

MANUFACTURE : Control_Group
02-44060928
Altatbiqueen Building - Alex agriculture Road, Cairo, Egypt
www.controlgroup-eg.net



CLIENT : نيومكس

END USER : شركة مياه الشرب والصرف الصحي بقنا
اعادة تأهيل محطة مياه الشرب بناحية الحميدات



9/27/2022

Created on
Edit date

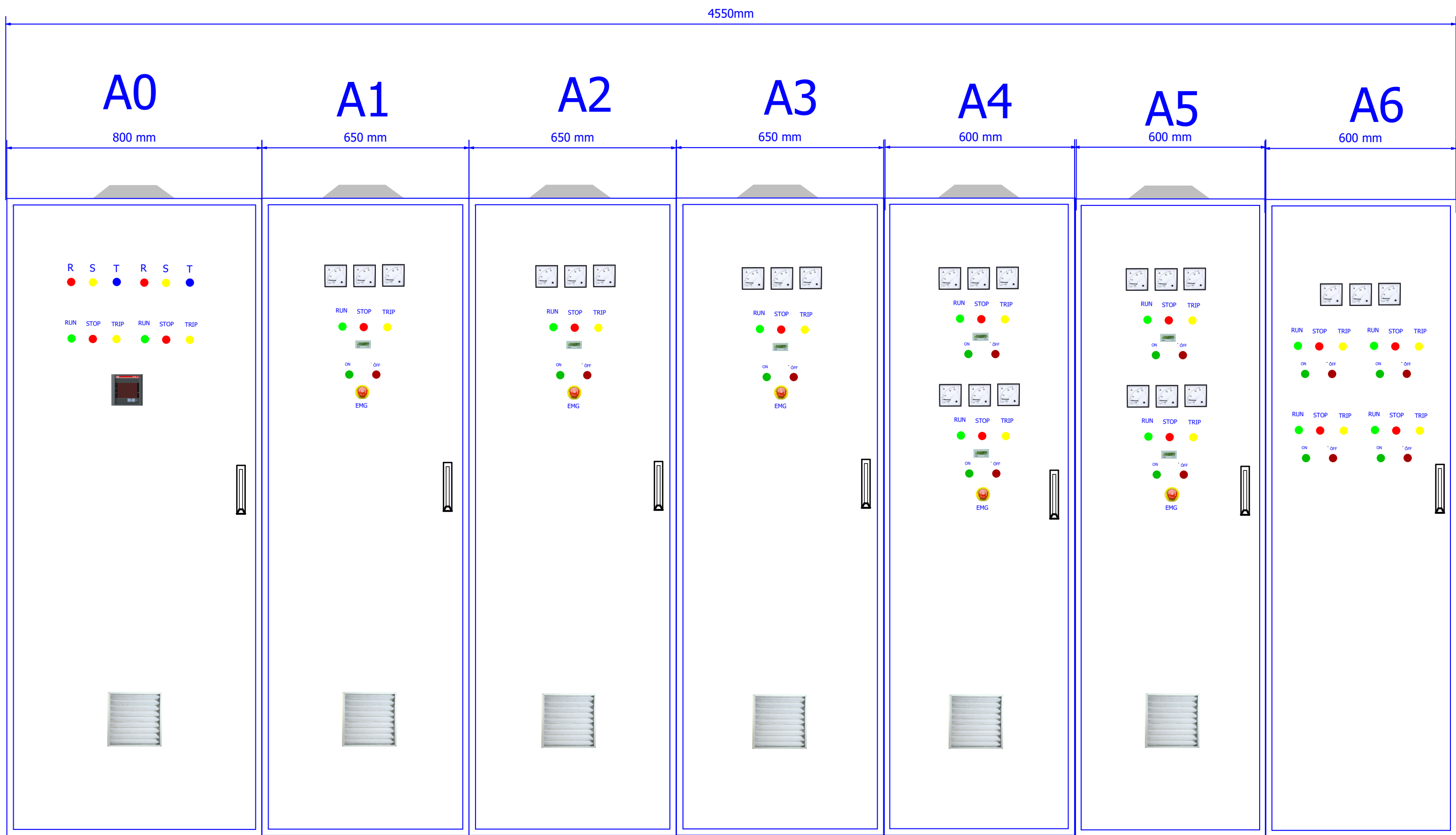
10/31/2022

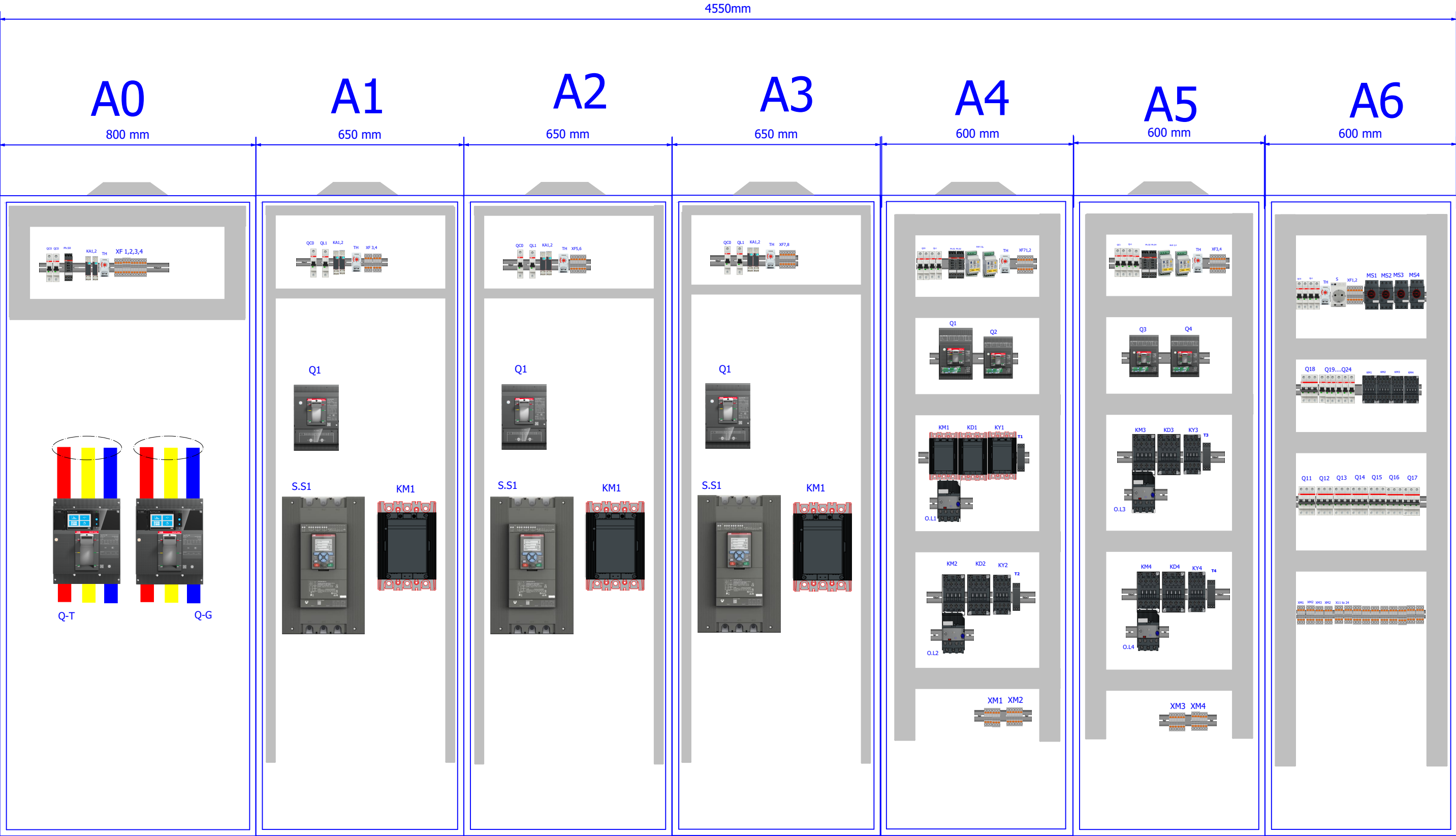
79 Number of pages

Table of contents

Page	Page description	supplementary page field	Date	Edited by	X
/1	Title page / cover sheet		10/27/2022	EMAN	X
/2	Table of contents : /1 - =4-Washing Pumps/16.e		10/31/2022	EMAN	
/2.a	Table of contents : =4-Washing Pumps/18 - =7-38/الشبة والكلور		10/31/2022	EMAN	
/2.b	Table of contents : =7-38/الشبة والكلور.a - =8-Lightening/47		10/31/2022	EMAN	
=0-MDB+INCOMING/3	Panel Specification of MDB		10/31/2022	EMAN	X
=0-MDB+INCOMING/4	Panel Layout- Closed Door		10/31/2022	EMAN	
=0-MDB+INCOMING/5	Panel Layout - Front Internal		10/31/2022	EMAN	
=0-MDB+INCOMING/6	Panel Layout - Front Internal (Continous)		10/31/2022	EMAN	
=0-MDB+INCOMING/6-	Panel Layout - Back Internal (Continous)		10/31/2022	EMAN	
=0-MDB+INCOMING/8	SLD		10/31/2022	EMAN	
=0-MDB+INCOMING/9	Main Incoming Interlock - A0		10/31/2022	EMAN	
=0-MDB+INCOMING/11	Control Circuit of the transformer and generator interlock- A0		10/31/2022	EMAN	
=1- High Pressure Pump1/10	Outgoing Circuit#1 High Pressure Pump 132KW A1		10/31/2022	EMAN	
=1- High Pressure Pump1/10.a	Control Circuit and LIghtening - A1		10/31/2022	EMAN	
=1- High Pressure Pump1/10.b	Control circuit 1 A1		10/31/2022	EMAN	
=2-High Pressure Pump2/11	Outgoing Circuit#2 High Pressure Pump 132KW A2		10/31/2022	EMAN	
=2-High Pressure Pump2/11.a	Control Circuit and LIghtening- A2		10/31/2022	EMAN	
=2-High Pressure Pump2/11.b	Control circuit 2 A2		10/31/2022	EMAN	
=3-High Pressure Pump3/12	Outgoing Circuit#3 High Pressure Pump 132KW A3		10/31/2022	EMAN	
=3-High Pressure Pump3/12.a	Control Circuit and LIghtening- A3		10/31/2022	EMAN	
=3-High Pressure Pump3/12.b	Control circuit 3 A3		10/31/2022	EMAN	
=4-Washing Pumps/13	Outgoin power circuit# Blower Pump1 75KW-S/D- A4		10/31/2022	EMAN	
=4-Washing Pumps/14	Outgoin power circuit# Blower Pump2 55KW-S/D- A4		10/31/2022	EMAN	
=4-Washing Pumps/14.a	Control Circuit and LIghtening1- A4		10/31/2022	EMAN	
=4-Washing Pumps/14.b	Control Circuit OF Earth leakage A4		10/31/2022	EMAN	
=4-Washing Pumps/14.c	Control Circuit -Blower Pump1 75KW- A4		10/31/2022	EMAN	
=4-Washing Pumps/14.d	Control Circuit- Blower Pump2 55KW- A4		10/31/2022	EMAN	
=4-Washing Pumps/15	Outgoin power circuit# Washing Pump1 55KW-S/D- A5		10/31/2022	EMAN	
=4-Washing Pumps/16	Outgoin power circuit# Washing Pump2 55KW-S/D- A5		10/31/2022	EMAN	
=4-Washing Pumps/16.a	Control Circuit and LIghtening- A5		10/31/2022	EMAN	
=4-Washing Pumps/16.b	Control Circuit of earth leakage- A5		10/31/2022	EMAN	
=4-Washing Pumps/16.c	Control Circuit- Washing Pump1 55KW- A5		10/31/2022	EMAN	
=4-Washing Pumps/16.e	Control Circuit - Washing Pump2 55KW- A5		10/31/2022	EMAN	

0	1	2	3	4	5	6	7	8	9																																																																																																																																																						
<table><tr><td colspan="10">PANELS SPECIFICATION</td></tr><tr><td colspan="3"></td><td colspan="7">MDB</td></tr><tr><td colspan="10">ENCLOSURE</td></tr><tr><td colspan="3">TYPE</td><td colspan="7">Local</td></tr><tr><td colspan="3">DIMENSION</td><td colspan="7">(2000*(1*800+3*650+3*600)*600) mm</td></tr><tr><td colspan="3">IP DEGREE</td><td colspan="7">IP54</td></tr><tr><td colspan="3">COLOR</td><td colspan="7">RAL7035</td></tr><tr><td colspan="3">MOUNTING</td><td colspan="7">Free Stand</td></tr><tr><td colspan="3">LOCATION</td><td colspan="7">Indoor</td></tr><tr><td colspan="10">POWER SYSTEM</td></tr><tr><td colspan="3">POWER VOLTAGE (AC)</td><td colspan="7">380/220 VAC</td></tr><tr><td colspan="3">CONTROL VOLTAGE (AC)</td><td colspan="7">220V AC</td></tr><tr><td colspan="10">BUS BAR SIZE</td></tr><tr><td colspan="3">CONTROL WIRE</td><td colspan="7">1.0 mm BLACK, BLUE, RED</td></tr><tr><td colspan="3">CU of C.B</td><td colspan="7">90*10</td></tr></table>										PANELS SPECIFICATION													MDB							ENCLOSURE										TYPE			Local							DIMENSION			(2000*(1*800+3*650+3*600)*600) mm							IP DEGREE			IP54							COLOR			RAL7035							MOUNTING			Free Stand							LOCATION			Indoor							POWER SYSTEM										POWER VOLTAGE (AC)			380/220 VAC							CONTROL VOLTAGE (AC)			220V AC							BUS BAR SIZE										CONTROL WIRE			1.0 mm BLACK, BLUE, RED							CU of C.B			90*10						
PANELS SPECIFICATION																																																																																																																																																															
			MDB																																																																																																																																																												
ENCLOSURE																																																																																																																																																															
TYPE			Local																																																																																																																																																												
DIMENSION			(2000*(1*800+3*650+3*600)*600) mm																																																																																																																																																												
IP DEGREE			IP54																																																																																																																																																												
COLOR			RAL7035																																																																																																																																																												
MOUNTING			Free Stand																																																																																																																																																												
LOCATION			Indoor																																																																																																																																																												
POWER SYSTEM																																																																																																																																																															
POWER VOLTAGE (AC)			380/220 VAC																																																																																																																																																												
CONTROL VOLTAGE (AC)			220V AC																																																																																																																																																												
BUS BAR SIZE																																																																																																																																																															
CONTROL WIRE			1.0 mm BLACK, BLUE, RED																																																																																																																																																												
CU of C.B			90*10																																																																																																																																																												
=+/2.b																																																																																																																																																															
<table><tr><td colspan="2">REV.6</td><td colspan="2">27/10/2022</td><td colspan="2">Date</td><td colspan="2">10/31/2022</td><td colspan="2">Client: نيومكس</td></tr><tr><td colspan="2">REV.5</td><td colspan="2">26/10/2022</td><td colspan="2">Ed.</td><td colspan="2">EMAN</td><td colspan="2">Control Group</td></tr><tr><td colspan="2">REV.4</td><td colspan="2">25/10/2022</td><td colspan="2">Appr.</td><td colspan="2">Eng. Adel Abd Elwahab</td><td colspan="2">Project: RFQ(E-12-03-22)_محطة مياه الشرب بناحية الحميدات_إعادة تأهيل_V10</td></tr><tr><td colspan="2">Modification</td><td colspan="2">Date</td><td colspan="2">Name</td><td colspan="2">Original</td><td colspan="2">Replacement of</td></tr><tr><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2">Replaced by</td></tr></table>										REV.6		27/10/2022		Date		10/31/2022		Client: نيومكس		REV.5		26/10/2022		Ed.		EMAN		Control Group		REV.4		25/10/2022		Appr.		Eng. Adel Abd Elwahab		Project: RFQ(E-12-03-22)_محطة مياه الشرب بناحية الحميدات_إعادة تأهيل_V10		Modification		Date		Name		Original		Replacement of										Replaced by																																																																																																					
REV.6		27/10/2022		Date		10/31/2022		Client: نيومكس																																																																																																																																																							
REV.5		26/10/2022		Ed.		EMAN		Control Group																																																																																																																																																							
REV.4		25/10/2022		Appr.		Eng. Adel Abd Elwahab		Project: RFQ(E-12-03-22)_محطة مياه الشرب بناحية الحميدات_إعادة تأهيل_V10																																																																																																																																																							
Modification		Date		Name		Original		Replacement of																																																																																																																																																							
								Replaced by																																																																																																																																																							
<table><tr><td colspan="4">CG</td><td colspan="2">CONTROL GROUP</td><td colspan="2">Design Department</td><td colspan="2">Panel Specification of MDB</td></tr><tr><td colspan="4"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td></tr><tr><td colspan="4"></td><td colspan="2"></td><td colspan="2">IEC_tp1003</td><td colspan="2">Page 3</td></tr><tr><td colspan="4"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2">Page 5 / 79</td></tr></table>										CG				CONTROL GROUP		Design Department		Panel Specification of MDB																		IEC_tp1003		Page 3										Page 5 / 79																																																																																																															
CG				CONTROL GROUP		Design Department		Panel Specification of MDB																																																																																																																																																							
						IEC_tp1003		Page 3																																																																																																																																																							
								Page 5 / 79																																																																																																																																																							



