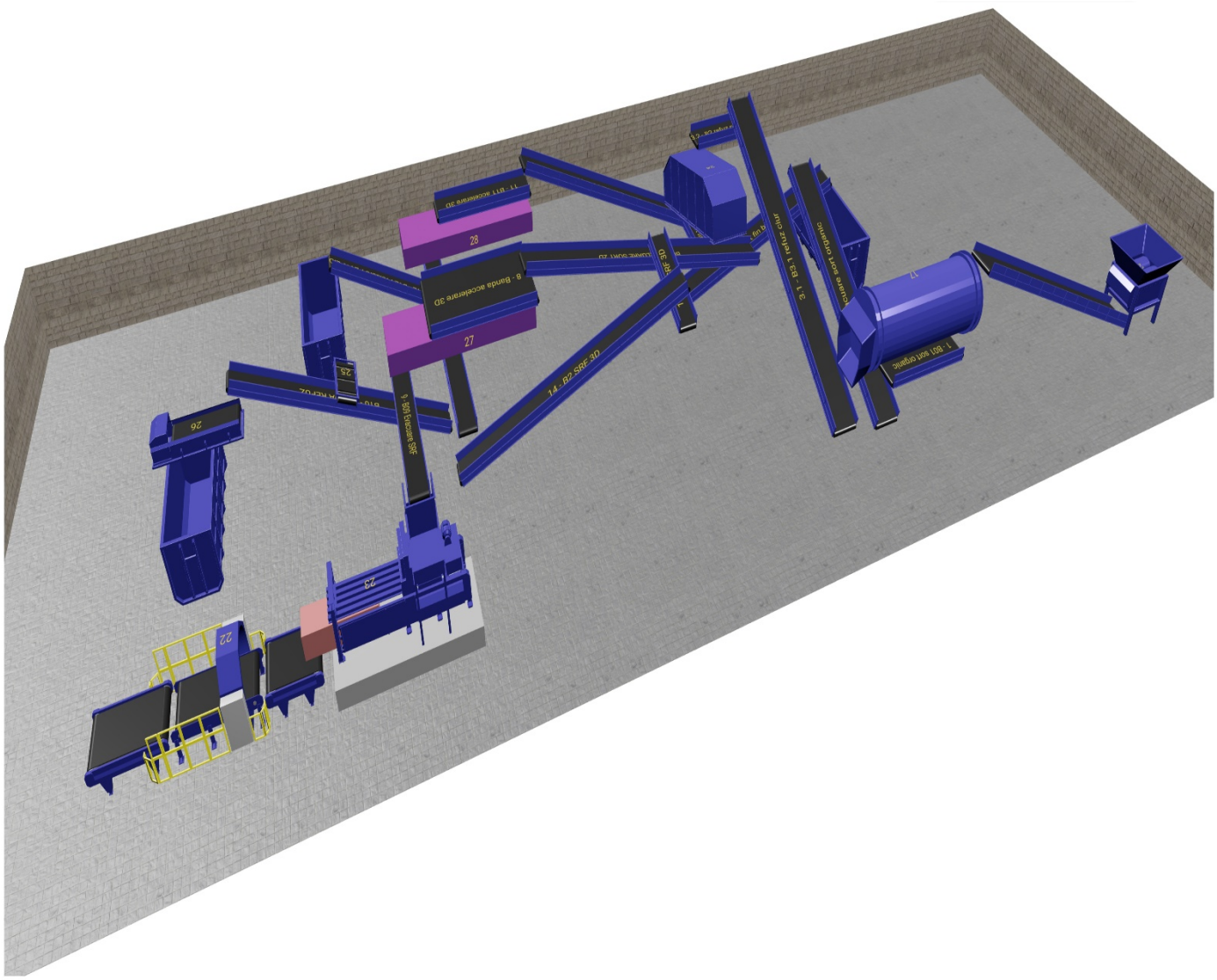
MANUAL ELECTRICITATE ȘI AUTOMATIZĂRI

STAȚIE DE TRATARE MECANICĂ

TMB-ROEȘTI, JUDEȚUL VÂLCEA

1. Vedere de ansamblu a stației de Tratare Mecano-Biologică:



2. Tabloul electric de comandă

Panoul electric de automatizare este dotat pe partea frontala cu semnalizare stare prezenta tensiune de la rețea, cu un selector stare AUTOMAT-O-MANUAL, butoane de comandă START-STOP, semnalizări stare funcționare motoare.

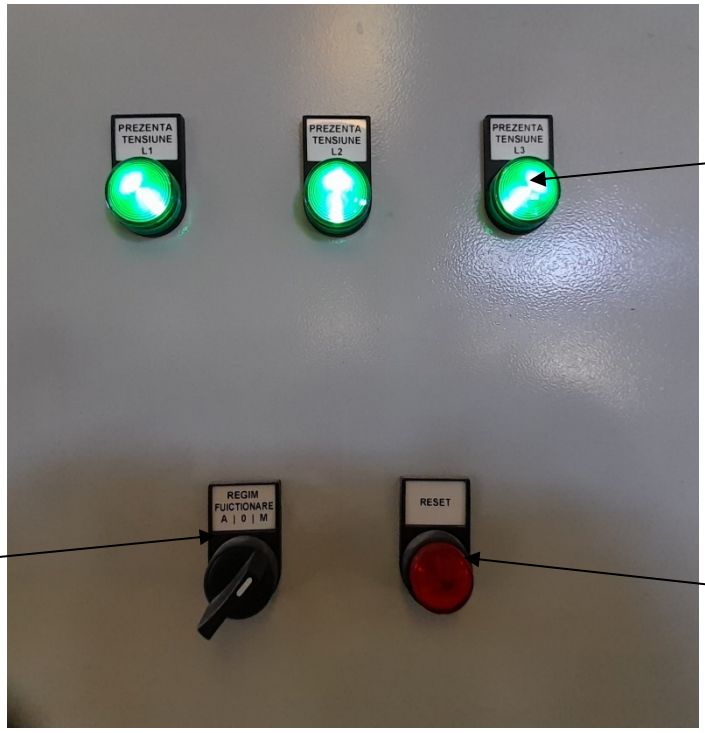
În regim MANUAL, semnalizări cu lampă roșie stare avarie pe fiecare echipament, butoane START-STOP comandă pornit-oprit a echipamentelor în cazul situației de service. În acest sens, operatorul va avea în timp real informațiile necesare și va fi avertizat prin semnale acustice și luminoase în caz de apariție a oricărui defect.

Pentru funcționarea stației de tratare mecanică, aceasta a fost prevazută cu:

- Instalație de forță 0,4 kW.
- Instalație de automatizare măsura și control.

Tablouri individuale echipamente cf lista

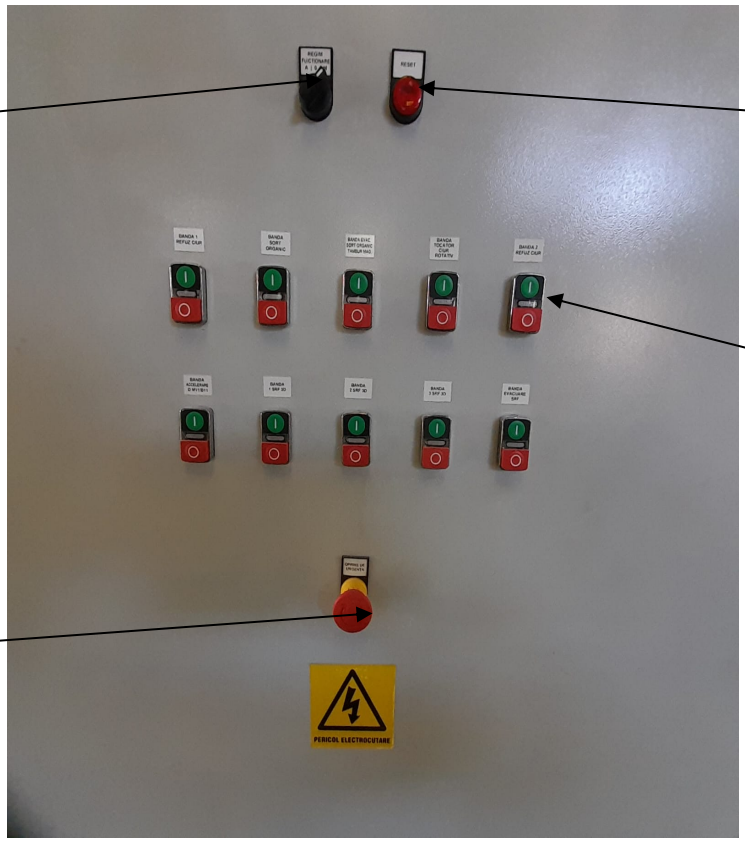
Panou frontal



Semnalizare prezenta tensiune

Selector functionare Automat | Oprire | Manual

Buton reset safety relay



Selector functionare Automat | O | Manual

Buton reset safety relay

Butoane Start/Funcționare motoare/Stop

Buton OPRIRE DE URGENȚĂ

Datele energetice sunt următoarele:

Putere electrica instalata Pi = 237 kw

Puterea maxim consumată în regim normal de funcționare: P_C = 189 Kw

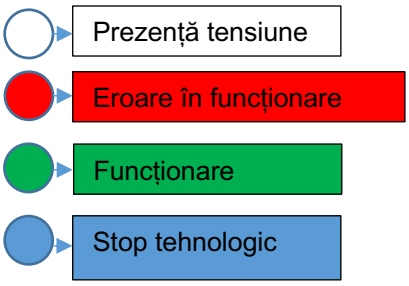
Tabloul, echipat cu circuite de forță și de comandă, conține aparatul electric de comutație, protecție, comandă, semnalizare pentru funcționarea consumatorilor în condiții de siguranță.

Toate circuitele de forța pentru motoare sunt prevăzute cu protecție la curent de scurtcircuit și cu protecție la curent de suprasarcină, realizate cu întreruptoare automate pentru protecția motoarelor.

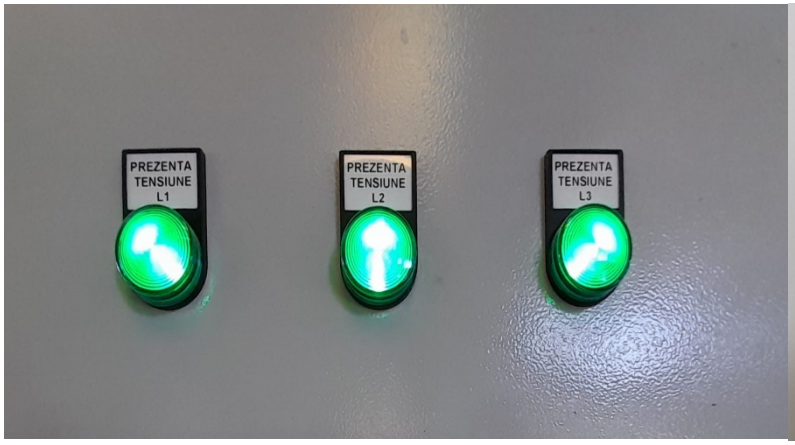
Circuitul de safety este compus din butoanele de urgență amplasate pe linie, șufa de urgență din cabina de sortare, toate conectate la un releu model XPSAC5121-Emergency stop.

Acționarea motoarelor de la benzile transportoare se face cu ajutorul convertizoarelor de frecvență, ceea ce conferă posibilitate de a reduce curentul la pornire, și de a modifica viteza benzilor conform necesităților din site.

Semnificație culori turn



3. Tabloul electric de comanda-operare



Pentru operarea liniei se verifică vizual dacă semnalizările de prezenta tensiune sunt aprinse, dacă nu, se comută întrerupătorul principal în poziția ON.

Toți consumatorii actionați prin intermediul convertizoarelor și contactoarelor sunt prevăzuți pe fața tabloului electric cu:

- Semnalizare de funcționare
- Semnalizare de oprire prin protecție
- Comandă manuală PORNIT – OPRIT

Comenzile pe automat se vor face prin intermediul automatului programabil și bineînțeles cu acționarea selectorului S1 destinat alegerii regimului de lucru: A-0-M.

Stop tehnologic:

-Albastru lumina

-Înlocuire container

Poz 0-Activare stop tehnologic

-După înlocuire container se pune selectorul pe poziția Poz 1.;

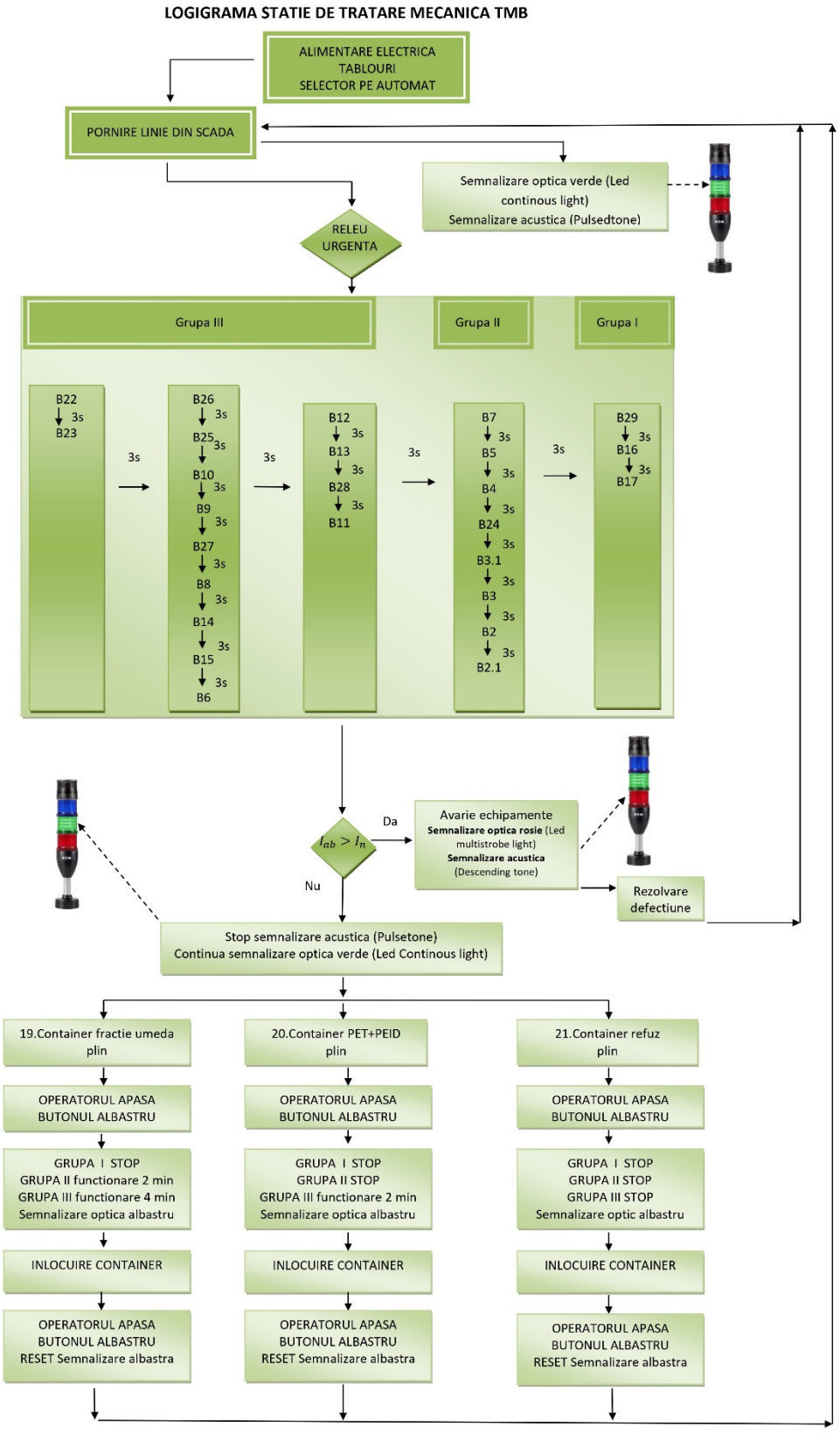
-Se repornește linia din camera de comandă SCADA.

4. DATE TEHNICE ECHIPAMENTE

LISTA ECHIPAMENTE TMB

Nr. Crt.	Denumire	Cod	Putere instalata (kW)	Mod de comanda
2,1	Banda sort organic	B2.1	3	C.F.
2	Banda evacuare sort organic,tambur magnetic	B02	4	CF
3	Banda 1 refuz ciur	B03	5,5	CF
3,1	Banda 2 refuz ciur	B03.1	3	CF
4	Banda 1 sort fin separator balistic	B04	3	Direct
5	Banda sort 2 fin balistic	B05	4	Direct
6	Banda preluare sort 2D	B06	4	CF
7	Banda preluare sort 3D	B07	5,5	CF
8	Banda accelerare 3D	B11	4	Direct
9	Banda evacuare SRF	B09	3	CF
10	Banda refuz	B10	4	CF
11	Banda accelerare 2D	B08	7,5	CF
12	Banda preluare PET+ PEID	B12	3	CF
13	Banda 1 SRF 3D	B13	4	Direct
14	Banda 2 SRF 3D	B14	4	Direct
15	Banda 3 SRF 3D	B15	3	Direct
16	Banda tocator - ciur rotativ	B16	5,5	CF
17	Ciur rotativ 2 fractii		8	CF
22	Dispozitiv infoliat		22	
23	Presa balotat		22	
24	Separator balistic		11	
25	Separator magnetic		2,2	Direct
26	Separator neferoase		8,5	
28	Separator optic S2_1200_3D		2,5	
27	Separator optic S1_2800_2D		4,9	
	Compresor Aerzen 270,6 m3/h		30	Y/D
29	Tocator Stationar		75	
	TOTAL kW		**237,6**	

5. Logigrama



Descriere mod pornire

I. Pornire instalație

*Monitorizarea funcționării de tratare se face prin softul SCADA care se referă la un centru de comandă care monitorizează și controlează întregul spațiu de producție.

- permite monitorizarea de la distanță a funcționării instalației;

- urmărește avariile și evenimentele petrecute;

- stabilește parametrii de lucru pentru a produce productivitatea dorită;

- punere sub tensiune tablourile de comandă;

- se fac reglaje la aceste parametrii;

- se pune sub tensiune tabloul de comandă de benzi transportoare;
- la pornirea automată, turnul se semnalizează cu semnale acustice și luminoase;

- semnalizarea acustică va fi activă pe tot parcursul deschiderii;
- semnalul luminos va fi în permanență funcțional și va lumina culoarea verde cât timp funcționează instalația;
- pornirea întregii instalații se face conform schemei, începând cu grupa III până la grupa I, în timp de 69 de secunde;
- după pornirea tuturor, se poate face pornirea tocătorului de deșeuri;
- deșeurile urmează traseul stabilit prin fluxul tehnologic.

*Avaria

- semnalizare optică roșie în hală;
- semnalizare avarie în SCADA.
- poate fi avarie la un anumit echipament, blocaj, sau un operator poate sesiza un pericol și poate apăsa butonul de urgență;

- stația se oprește automat, se intervine pentru eliminarea avariei/ pericolului, se resetează și se repornește instalația în același mod descris mai sus.

