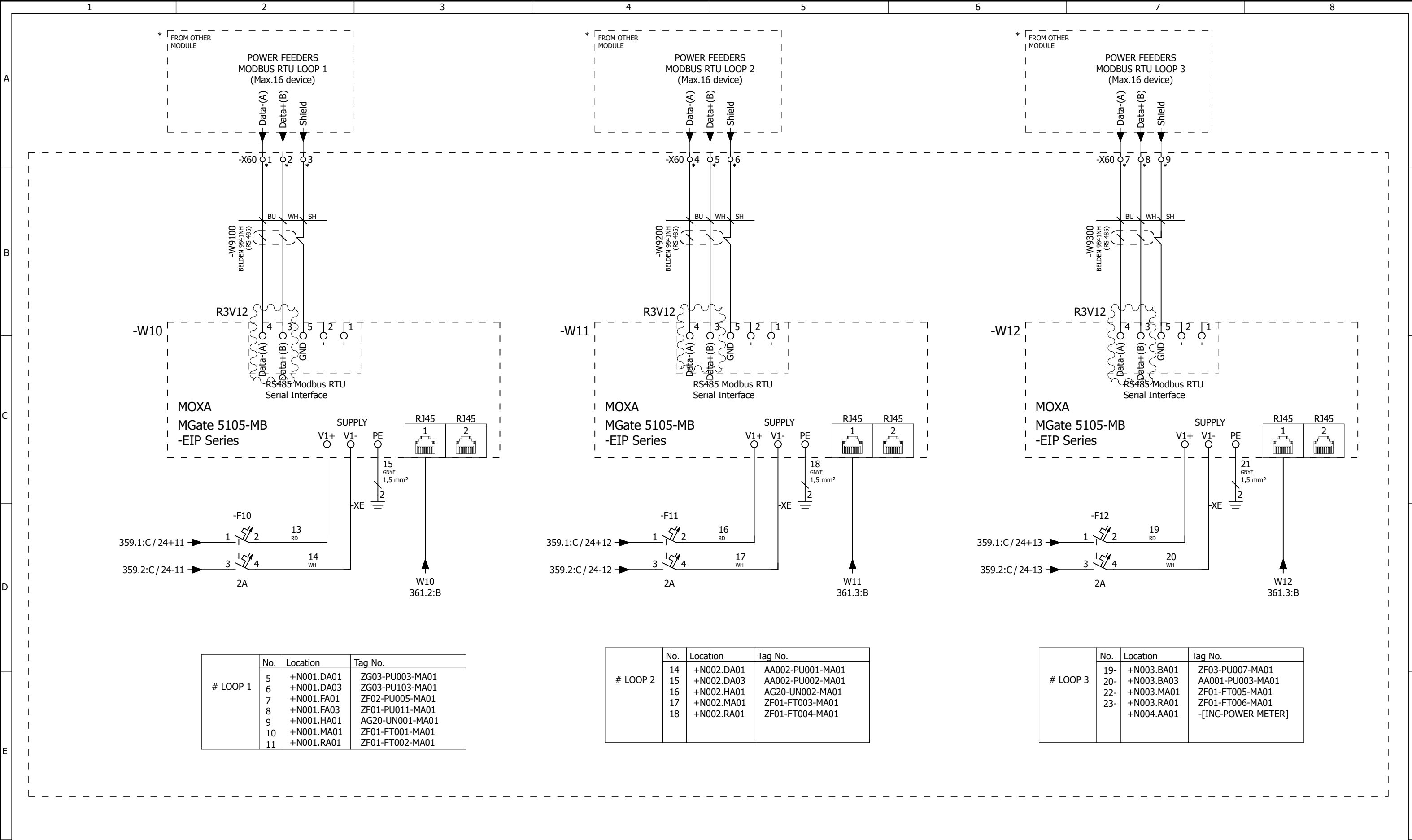


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R3V12	03.06.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA														PAGE No.	359										
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL														CONT.	360										
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ														REV.											
1				2		3		4		5		6		7		8														

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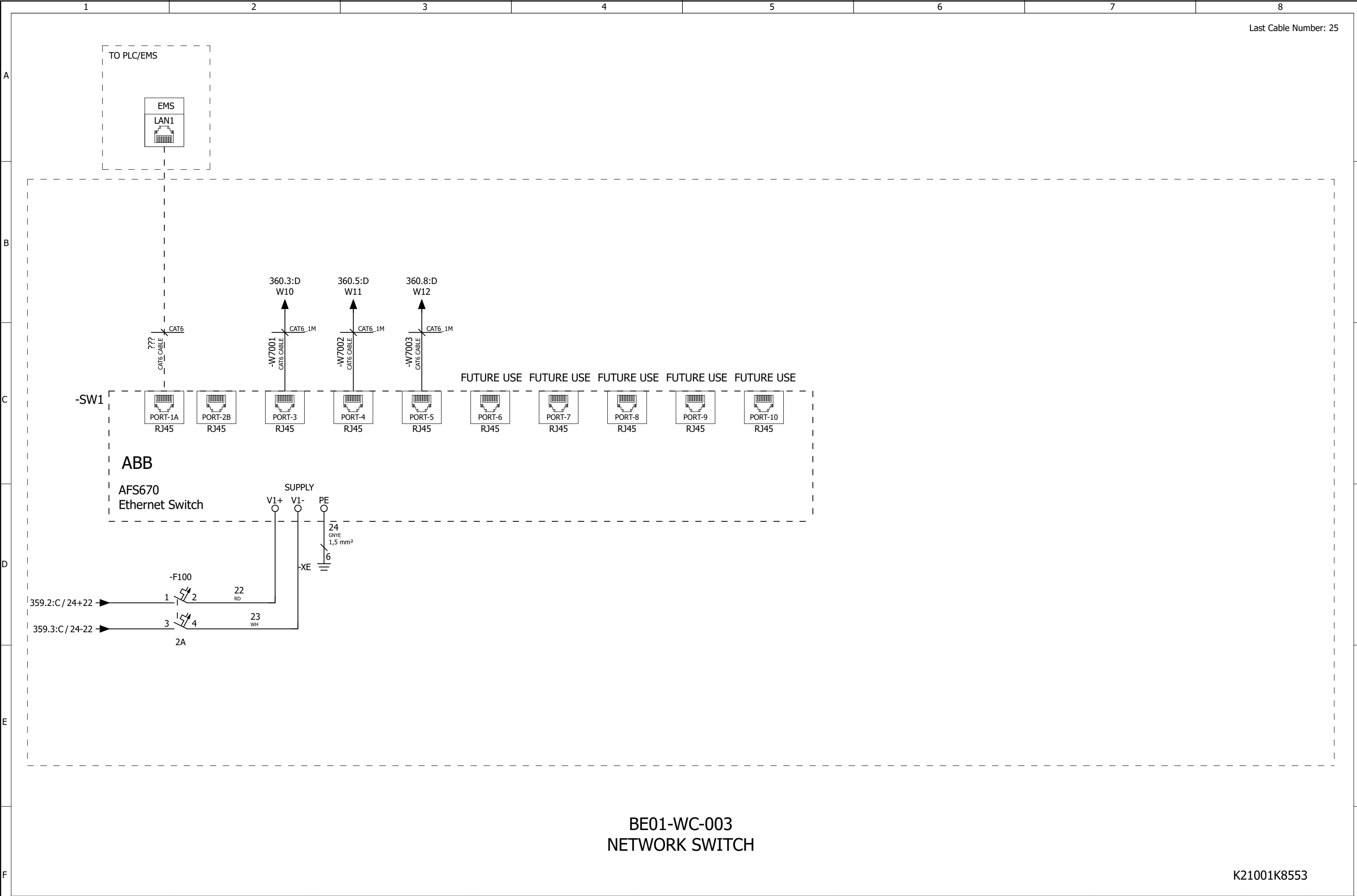


BE01-WC-003
MOTOR FEEDERS
MODBUS COMMUNICATION

K21001K8553

<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>RMG COPPER JSC</div>		<div>End User</div> <div>RMG COPPER JSC</div>		<div>Project</div> <div>TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA</div>		<div>Title</div> <div>COMMUNICATION DIAGRAM</div>		<div>Drawing No.</div> <div>4TRD021001C9000</div>		<div>+8553-Com</div>		<div>SIZE</div> <div>A3</div>	
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R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL									CONT.	361		REV.		
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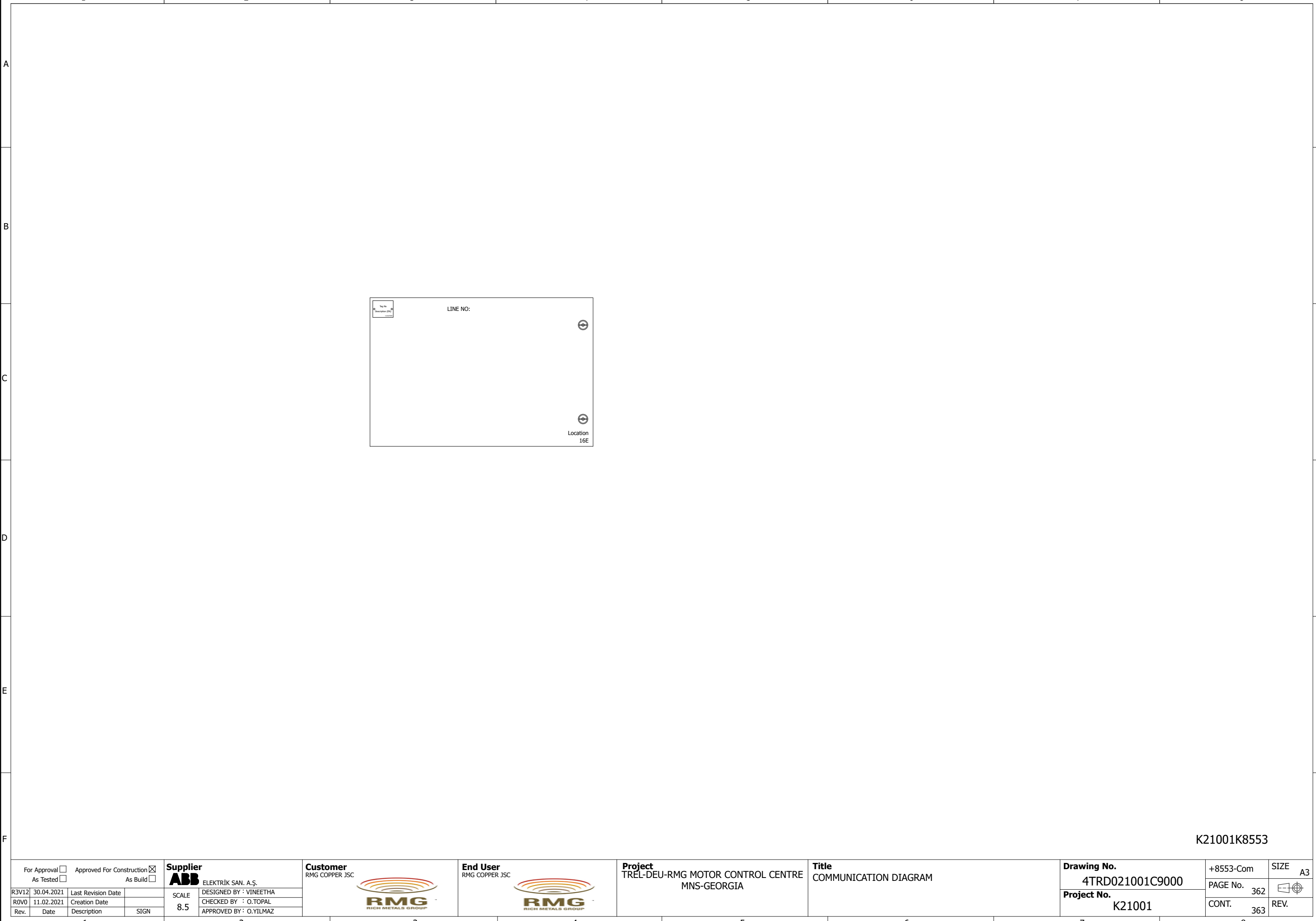
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Last Cable Number: 25

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R3V12		30.04.2021		Last Revision Date				<div>SCALE</div> <div>8.5</div>		<div>DESIGNED BY : VINEETHA</div> <div>CHECKED BY : O.TOPAL</div> <div>APPROVED BY : O.YILMAZ</div>		<div>RMG</div> <div>RICH METALS GROUP</div>		<div>RMG</div> <div>RICH METALS GROUP</div>		<div>Project No.</div> <div>K21001</div>		<div>PAGE No.</div> <div>362</div>		<div>REV.</div> <div><div><div></div></div><div></div></div>	
R0V0		11.02.2021		Creation Date														<div>CONT.</div> <div>363</div>			
Rev.		Date		Description		SIGN															