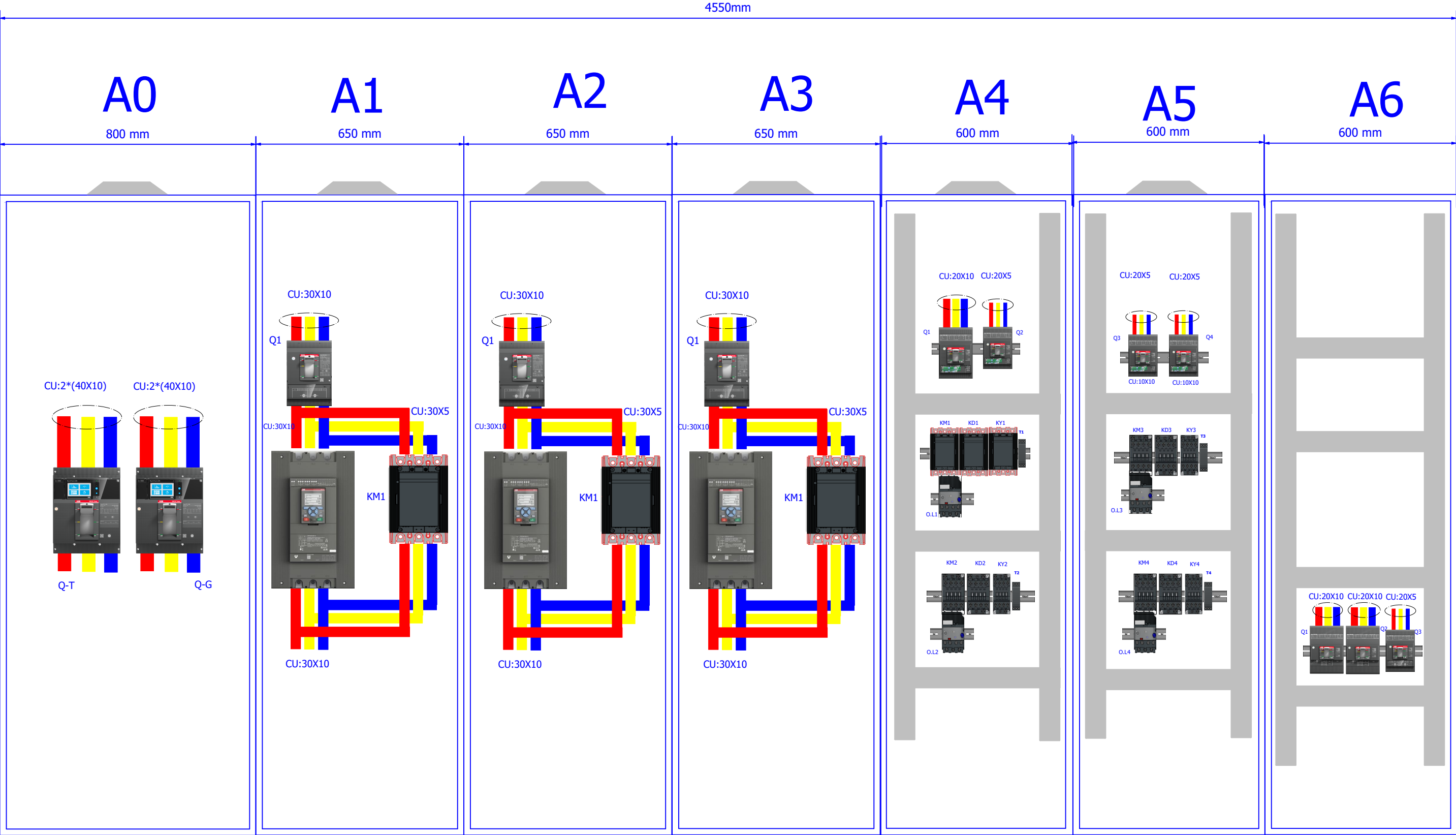


Incoming

For High Pressure Pumps

مهمات الغسيل

0	1	2	3	4	5	6	7	8	9
---	---	---	---	---	---	---	---	---	---



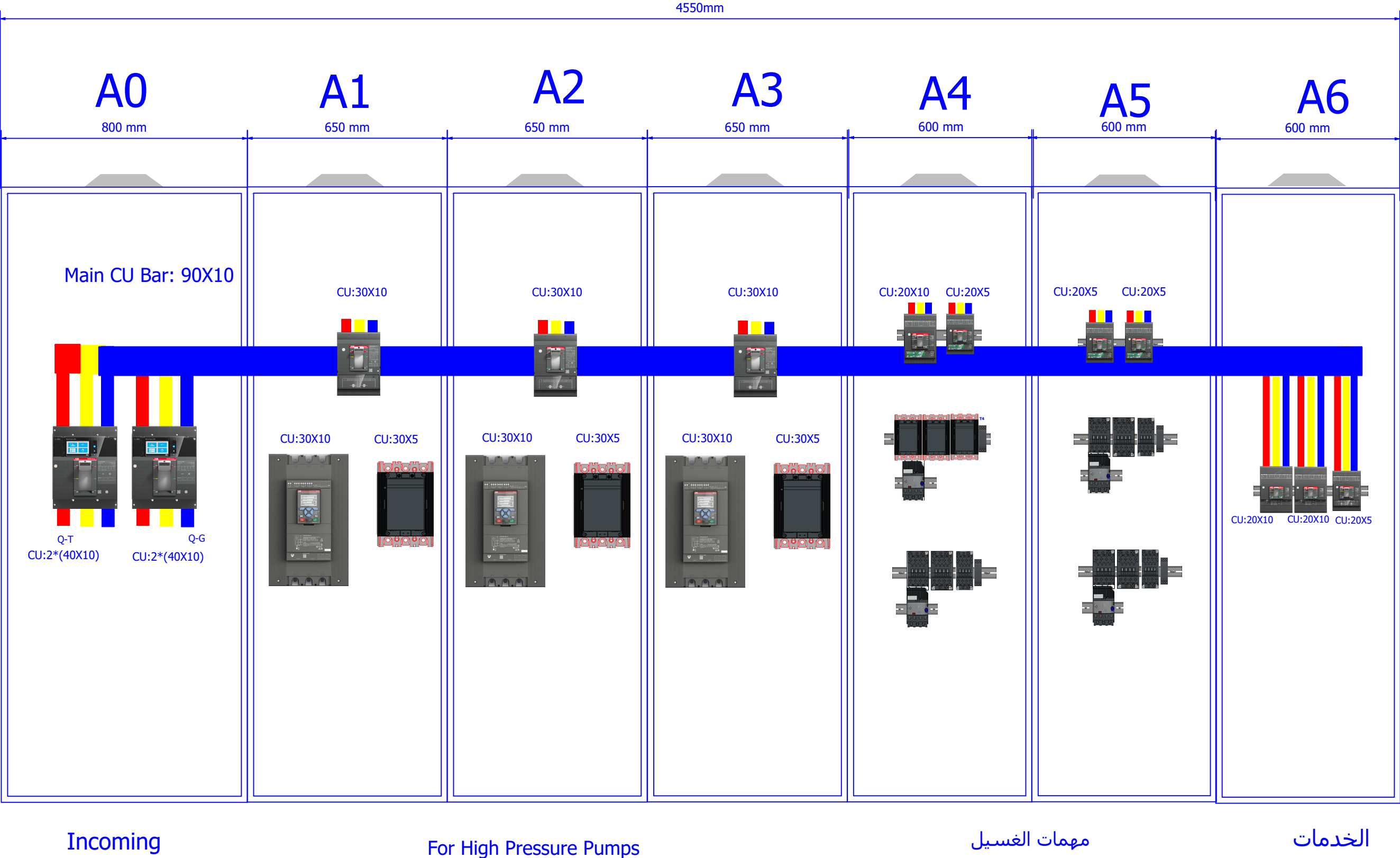
Incoming

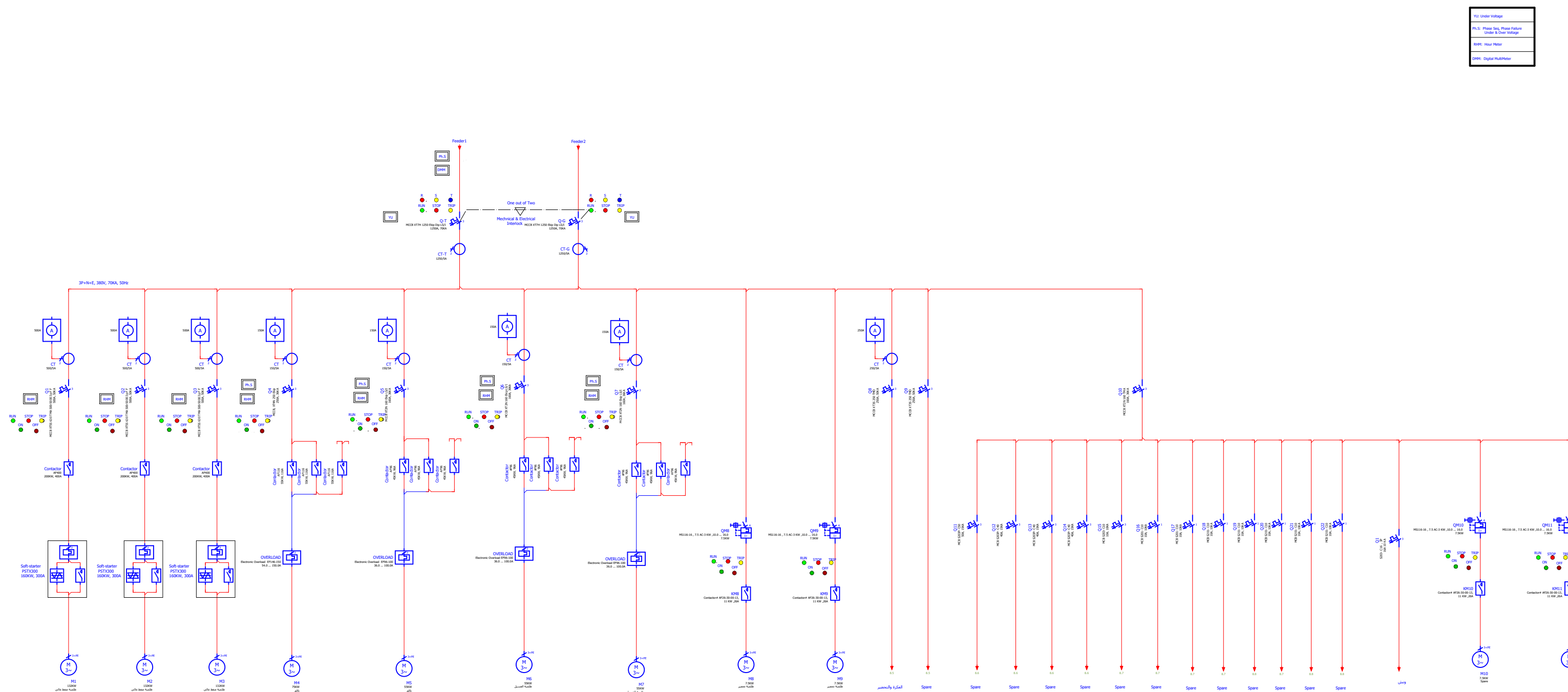
For High Pressure Pumps


مهمات الغسيل

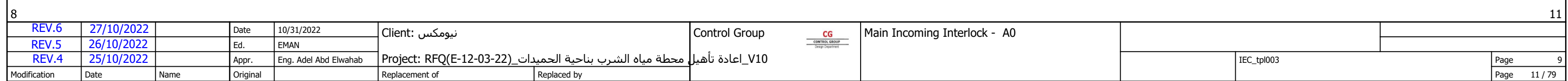
الخدمات

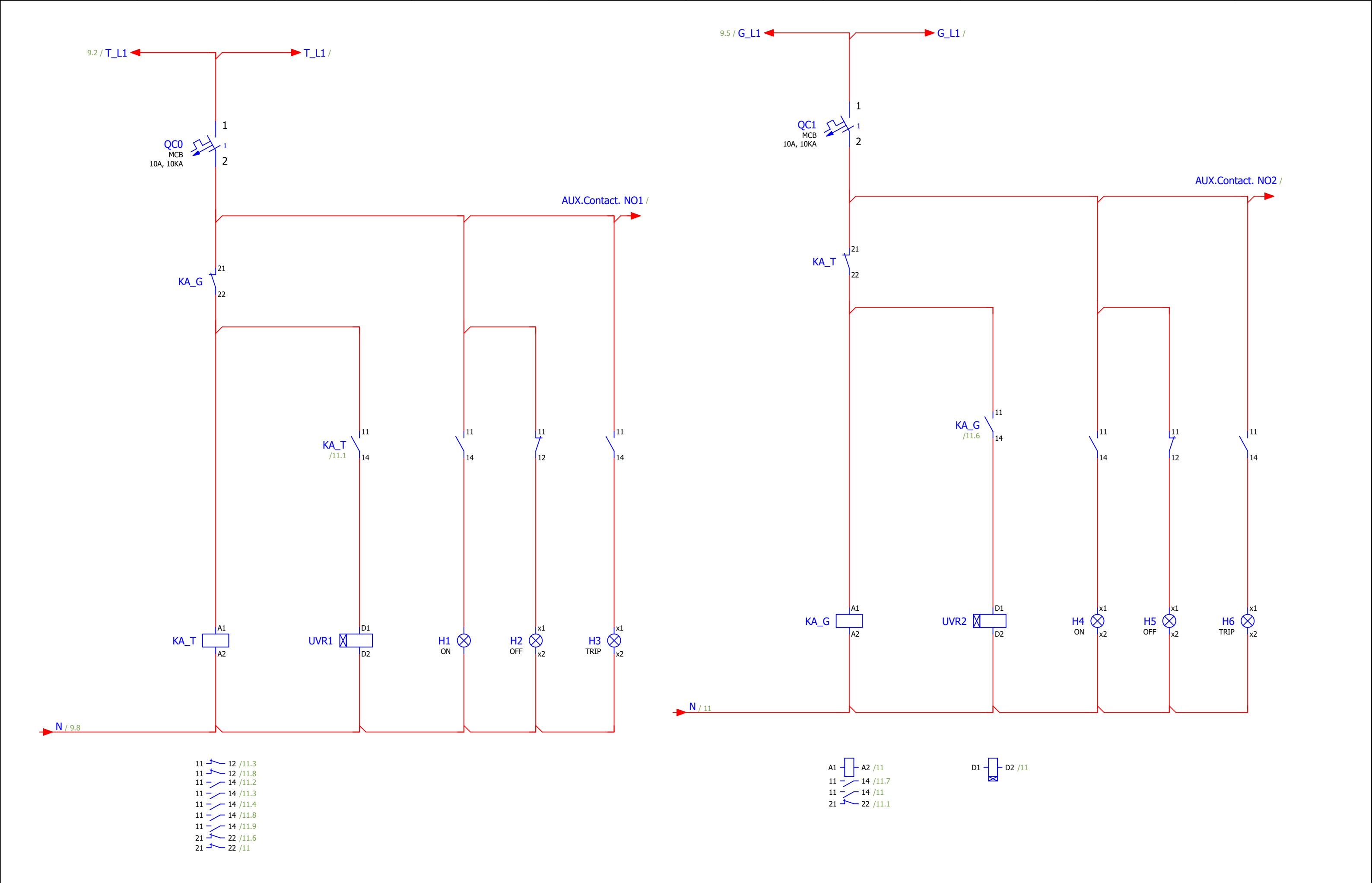
5	REV.6	27/10/2022		Date	10/31/2022	Client: نيومكس	Control Group	CG	Panel Layout - Front Internal (Continous)			
	REV.5	26/10/2022		Ed.	EMAN							
	REV.4	25/10/2022		Appr.	Eng. Adel Abd Elwahab	Project: RFQ(E-12-03-22) محطة مياه الشرب بناحية الحميدات	اعادة تأهيل_V10				IEC_tpl003	Page 6
Modification	Date	Name	Original	Replacement of	Replaced by							Page 8 / 79