*Înlocuirea containerelor pline

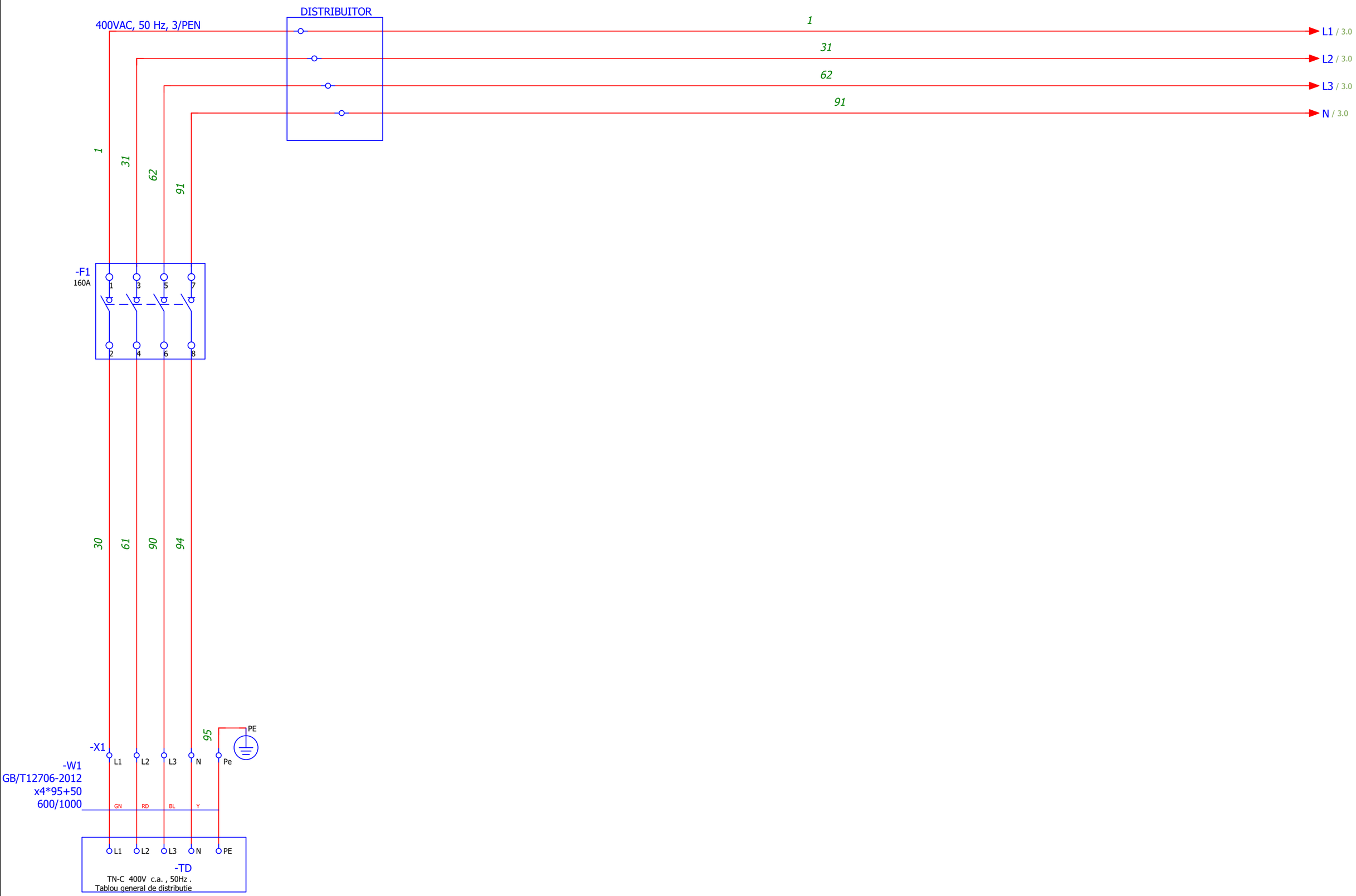
-sunt semnalizate cu lumina albastră;
-pe stâlpii unde sunt montate containerele sunt amplasate selectoare cu Poz 0 și Poz 1.;
- în acest caz se opresc grupele de utilaje care sunt implicate în flux;
-după ce se înlocuiește containerul plin cu unul gol,selectorul se comută în Poz 1 și se repornește instalația.
*Oprirea instalației se face în sens invers pornirii, pornind de la grupa I spre grupa III., respectând același interval de timp.

SC Tehnimarket srl

Str. Arcadie Septilici Nr. 1C
600234 BACAU,
Phone -

Company / customer	UAT JUDETUL VALCEA
Project description	Statie tratare mecanica
Job number	IEC_bas001
Commission	EPLAN
Manufacturer (company)	SC Tehnimarket srl
Path	EPLAN sample project
Project name	Statie sortare_ROIESTI_TMB
Make	
Type	
Place of installation	
Responsible for project	Murgulet Ioan
Part feature	

Created on 24/01/2023
Edit date 19/06/2023 by (short name) Nelu Number of pages 70



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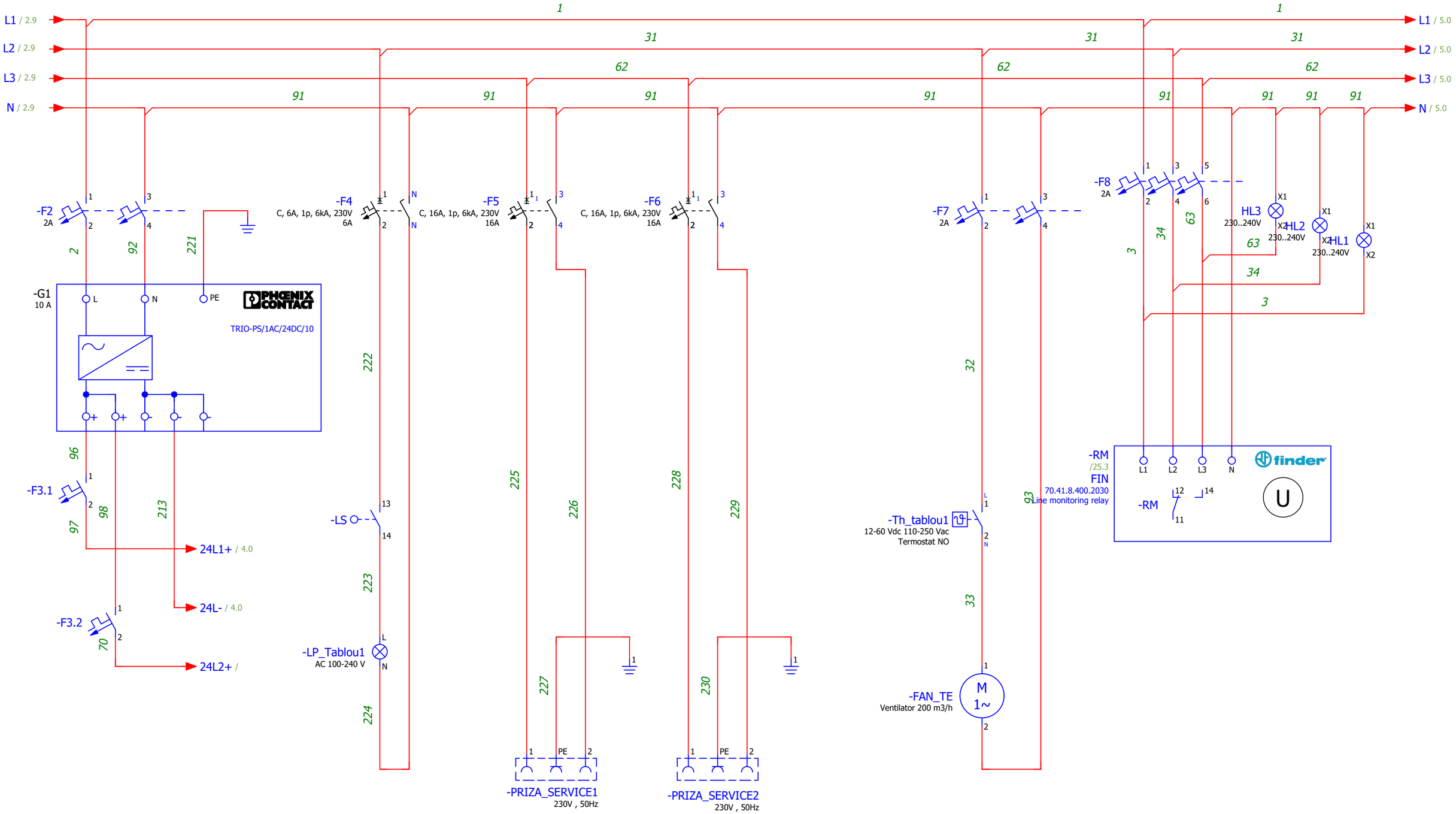
Modification	Date	Name	Original		Replacement of	Replaced by			Page 2 / 70



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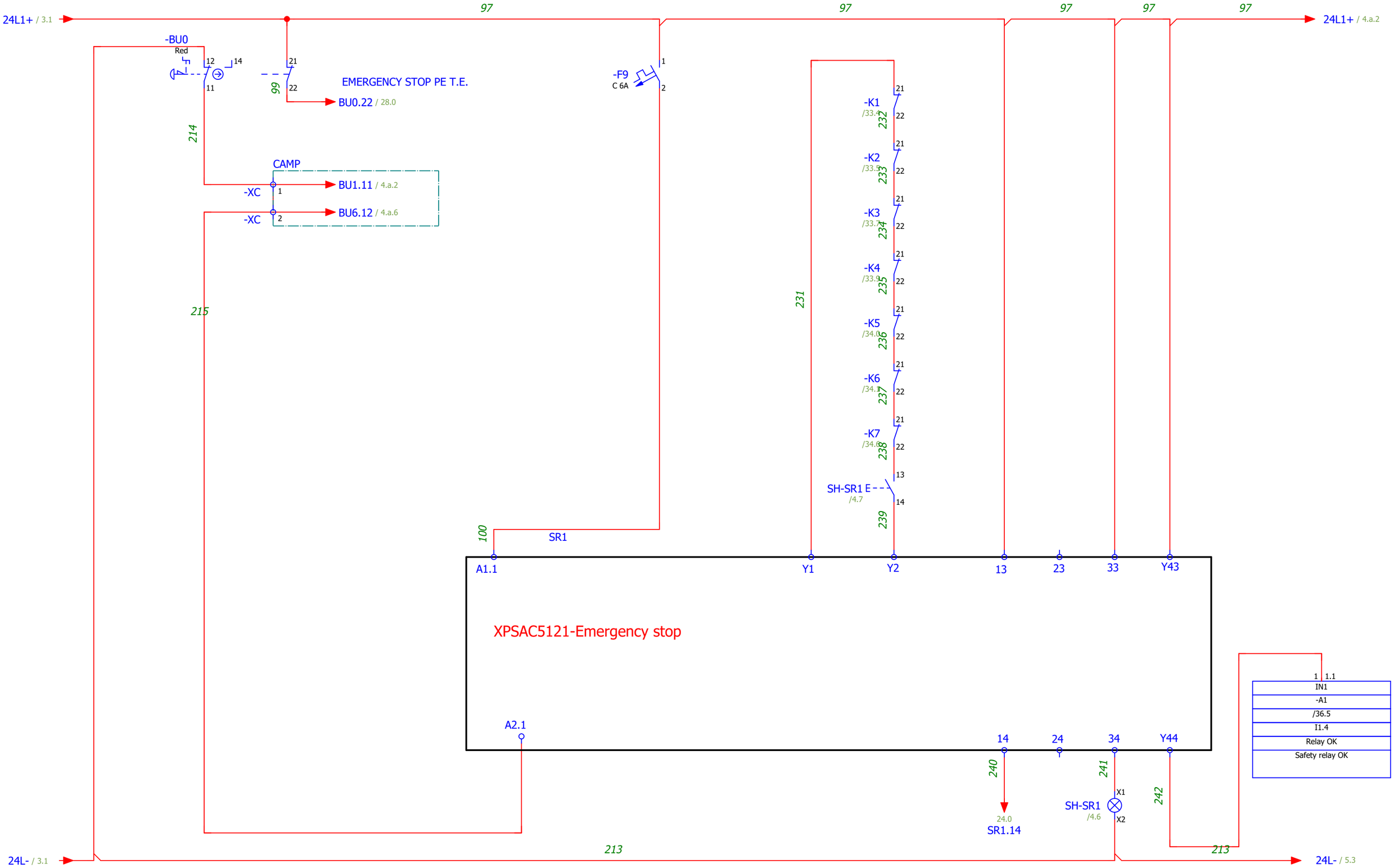
Modification	Date	Name	Original		Replacement of	Replaced by			Page 3 / 70



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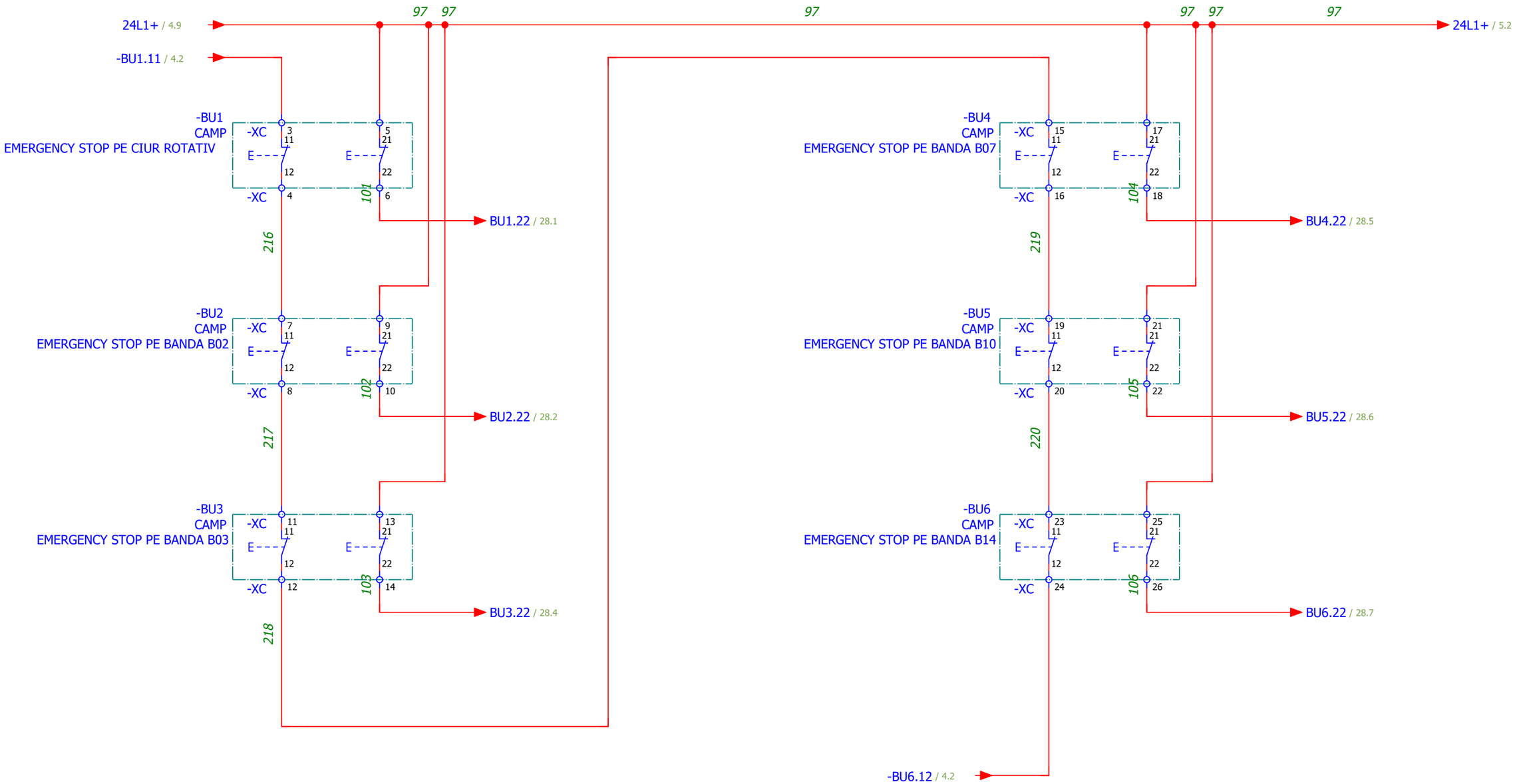
Modification	Date	Name	Original		Replacement of	Replaced by			Page 4 / 70



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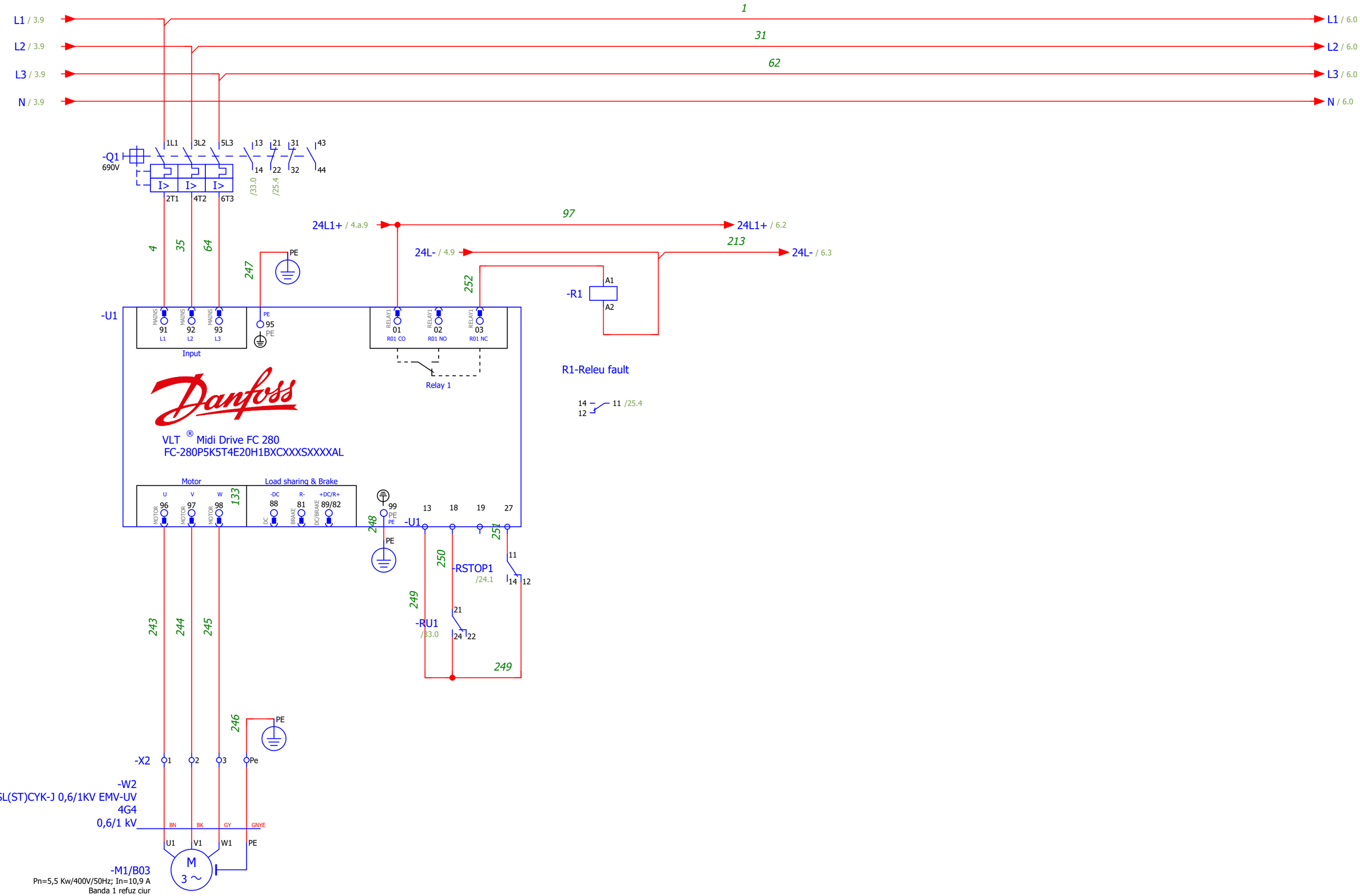
Modification	Date	Name	Original		Replacement of	Replaced by			Page 5 / 70