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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	PM		-W10:4	-X60:1	X		W9100**	BU			
2	PM		-W10:3	-X60:2	X		W9100**	WH			
3	PM		-W10:5	-X60:3	X		W9100**	SH			
4	PM		-W11:4	-X60:4	X		W9200**	BU			
5	PM		-W11:3	-X60:5	X		W9200**	WH			
6	PM		-W11:5	-X60:6	X		W9200**	SH			
7	PM		-W12:4	-X60:7	X		W9300**	BU			
8	PM		-W12:3	-X60:8	X		W9300**	WH			
9	PM		-W12:5	-X60:9	X		W9300**	SH			
10	PM		-F10:1	-X6.1:1	X		1,5	RD	1		
11	PM		-F11:1	-X6.1:2	X		1,5	RD	2		
12	PM		-F12:1	-X6.1:3	X		1,5	RD	3		
13	PM		-F31:1	-X13.1:1	X		2,5	RD	4		
14	PM		-F31:2	-X6.1:5			2,5	RD	5		
15	PM		-F100:1	-X6.1:5	X		1,5	RD	6		
16	PM		-F31:3	-X13.1:3	X		2,5	WH	7		
17	PM		-F31:4	-X6.1:6			2,5	WH	8		
18	PM		-F10:3	-X6.1:6	X		1,5	WH	9		
19	PM		-F11:3	-X6.1:7	X		1,5	WH	10		
20	PM		-F12:3	-X6.1:8	X		1,5	WH	11		
21	PM		-F100:3	-X6.1:10	X		1,5	WH	12		
22	PM		-F10:2	-W10:V1+		PM	1,5	RD	13		
23	PM		-F10:4	-W10:V1-		PM	1,5	WH	14		
24	PM		-W10:PE	-XE:2		PM	1,5	GNYE	15		
25	PM		-F11:2	-W11:V1+		PM	1,5	RD	16		
26	PM		-F11:4	-W11:V1-		PM	1,5	WH	17		
27	PM		-W11:PE	-XE:2		PM	1,5	GNYE	18		
28	PM		-F12:2	-W12:V1+		PM	1,5	RD	19		
29	PM		-F12:4	-W12:V1-		PM	1,5	WH	20		
30	PM		-W12:PE	-XE:2		PM	1,5	GNYE	21		
31	PM		-F100:2	-SW1:V1+		LV	1,5	RD	22		
32	PM		-F100:4	-SW1:V1-		LV	1,5	WH	23		
33	LV		-SW1:PE	-XE:6		PM	1,5	GNYE	24		

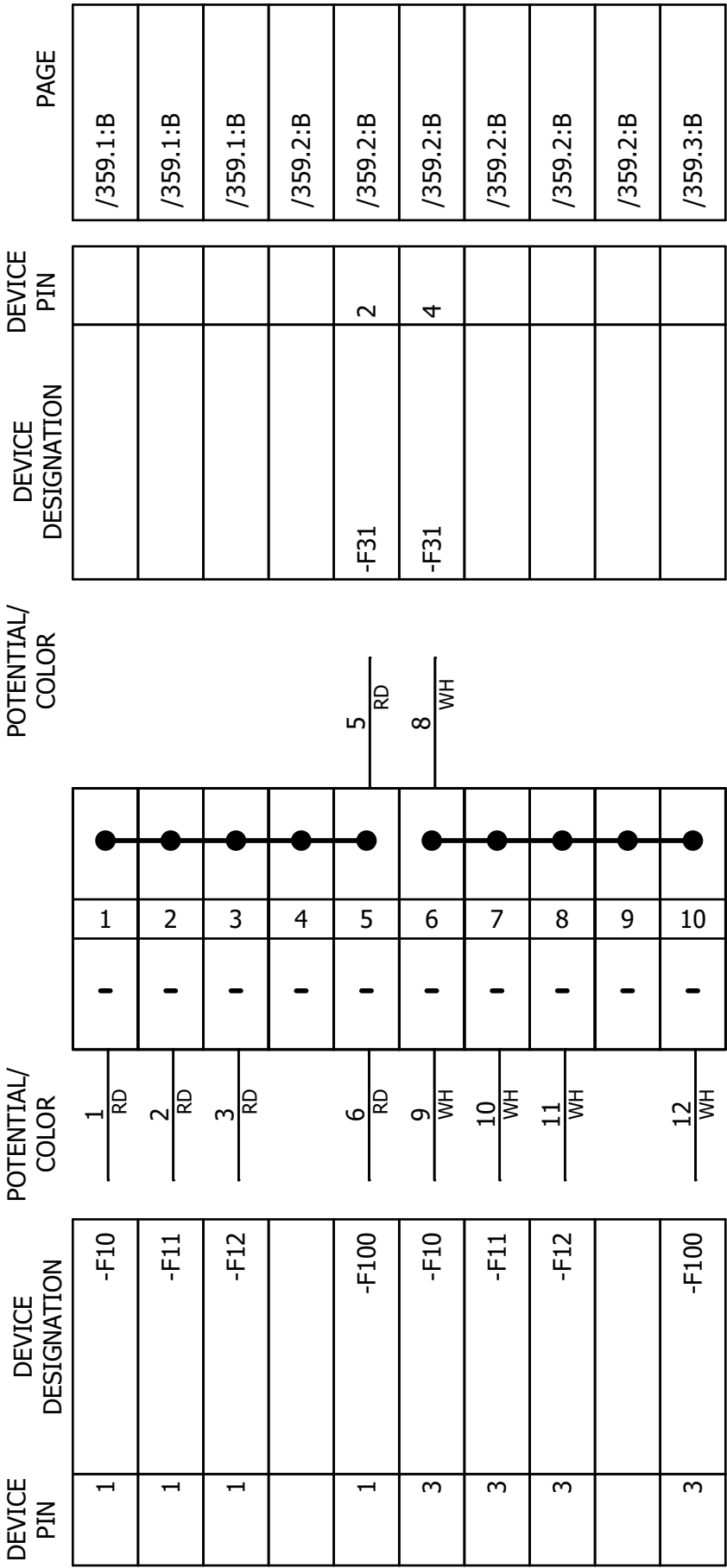
* According to Engineering Guideline ** Shielded Cable (BELDEN 9841NH) *** Silicone insulated

For Approval <input type="checkbox"/> As Tested <input type="checkbox"/>		Approved For Construction <input checked="" type="checkbox"/> As Build <input type="checkbox"/>		Supplier  ELEKTRİK SAN. A.Ş.		Customer RMG COPPER JSC 		End User RMG COPPER JSC 		Project TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Module Wire Connection List		Drawing No. 4TRD021001C9000		+8553-Com	SIZE	A3	
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA										Project No. K21001	PAGE No. 363	CONT. 364	REV.	
ROV0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL														
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ														

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TERMINAL DIAGRAM

-X6.1



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

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A

B

C

D

E



F

TERMINAL DIAGRAM

-X13.1

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
1	-F31	4 RD	1			/359.2:A
			2			/359.2:A
3	-F31	7 WH	3			/359.2:A
			4			/359.2: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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8553-Com	SIZE A3
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA																
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL																
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ																