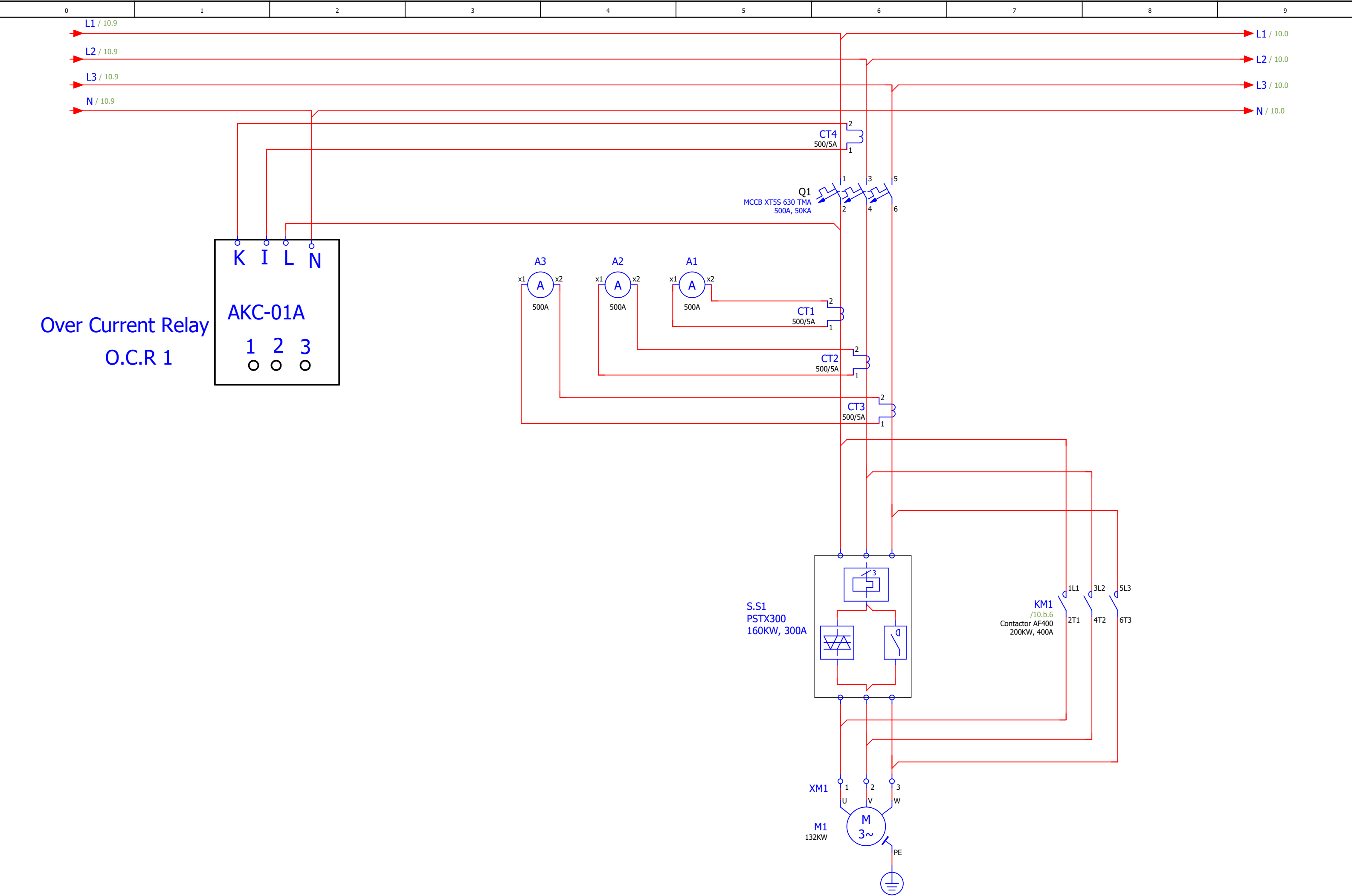




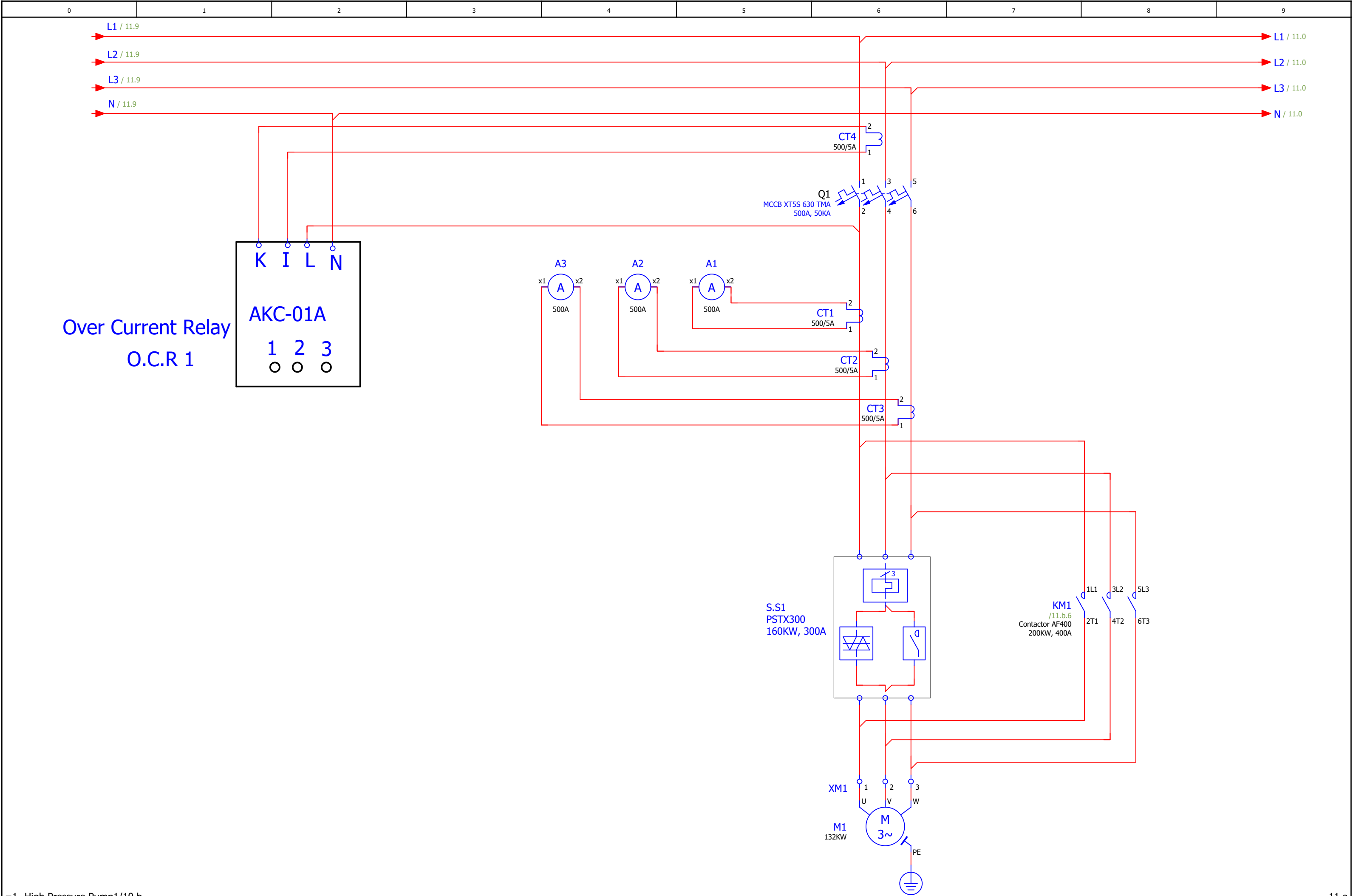
REV.6	27/10/2022		Date	10/31/2022	Client: نيومكس	Control Group		SLD			
REV.5	26/10/2022		Ed.	EMAN							
REV.4	25/10/2022		Appr.	Eng. Adel Abd Elwahab					Project: RFQ(E-12-03-22)_محطة مياه الشرب بناحية الحميدات	V10_إعادة تأهيل	
Modification	Date	Name	Original		Replacement of	Replaced by				Page 10 / 79	





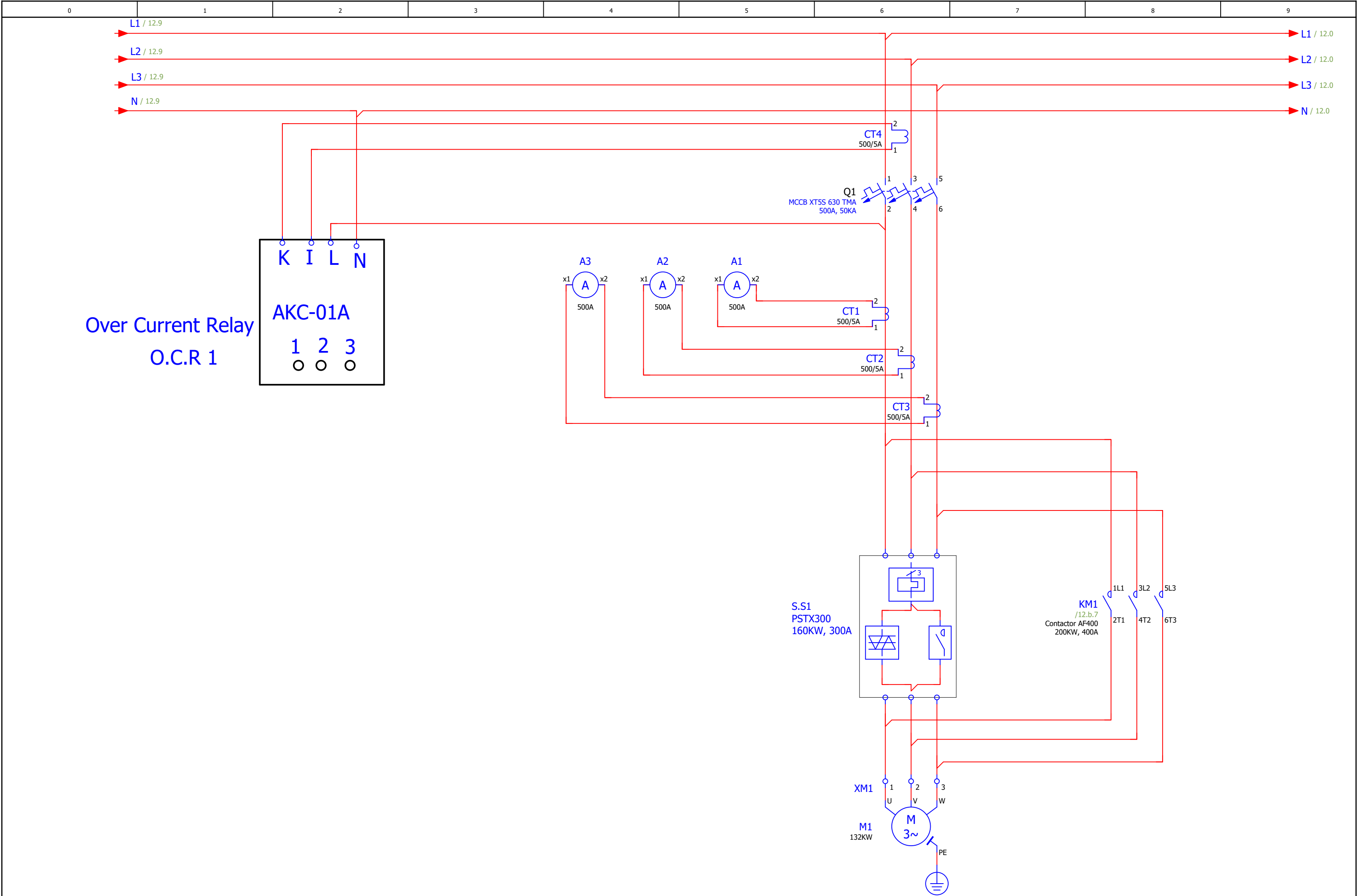


=0-MDB+INCOMING/11										10.a			
REV.6	27/10/2022		Date	10/31/2022	Client: نيومكس		Control Group 	Outgoing Circuit#1 High Pressure Pump 132KW A1					
REV.5	26/10/2022		Ed.	EMAN									
REV.4	25/10/2022		Appr.	Eng. Adel Abd Elwahab	Project: RFQ(E-12-03-22)_محطة مياه الشرب بناحية الحميدات					IEC_tpl003			
Modification	Date	Name	Original		Replacement of	Replaced by							
										Page 10			
										Page 13 / 79			



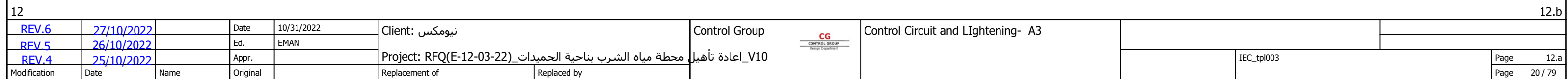
=1- High Pressure Pump1/10.b

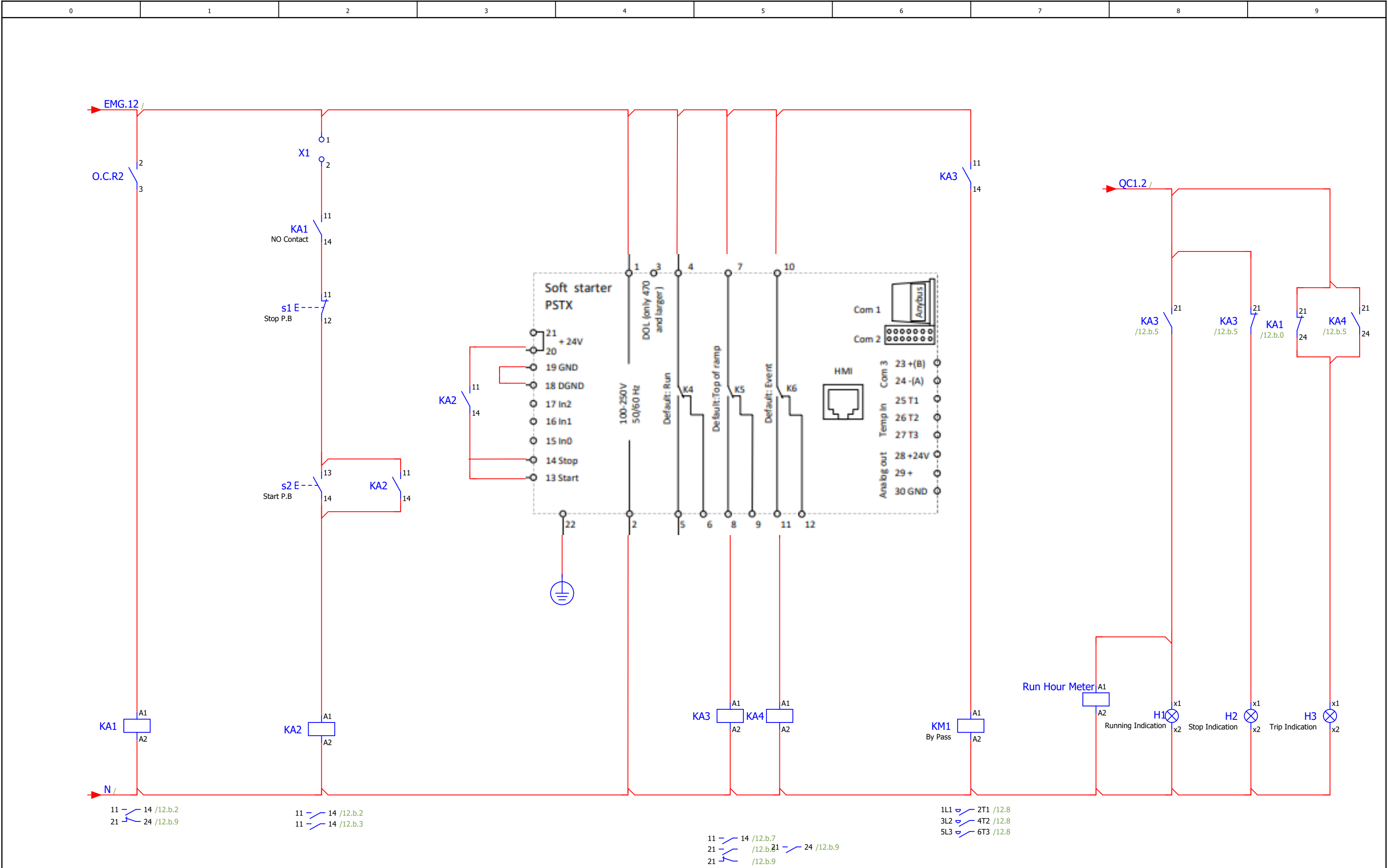
REV.6	27/10/2022		Date	10/31/2022	Client: نيومكس	Control Group	CG CONTROL GROUP Design Department	Outgoing Circuit#2 High Pressure Pump 132KW A2			Page 11
REV.5	26/10/2022		Ed.	EMAN							
REV.4	25/10/2022		Appr.	Eng. Adel Abd Elwahab							
Modification	Date	Name	Original		Replacement of	Replaced by			IEC_tpl003		Page 16 / 79



=2-High Pressure Pump2/11.b

REV.6	27/10/2022		Date	10/31/2022	Client: نيومكس	Control Group	CG CONTROL GROUP Design Department	Outgoing Circuit#3 High Pressure Pump 132KW A3				
REV.5	26/10/2022		Ed.	EMAN								
REV.4	25/10/2022		Appr.	Eng. Adel Abd Elwahab								
Modification	Date	Name	Original		Replacement of	Replaced by			IEC_tpl003		Page	12
										Page		19 / 79