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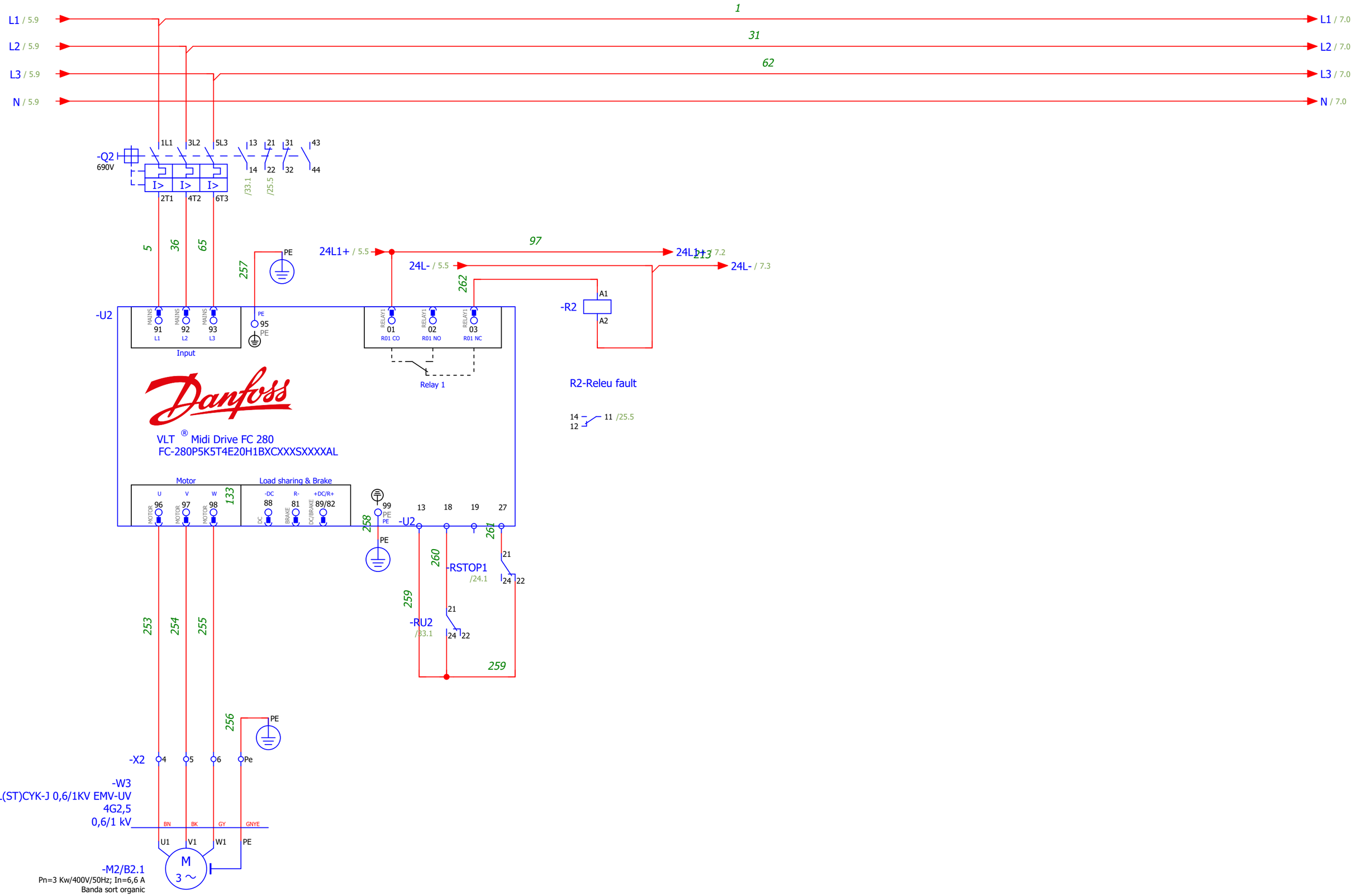
Modification	Date	Name	Original		Replacement of	Replaced by				Page 6 / 70



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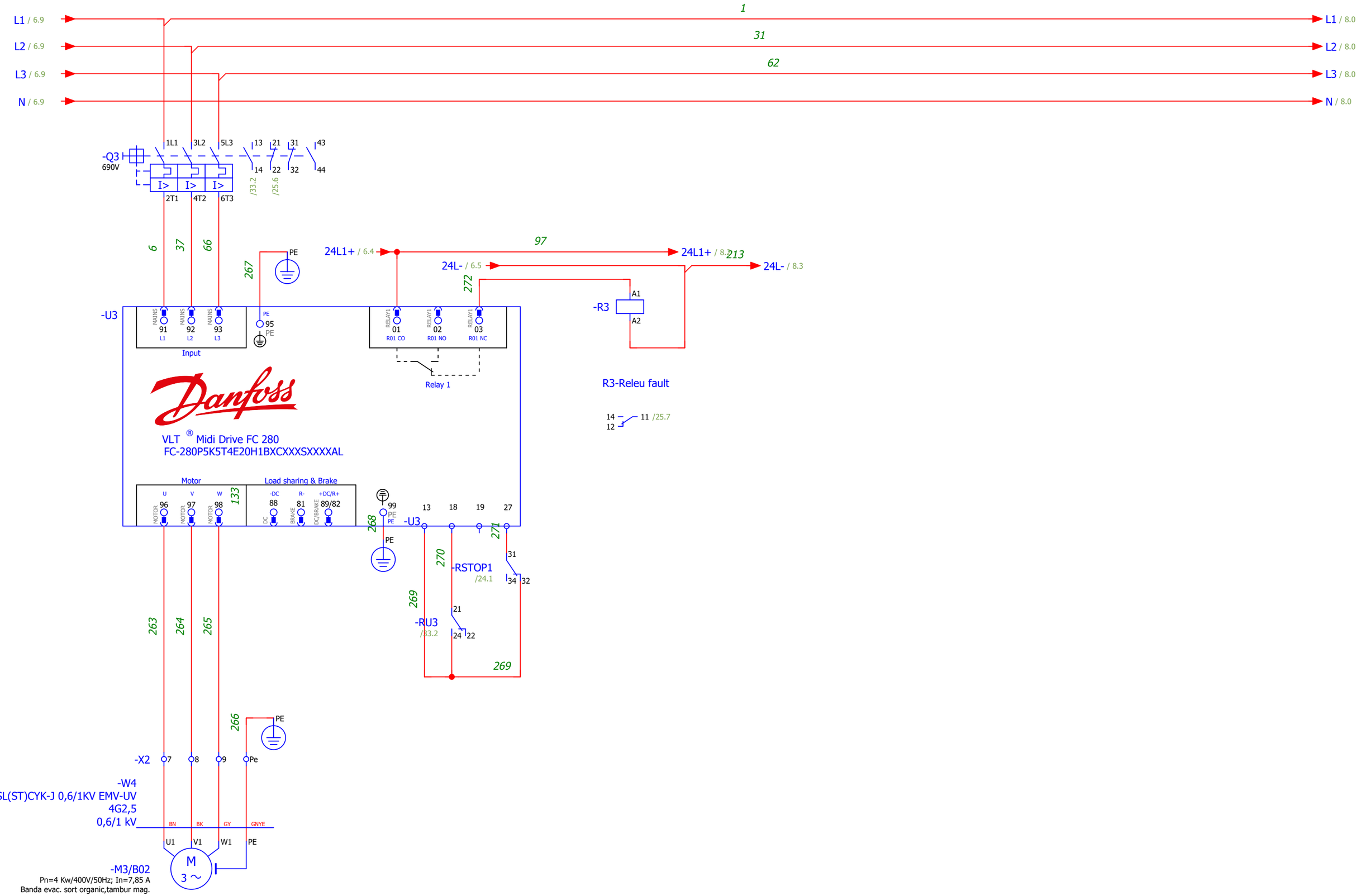
Modification	Date	Name	Original		Replacement of	Replaced by			Page 7 / 70



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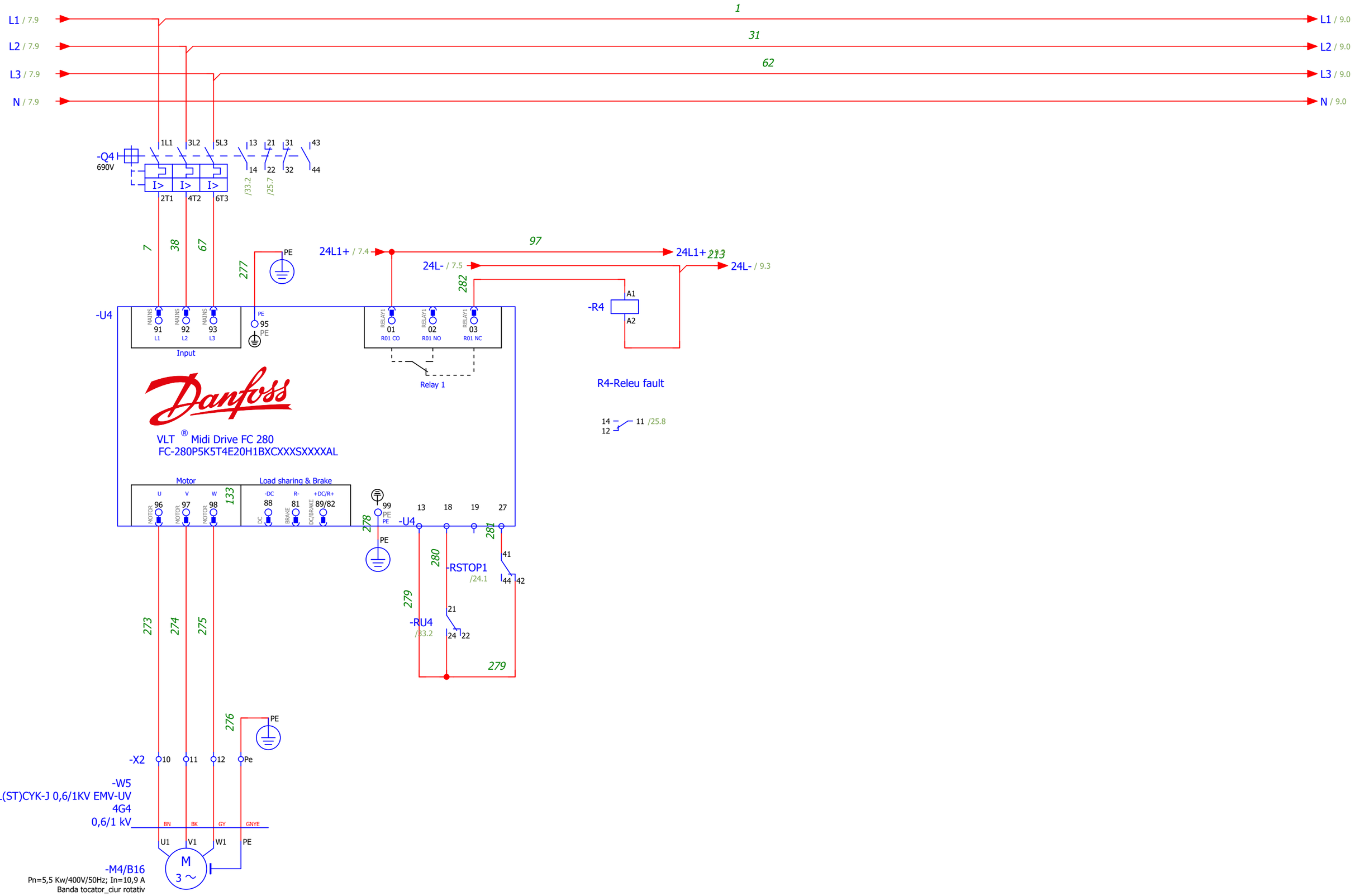
Modification	Date	Name	Original		Replacement of	Replaced by			Page 8 / 70



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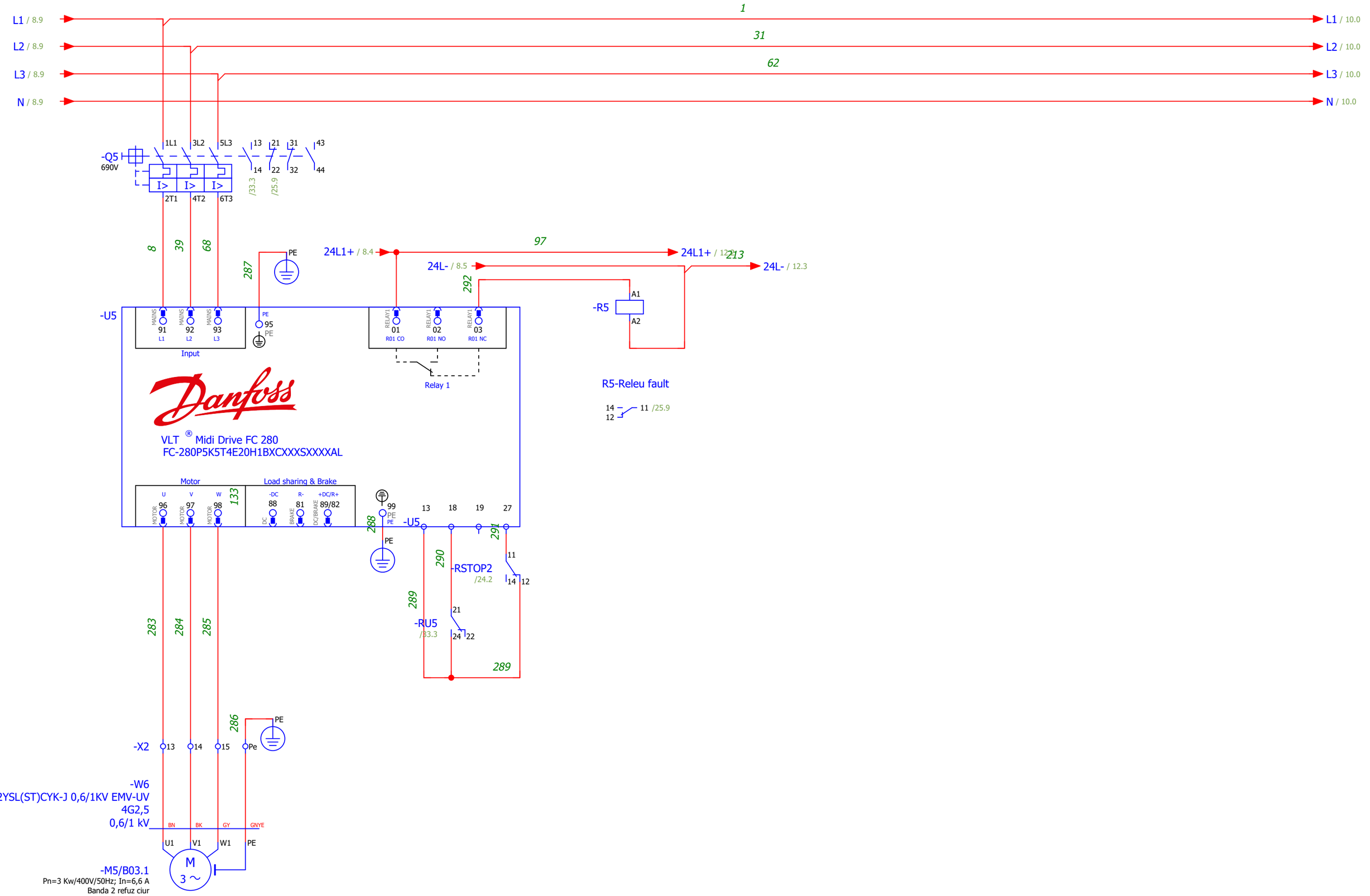
Modification	Date	Name	Original		Replacement of	Replaced by			Page 9 / 70



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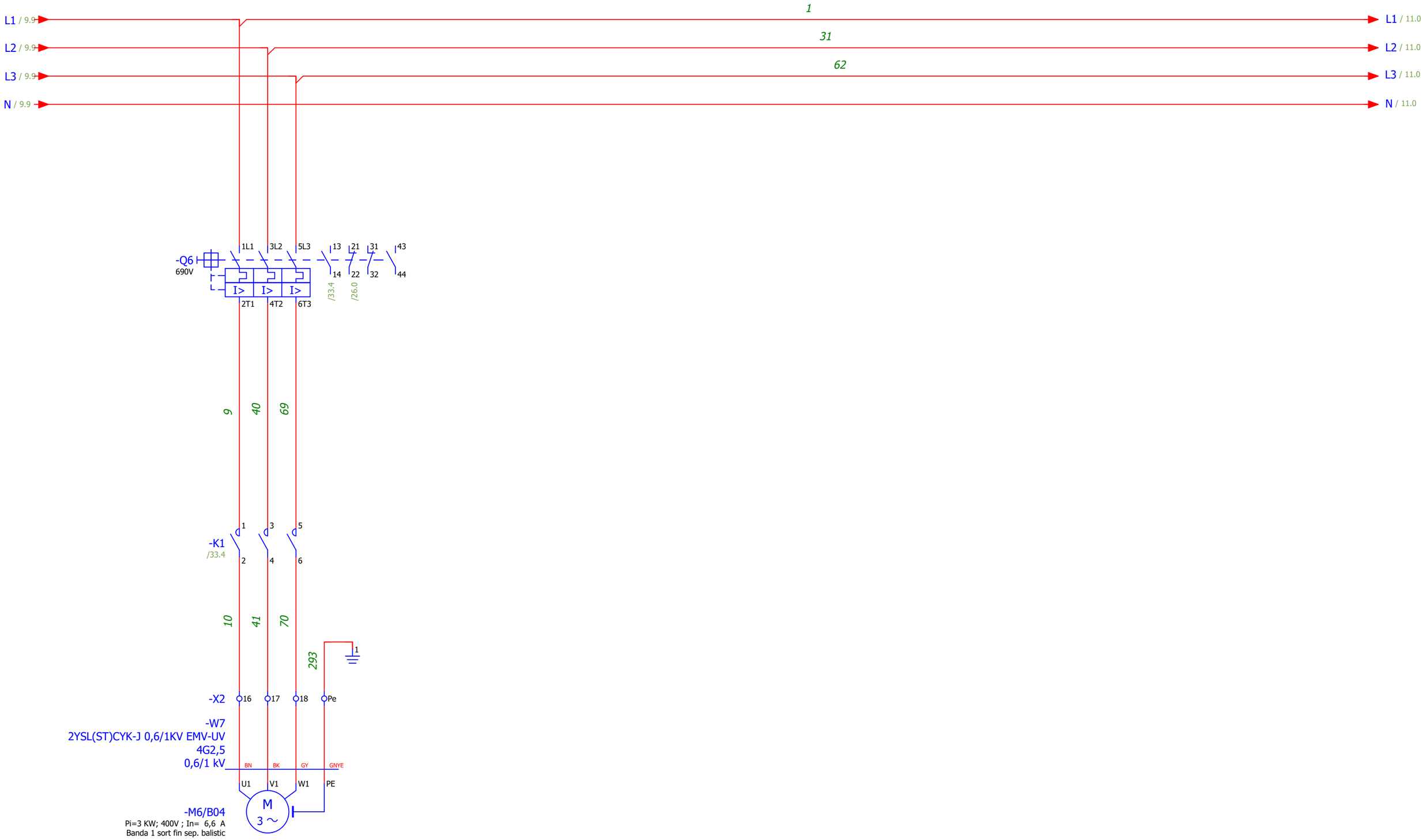
Modification	Date	Name	Original		Replacement of	Replaced by				Page 10 / 70