A

B

C

D

E

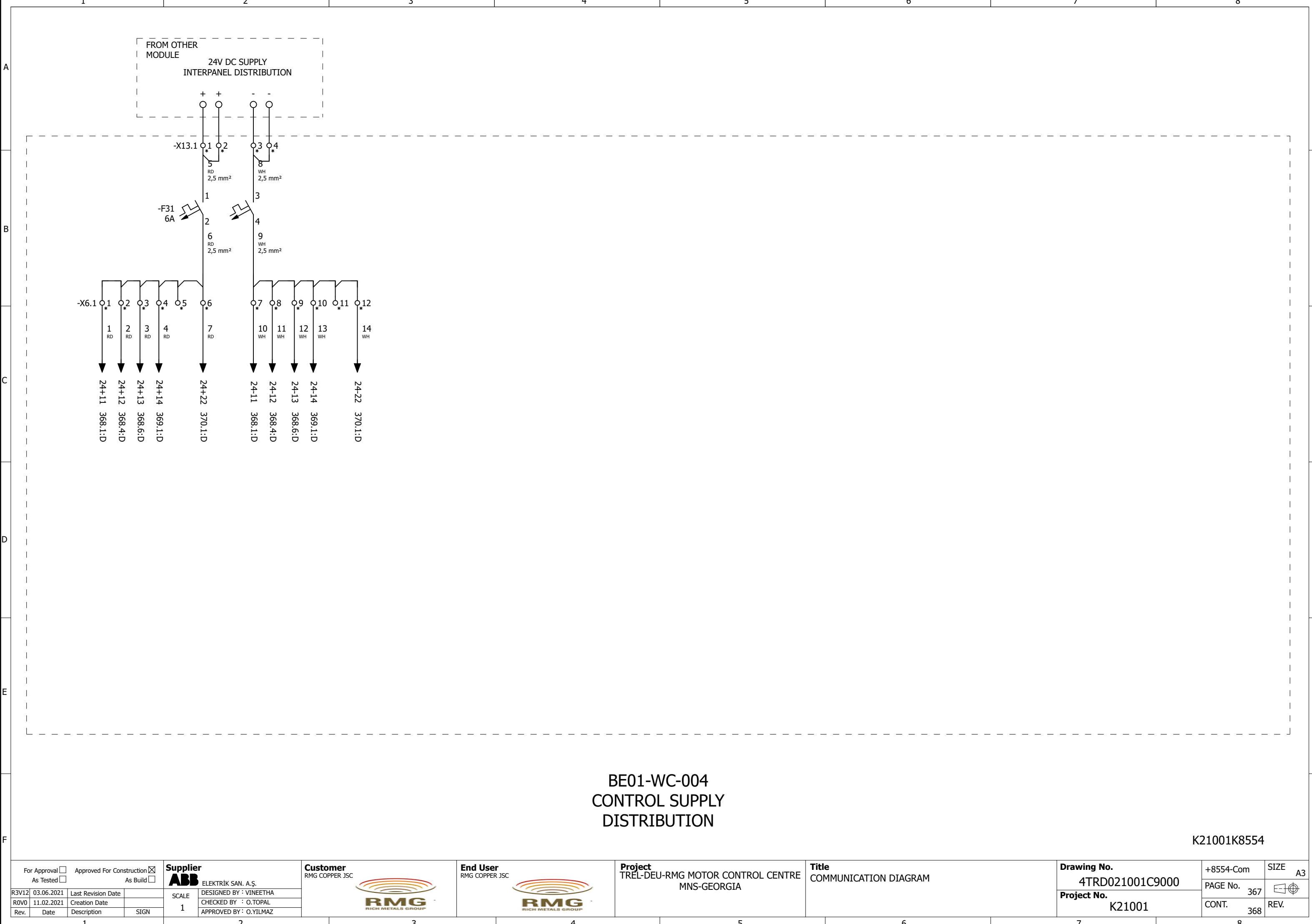
F

-X60

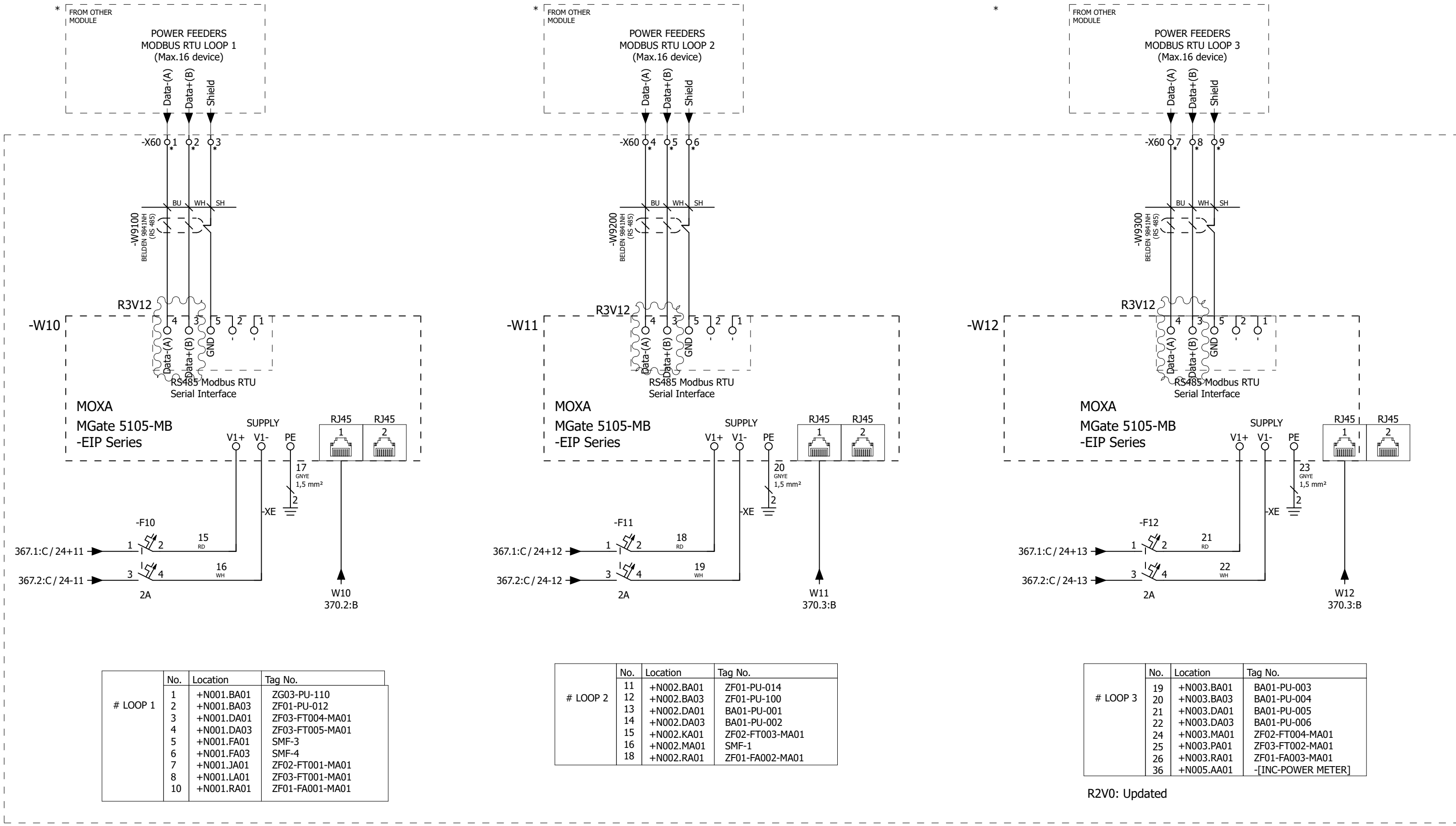
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TERMINAL TYPE: Feed-through terminal block - PT 2,5

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R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA							Project No. K21001		PAGE No. 366			
ROV0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL									REV.			
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ									CONT. +8554-Com/367			

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BE01-WC-004
MOTOR FEEDERS
MODBUS COMMUNICATION

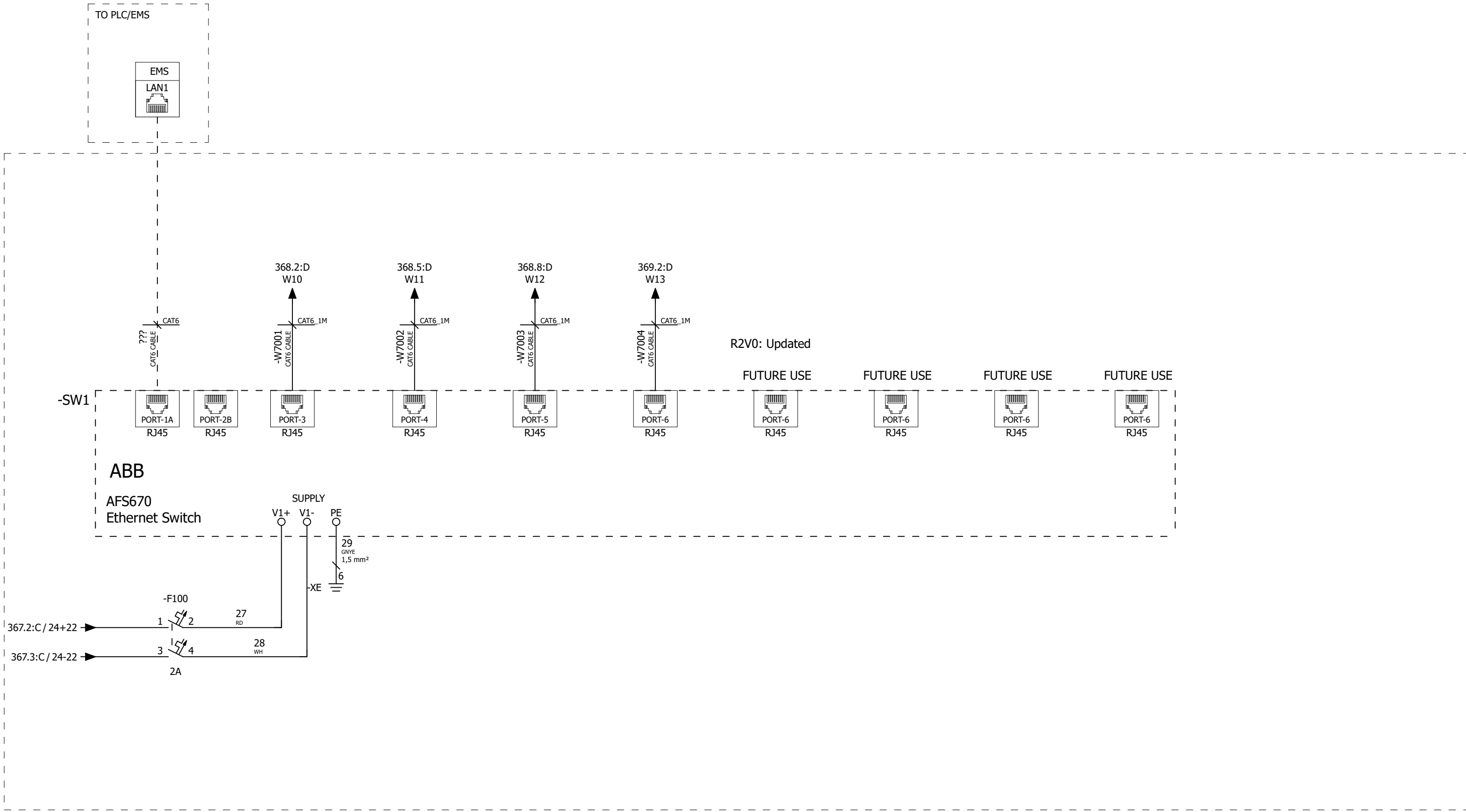
K21001K8554

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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title COMMUNICATION DIAGRAM		Drawing No. 4TRD021001C9000		+8554-Com		SIZE A3		
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA									Project No. K21001	PAGE No. 368	CONT. 369	REV.			
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL															
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ															

K21001K8554






<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></div><div>ELEKTRİK SAN. A.Ş.</div></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>TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA</div>		<div>Title</div> <div>COMMUNICATION DIAGRAM</div>		<div>Drawing No.</div> <div>4TRD021001C9000</div>		<div>+8554-Com</div>		<div>SIZE</div> <div>A3</div>	
R3V12 06.08.2021		Last Revision Date		<div>SCALE</div> <div>1</div>		DESIGNED BY : VINEETHA						<div>Project No.</div> <div>K21001</div>		PAGE No.		369		<div></div>	
ROV0 11.02.2021		Creation Date				CHECKED BY : O.TOPAL								CONT.		370		REV.	
Rev. Date		Description SIGN				APPROVED BY : O.YILMAZ													

Last Cable Number: 30

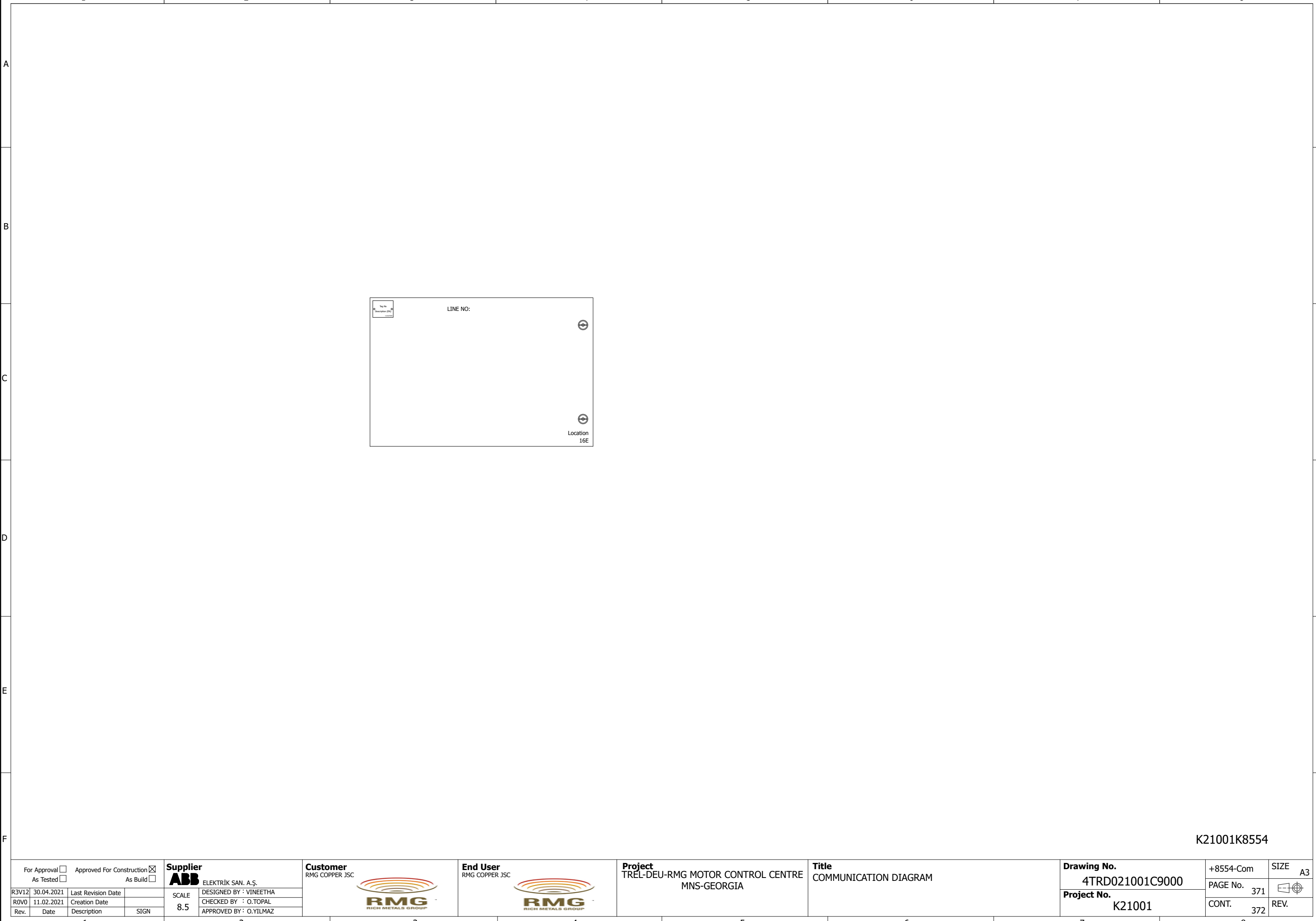





BE01-WC-004
NETWORK SWITCH

K21001K8554

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R3V12	03.06.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA							<div>Project No.</div> <div>K21001</div>		PAGE No. 370			
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL									CONT. 371			REV.
Rev.	Date	Description	SIGN											APPROVED BY : O.YILMAZ			

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R0V0		11.02.2021		Creation Date												<div>CONT.</div> <div>372</div>		<div>REV.</div>	
Rev.		Date		Description		SIGN													
1																			