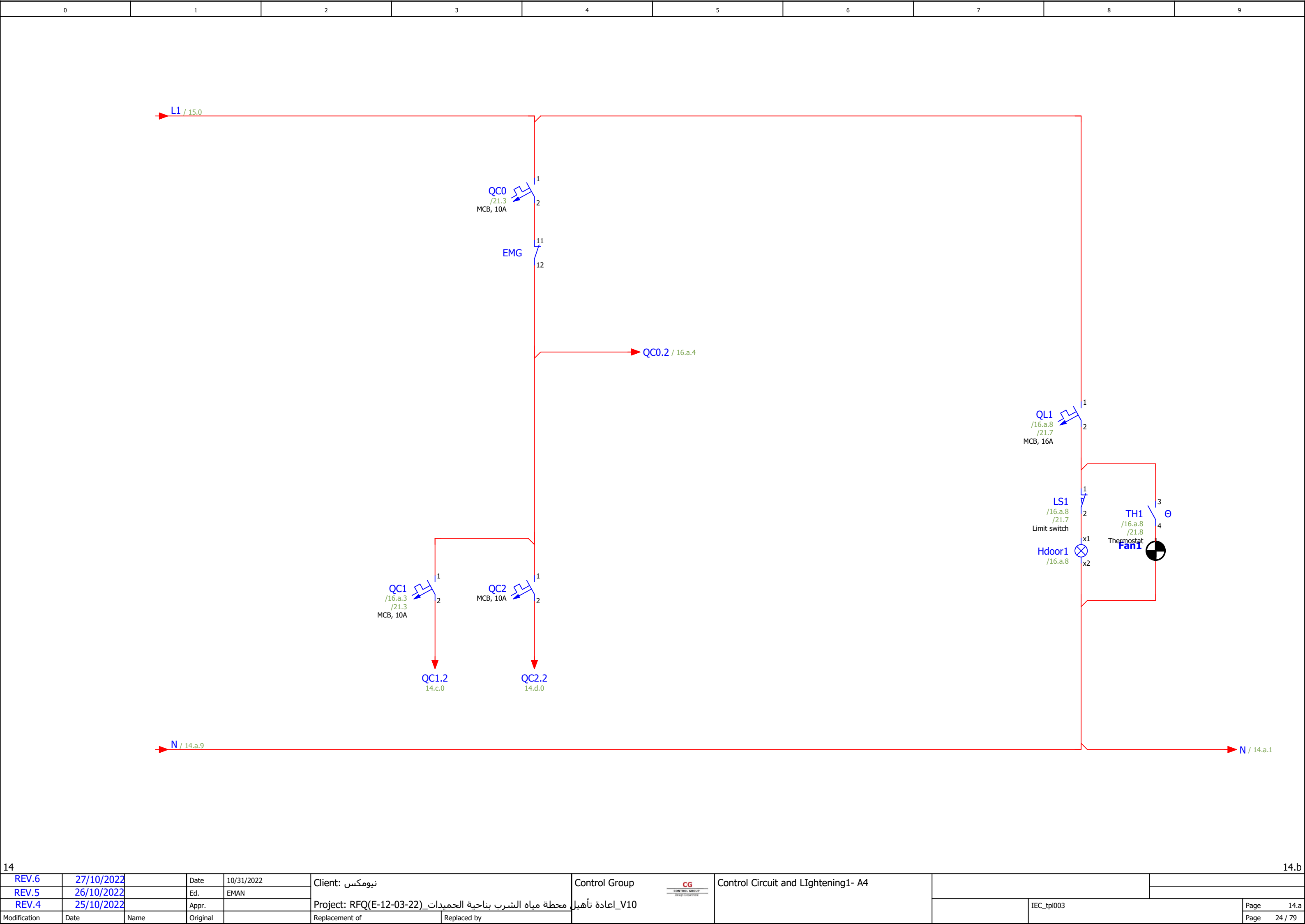




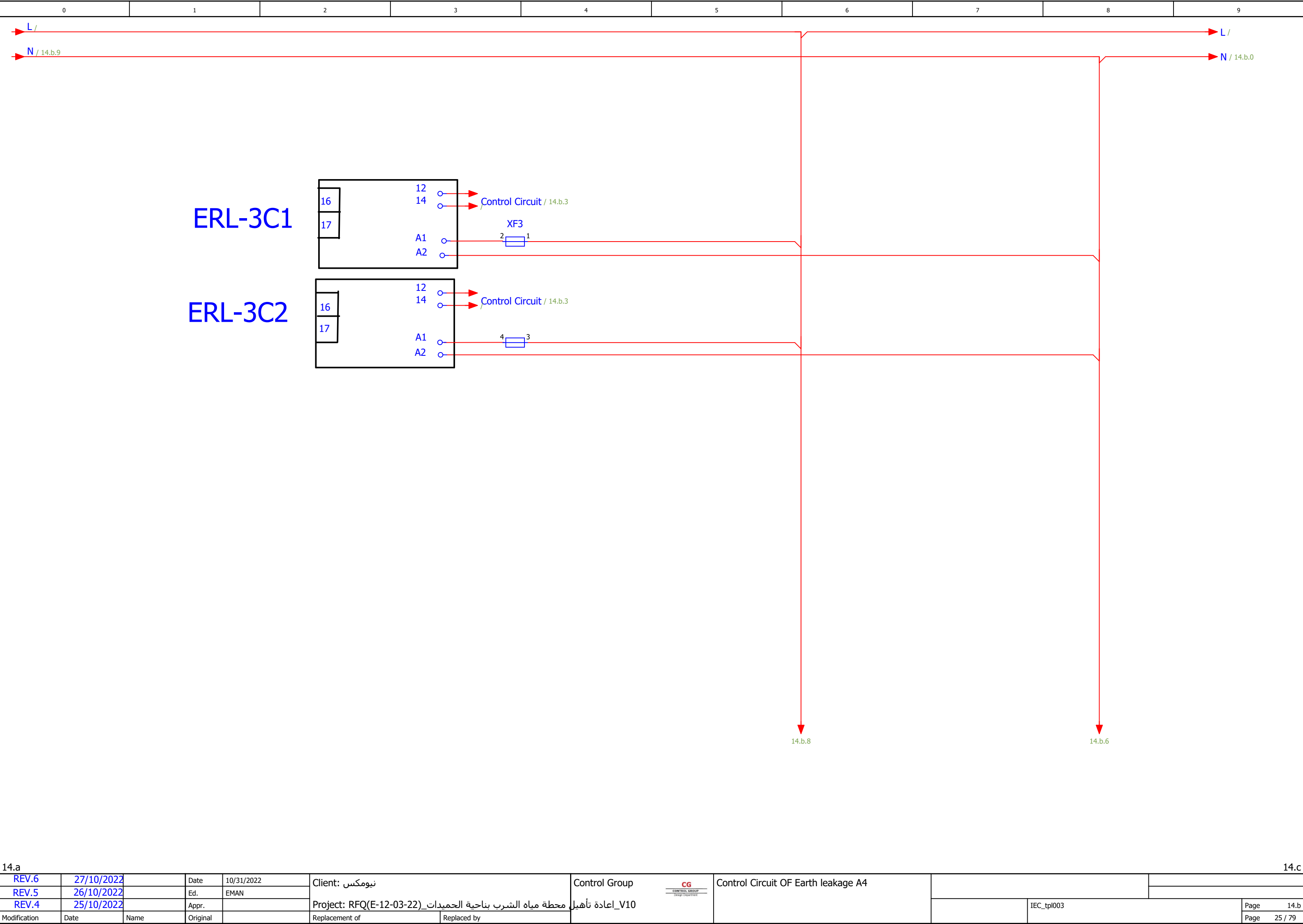
12.a

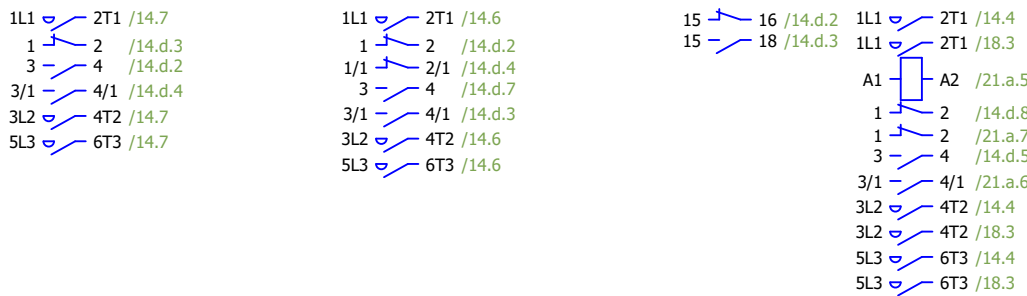
REV.6		27/10/2022		Date	10/31/2022	Client: نيومكس	Control Group	Control circuit 3 A3				
REV.5		26/10/2022		Ed.	EMAN							
REV.4		25/10/2022		Appr.								
Modification	Date	Name	Original			Replacement of	Replaced by		IEC_tpl003		Page	12.b
											Page	21 / 79


=4-Washing Pumps/13




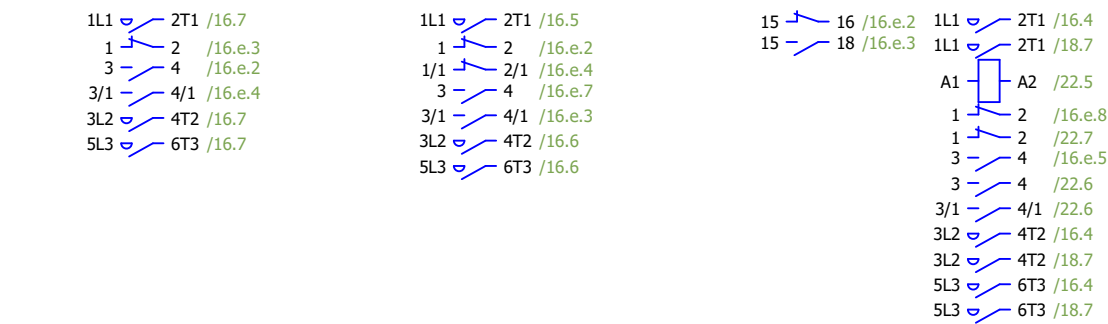
REV.6	27/10/2022		Date	10/31/2022	Client: نيومكس	Control Group	<div>CG</div> <div>CONTROL GROUP</div> <div>Design Department</div>	Control Circuit and LIghtening1- A4				
REV.5	26/10/2022		Ed.	EMAN								
REV.4	25/10/2022		Appr.									
Modification	Date	Name	Original		Replacement of	Replaced by			IEC_tpl003		Page	14.a
											Page	24 / 79






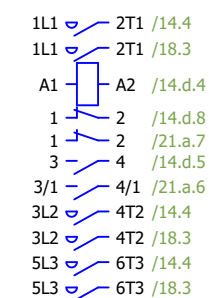
REV.6	27/10/2022		Date	10/31/2022	Client: نيومكس Project: RFQ(E-12-03-22)_محطة مياه الشرب بناحية الحميدات_إعادة تأهيل V10	Control Group 	Control Circuit- Blower Pump2 55KW- A4			
REV.5	26/10/2022		Ed.	EMAN						
REV.4	25/10/2022		Appr.							
Modification	Date	Name	Original		Replacement of	Replaced by			IEC_tp1003	Page 14.d Page 27 / 79

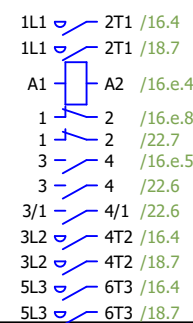
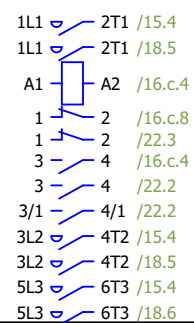
REV.6	27/10/2022		Date	10/31/2022	Client: نيومكس	Control Group	Control Circuit and Lightening- A5				
REV.5	26/10/2022		Ed.	EMAN							
REV.4	25/10/2022		Appr.								
Project: RFQ(E-12-03-22)_محطة مياه الشرب بناحية الحميدات					إعادة تأهيل_V10			IEC_tpl003		Page 16.a	
Modification	Date	Name	Original		Replacement of			Replaced by			Page 30 / 79




REV.6	27/10/2022		Date	10/31/2022	Client: نيومكس	Control Group	Control Circuit - Washing Pump2 55KW- A5		
REV.5	26/10/2022		Ed.	EMAN					
REV.4	25/10/2022		Appr.						
Modification	Date	Name	Original		Project: RFQ(E-12-03-22)_محطة مياه الشرب بناحية الحميدات	إعادة تأهيل_V10		IEC_tp1003	Page 16.e
			Replacement of	Replaced by					Page 33 / 79

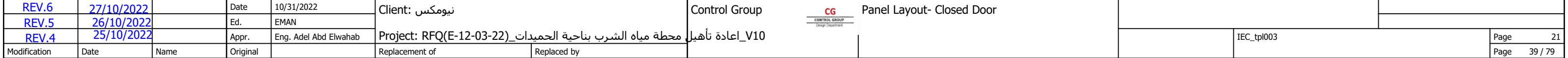
REV.6	27/10/2022		Date	10/31/2022	Client: نيومكس Project: RFQ(E-12-03-22)_محطة مياه الشرب بناحية الحميدات_إعادة تأهيل_V10		Control Circuit and Lightning- A6			
REV.5	26/10/2022		Ed.	EMAN						
REV.4	25/10/2022		Appr.							
Modification	Date	Name	Original		Replacement of	Replaced by			IEC_tpl003	Page 21 Page 35 / 79

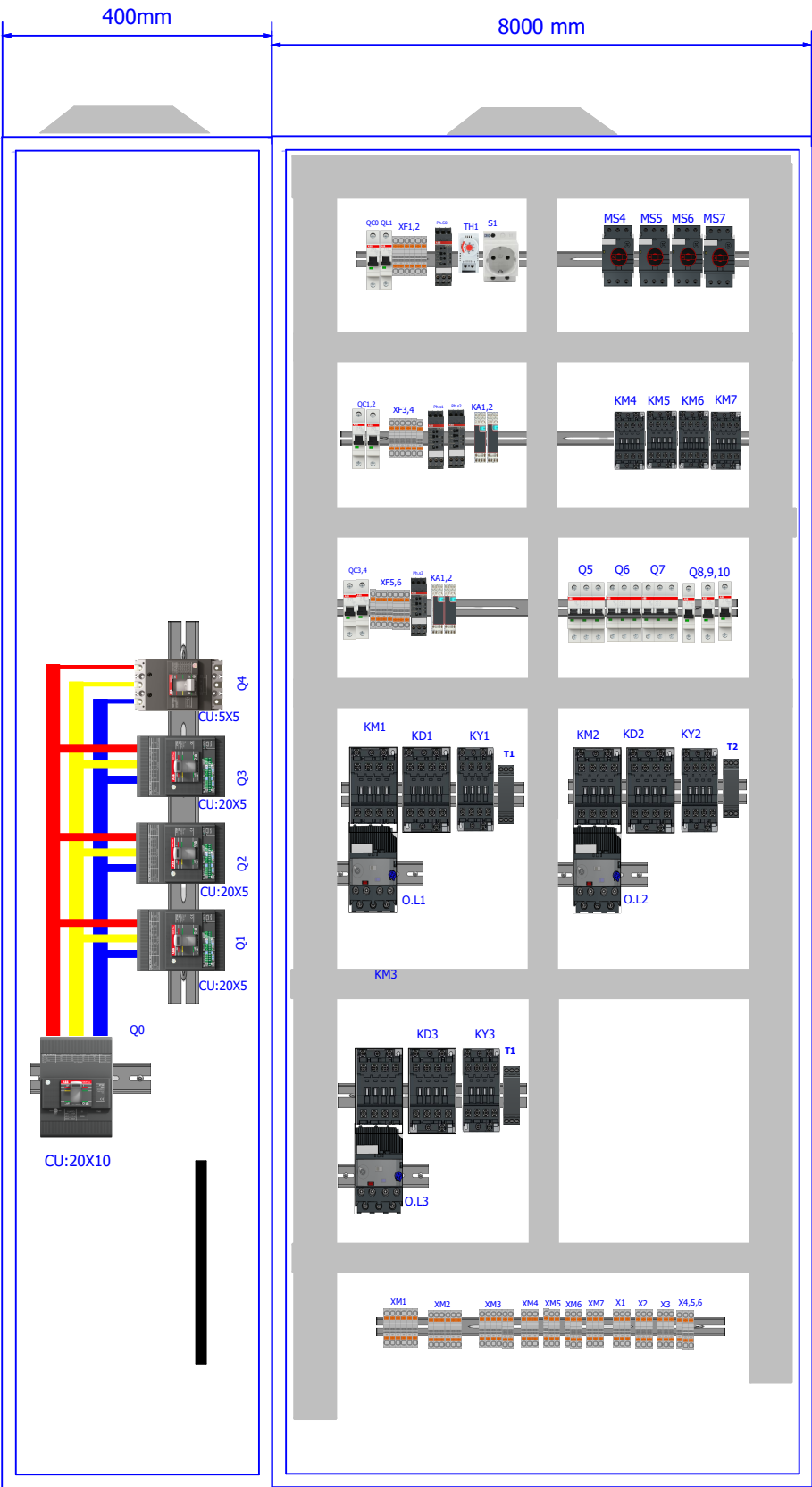




=Incoming/20+العكرة والتحضير-5=

REV.6	27/10/2022		Date	10/31/2022	Client: نيومكس	Control Group 	Control Circuit DOL-Spare Pumps 3,4 A6			
REV.5	26/10/2022		Ed.	EMAN						
REV.4	25/10/2022		Appr.							
Modification	Date	Name	Original		Replacement of	Replaced by			IEC_tpl003	Page 22 Page 37 / 79