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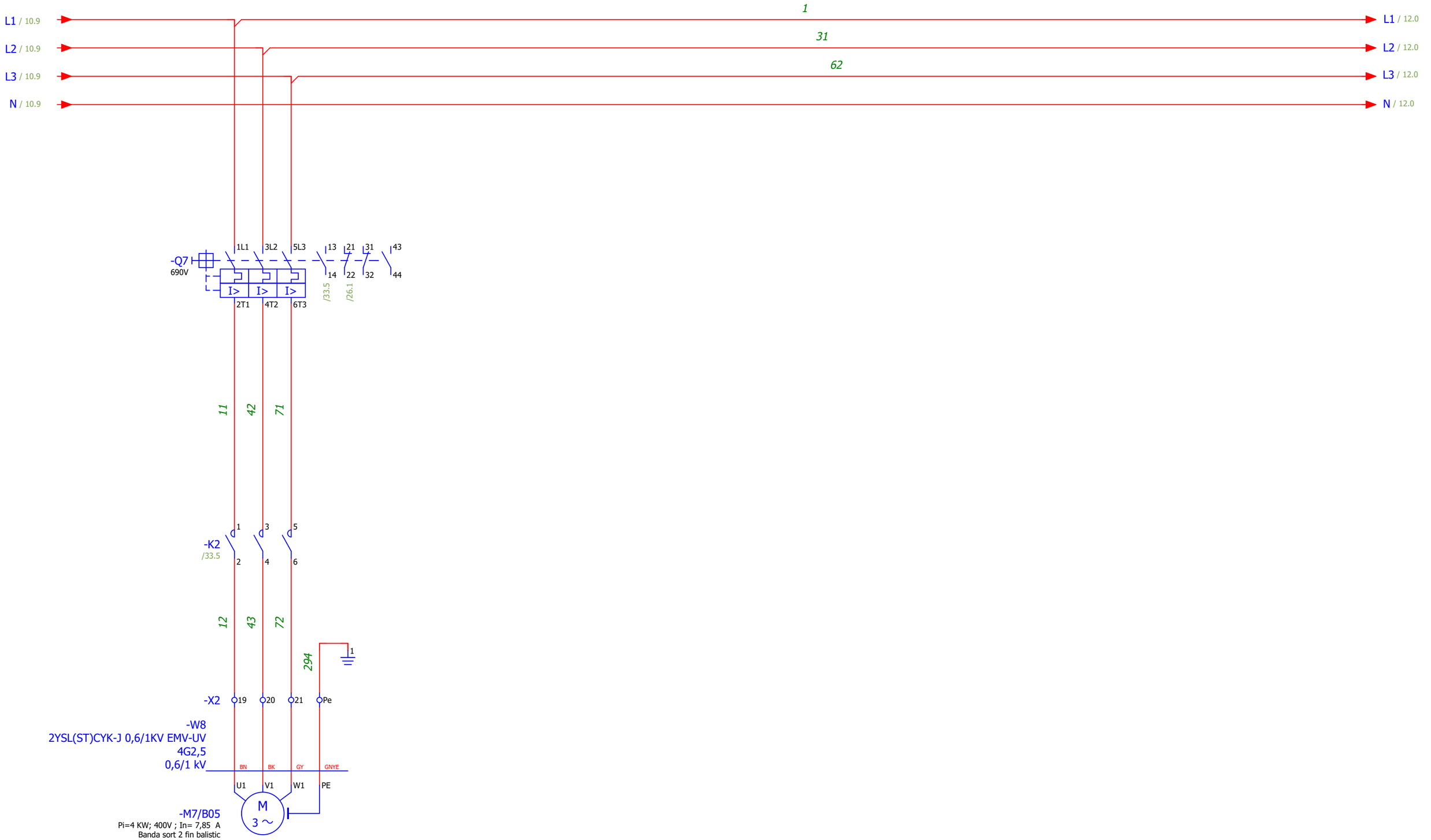
Modification	Date	Name	Original		Replacement of	Replaced by				Page 11 / 70



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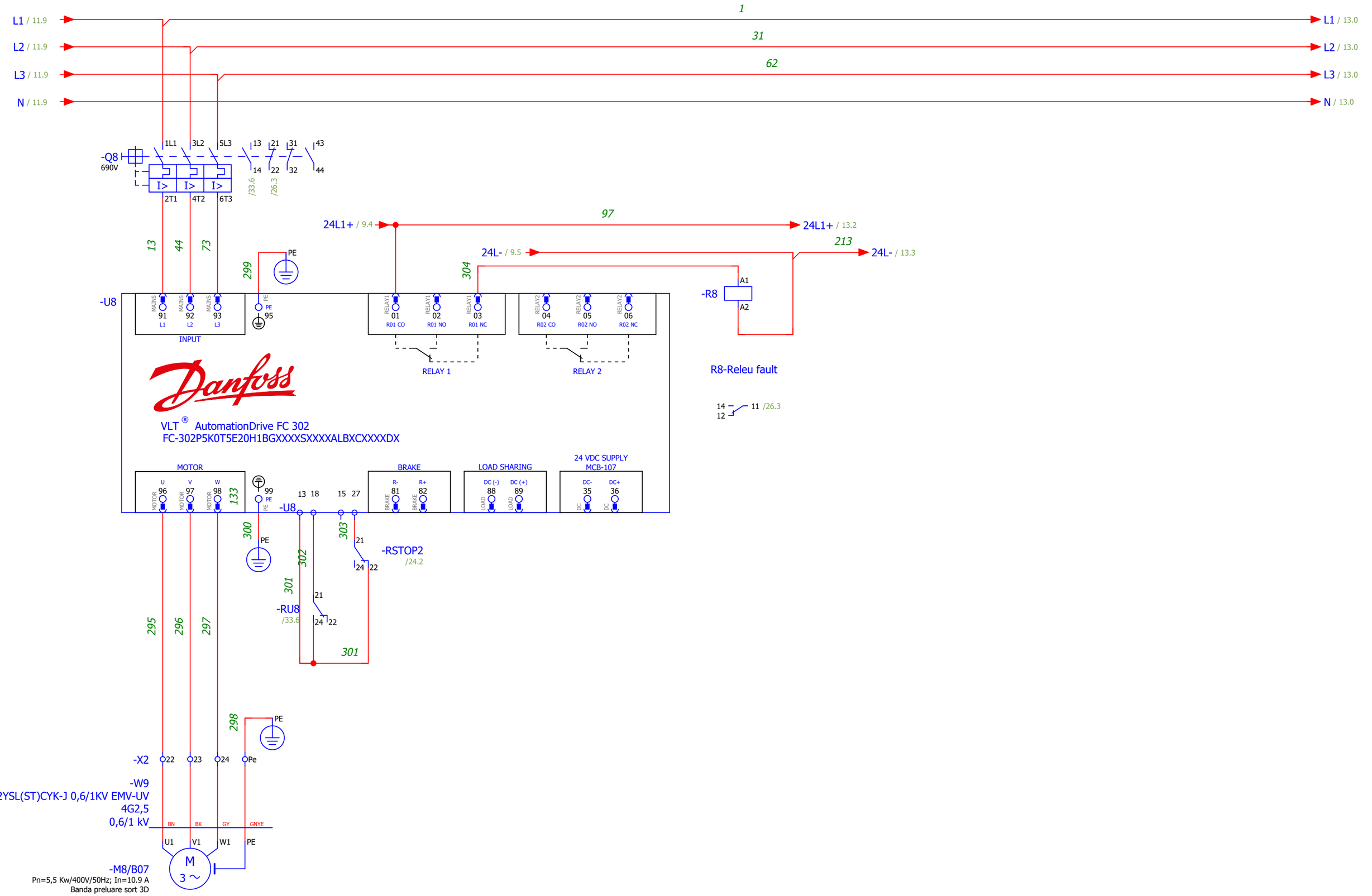
Modification	Date	Name	Original		Replacement of	Replaced by			Page 12 / 70



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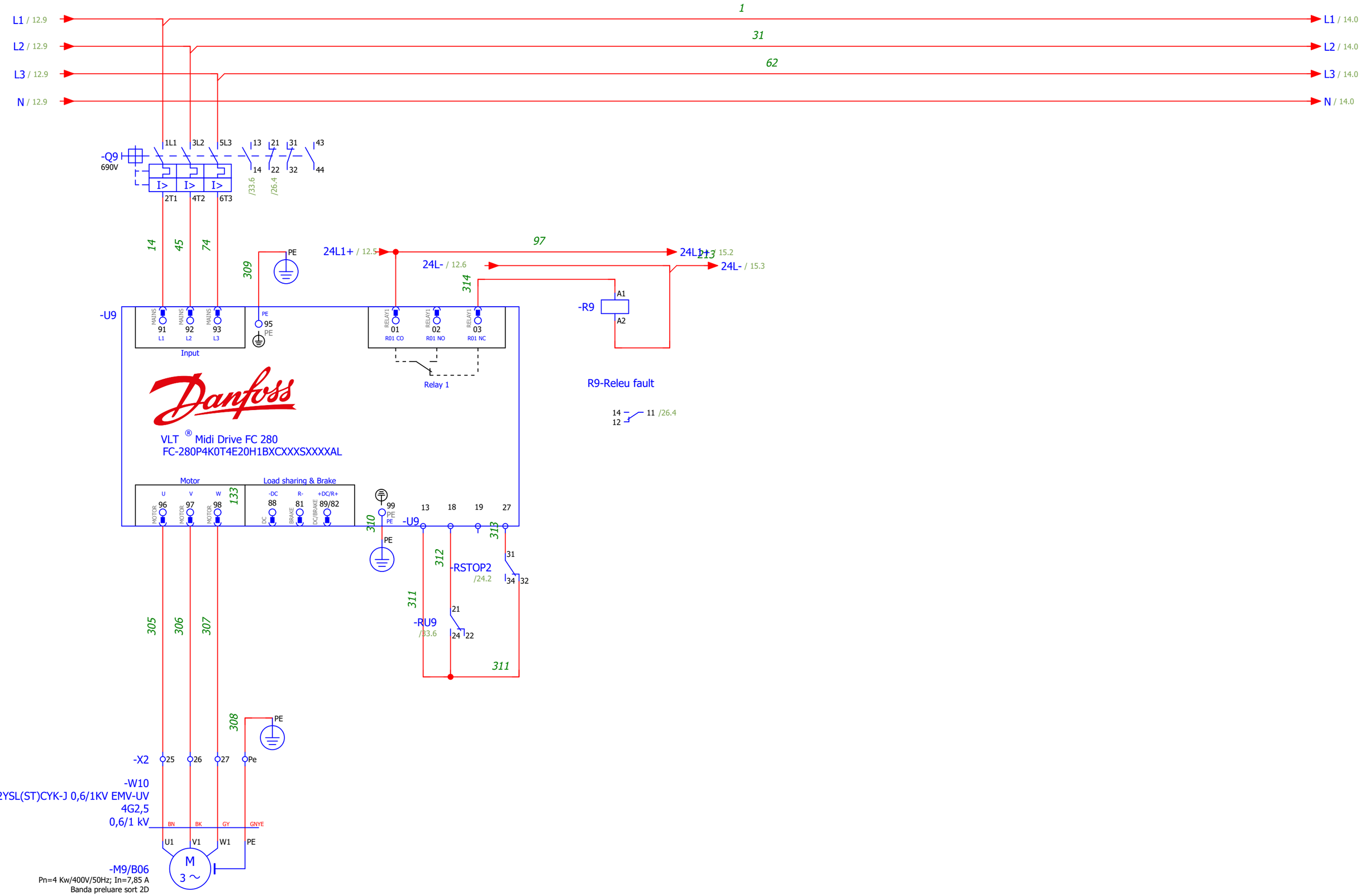
Modification	Date	Name	Original		Replacement of	Replaced by			Page	13 / 70



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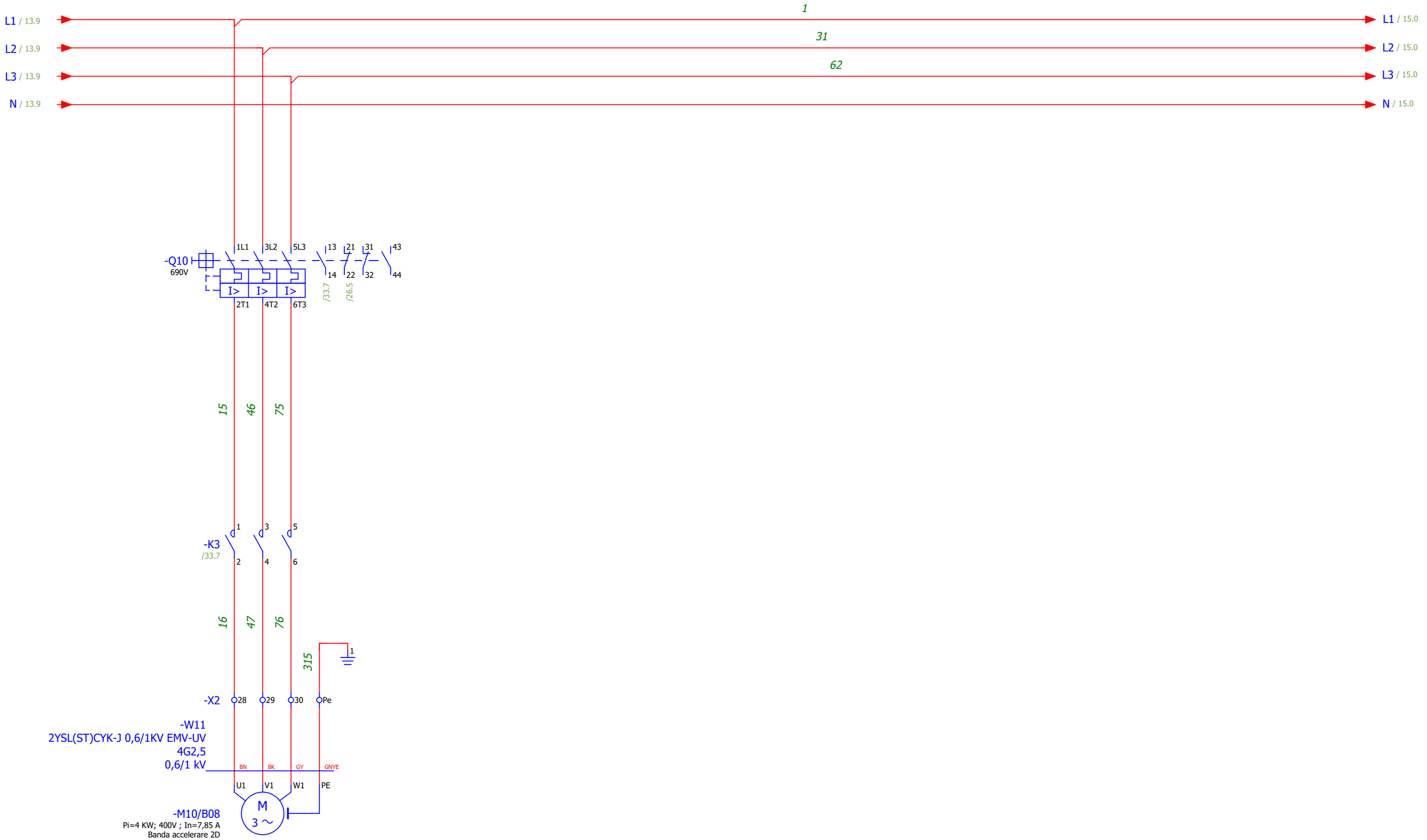
Modification	Date	Name	Original		Replacement of	Replaced by				Page 14 / 70



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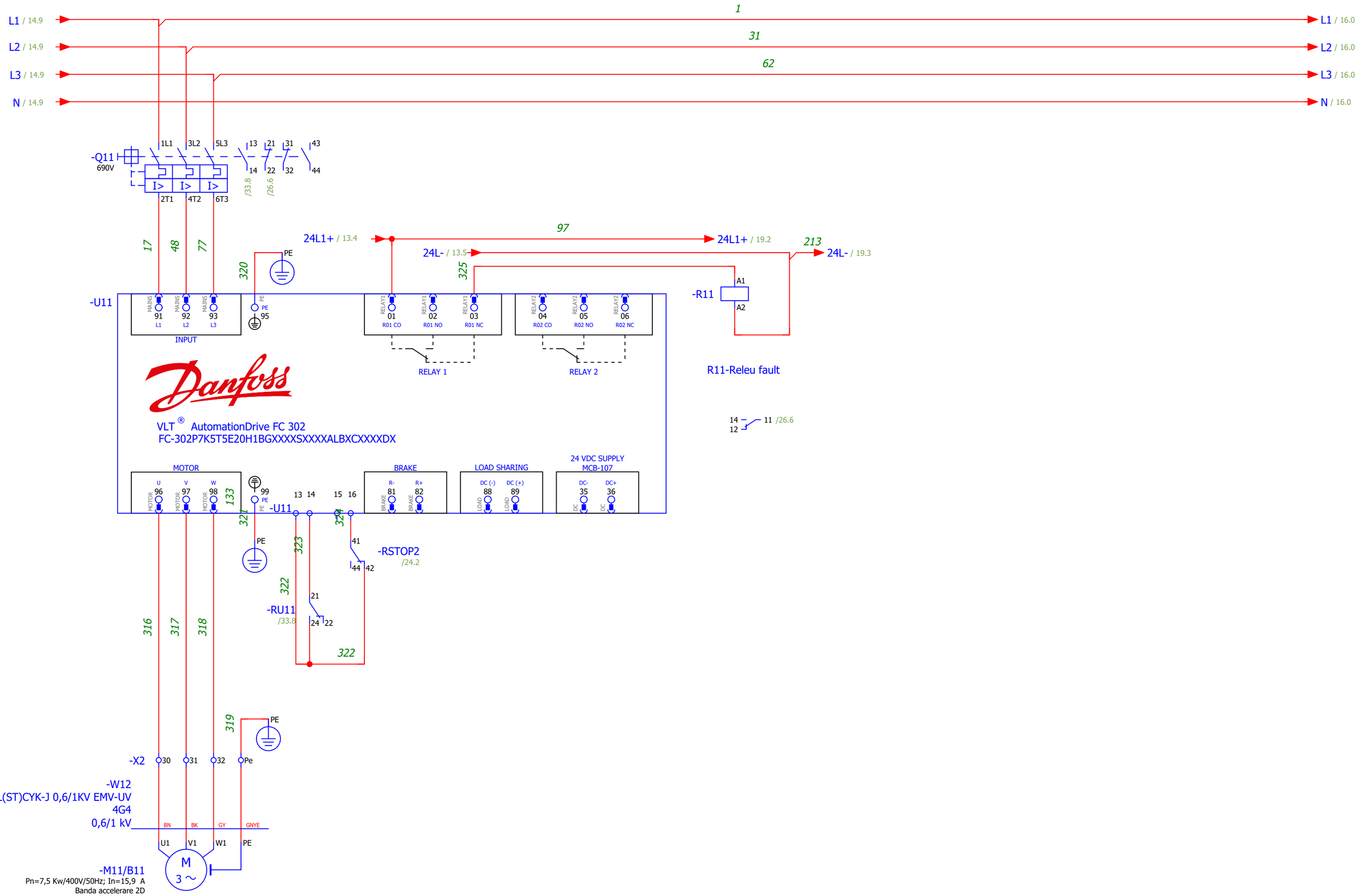
Modification	Date	Name	Original		Replacement of	Replaced by				Page 15 / 70