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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	PM		-W10:4	-X60:1	X		W1 **	BU			
2	PM		-W10:3	-X60:2	X		W1 **	WH			
3	PM		-W10:5	-X60:3	X		W1**	SH			
4	PM		-W11:4	-X60:4	X		W1 **	BU			
5	PM		-W11:3	-X60:5	X		W1 **	WH			
6	PM		-W11:5	-X60:6	X		W1**	SH			
7	PM		-W12:4	-X60:7	X		W1 **	BU			
8	PM		-W12:3	-X60:8	X		W1 **	WH			
9	PM		-W12:5	-X60:9	X		W1**	SH			
10	PM		-W13:4	-X60:10	X		W9400**	BU			
11	PM		-W13:3	-X60:11	X		W9400**	WH			
12	PM		-W13:5	-X60:12	X		W9400**	SH			
13	PM		-F10:1	-X6.1:1	X		1,5	RD	1		
14	PM		-F11:1	-X6.1:2	X		1,5	RD	2		
15	PM		-F12:1	-X6.1:3	X		1,5	RD	3		
16	PM		-F13:1	-X6.1:4	X		1,5	RD	4		
17	PM		-F31:1	-X13.1:1	X		2,5	RD	5		
18	PM		-F31:2	-X6.1:6			2,5	RD	6		
19	PM		-F100:1	-X6.1:6	X		1,5	RD	7		
20	PM		-F31:3	-X13.1:3	X		2,5	WH	8		
21	PM		-F31:4	-X6.1:7			2,5	WH	9		
22	PM		-F10:3	-X6.1:7	X		1,5	WH	10		
23	PM		-F11:3	-X6.1:8	X		1,5	WH	11		
24	PM		-F12:3	-X6.1:9	X		1,5	WH	12		
25	PM		-F13:3	-X6.1:10	X		1,5	WH	13		
26	PM		-F100:3	-X6.1:12	X		1,5	WH	14		
27	PM		-F10:2	-W10:V1+		PM	1,5	RD	15		
28	PM		-F10:4	-W10:V1-		PM	1,5	WH	16		
29	PM		-W10:PE	-XE:2		PM	1,5	GNYE	17		
30	PM		-F11:2	-W11:V1+		PM	1,5	RD	18		
31	PM		-F11:4	-W11:V1-		PM	1,5	WH	19		
32	PM		-W11:PE	-XE:2		PM	1,5	GNYE	20		
33	PM		-F12:2	-W12:V1+		PM	1,5	RD	21		
34	PM		-F12:4	-W12:V1-		PM	1,5	WH	22		
35	PM		-W12:PE	-XE:2		PM	1,5	GNYE	23		
36	PM		-F13:2	-W13:V1+		PM	1,5	RD	24		
37	PM		-F13:4	-W13:V1-		PM	1,5	WH	25		
38	PM		-W13:PE	-XE:2		PM	1,5	GNYE	26		

* 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.TOPAL</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>TREL-DEU-RMG MOTOR CONTROL CENTRE</div> <div>MNS-GEORGIA</div>		<div>Title</div> <div>Module Wire Connection List</div>		<div>Drawing No.</div> <div>4TRD021001C9000</div>		<div>+8554-Com</div> <div>SIZE A3</div>			
<div>R3V12 06.08.2021 Last Revision Date</div> <div>Rev. Date Creation Date Description SIGN</div>				<div>SCALE</div> <div>1</div>								<div>Project No.</div> <div>K21001</div>		<div>PAGE No.</div> <div>372</div>		<div>CONT.</div> <div>373</div>		<div>REV.</div>	

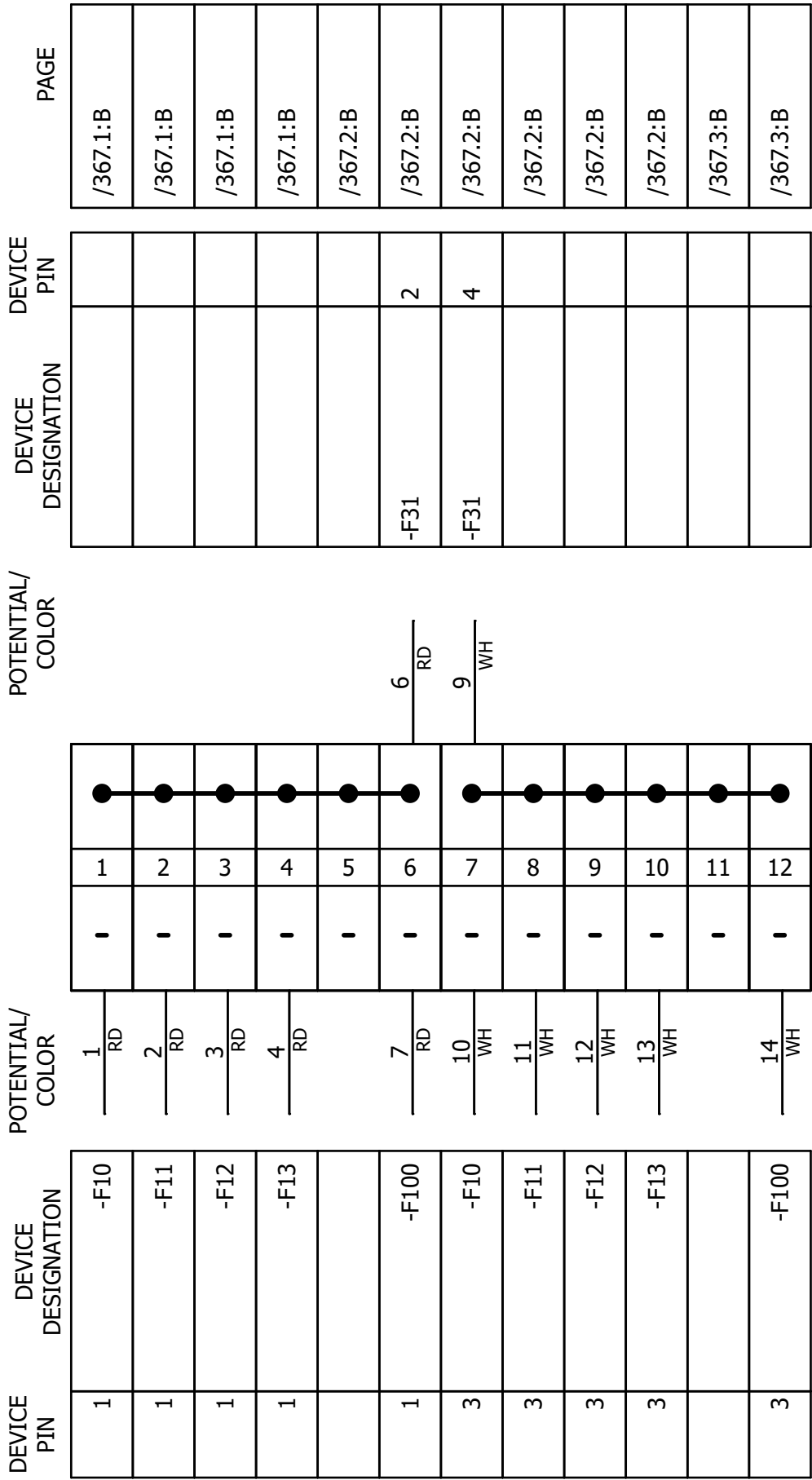
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06.08.2021 Last Revision Date 1.02.2021 Creation Date Date Description SIGN			SCALE 1 DESIGNED BY : VINEETHA CHECKED BY : O.TOPAL APPROVED BY : O.YILMAZ								Project No. K21001		PAGE No. 373 CONT. 374		<div>  </div> REV.	

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TERMINAL DIAGRAM

-X6.1



TOTAL TERMINALS COUNT: 12 PCS
TERMINAL TYPE: Feed-through terminal block - PT 2,5

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TERMINAL DIAGRAM

-X13.1

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
1	-F31	5 RD	1 •			/367.2:A
			2 •			/367.2:A
3	-F31	8 WH	3 •			/367.2:A
			4 •			/367.2:A

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

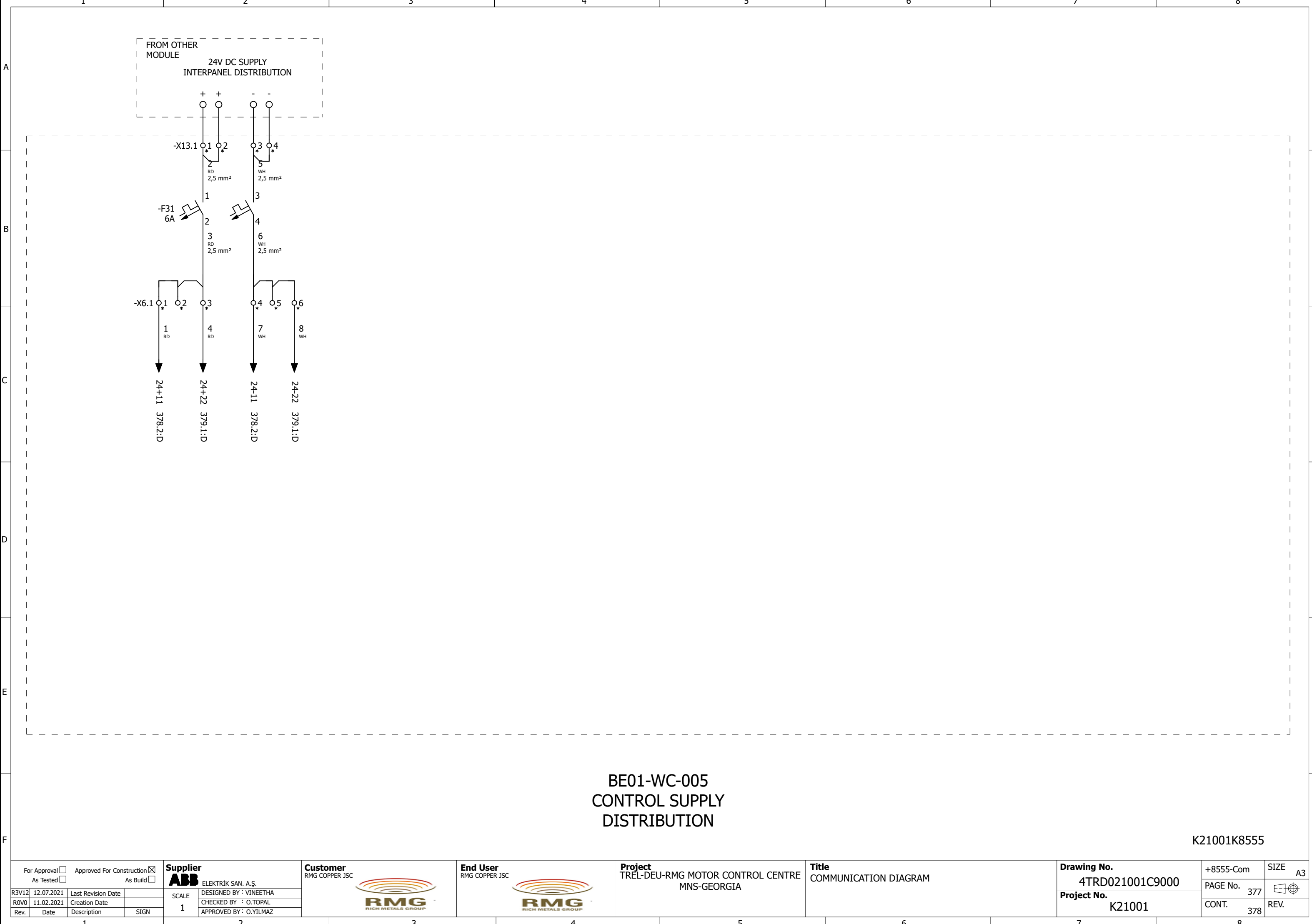
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R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA														PAGE No.		375										
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL														CONT.		376										
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ														REV.												
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-X60

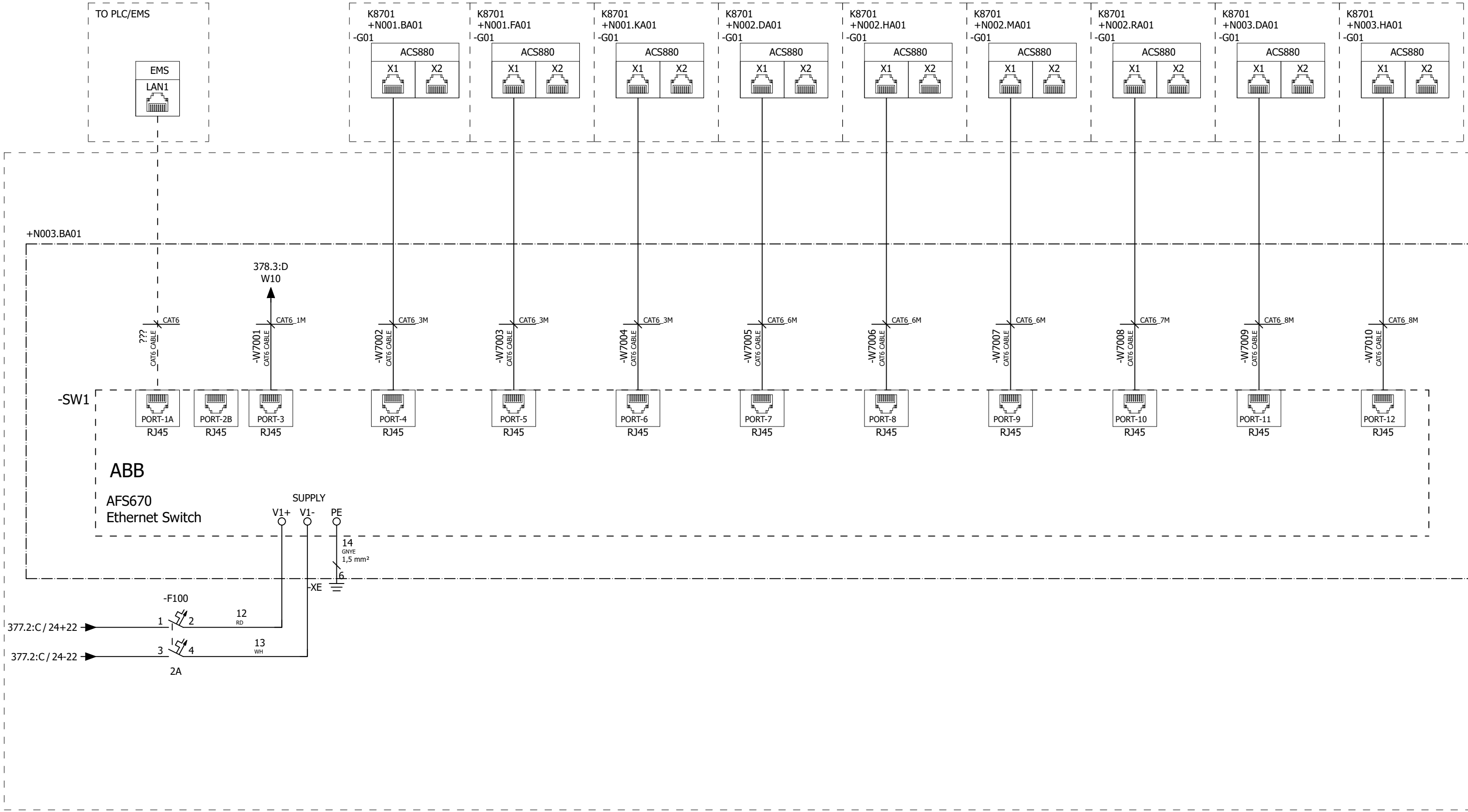
TOTAL TERMINALS COUNT: 12 PCS
TERMINAL TYPE: Feed-through terminal block - PT 2,5