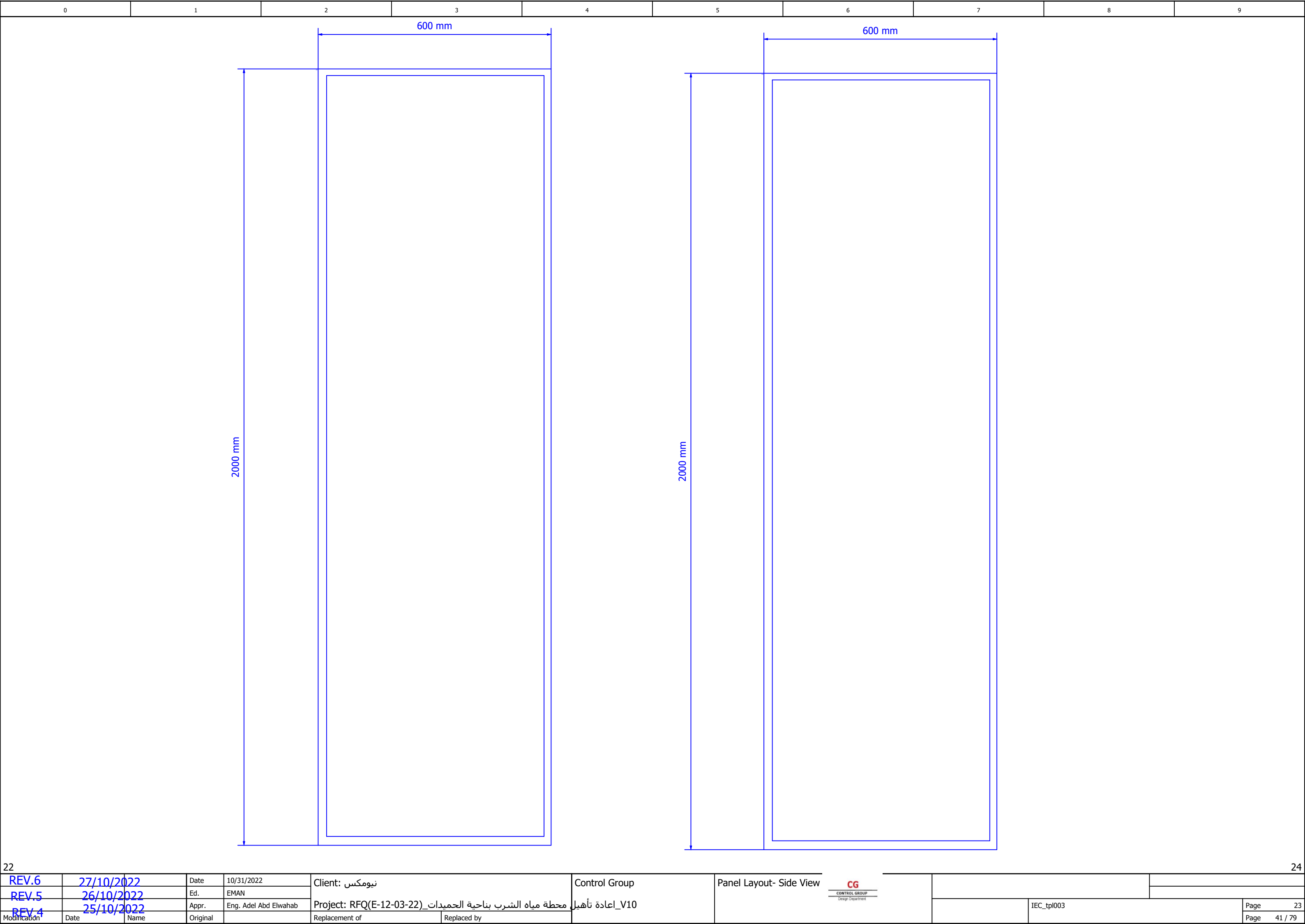


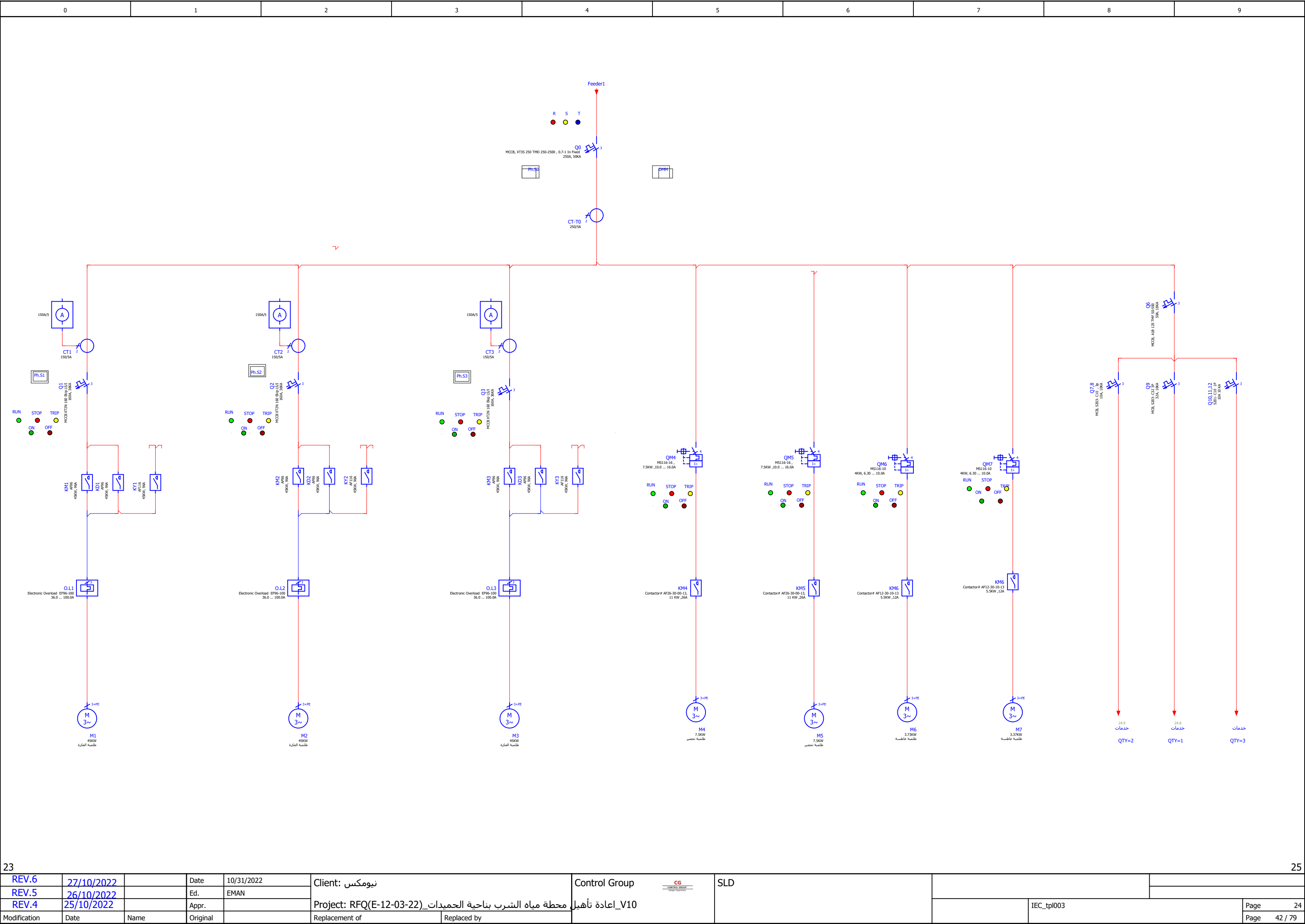


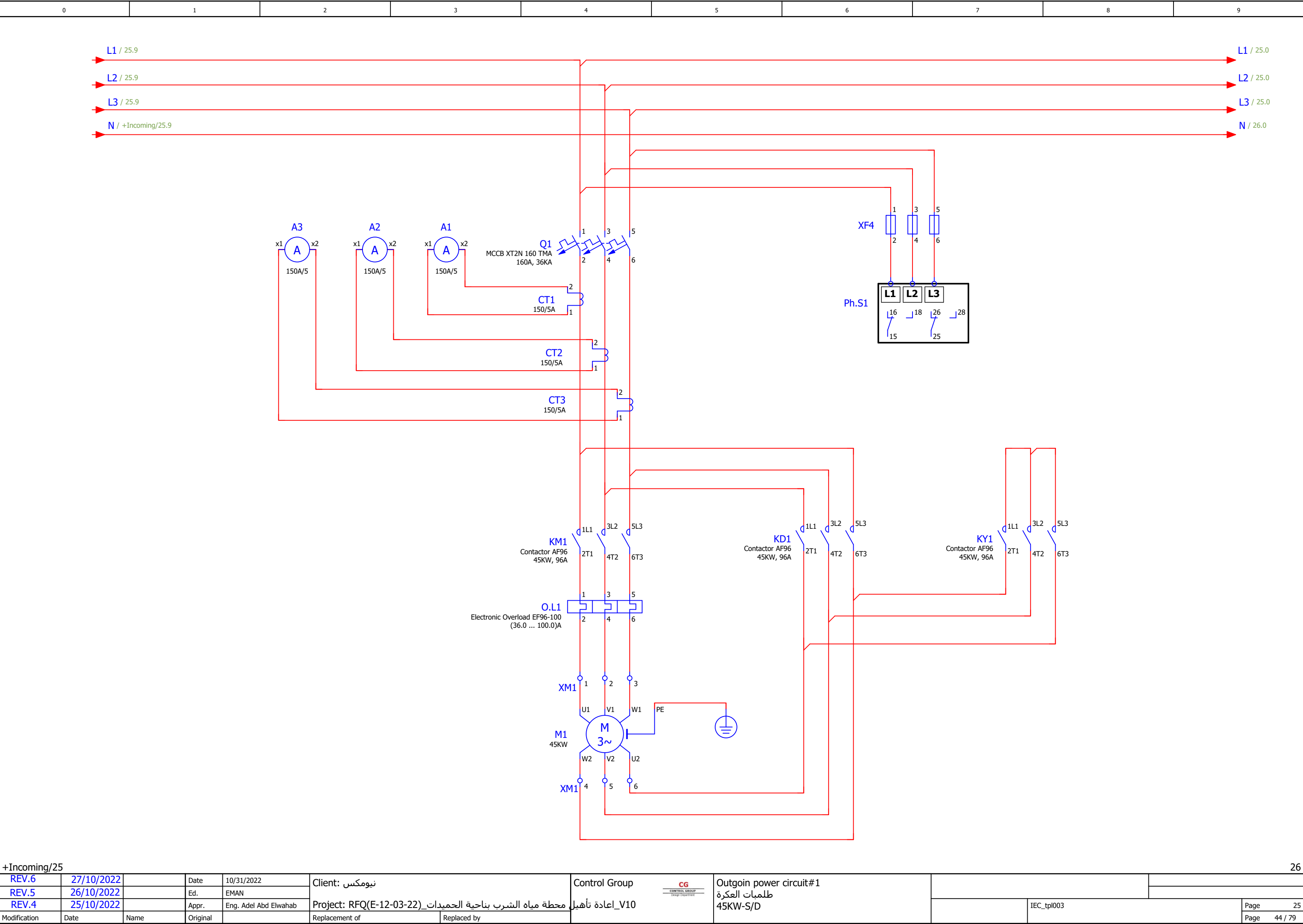
REV.6	27/10/2022		Date	10/31/2022	Client: نيومكس	Control Group
REV.5	26/10/2022		Ed.	EMAN		
REV.4	25/10/2022		Appr.	Eng. Adel Abd Elwahab		
Modification	Date	Name	Original		Replacement of	Replaced by