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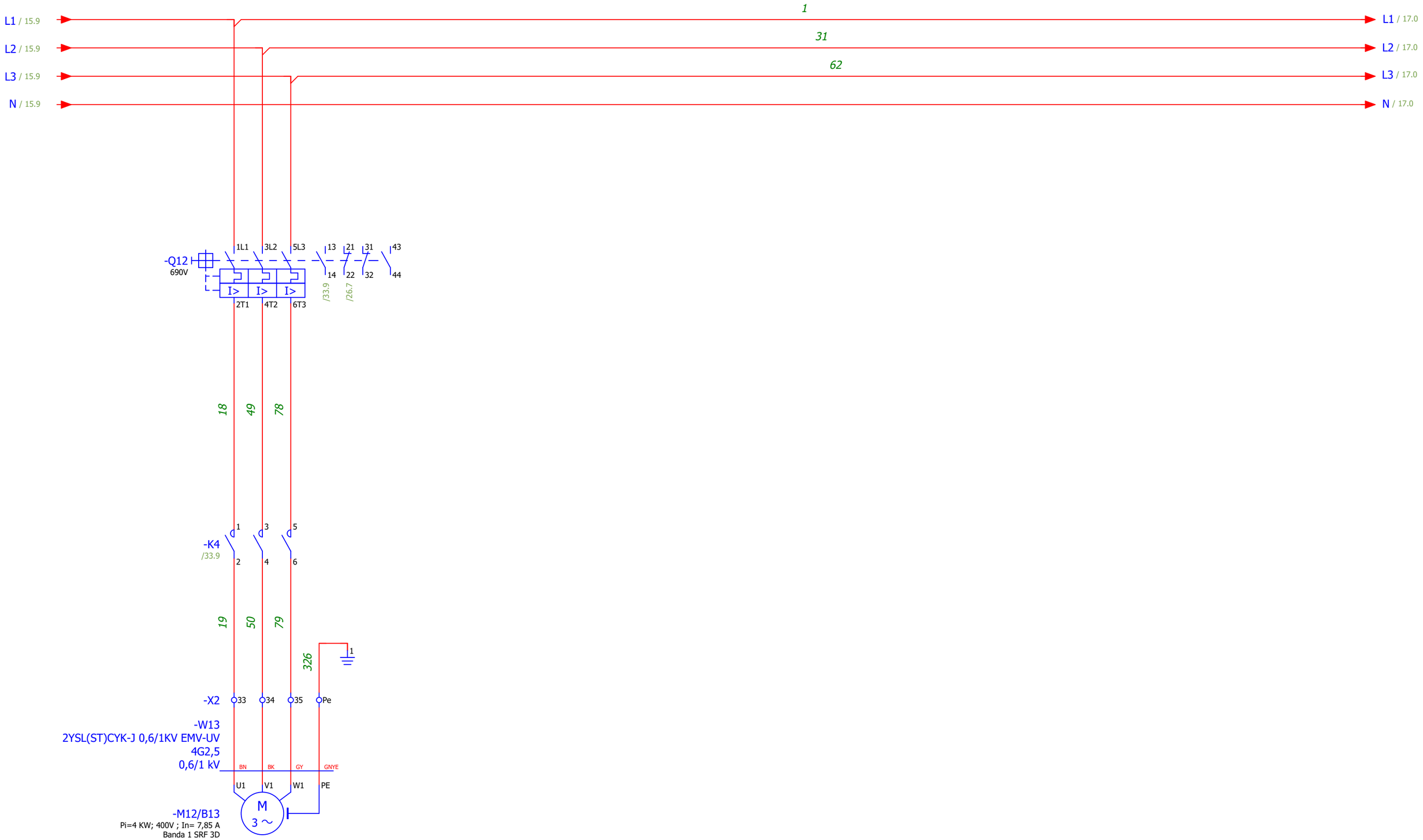
Modification	Date	Name	Original		Replacement of	Replaced by				Page 16 / 70



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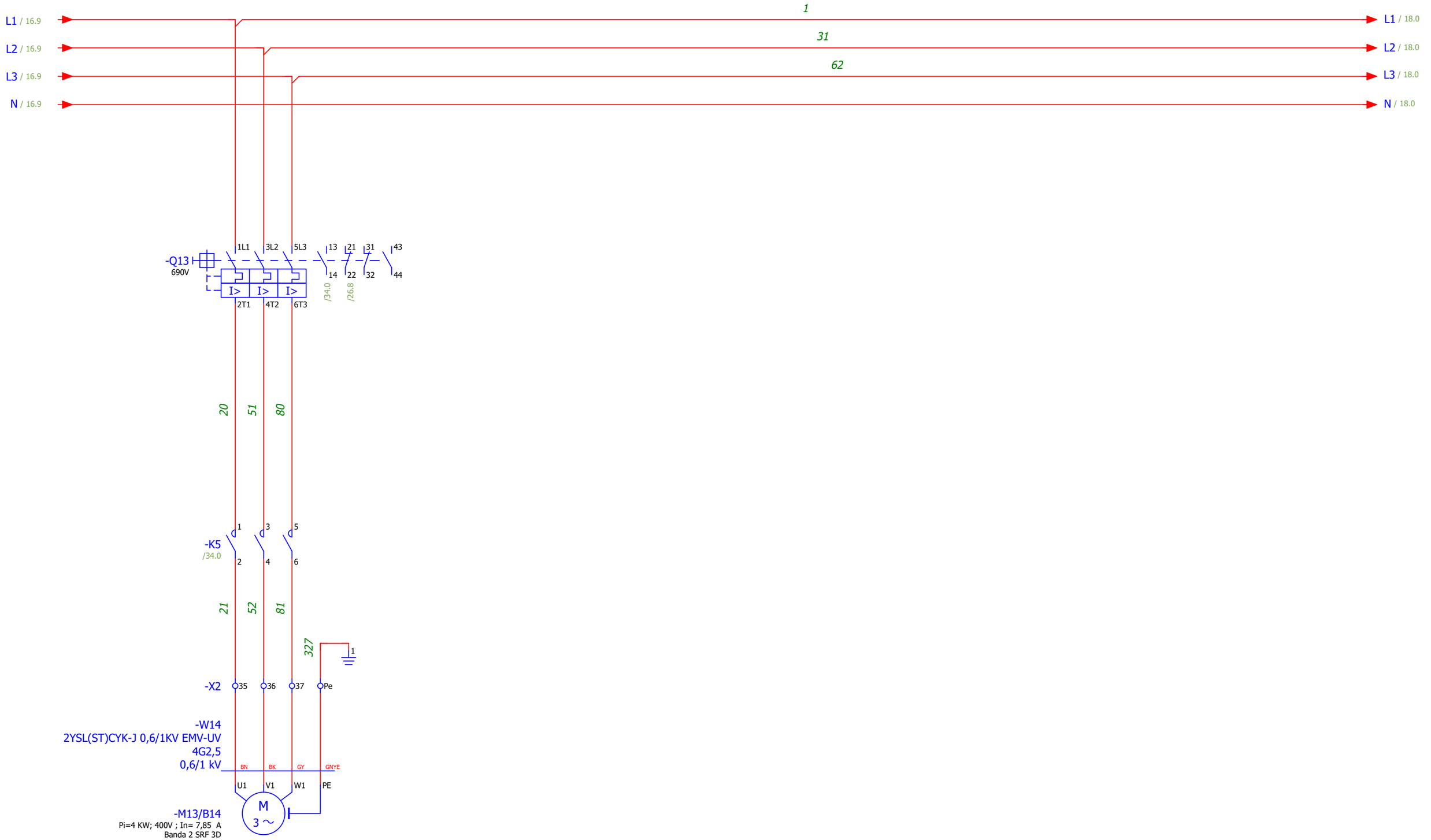
Modification	Date	Name	Original		Replacement of	Replaced by			Page 17 / 70



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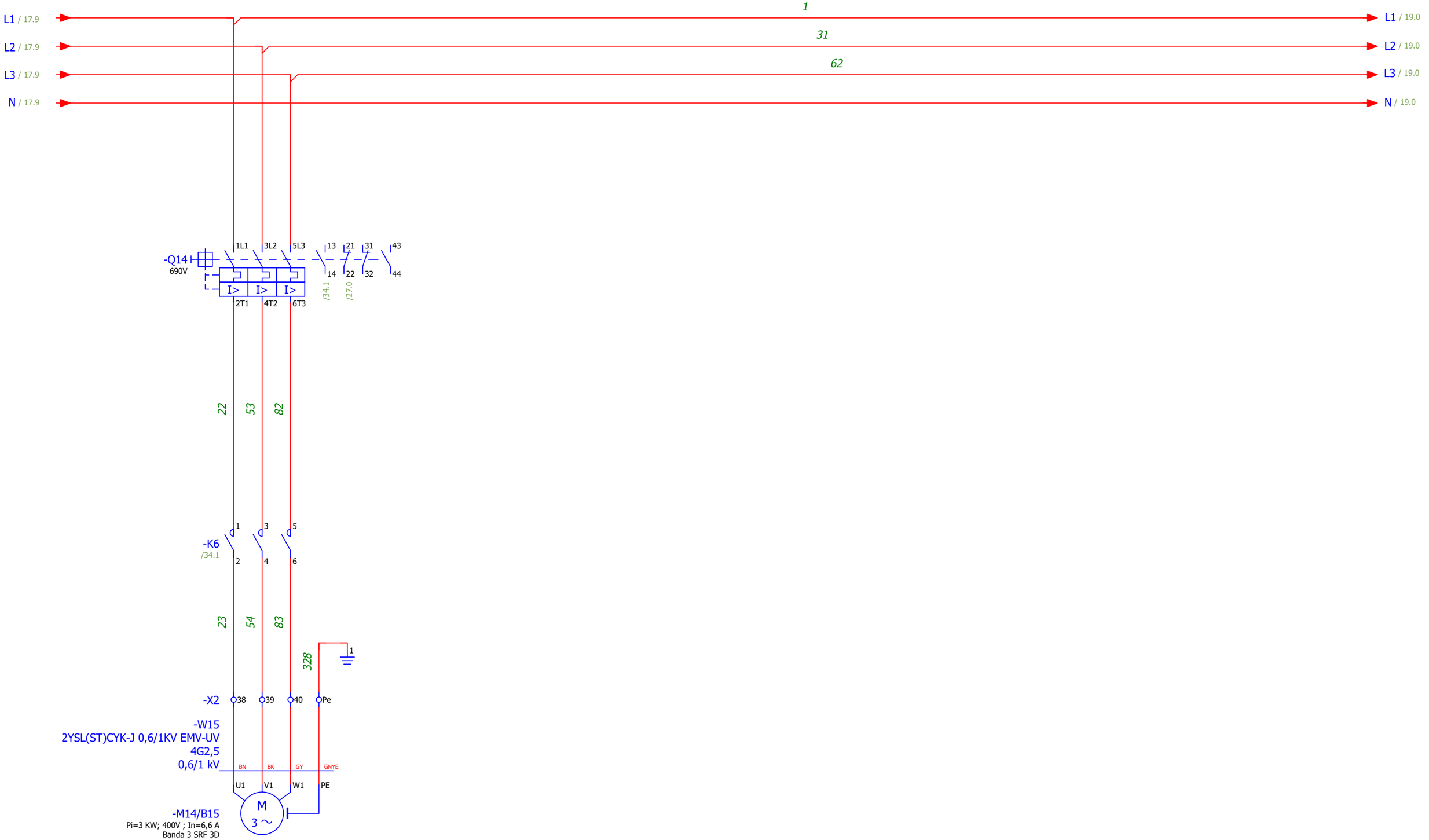
Modification	Date	Name	Original		Replacement of	Replaced by				Page 18 / 70



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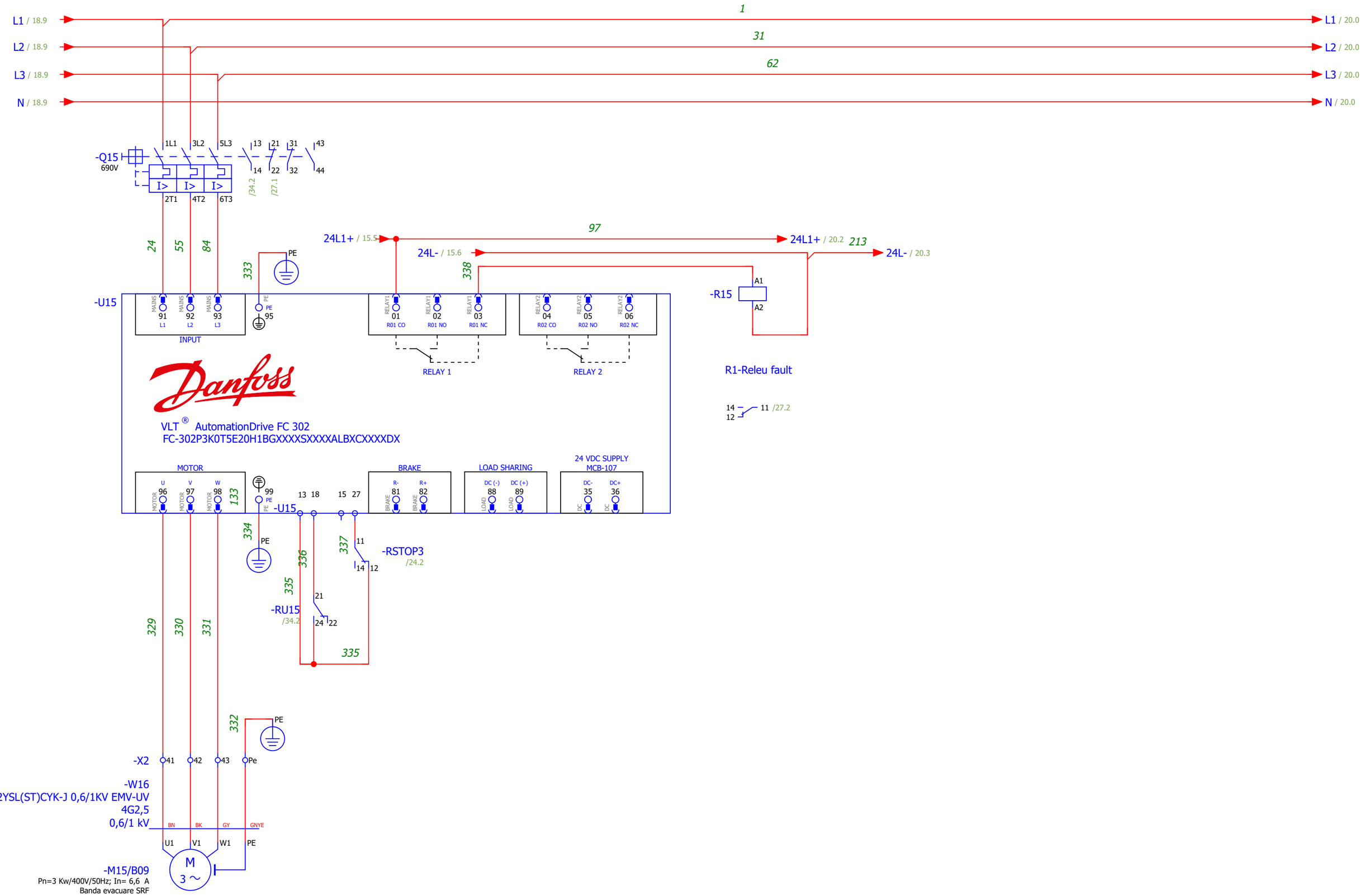

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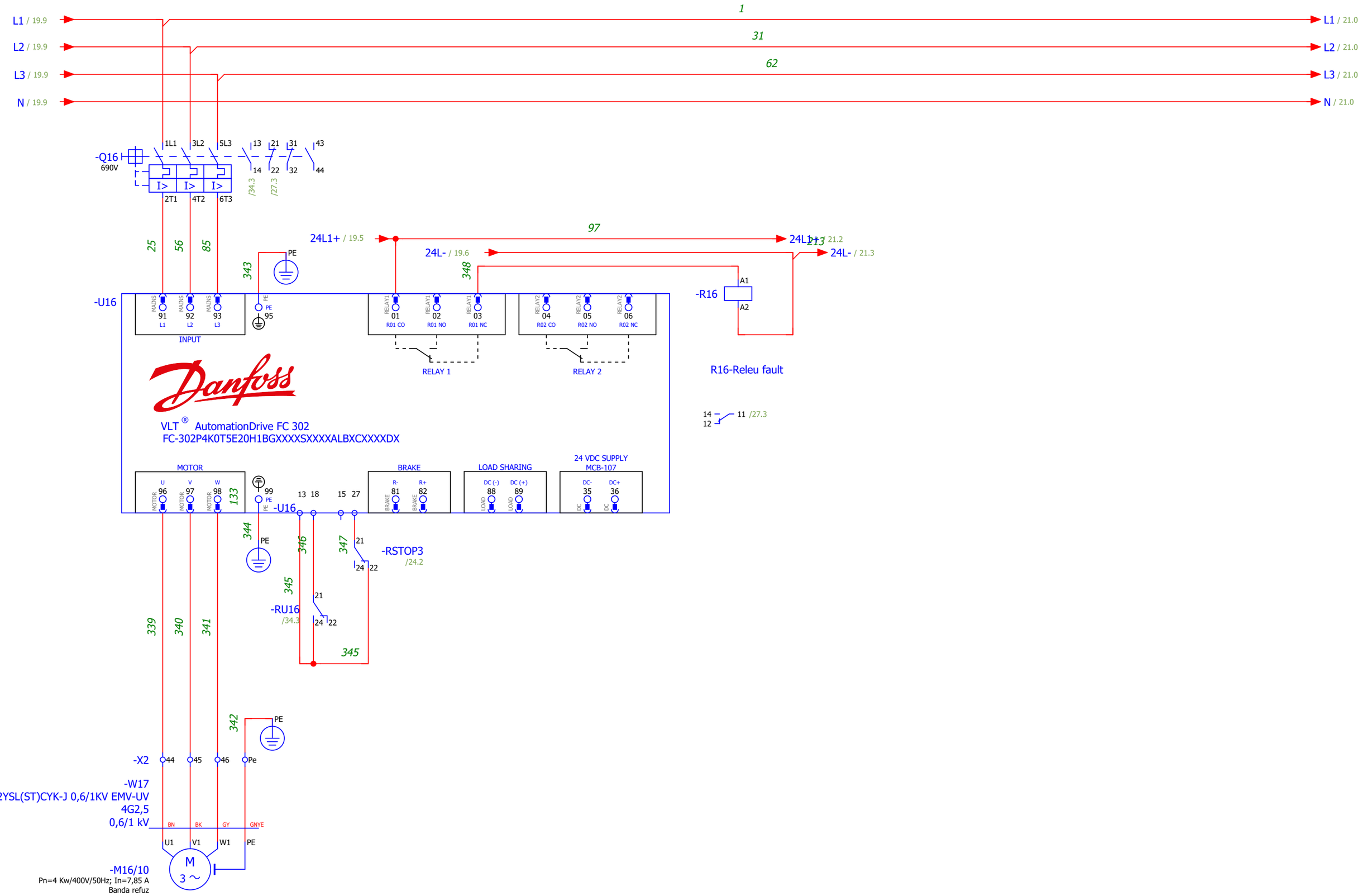