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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8554-Com SIZE A3	
R3V12 06.08.2021 Last Revision Date ROV0 11.02.2021 Creation Date Rev. Date Description SIGN				SCALE 1 DESIGNED BY : VINEETHA CHECKED BY : O.TOPAL APPROVED BY : O.YILMAZ								Project No. K21001		PAGE No. 376 CONT. +8555-Com/377 REV.			

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BE01-WC-005
NETWORK SWITCH

K21001K8555




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R3V12 12.07.2021 Last Revision Date								SCALE 1		DESIGNED BY : VINEETHA										PAGE No. 379			
R0V0 11.02.2021 Creation Date										CHECKED BY : O.TOPAL										CONT. 380		REV.	
Rev. Date Description SIGN										APPROVED BY : O.YILMAZ													

1 2 3 4 5 6 7 8

K21001K8555

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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title COMMUNICATION DIAGRAM		Drawing No. 4TRD021001C9000		+8555-Com		SIZE A3	
R3V12	28.06.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA									Project No. K21001	PAGE No.	380		REV.	
ROV0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL														
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ														

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1				2				3				4				5				6				7				8			
A																															
B																															
C																															
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E																															
F																															
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<div><div><div>For Approval <input type="checkbox"/></div><div>As Tested <input type="checkbox"/></div></div><div><div>Approved For Construction <input checked="" type="checkbox"/></div><div>As Build <input type="checkbox"/></div></div></div>				<div><div><div>Supplier</div><div><div>ABB</div><div>ELEKTRİK SAN. A.Ş.</div></div></div><div><div>SCALE</div><div>8.5</div></div><div><div>DESIGNED BY : VINEETHA</div><div>CHECKED BY : O.TOPAL</div><div>APPROVED BY : O.YILMAZ</div></div></div>				<div><div><div>Customer</div><div>RMG COPPER JSC</div><div></div></div></div>				<div><div><div>End User</div><div>RMG COPPER JSC</div><div></div></div></div>				<div><div><div>Project</div><div>TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA</div></div></div>				<div><div><div>Title</div><div>COMMUNICATION DIAGRAM</div></div></div>				<div><div><div>Drawing No.</div><div>4TRD021001C9000</div></div><div><div>Project No.</div><div>K21001</div></div></div>				<div><div>+8555-Com</div><div>PAGE No. 381</div><div>CONT. 382</div></div>		<div><div>SIZE A3</div><div></div><div>REV.</div></div>	
1				2				3				4				5				6				7				8			

Tag No

Description (255)

LINE NO:

Location
8E

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

1	2	3	4	5	6	7	8
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TERMINAL DIAGRAM

-X6.1

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
1	+N004.BA01-F10	1 RD	●	1		/377.1:B
			●	2		/377.2:B
1	-F100	4 RD	●	3	2	/377.2:B
3	+N004.BA01-F10	7 WH	●	4	4	/377.2:B
			●	5		/377.2:B
3	-F100	8 WH	●	6		/377.2:B

TOTAL TERMINALS COUNT: 6 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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8555-Com		SIZE A3											
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA													PAGE No. 383			REV.												
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL														CONT. 384														
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ																												
1				2				3				4						5				6				7				8			

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TERMINAL DIAGRAM

-X13.1

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
1	-F31	2 RD	1 •			/377.2:A
			2 •			/377.2:A
3	-F31	5 WH	3 •			/377.2:A
			4 •			/377.2: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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8555-Com		SIZE A3									
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA														PAGE No.		384										
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL														CONT.		385										
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ														REV.												
1				2				3				4				5				6				7				8			

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TERMINAL DIAGRAM

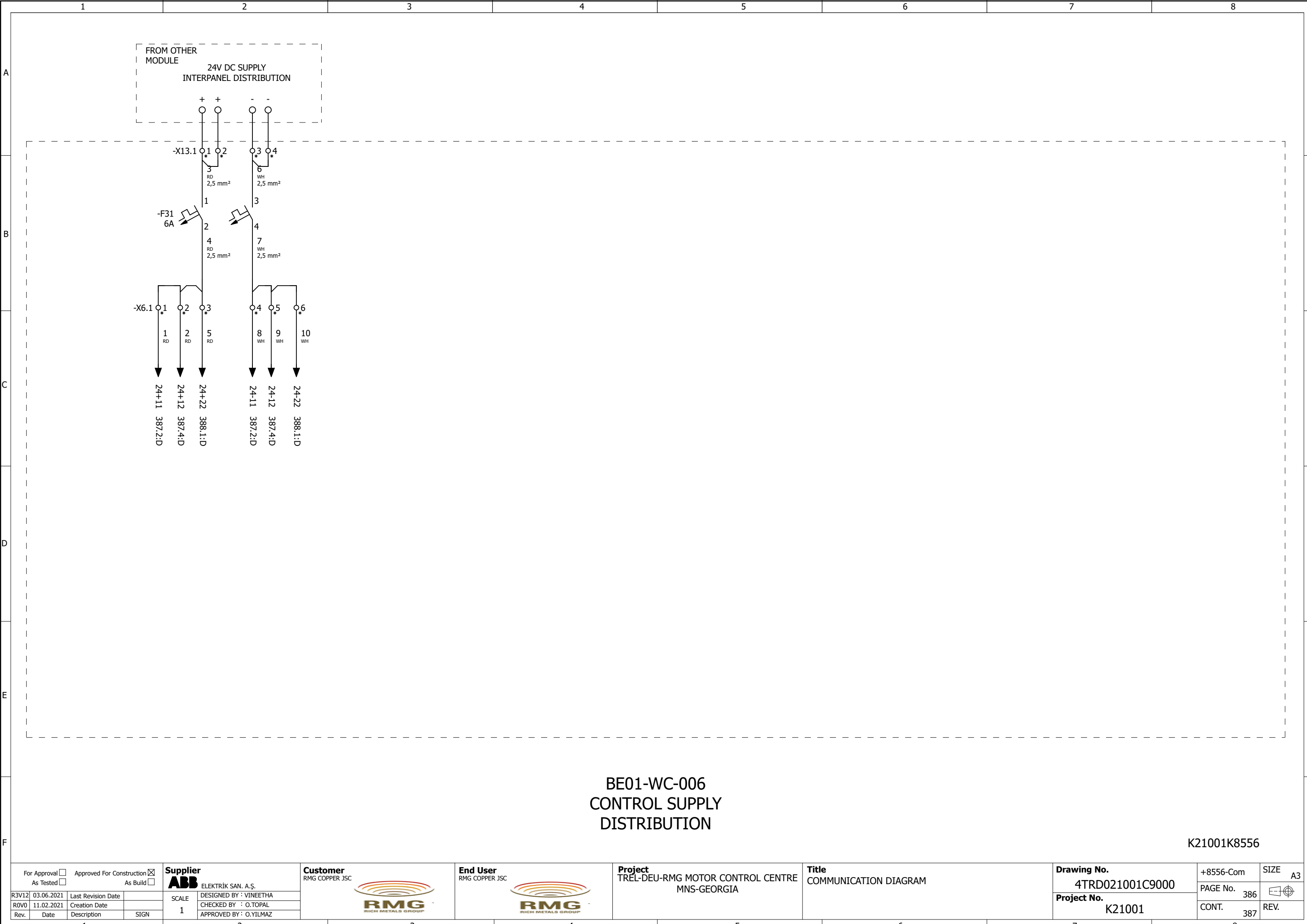
-X60

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
4	+N004.BA01-W10	BU	1	1		/378.2:A
3	+N004.BA01-W10	WH	2	2		/378.2:A
5	+N004.BA01-W10	SH	3	3		/378.2:A




TOTAL TERMINALS COUNT: 3 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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8555-Com		SIZE A3										
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA														PAGE No. 385													
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL														CONT. 385		REV.											
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ														+8556-Com/386													

	1	2	3	4	5	6	7	8									
A																	
B																	
C	<div><div>FROM OTHER MODULE</div><div>24V DC SUPPLY INTERPANEL DISTRIBUTION</div><div><div><div>+ + - -</div><div><div>-X13.1</div><div><div>12</div><div>34</div><div>RD 2,5 mm²</div><div>WH 2,5 mm²</div></div></div><div><div>-F31 6A</div><div>13</div><div>47</div><div>RD 2,5 mm²</div><div>WH 2,5 mm²</div></div><div><div>-X6.1</div><div><div>125</div><div>26</div><div>58</div><div>RD</div><div>WH</div><div>WH</div></div><div><div>24+11</div><div>24+12</div><div>24+22</div><div>24-11</div><div>24-12</div><div>24-22</div></div><div><div>387.2:D</div><div>387.4:D</div><div>388.1:D</div><div>387.2:D</div><div>387.4:D</div><div>388.1:D</div></div></div></div></div></div>																
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F	<div>BE01-WC-006 CONTROL SUPPLY DISTRIBUTION</div> <div>K21001K8556</div>																
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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title COMMUNICATION DIAGRAM		Drawing No. 4TRD021001C9000		+8556-Com		SIZE A3	
R3V12	03.06.2021	Last Revision Date		SCALE 1		DESIGNED BY : VINEETHA						Project No. K21001		PAGE No. 386		REV.	
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Rev.	Date	Description	SIGN			APPROVED BY : O.YILMAZ											