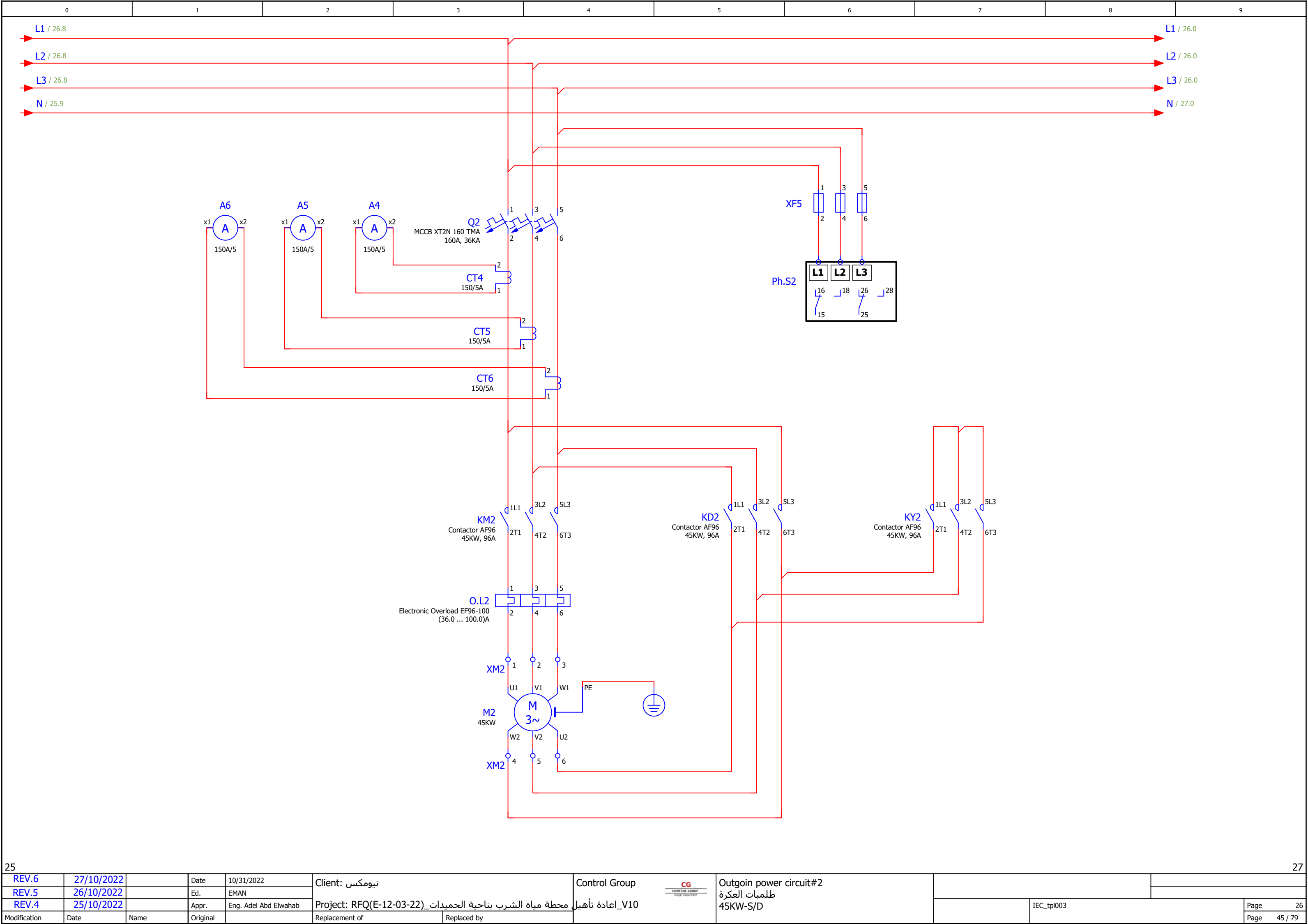


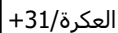
Panel Layout - Front Internal




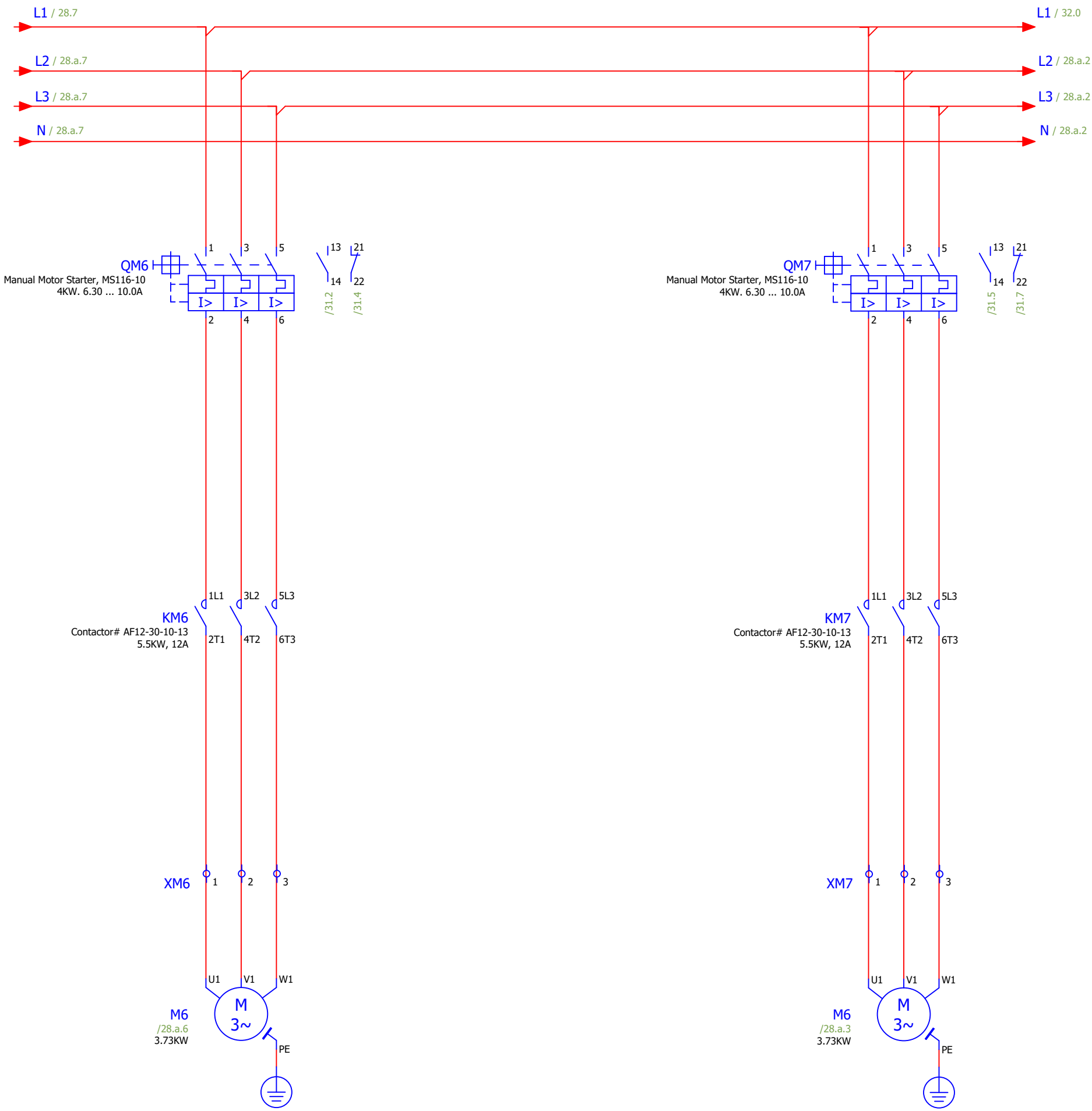




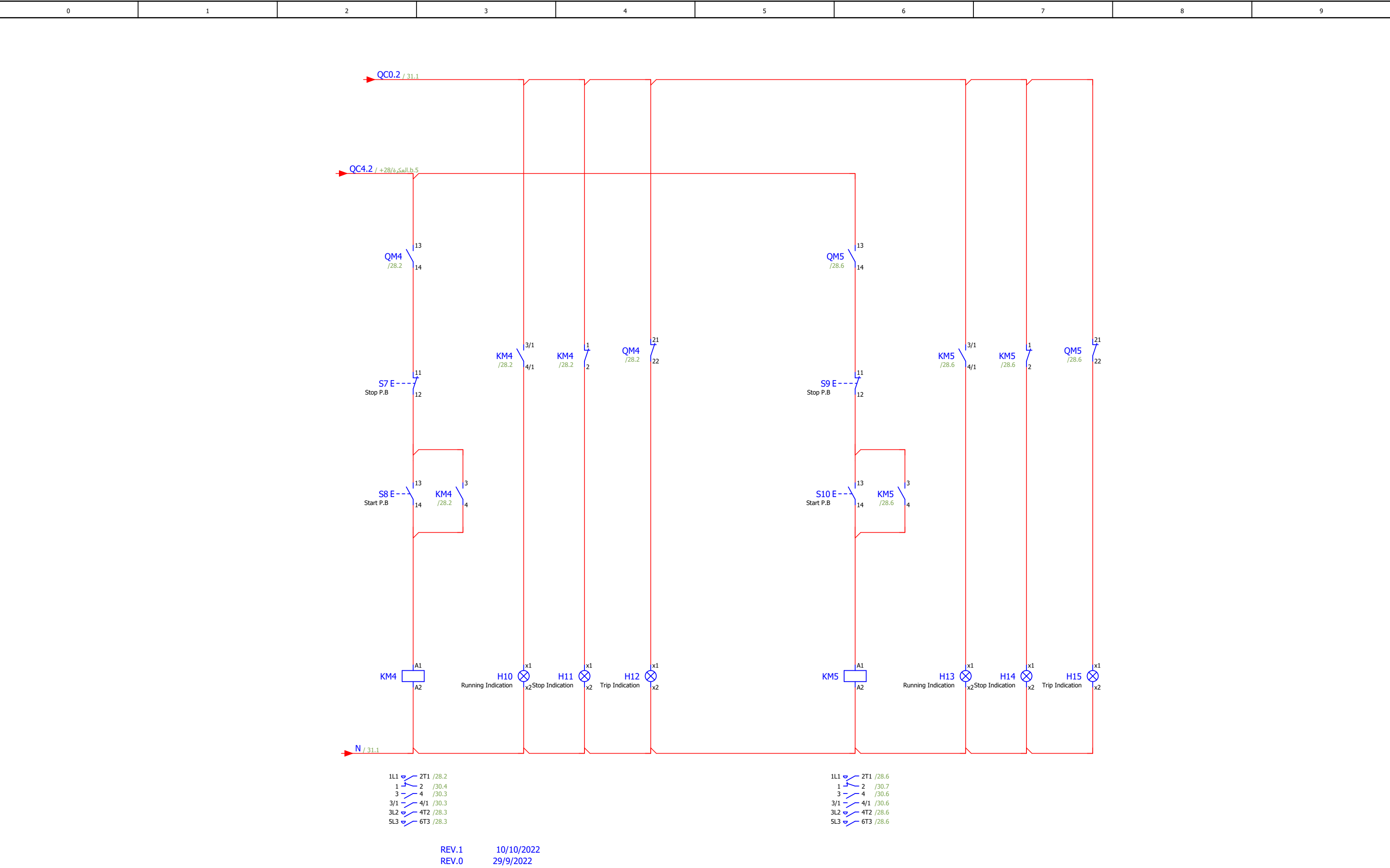





REV.6	27/10/2022		Date	10/31/2022	Client: نيومكس		Control Group		Outgoin power circuit#4&4		
REV.5	26/10/2022		Ed.	EMAN							
REV.4	25/10/2022		Appr.	Eng. Adel Abd Elwahab						Project: RFQ(E-12-03-22)_محطة مياه الشرب بناحية الحميدات	
Modification	Date	Name	Original		Replacement of	Replaced by		Page 51 / 79			

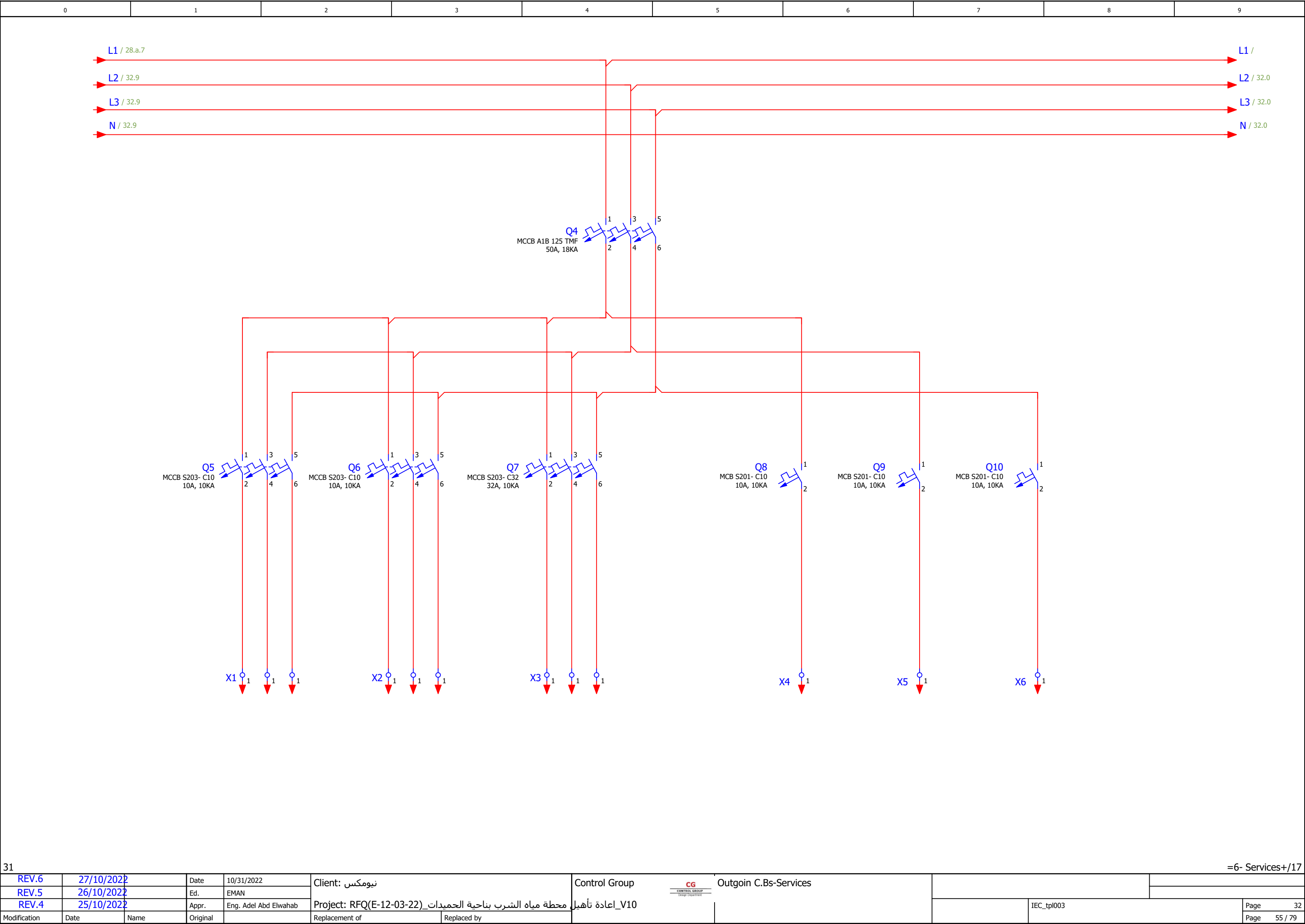


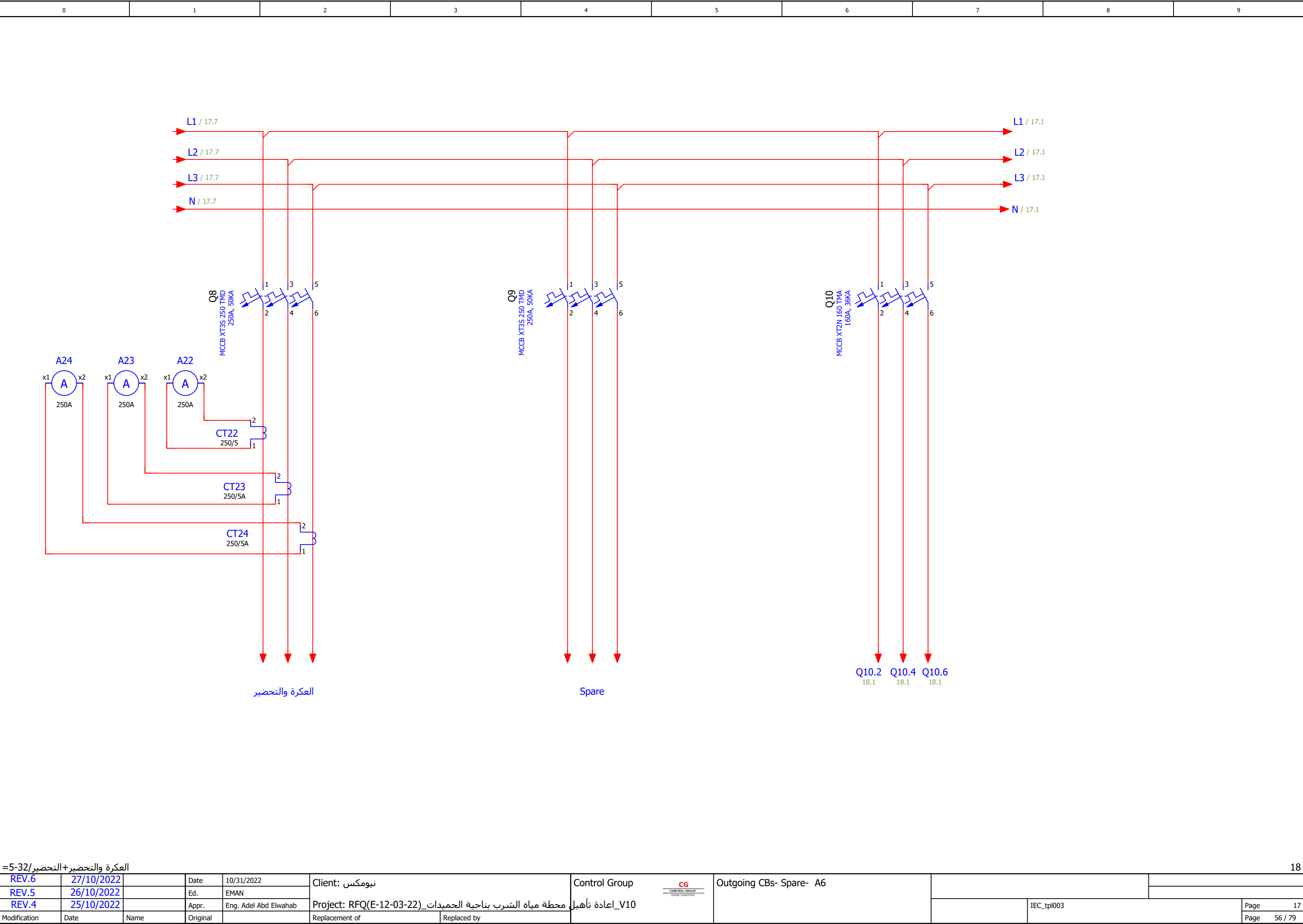
REV.6	27/10/2022		Date	10/31/2022	Client: نيومكس	Control Group
REV.5	26/10/2022		Ed.	EMAN		
REV.4	25/10/2022		Appr.			
Modification	Date	Name	Original		Replacement of	Replaced by

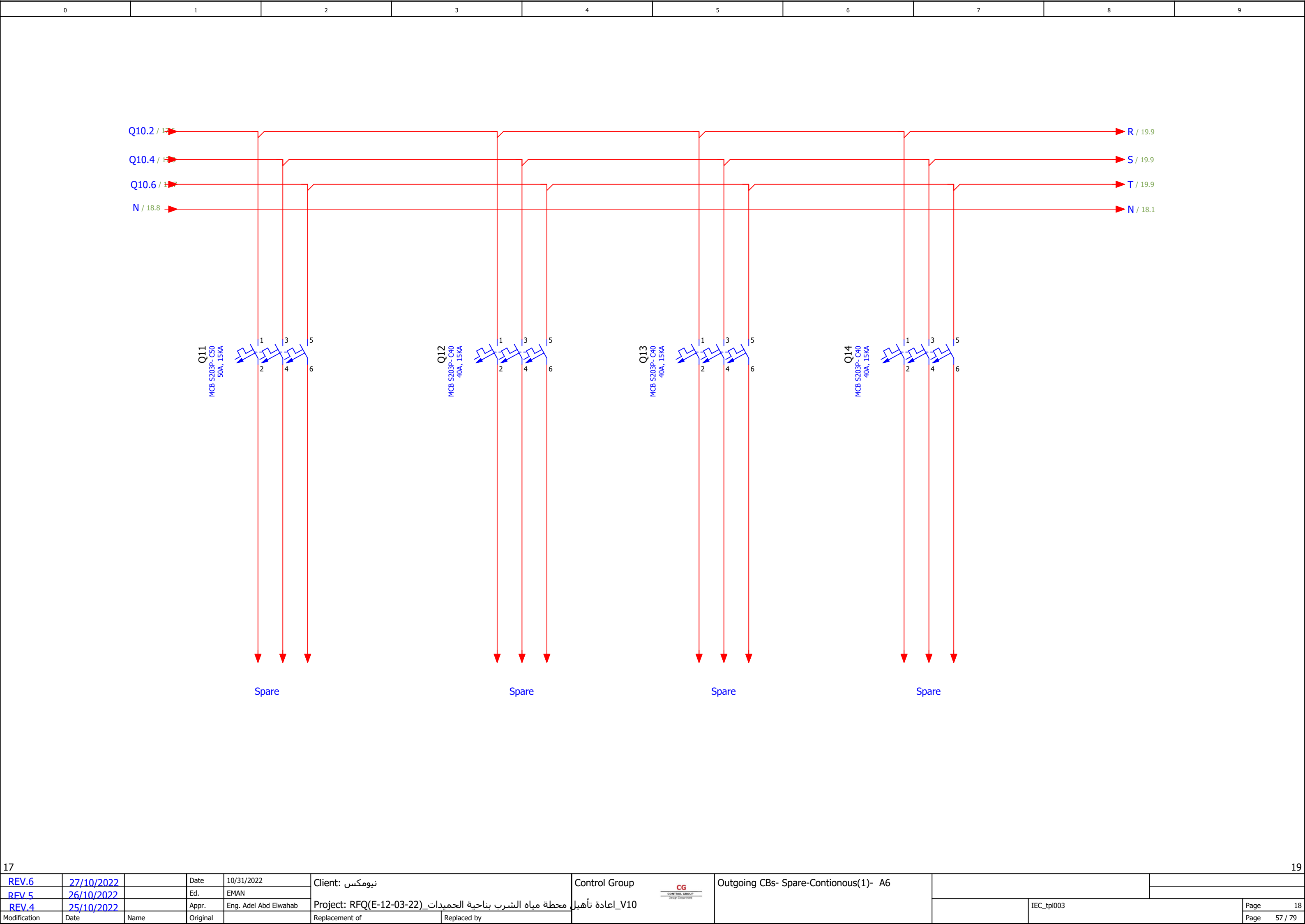


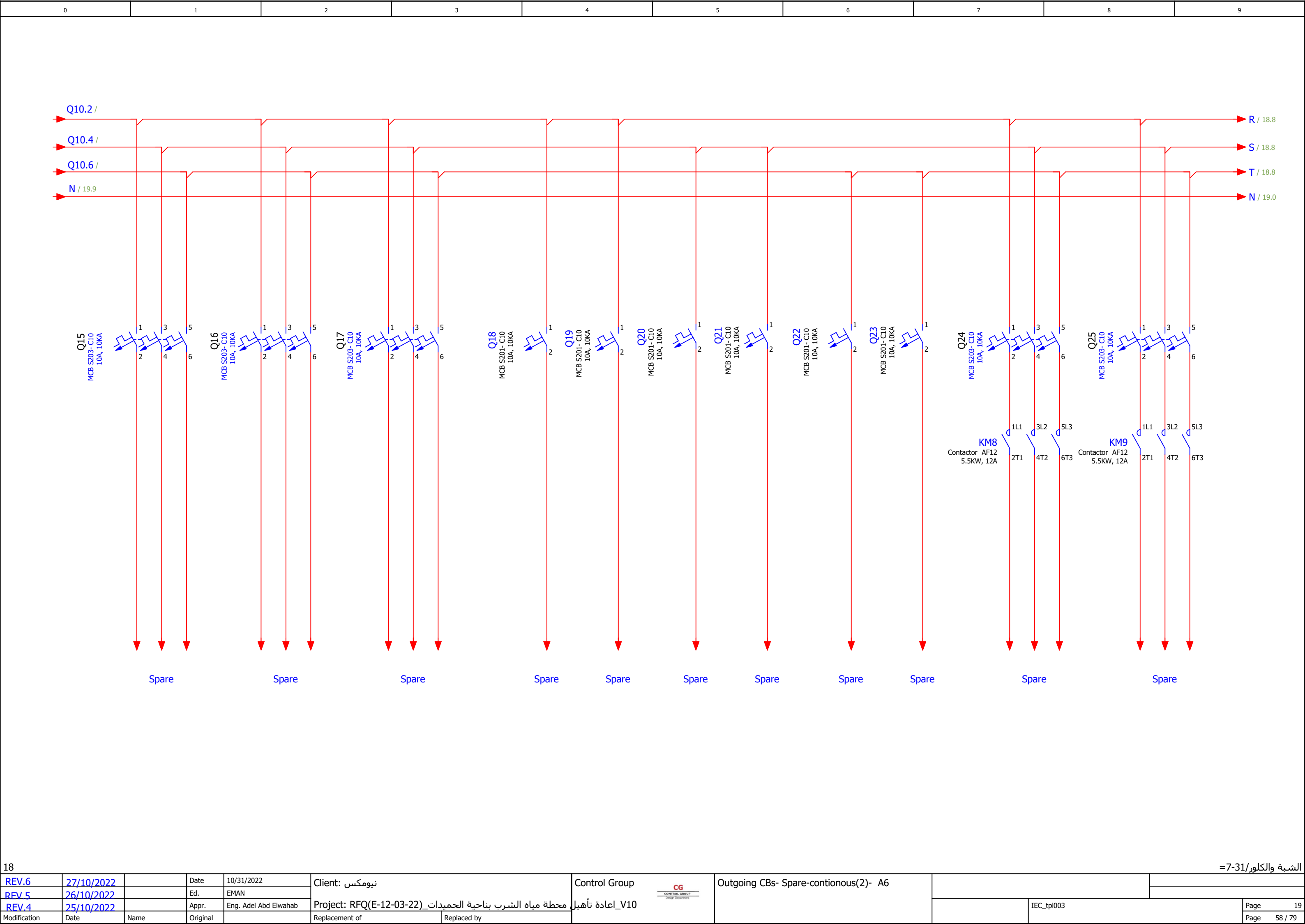
			Date	10/31/2022	Client: نيومكس		Control Group	Outgoing control circuit-التحضير		
			Ed.	EMAN						
			Appr.		Project: RFQ(E-12-03-22) محطة مياه الشرب بناحية الحميدات_إعادة تأهيل_V10					
Modification	Date	Name	Original							
					Replacement of	Replaced by			IEC_tpl003	Page 30
										Page 53 / 79