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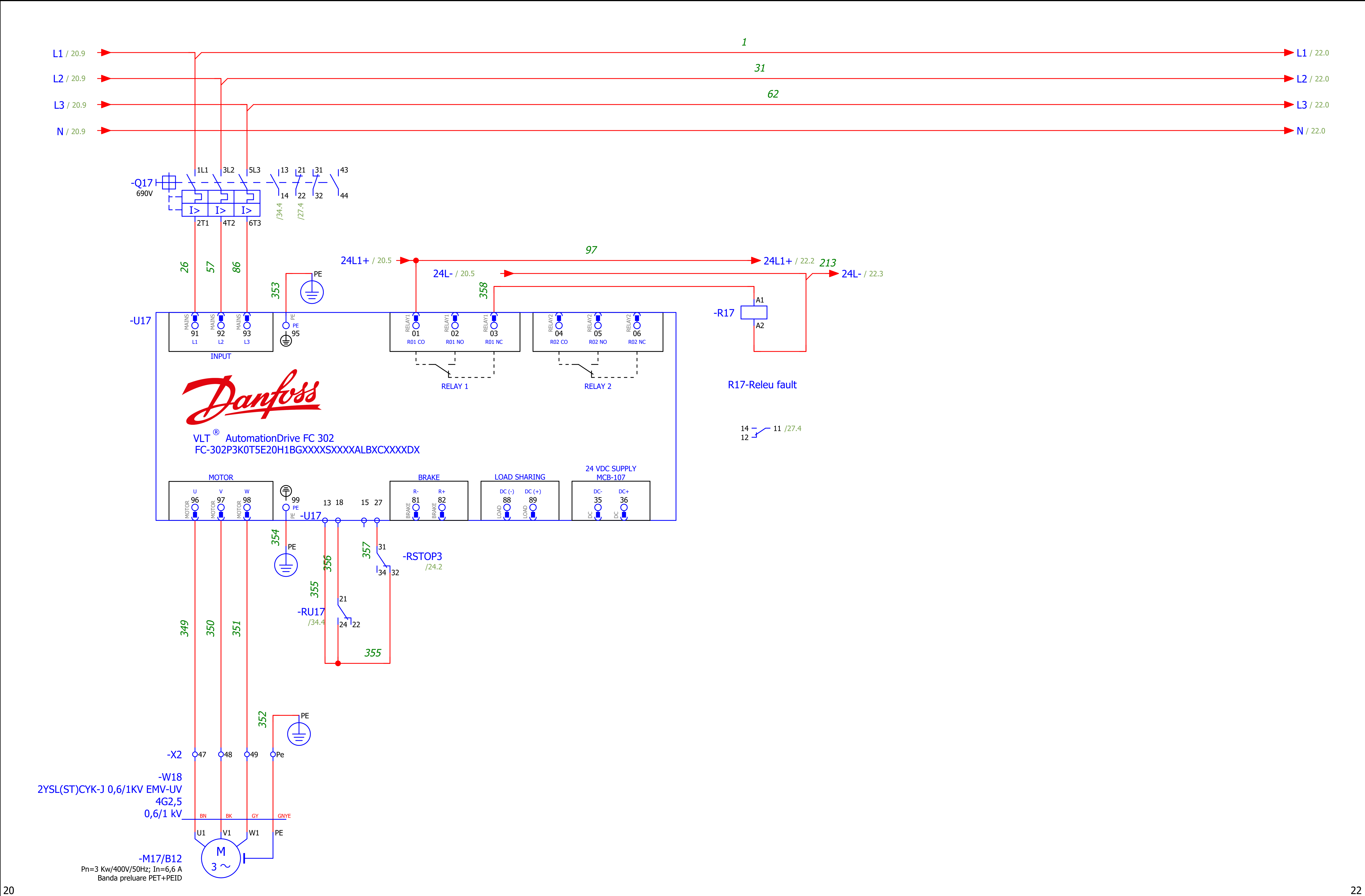

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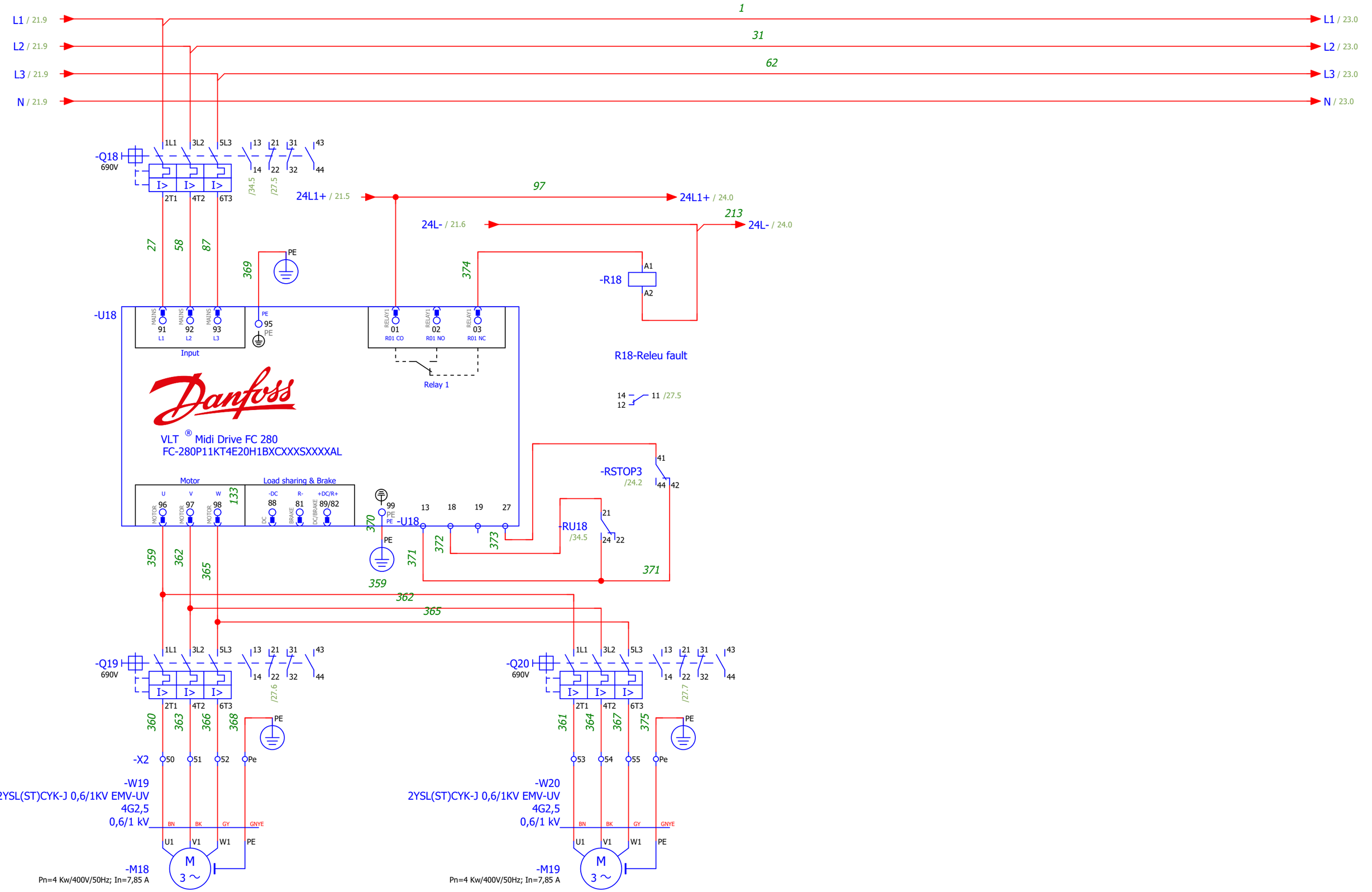
Modification	Date	Name	Original		Replacement of	Replaced by				Page	22 / 70



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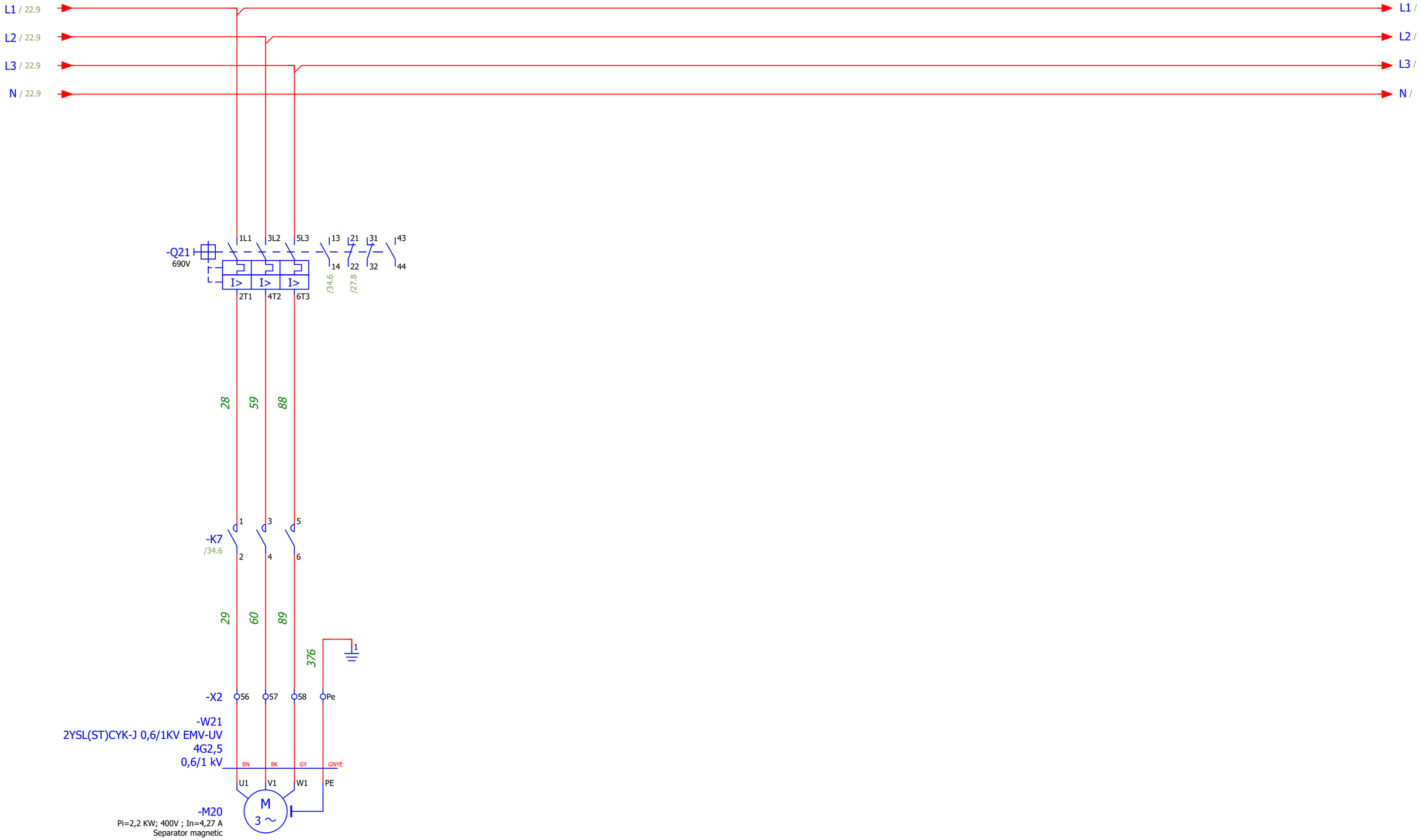
			Appr		Statie tratare mecanica					
Modification	Date	Name	Original		Replacement of	Replaced by		IEC_bas001	Page	22
									Page	23 / 70



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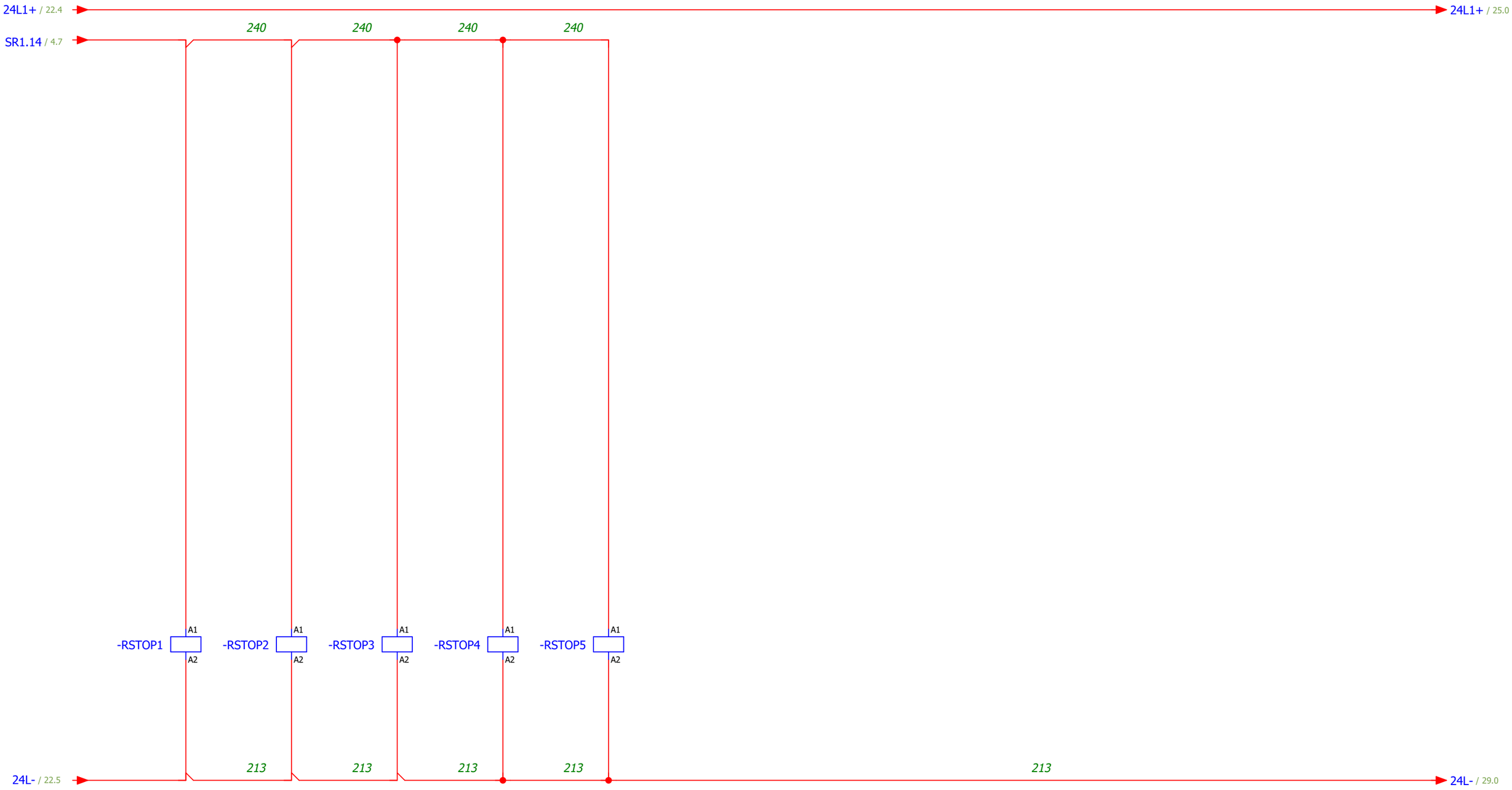
Modification	Date	Name	Original		Replacement of	Replaced by			Page 24 / 70



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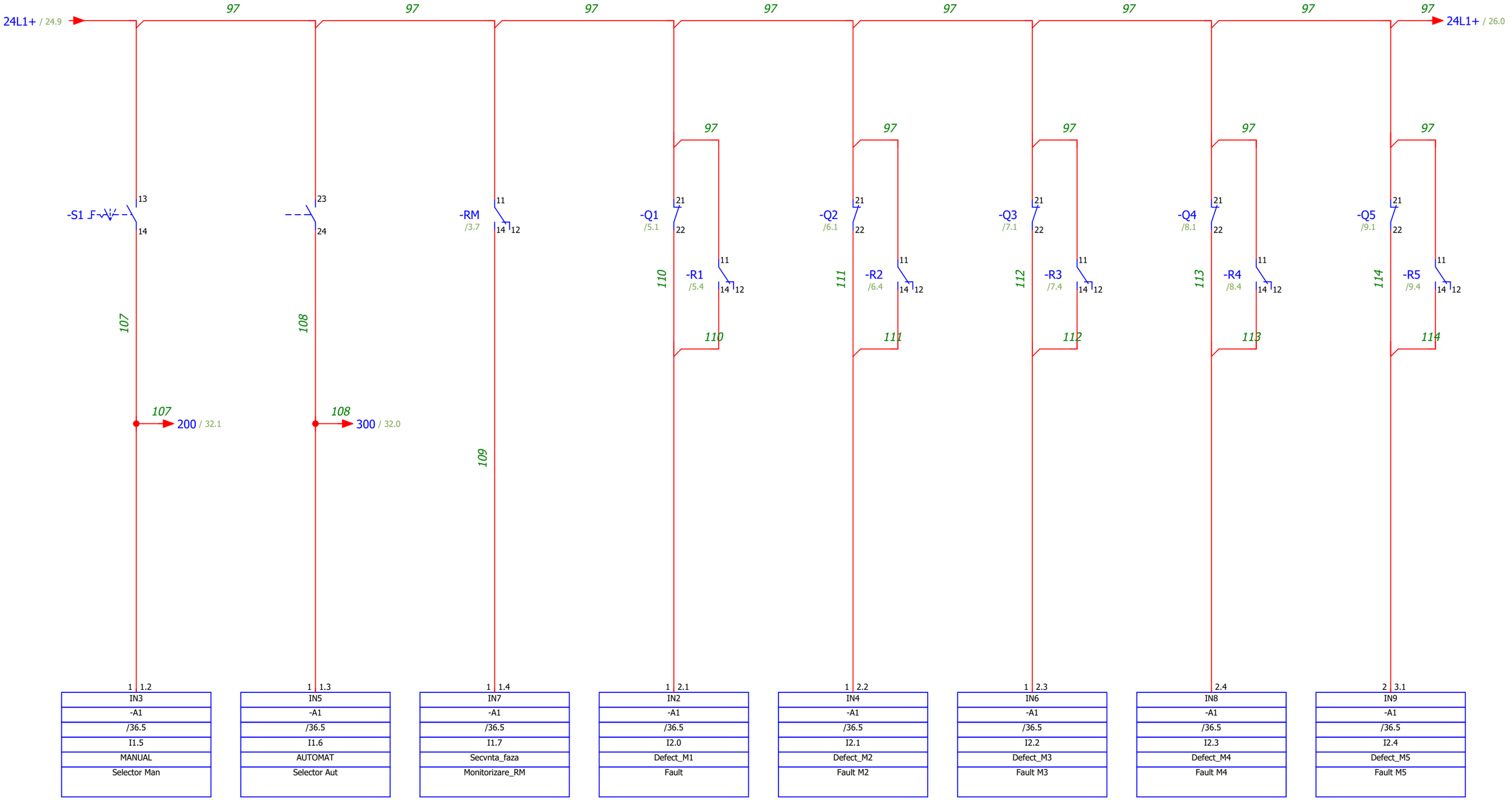
			Appr		Statie tratare mecanica			IEC_bas001	Page 24
Modification	Date	Name	Original		Replacement of	Replaced by			Page 25 / 70