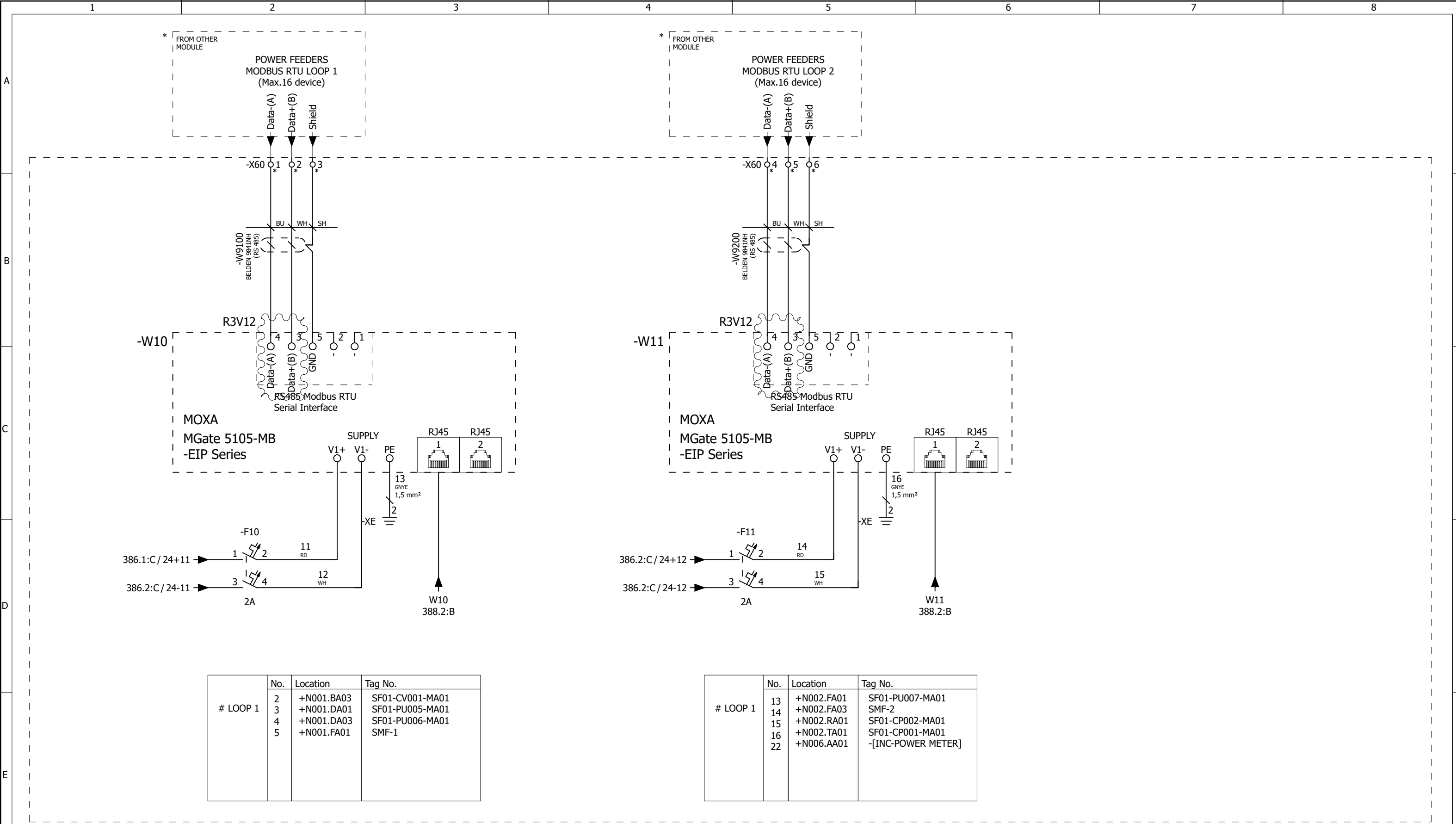


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B	<div><div>FROM OTHER MODULE</div><div>24V DC SUPPLY INTERPANEL DISTRIBUTION</div><div><div><div>+ + - -</div><div><div>-X13.1</div><div>1 2 3 RD 2,5 mm²</div><div>4 5 6 WH 2,5 mm²</div><div>-F31 6A</div><div>1 2 3 RD 2,5 mm²</div><div>4 5 6 WH 2,5 mm²</div><div>-X6.1</div><div>1 2 3 RD</div><div>4 5 6 WH</div><div>24+11 387.2:D</div><div>24+12 387.4:D</div><div>24+22 388.1:D</div><div>24-11 387.2:D</div><div>24-12 387.4:D</div><div>24-22 388.1:D</div></div></div></div></div>																
C																	
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F	<div>BE01-WC-006 CONTROL SUPPLY DISTRIBUTION</div> <div>K21001K8556</div>																
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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title COMMUNICATION DIAGRAM		Drawing No. 4TRD021001C9000		+8556-Com		SIZE A3	
R3V12	03.06.2021	Last Revision Date		SCALE 1		DESIGNED BY : VINEETHA						Project No. K21001		PAGE No. 386			
ROV0	11.02.2021	Creation Date				CHECKED BY : O.TOPAL								CONT. 387		REV.	
Rev.	Date	Description	SIGN			APPROVED BY : O.YILMAZ											

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<div><div>FROM OTHER MODULE</div><div>24V DC SUPPLY INTERPANEL DISTRIBUTION</div><div><div><div><div><div></div><div>+</div></div><div><div></div><div>+</div></div></div><div><div></div><div>1</div></div><div><div></div><div>2</div></div><div><div></div><div>3</div></div><div><div></div><div>RD</div></div><div><div></div><div>2,5 mm²</div></div></div><div><div></div><div>1</div></div><div><div></div><div>2</div></div><div><div></div><div>4</div></div><div><div></div><div>RD</div></div><div><div></div><div>2,5 mm²</div></div><div><div></div><div>1</div></div><div><div></div><div>2</div></div><div><div></div><div>5</div></div><div><div></div><div>RD</div></div><div><div></div><div>1</div></div><div><div></div><div>RD</div></div><div><div></div><div>24+11</div></div><div><div></div><div>387,2:D</div></div></div><div><div></div><div>24+12</div></div><div><div></div><div>387,4:D</div></div><div><div></div><div>24+22</div></div><div><div></div><div>388,1:D</div></div></div> <div><div><div><div><div></div><div>-</div></div><div><div></div><div>-</div></div></div><div><div></div><div>3</div></div><div><div></div><div>4</div></div><div><div></div><div>6</div></div><div><div></div><div>WH</div></div><div><div></div><div>2,5 mm²</div></div></div><div><div></div><div>3</div></div><div><div></div><div>4</div></div><div><div></div><div>7</div></div><div><div></div><div>WH</div></div><div><div></div><div>2,5 mm²</div></div><div><div></div><div>4</div></div><div><div></div><div>5</div></div><div><div></div><div>6</div></div><div><div></div><div>8</div></div><div><div></div><div>WH</div></div><div><div></div><div>9</div></div><div><div></div><div>WH</div></div><div><div></div><div>10</div></div><div><div></div><div>WH</div></div><div><div></div><div>24-11</div></div><div><div></div><div>387,2:D</div></div></div> <div><div></div><div>24-12</div></div> <div><div></div><div>387,4:D</div></div> <div><div></div><div>24-22</div></div> <div><div></div><div>388,1:D</div></div> <div><div></div><div>-F31</div></div> <div><div></div><div>6A</div></div> <div><div>BE01-WC-006</div><div>CONTROL SUPPLY</div><div>DISTRIBUTION</div></div> <div><div>K21001K8556</div></div>															
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<div><div>FROM OTHER MODULE</div><div>24V DC SUPPLY INTERPANEL DISTRIBUTION</div><div><div><div><div><div></div><div>+</div></div><div><div></div><div>+</div></div></div><div><div></div><div>1</div></div><div><div></div><div>2</div></div><div><div></div><div>3</div></div><div><div></div><div>RD</div></div><div><div></div><div>2,5 mm²</div></div></div><div><div></div><div>1</div></div><div><div></div><div>2</div></div><div><div></div><div>4</div></div><div><div></div><div>RD</div></div><div><div></div><div>2,5 mm²</div></div><div><div></div><div>1</div></div><div><div></div><div>2</div></div><div><div></div><div>5</div></div><div><div></div><div>RD</div></div><div><div></div><div>1</div></div><div><div></div><div>RD</div></div><div><div></div><div>24+11</div></div><div><div></div><div>387,2:D</div></div></div><div><div></div><div>24+12</div></div><div><div></div><div>387,4:D</div></div><div><div></div><div>24+22</div></div><div><div></div><div>388,1:D</div></div></div> <div><div><div><div><div></div><div>-</div></div><div><div></div><div>-</div></div></div><div><div></div><div>3</div></div><div><div></div><div>4</div></div><div><div></div><div>6</div></div><div><div></div><div>WH</div></div><div><div></div><div>2,5 mm²</div></div></div><div><div></div><div>3</div></div><div><div></div><div>4</div></div><div><div></div><div>7</div></div><div><div></div><div>WH</div></div><div><div></div><div>2,5 mm²</div></div><div><div></div><div>4</div></div><div><div></div><div>5</div></div><div><div></div><div>6</div></div><div><div></div><div>8</div></div><div><div></div><div>WH</div></div><div><div></div><div>9</div></div><div><div></div><div>WH</div></div><div><div></div><div>10</div></div><div><div></div><div>WH</div></div><div><div></div><div>24-11</div></div><div><div></div><div>387,2:D</div></div></div> <div><div></div><div>24-12</div></div> <div><div></div><div>387,4:D</div></div> <div><div></div><div>24-22</div></div> <div><div></div><div>388,1:D</div></div> <div><div></div><div>-F31</div></div> <div><div></div><div>6A</div></div> <div><div>BE01-WC-006</div><div>CONTROL SUPPLY</div><div>DISTRIBUTION</div></div> <div><div>K21001K8556</div></div>															
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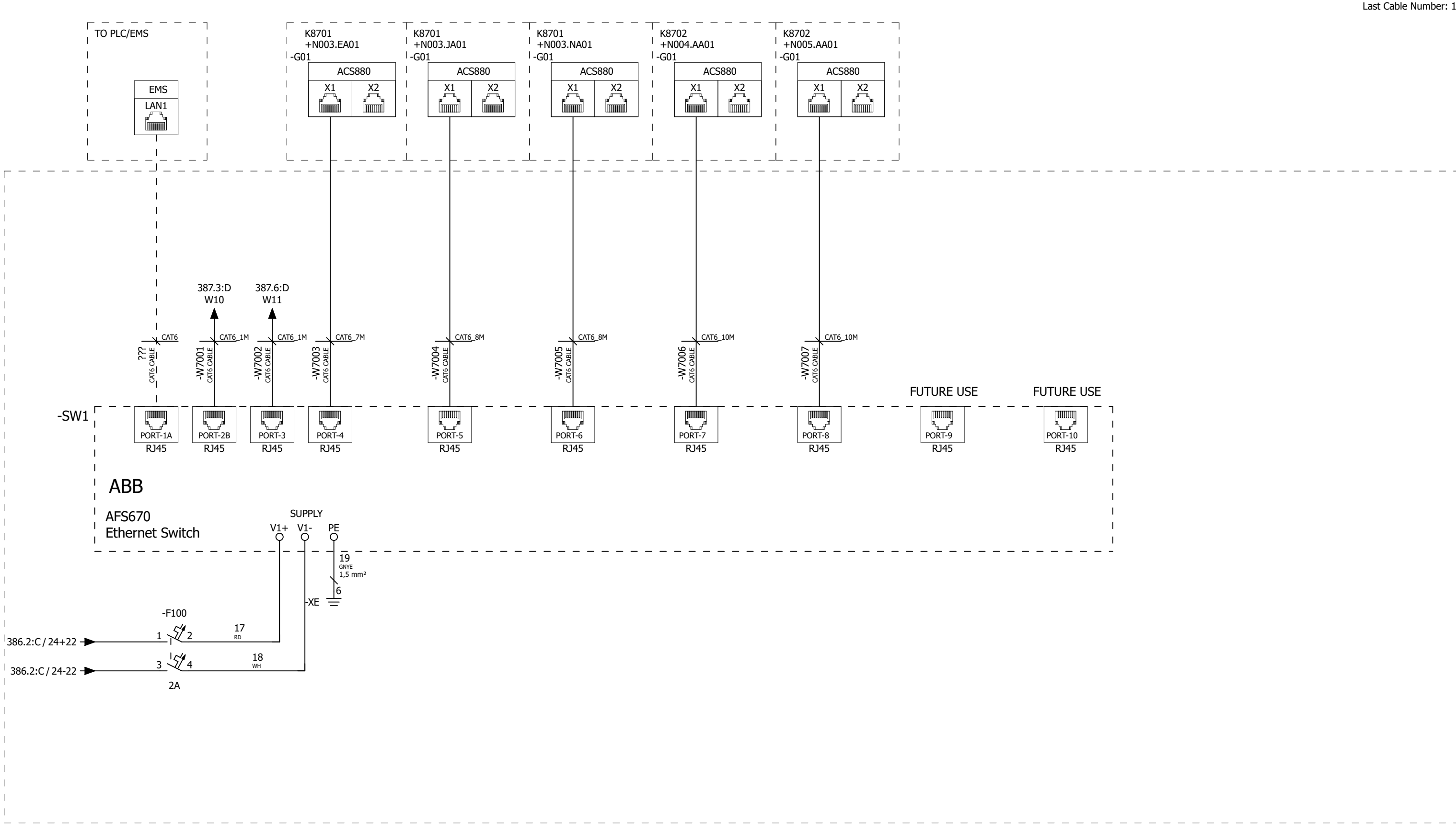
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BE01-WC-006
MOTOR FEEDERS
MODBUS COMMUNICATION