REV.6	27/10/2022		Date	10/31/2022	Client: نيومكس	Control Group		Outgoing control circuit-الفاطسة			
REV.5	26/10/2022		Ed.	EMAN							
REV.4	25/10/2022		Appr.								
					Project: RFQ(E-12-03-22)_محطة مياه الشرب بناحية الحميدات	V10_إعادة تأهيل			IEC_tpl003	Page 31	
Modification	Date	Name	Original		Replacement of	Replaced by				Page 54 / 79	









0	1	2	3	4	5	6	7	8	9
---	---	---	---	---	---	---	---	---	---

PANELS SPECIFICATION

الشبة والكلور

ENCLOSURE

TYPE

Local

DIMENSION

(2000*600*600) mm

IP DEGREE

IP54

COLOR

RAL7035

MOUNTING

Free Stand

LOCATION

Indoor

POWER SYSTEM

POWER VOLTAGE (AC)

380/220 VAC

CONTROL VOLTAGE (AC)

220V AC


BUS BAR SIZE

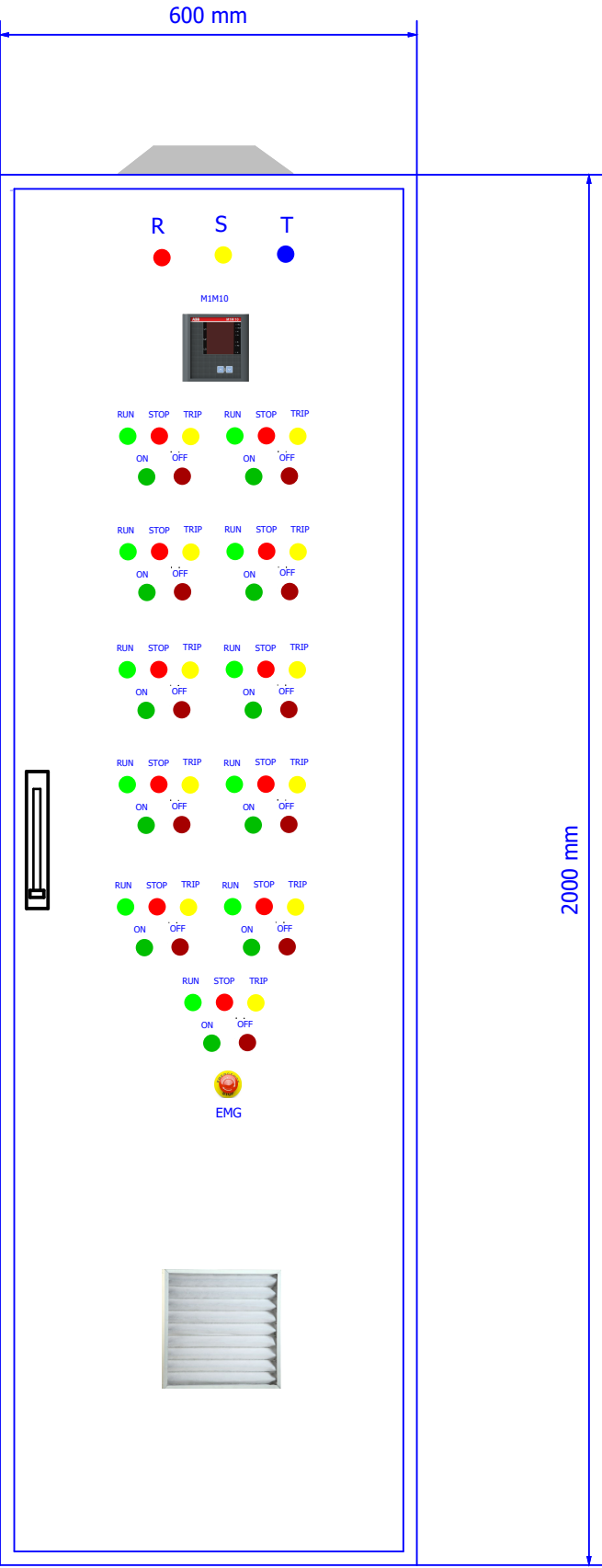
CONTROL WIRE

1.0 mm BLACK, BLUE, RED

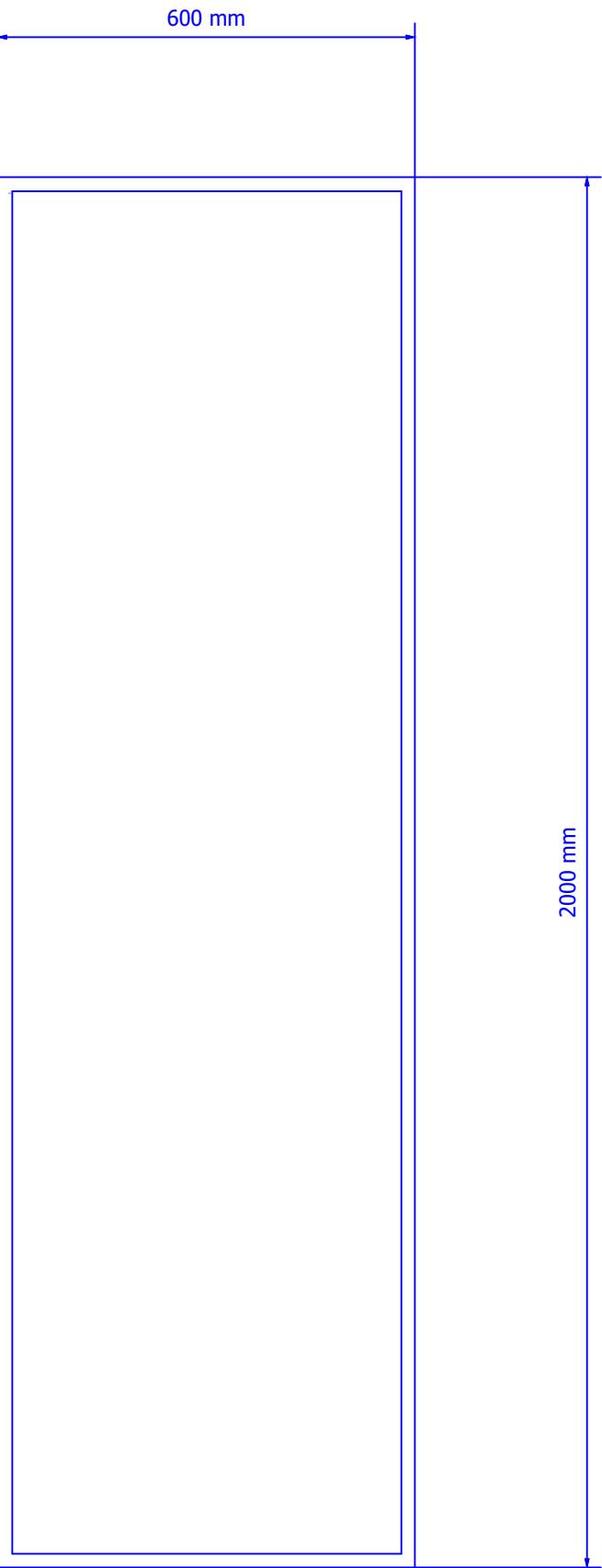
CU of C.B

10*5

REV.6	27/10/2022		Date	10/31/2022	Client: نيومكس	Control Group 	Panel Specification-الشبة والكور		
REV.5	26/10/2022		Ed.	EMAN					
REV.4	25/10/2022		Appr.						
Modification	Date	Name	Original		Project: RFQ(E-12-03-22) محطة مياه الشرب بناحية الحميدات	V10_إعادة تأهيل		IEC_tpl003	Page 31
					Replacement of	Replaced by			Page 59 / 79



Front



Side

REV.6	27/10/2022		Date	10/31/2022
REV.5	26/10/2022		Ed.	EMAN
REV.4	25/10/2022		Appr.	
Modification	Date	Name	Original	

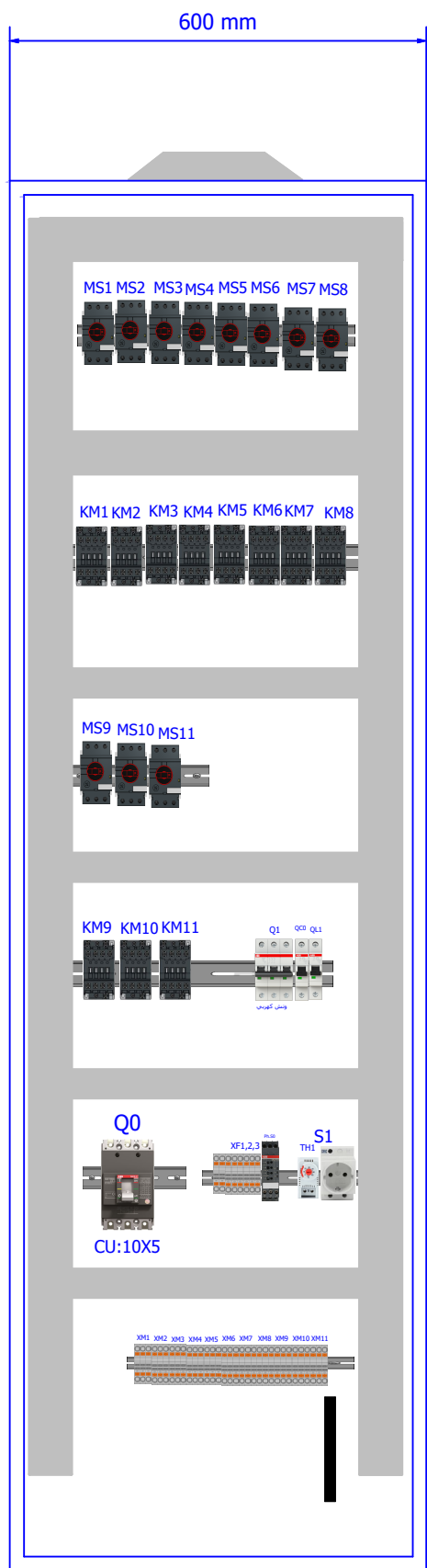
Client:	نيومكس
Project:	RFQ(E-12-03-22)_محطة مياه الشرب بناحية الحميدات
Replacement of	
Replaced by	


Control Group	
V10_إعادة تأهيل	

Panel Layout-closed door

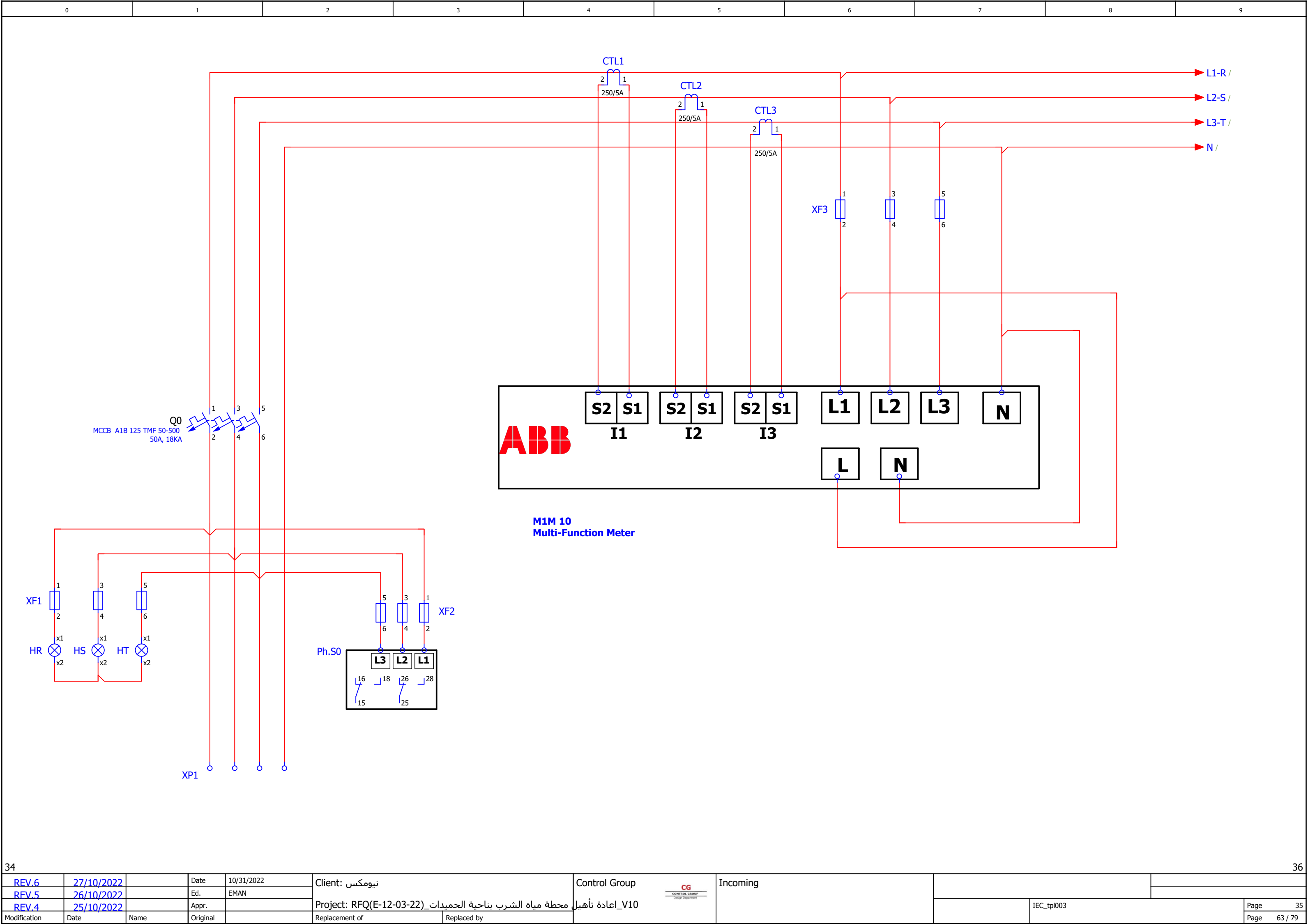
	IEC_tpl003	Page	32
		Page	60 / 79

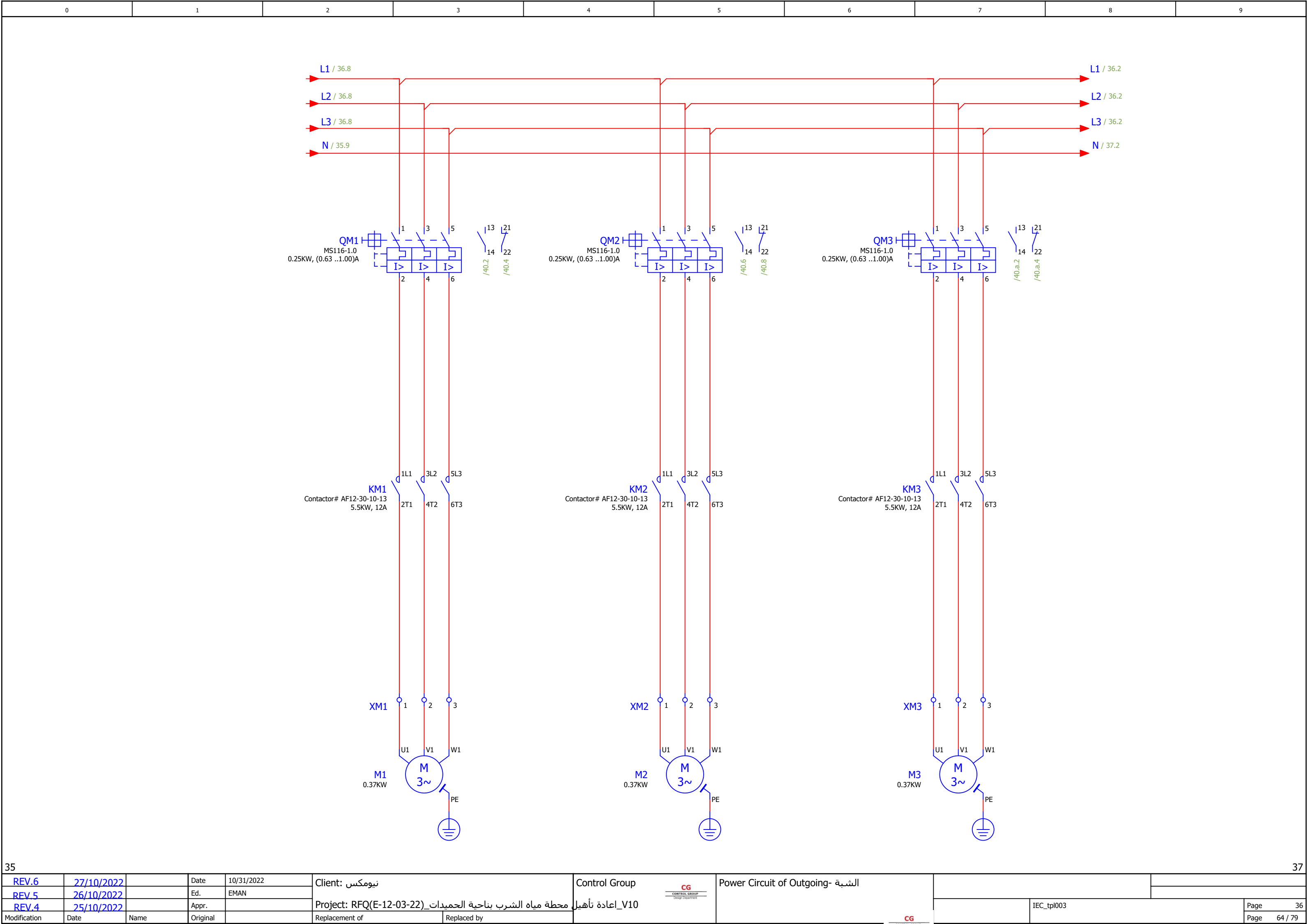
0	1	2	3	4	5	6	7	8	9
---	---	---	---	---	---	---	---	---	---