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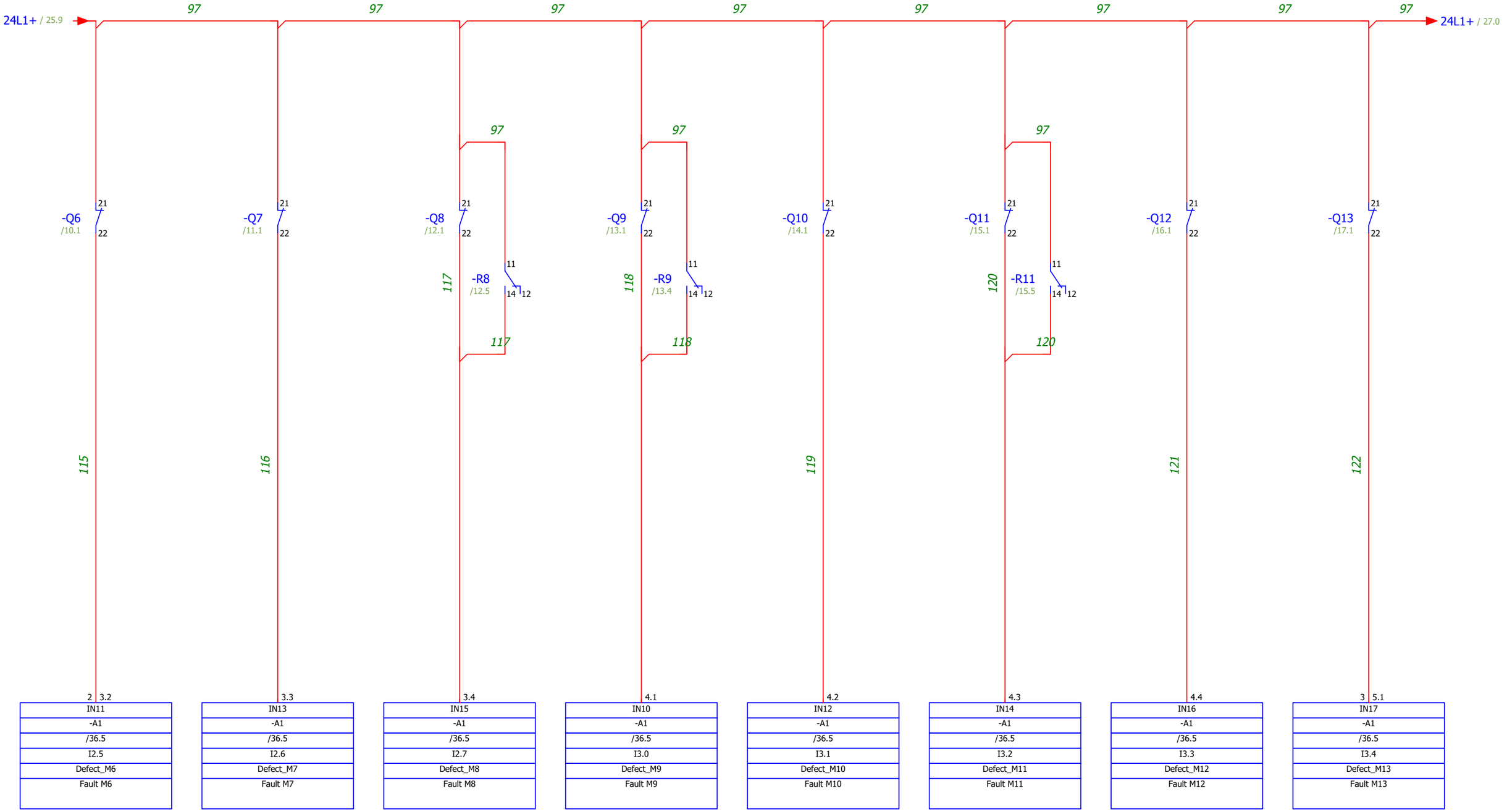
			Appr		Statie tratare mecanica			IEC_bas001	Page 25
Modification	Date	Name	Original		Replacement of	Replaced by			Page 26 / 70



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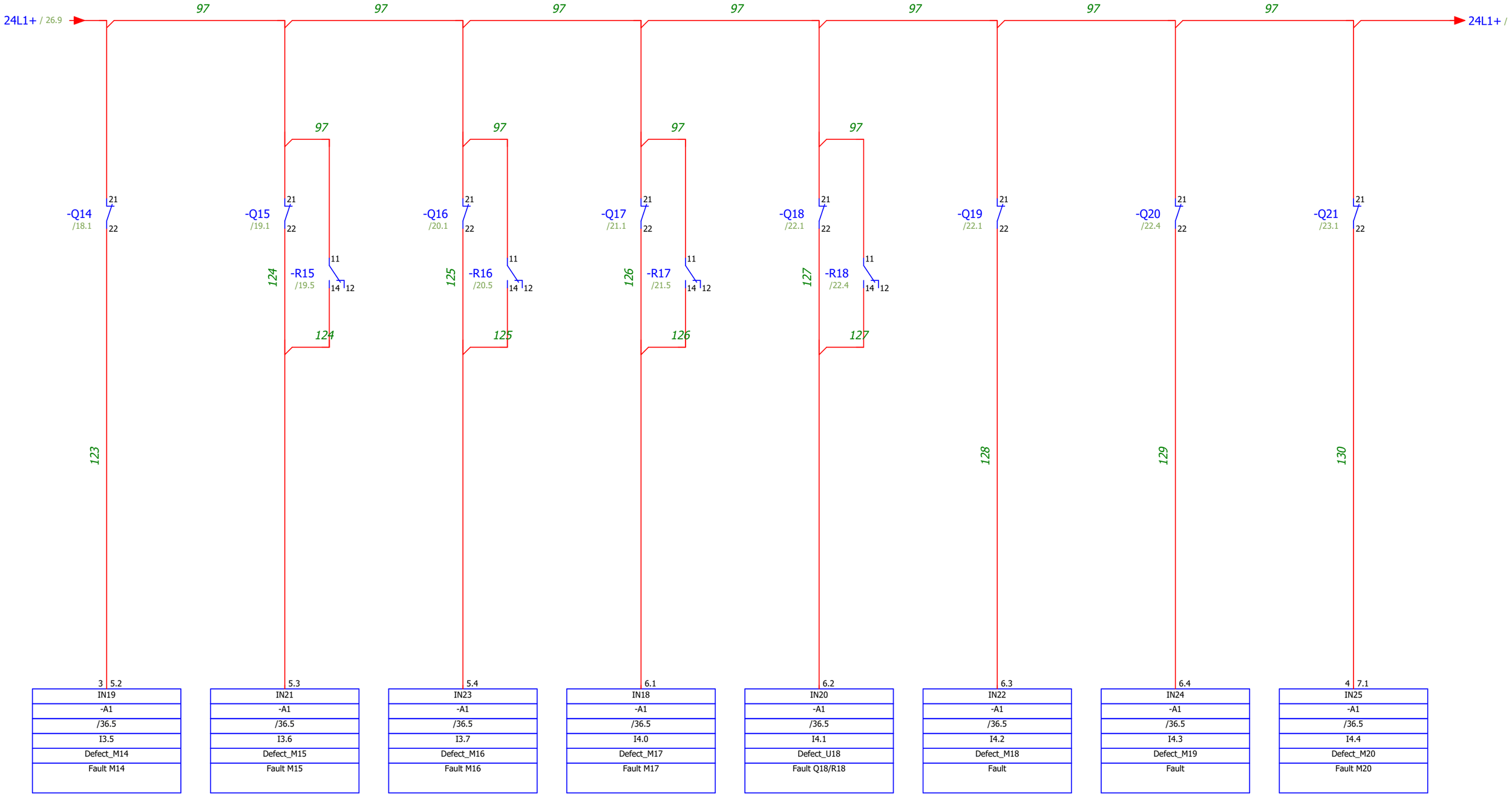
			Appr		Statie tratare mecanica			IEC_bas001	Page 26
Modification	Date	Name	Original		Replacement of	Replaced by			Page 27 / 70



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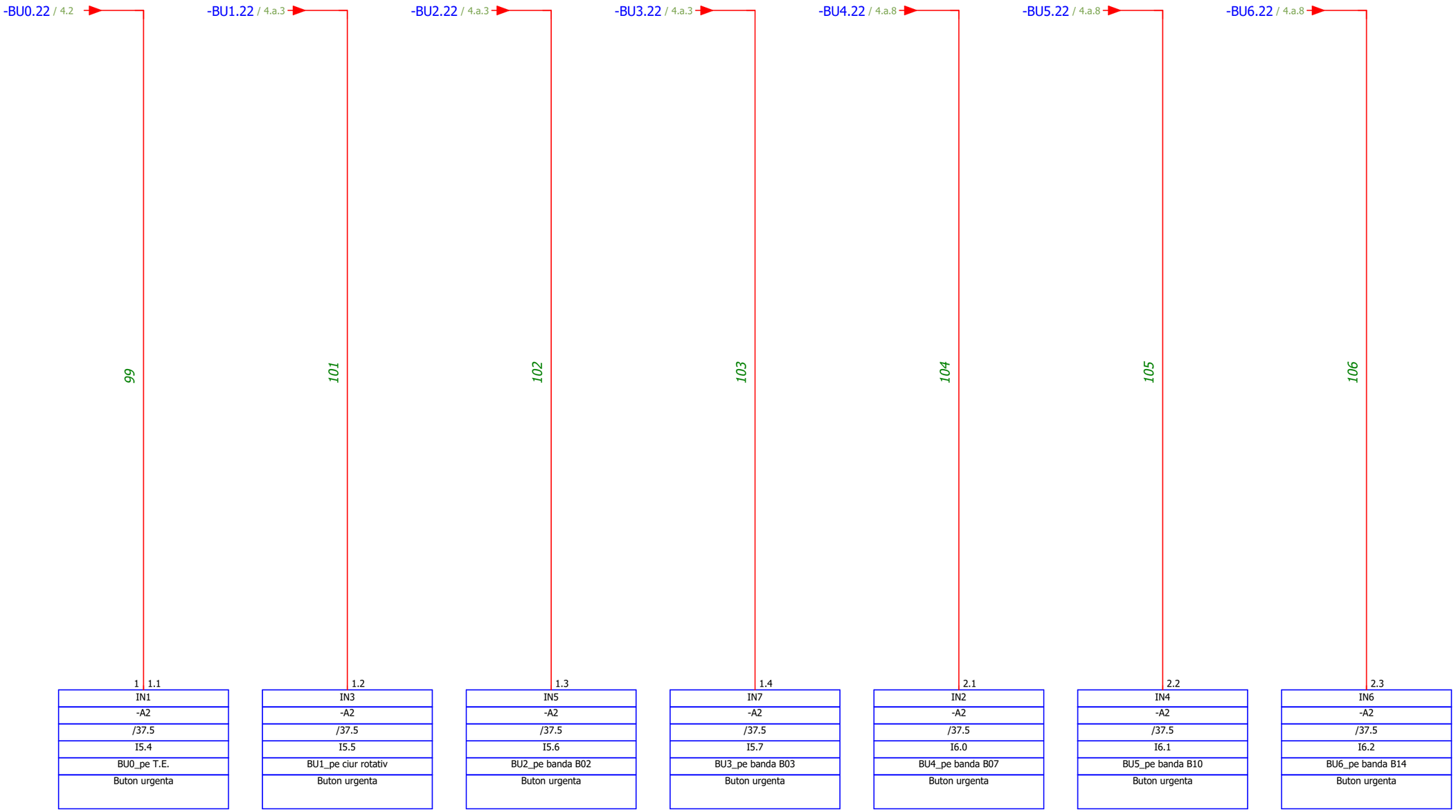
			Appr		Statie tratare mecanica			IEC_bas001	Page 27
Modification	Date	Name	Original		Replacement of	Replaced by			Page 28 / 70



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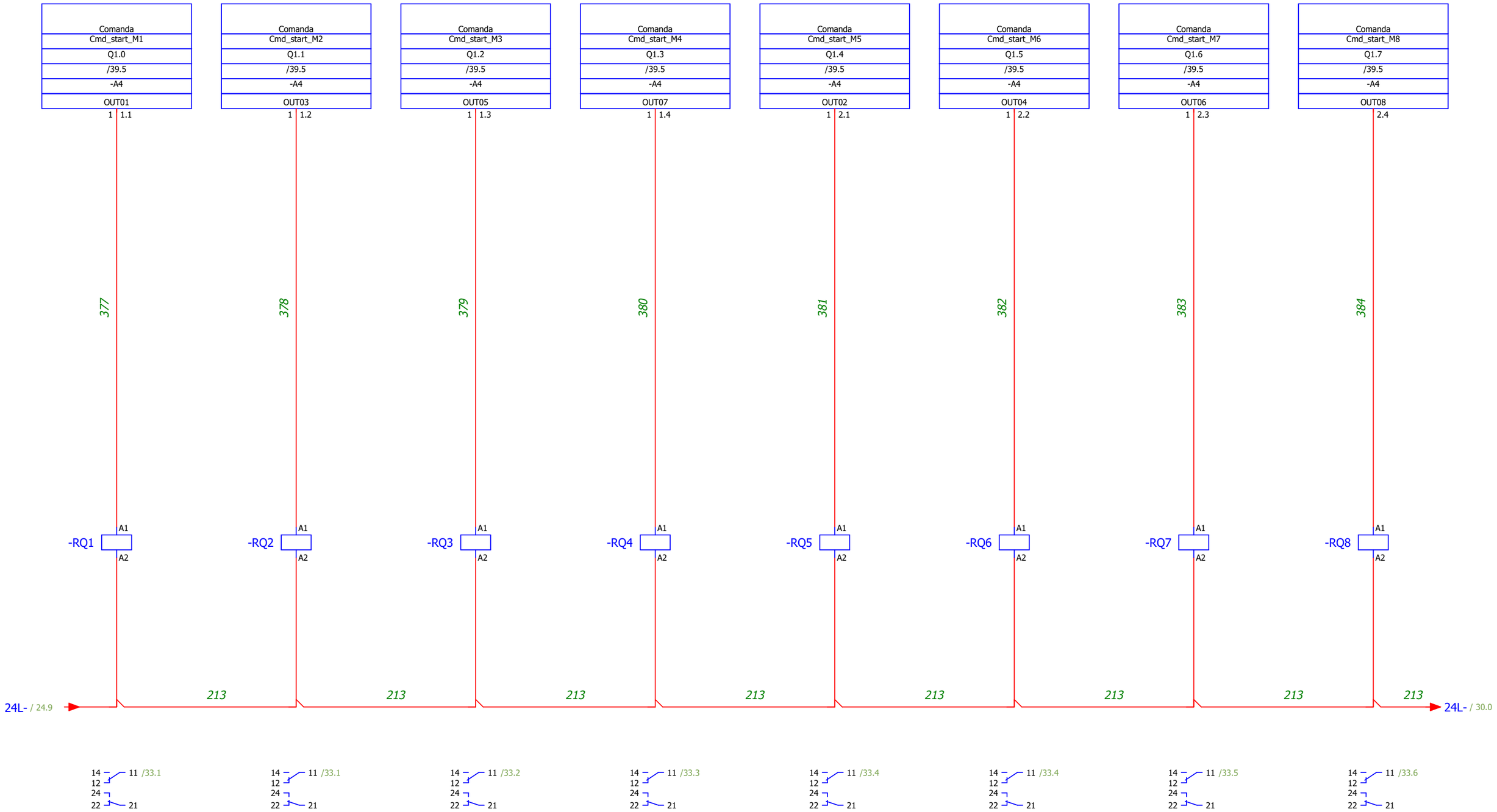
			Appr		Statie tratare mecanica			IEC_bas001	Page 28
Modification	Date	Name	Original		Replacement of	Replaced by			Page 29 / 70



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			Appr		Statie tratare mecanica			IEC_bas001	Page 29
Modification	Date	Name	Original		Replacement of	Replaced by			Page 30 / 70

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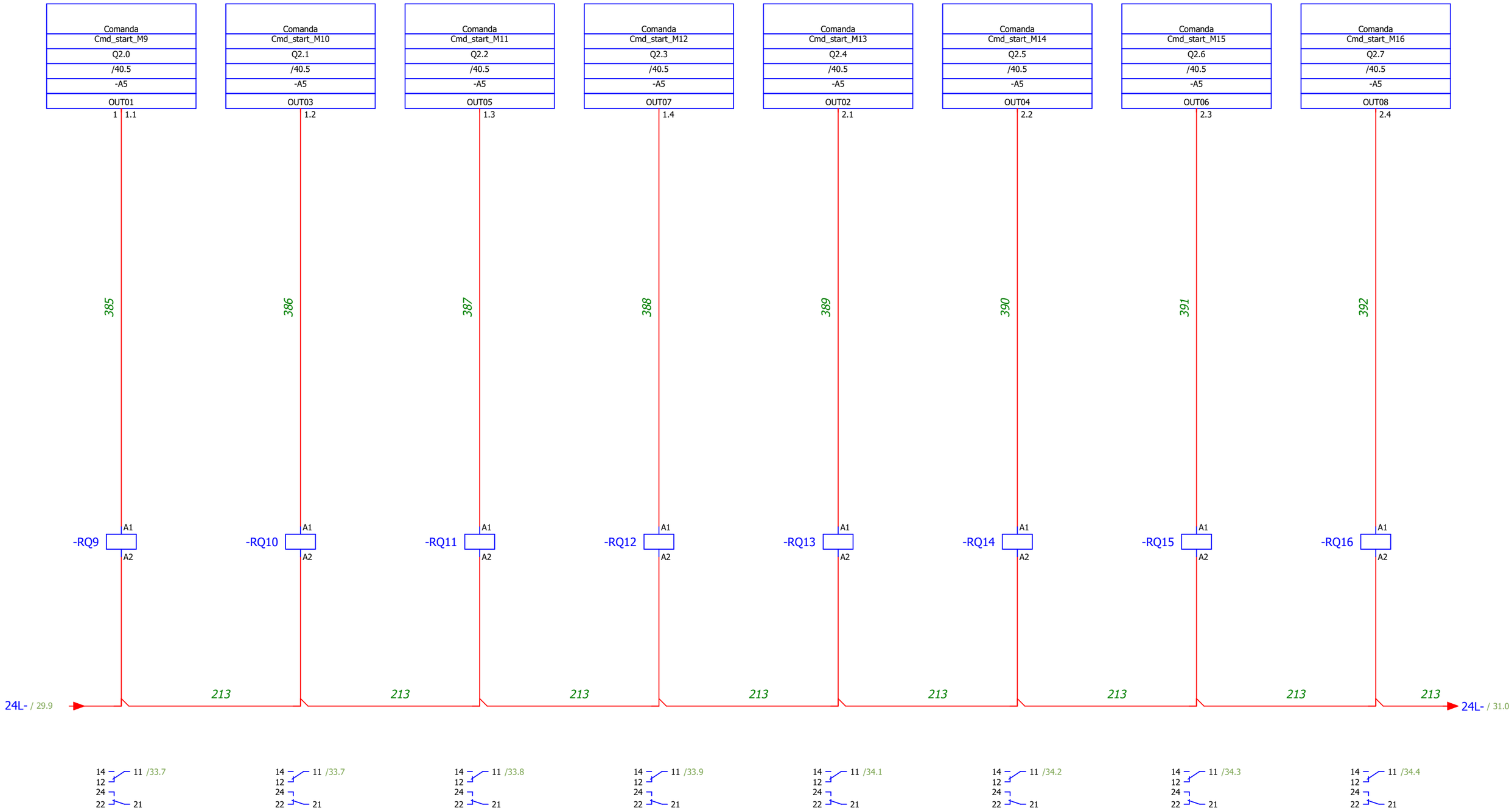