K21001K8556

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BE01-WC-006
NETWORK SWITCH

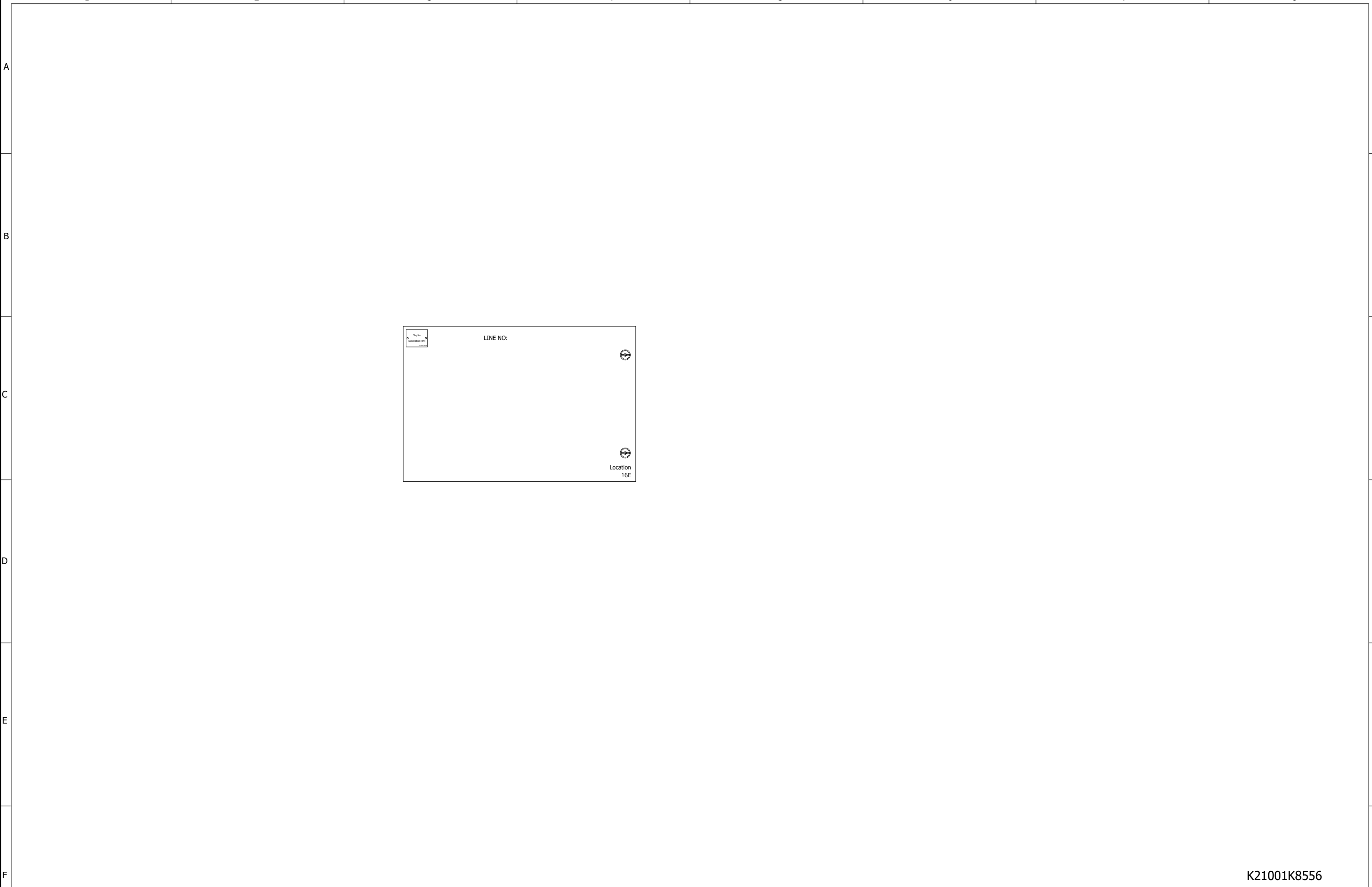
Last Cable Number: 19




K21001K8556

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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title COMMUNICATION DIAGRAM		Drawing No. 4TRD021001C9000		+8556-Com		SIZE A3	
R3V12	03.06.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA													Project No. K21001	PAGE No.	388			
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL																	CONT.	389
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ																		

1 2 3 4 5 6 7 8

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Rev.		Date		Description		SIGN		APPROVED BY : O.YILMAZ								390															
1				2				3				4				5				6				7				8			

K21001K8556

Module Wire List

[illegible]

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

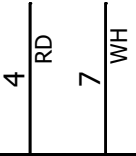
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R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA							Project No. K21001		PAGE No. 390			
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL												
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ									CONT. 391		REV.	

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TERMINAL DIAGRAM

-X6.1

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
1	-F10	1 RD	●	1		/386.1:B
1	-F11	2 RD	●	2		/386.2:B
1	-F100	5 RD	●	3	-F31	/386.2:B
3	-F10	8 WH	●	4	-F31	/386.2:B
3	-F11	9 WH	●	5		/386.2:B
3	-F100	10 WH	●	6		/386.2:B



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




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R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA									Project No. K21001		PAGE No.	391	
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL									CONT.	392			
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ										REV.			

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TERMINAL DIAGRAM
-X13.1

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
1	-F31	3 RD	1			/386.2:A
			2			/386.2:A
3	-F31	6 WH	3			/386.2:A
			4			/386.2: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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8556-Com		SIZE A3									
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA														PAGE No.		392										
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL														CONT.		393										
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ														REV.												
1				2				3				4				5				6				7				8			

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TERMINAL DIAGRAM

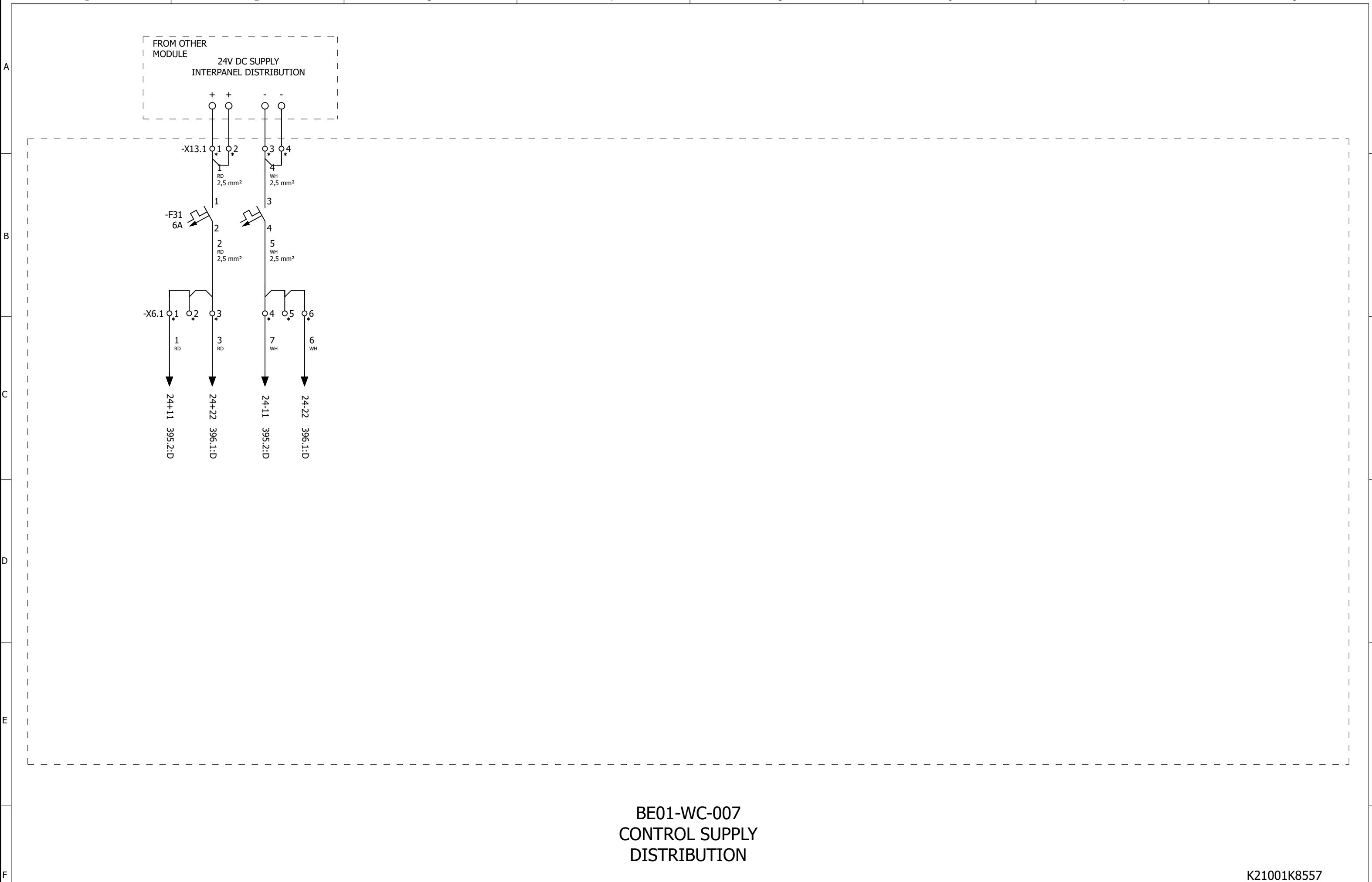
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DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
4	-W10	BU	1	1		/387.2:A
4	-W11	BU	4	4		/387.5:A
3	-W10	WH	2	2		/387.2:A
3	-W11	WH	5	5		/387.5:A
5	-W10	SH	3	3		/387.2:A
5	-W11	SH	6	6		/387.5:A

TOTAL TERMINALS COUNT: 6 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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8556-Com		SIZE A3													
R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA												K21001	CONT. +8557-Com/394	PAGE No. 393		REV.														
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL																														
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ																														
1				2				3				4							5				6				7				8				

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BE01-WC-007
CONTROL SUPPLY
DISTRIBUTION

K21001K8557

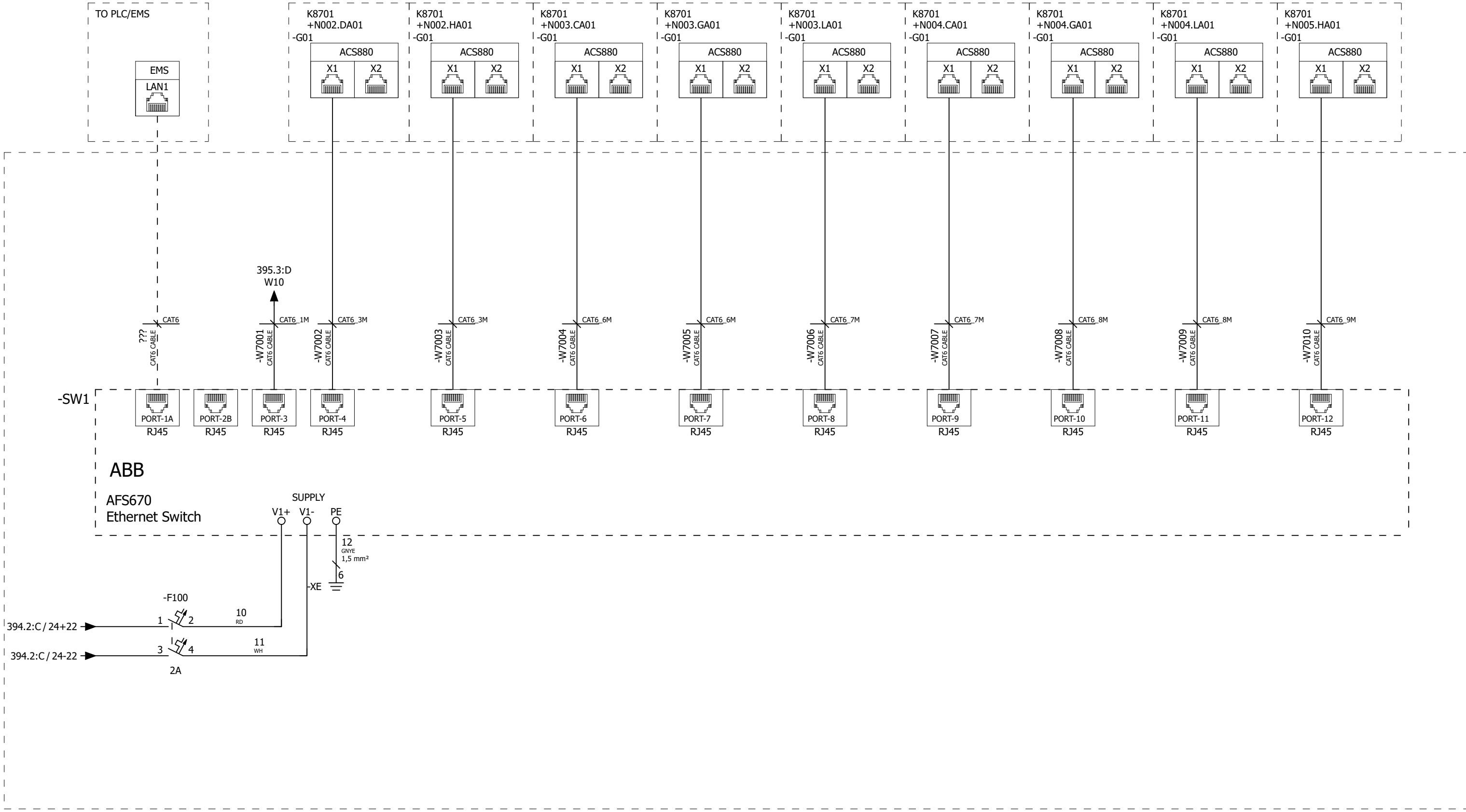
For Approval <input type="checkbox"/> Approved For Construction <input checked="" type="checkbox"/> As Tested <input type="checkbox"/> As Build <input type="checkbox"/>				Supplier ABB ELEKTRİK SAN. A.Ş.		Customer RMG COPPER JSC		End User RMG COPPER JSC		Project TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title COMMUNICATION DIAGRAM		Drawing No. 4TRD021001C9000		+8557-Com	SIZE	A3
R3V12	03.06.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA									Project No. K21001	PAGE No.	394		REV.
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL											CONT.		
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ													

BE01-WC-007 MOTOR FEEDERS MODBUS COMMUNICATION

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R3V12 06.08.2021 Last Revision Date R0V0 11.02.2021 Creation Date Rev. Date Description SIGN				SCALE 1 DESIGNED BY : VINEETHA CHECKED BY : O.TOPAL APPROVED BY : O.YILMAZ								Project No. K21001		PAGE No. 395 CONT. 396		 REV.	