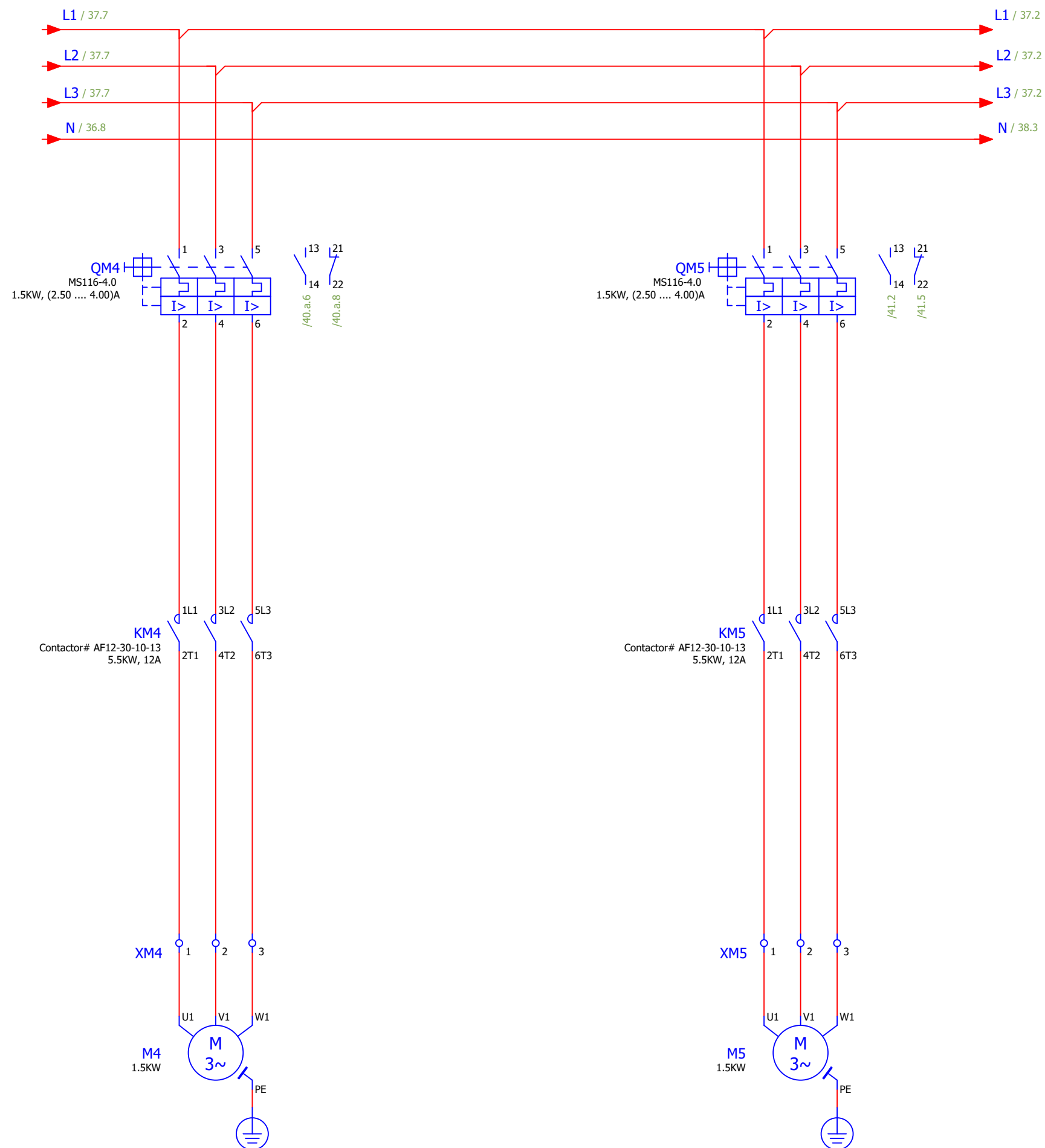



REV.6	27/10/2022		Date	10/31/2022	Client: نيومكس	Control Group		Panel Layout-Front Internal			
REV.5	26/10/2022		Ed.	EMAN							
REV.4	25/10/2022		Appr.						Project: RFQ(E-12-03-22)_محطة مياه الشرب بناحية الحميدات		V10_إعادة تأهيل
Modification	Date	Name	Original		Replacement of	Replaced by			IEC_tpl003	Page 33	
										Page 61 / 79	

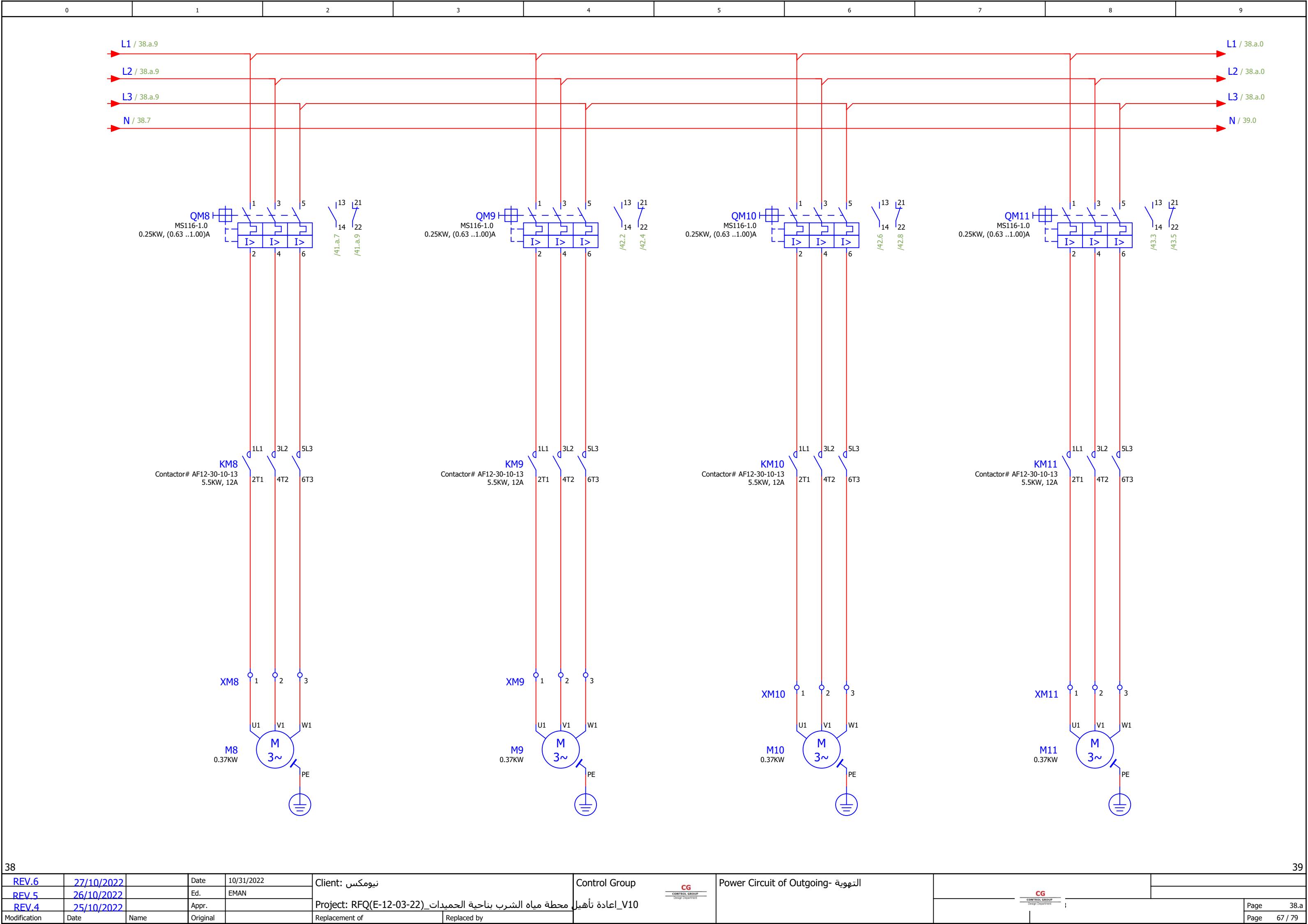
35

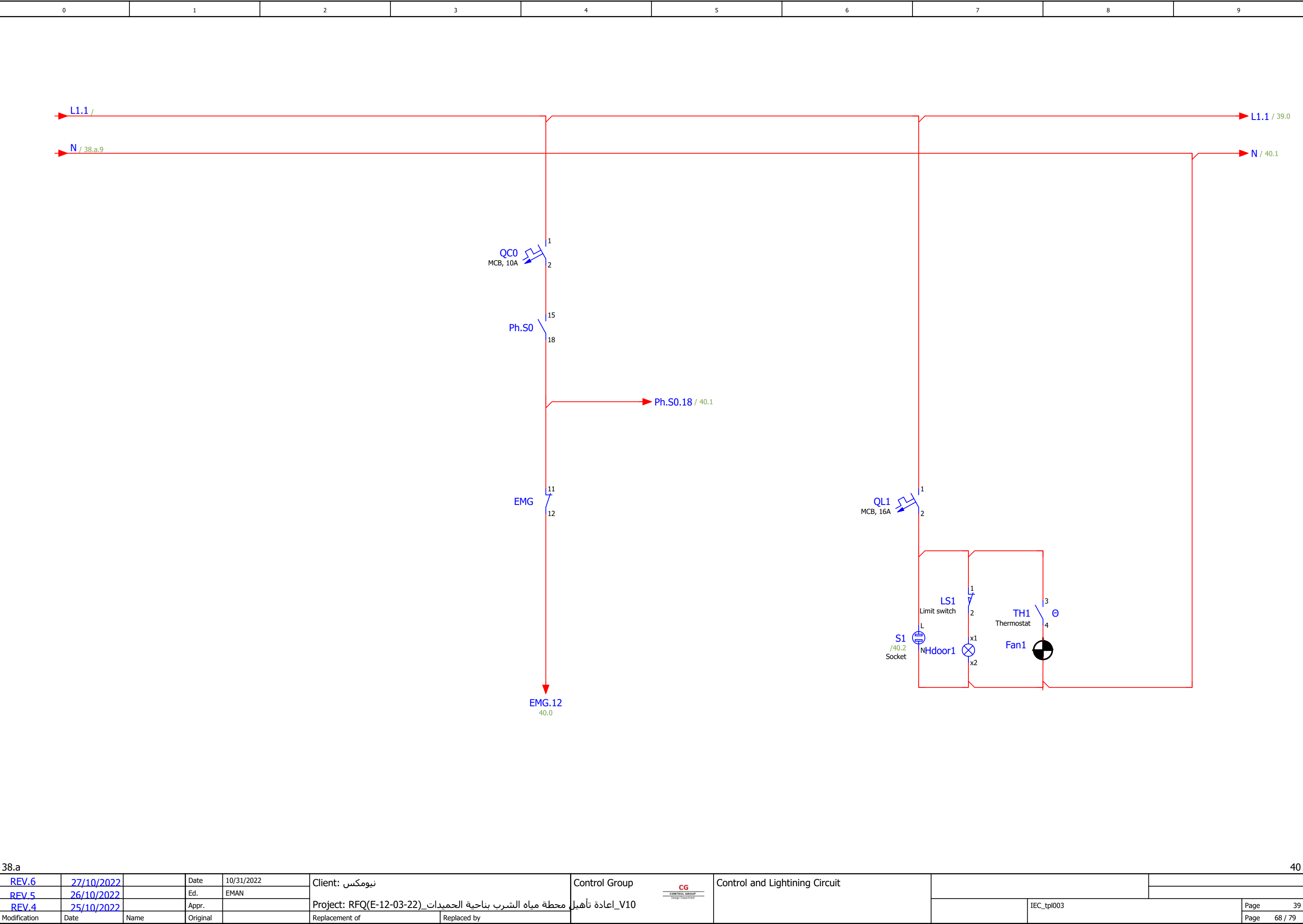





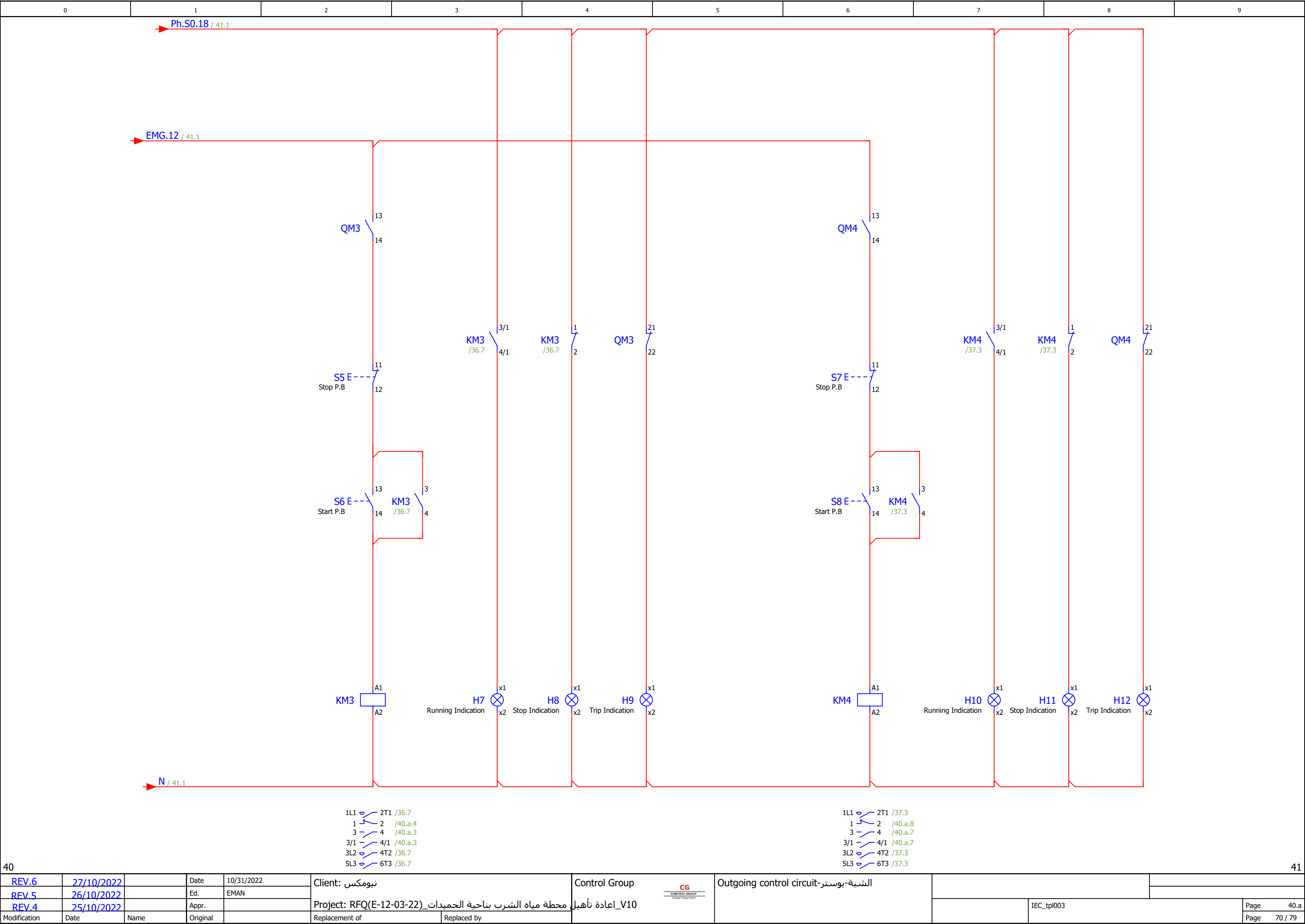


REV.6	27/10/2022		Date	10/31/2022	Client: نيومكس	Control Group		بوستر الكلور - Power Circuit of Outgoing			
REV.5	26/10/2022		Ed.	EMAN							
REV.4	25/10/2022		Appr.								
Modification	Date	Name	Original		Replacement of	Replaced by			IEC_tp1003	Page 37	
										Page 65 / 79	





REV.6	27/10/2022		Date	10/31/2022	Client: نيومكس Project: RFQ(E-12-03-22)_محطة مياه الشرب بناحية الحميدات_V10 إعادة تأهيل	Control Group 	الشبكة-Outgoing control circuit			
REV.5	26/10/2022		Ed.	EMAN						
REV.4	25/10/2022		Appr.							
Modification	Date	Name	Original		Replacement of	Replaced by			IEC_tpI003	Page 40 Page 69 / 79





REV.6	27/10/2022		Date	10/31/2022	Client: نيومكس	<div>CG</div> <div>CONTROL GROUP</div> <div>Group Description</div>	Outgoing control circuit-بوستر الكلور			
REV.5	26/10/2022		Ed.	EMAN						
REV.4	25/10/2022		Appr.		Project: RFQ(E-12-03-22) محطة مياه الشرب بناحية الحميدات			V10_إعادة تأهيل		
Modification	Date	Name	Original		Replacement of	Replaced by		IEC_tpl003	Page 41	
									Page 71 / 79	