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BE01-WC-007
NETWORK SWITCH

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R3V12	03.06.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA													Project No. K21001		PAGE No.	396		REV.
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL															CONT.	397		
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ																		

1

2

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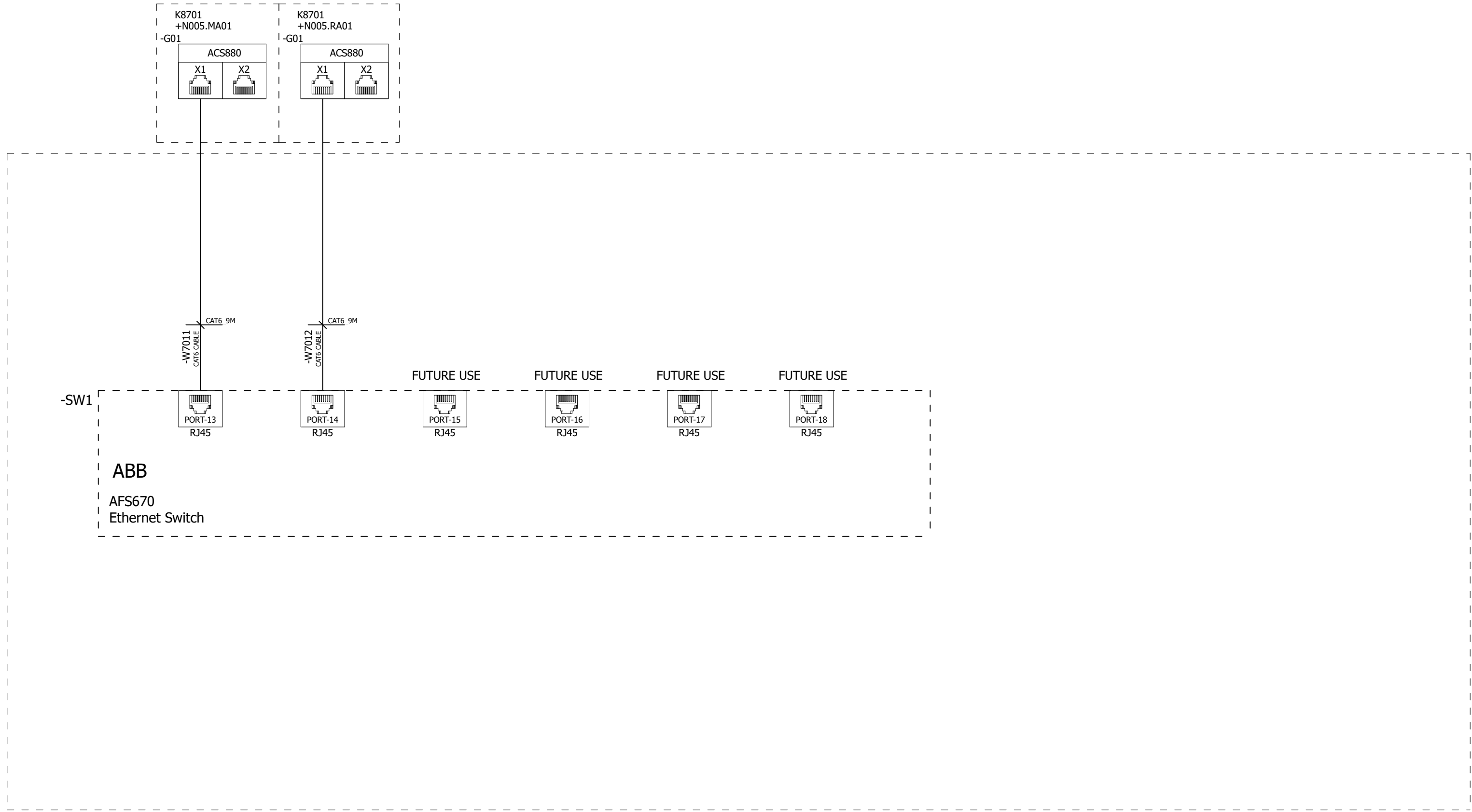
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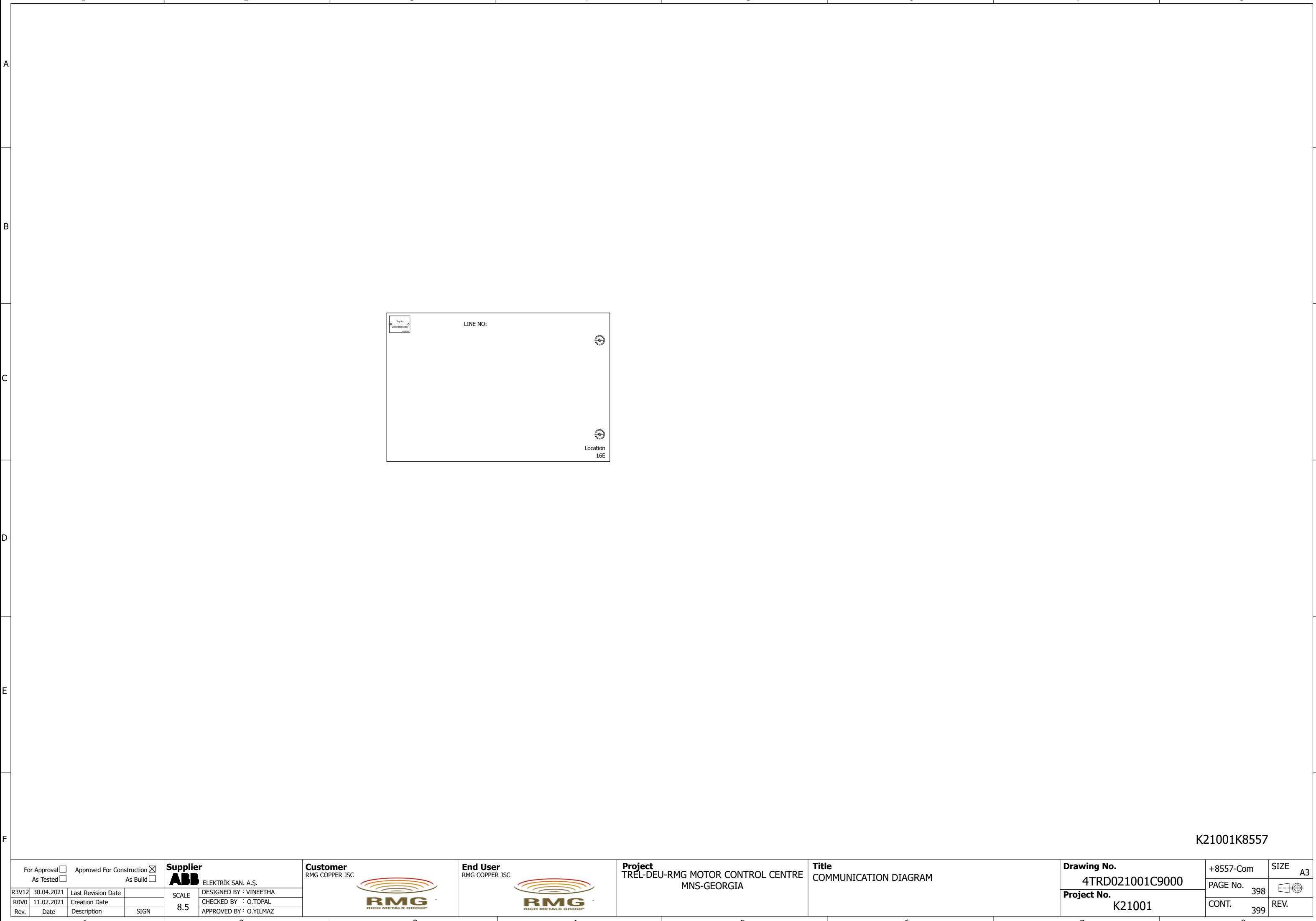





BE01-WC-007
NETWORK SWITCH

K21001K8557

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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title COMMUNICATION DIAGRAM		Drawing No. 4TRD021001C9000		+8557-Com		SIZE A3	
R3V12	19.05.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA													Project No. K21001		PAGE No. 397			
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL													CONT. 398		REV.			
Rev.	Date	Description	SIGN															APPROVED BY : O.YILMAZ					

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<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>RMG COPPER JSC</div> <div></div>		<div>End User</div> <div>RMG COPPER JSC</div> <div></div>		<div>Project</div> <div>TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA</div>		<div>Title</div> <div>COMMUNICATION DIAGRAM</div>		<div>Drawing No.</div> <div>4TRD021001C9000</div>		<div>+8557-Com</div> <div>SIZE A3</div>	
<div>R3V12 30.04.2021 Last Revision Date</div> <div>R0V0 11.02.2021 Creation Date</div> <div>Rev. Date Description SIGN</div>				<div>SCALE</div> <div>8.5</div>		<div>DESIGNED BY : VINEETHA</div> <div>CHECKED BY : O.TOPAL</div> <div>APPROVED BY : O.YILMAZ</div>						<div>Project No.</div> <div>K21001</div>		<div>PAGE No.</div> <div>398</div>		<div></div>	
														<div>CONT.</div> <div>399</div>		<div>REV.</div>	

K21001K8557

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

1	2	3	4	5	6	7	8
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TERMINAL DIAGRAM

-X6.1

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
1	-F10	1 RD	1			/394.1:B
			2			/394.2:B
1	-F100	3 RD	3	-F31	2	/394.2:B
3	-F10	7 WH	4	-F31	4	/394.2:B
			5			/394.2:B
3	-F100	6 WH	6			/394.2:B

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

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R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA													PAGE No.	400		
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL														CONT.		401
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ																

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TERMINAL DIAGRAM
-X13.1

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
1	-F31	1 RD	1 RD			/394.2:A
						/394.2:A
3	-F31	4 WH	3 WH			/394.2:A
						/394.2:A

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

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R3V12	06.08.2021	Last Revision Date		SCALE 1	DESIGNED BY : VINEETHA														PAGE No. 401				
R0V0	11.02.2021	Creation Date			CHECKED BY : O.TOPAL														CONT. 402				
Rev.	Date	Description	SIGN		APPROVED BY : O.YILMAZ														REV.				

TERMINAL DIAGRAM

-X60

DEVICE PIN	DEVICE DESIGNATION	POTENTIAL/ COLOR	POTENTIAL/ COLOR	DEVICE DESIGNATION	DEVICE PIN	PAGE
4	-W10	BU	1	1		/395.2:A
3	-W10	WH	2	2		/395.2:A
5	-W10	SH	3	3		/395.2:A

TOTAL TERMINALS COUNT: 3 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 TREL-DEU-RMG MOTOR CONTROL CENTRE MNS-GEORGIA		Title Terminal Connection Diagram		Drawing No. 4TRD021001C9000		+8557-Com		SIZE A3	
R3V12 06.08.2021 Last Revision Date ROV0 11.02.2021 Creation Date Rev. Date Description SIGN				SCALE 1		DESIGNED BY : VINEETHA CHECKED BY : O.TOPAL APPROVED BY : O.YILMAZ						Project No. K21001		PAGE No. 402				CONT. REV.	