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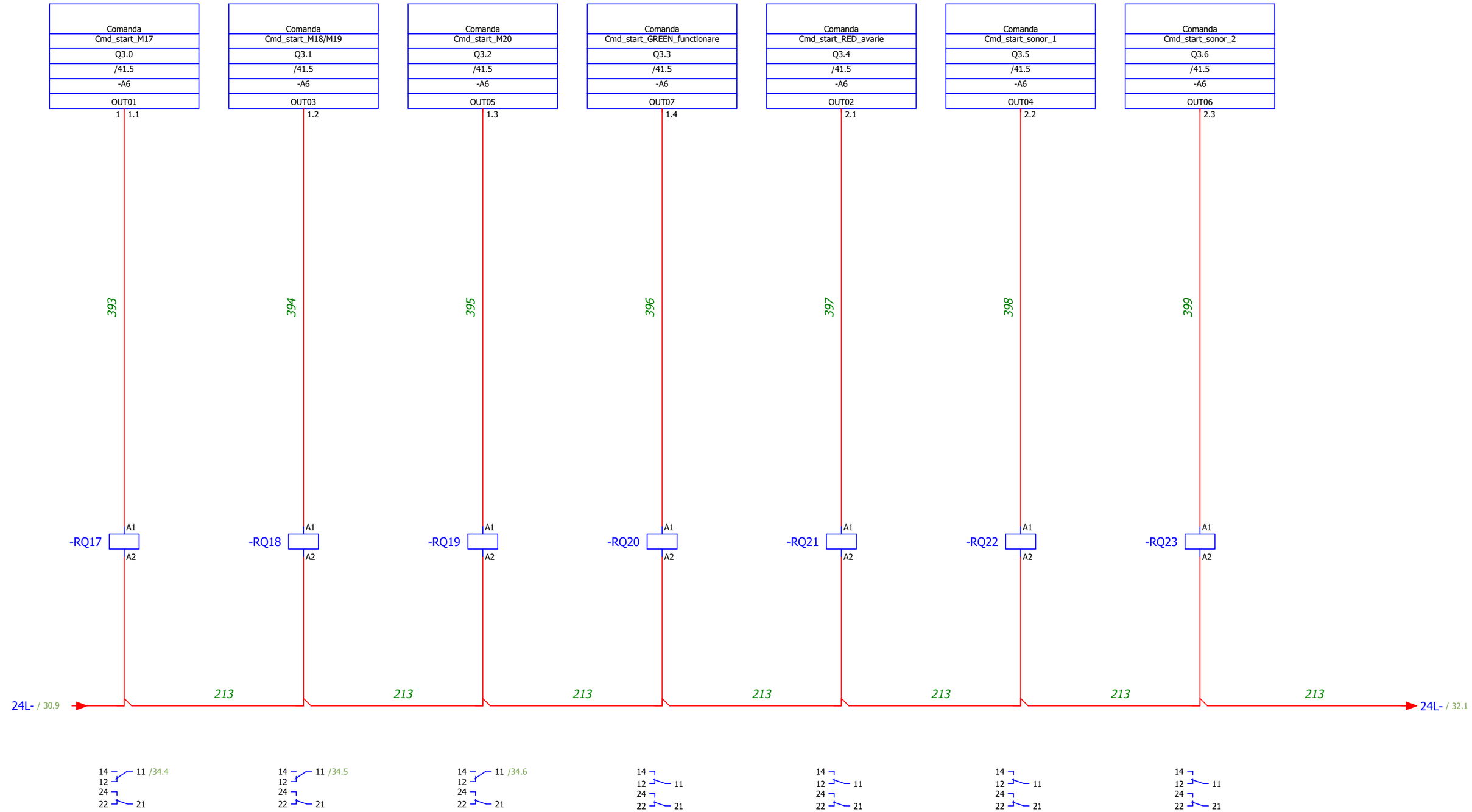
			Appr		Statie tratare mecanica			IEC_bas001	Page 30
Modification	Date	Name	Original		Replacement of	Replaced by			Page 31 / 70



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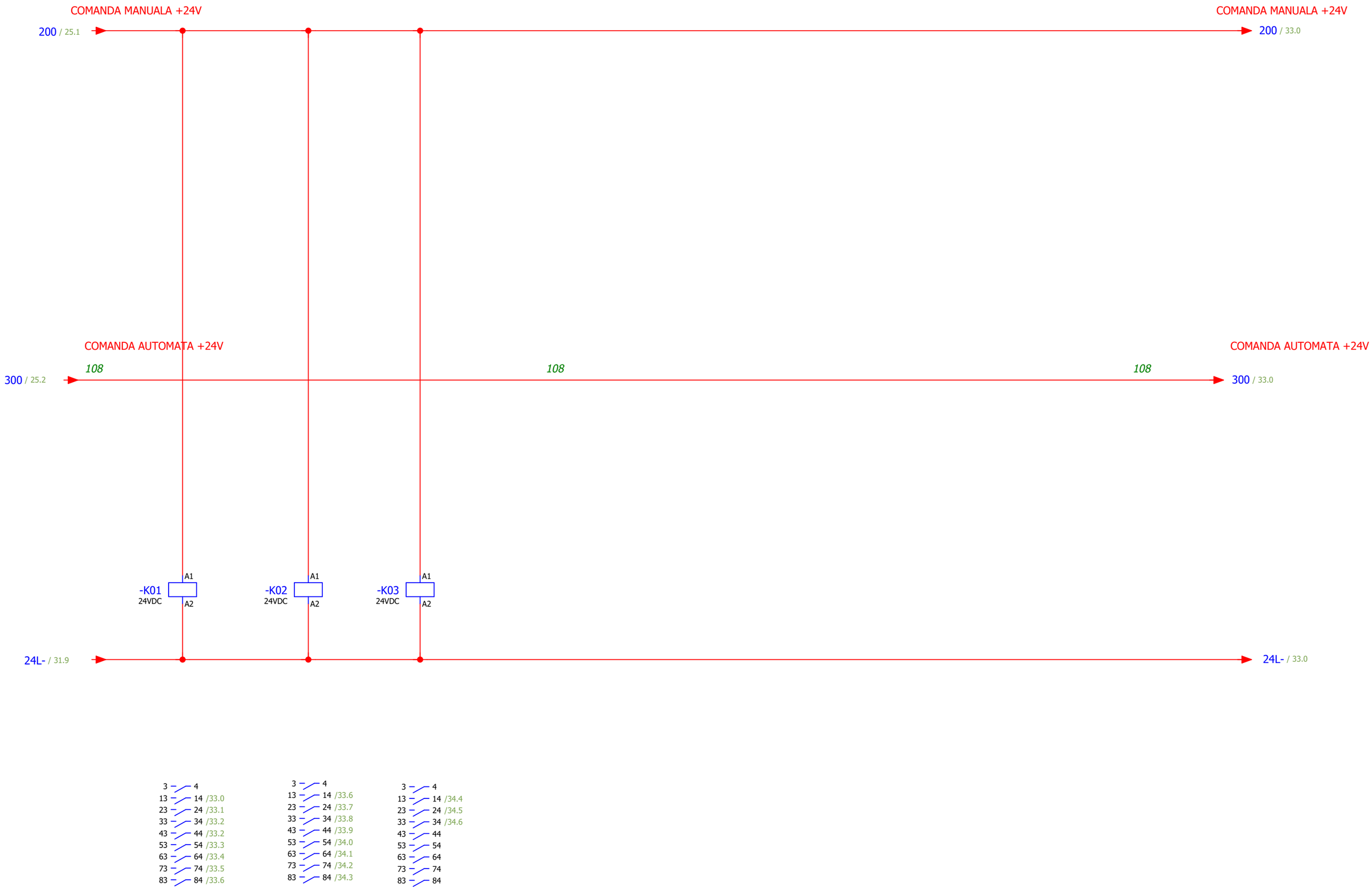
			Appr		Statie tratare mecanica			IEC_bas001	Page 31
Modification	Date	Name	Original		Replacement of	Replaced by			Page 32 / 70



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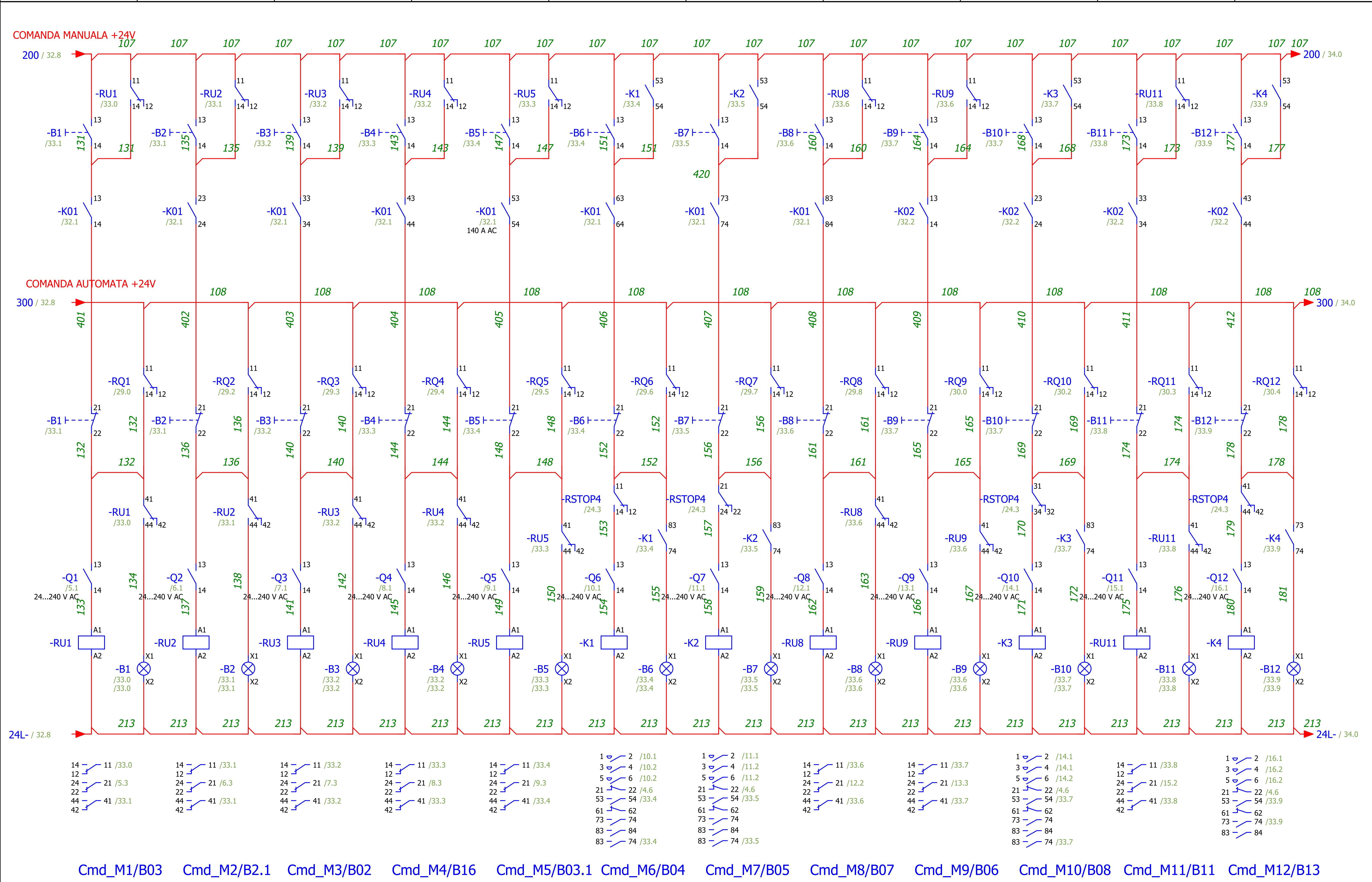
			Appr		Statie tratare mecanica			IEC_bas001	Page 32
Modification	Date	Name	Original		Replacement of	Replaced by			Page 33 / 70



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Modification	Date	Name	Original		Replacement of	Replaced by
			Date	19/06/2023	EPLAN	
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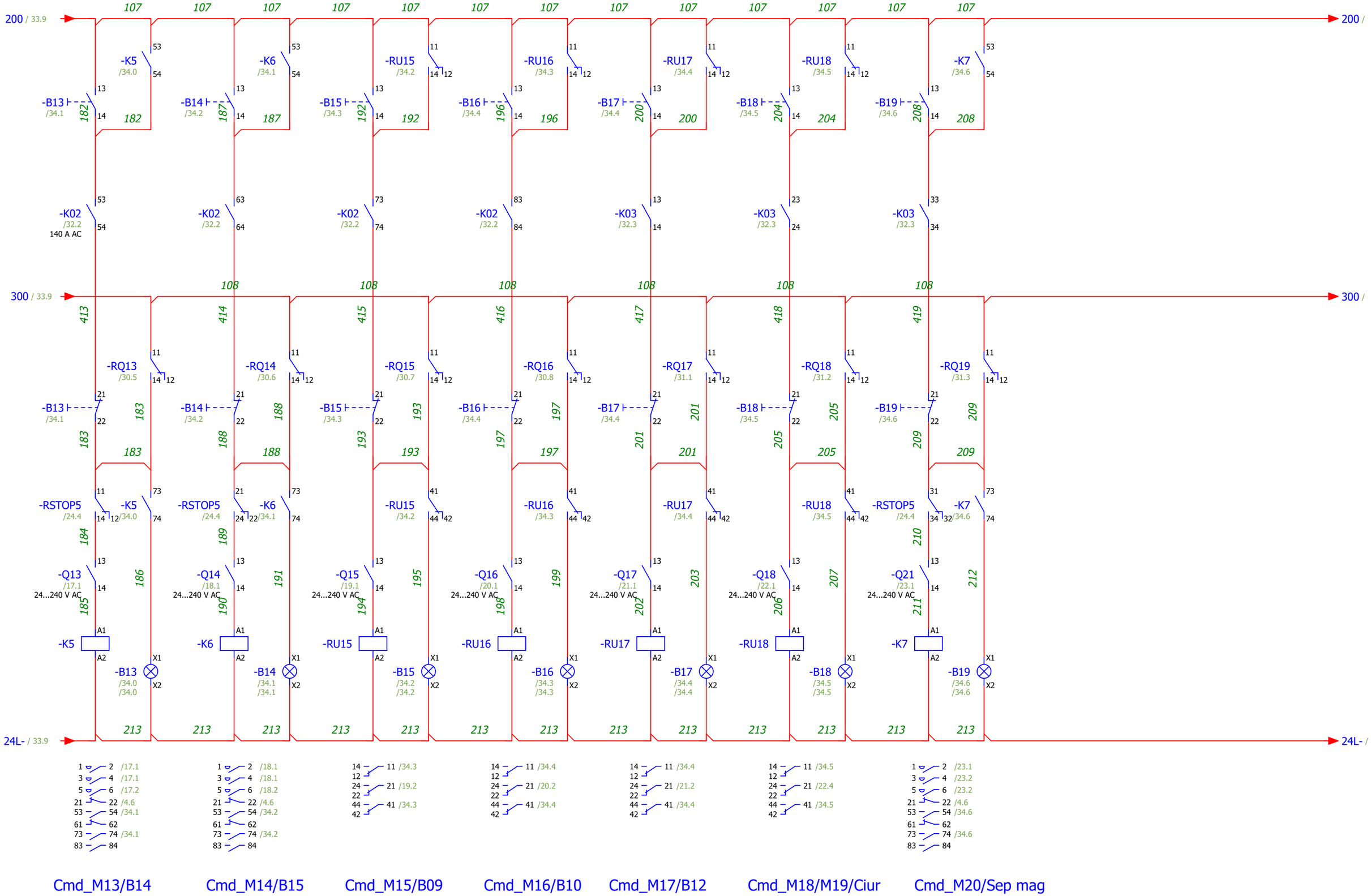
			Appr		Statie tratare mecanica	

SC Tehnimarket srl

Cmd_man

= CA1
+ EAA

IEC_bas001



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35

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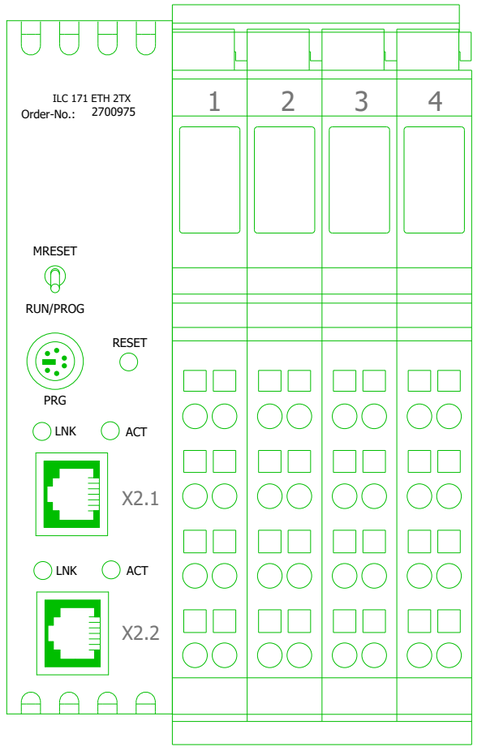
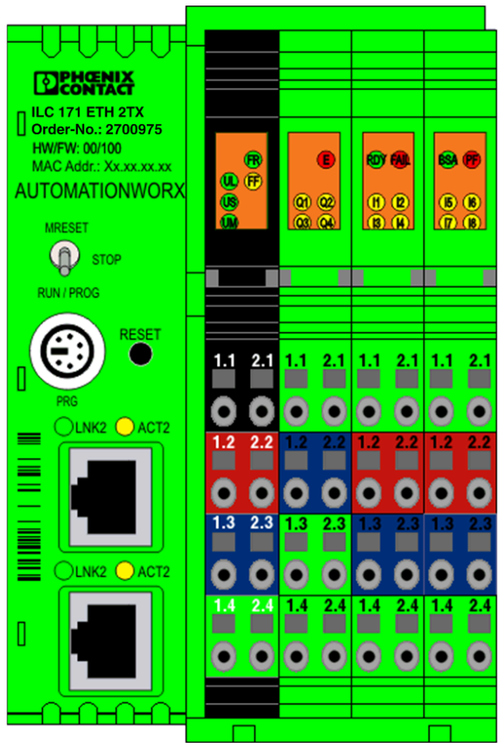
			Appr		Statie tratare mecanica			IEC_bas001	Page 34
Modification	Date	Name	Original		Replacement of	Replaced by			Page 35 / 70

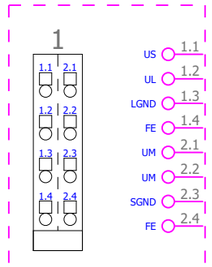
PHOENIX CONTACT

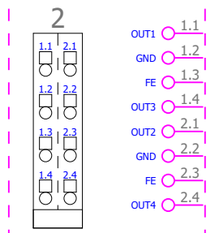
-A0

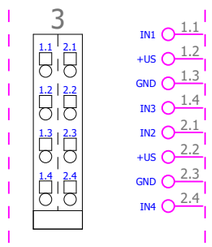


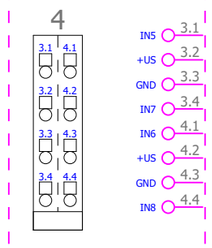


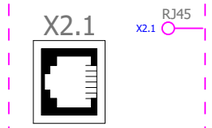
ILC 171 ETH 2TX

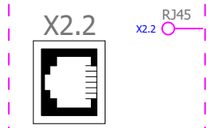












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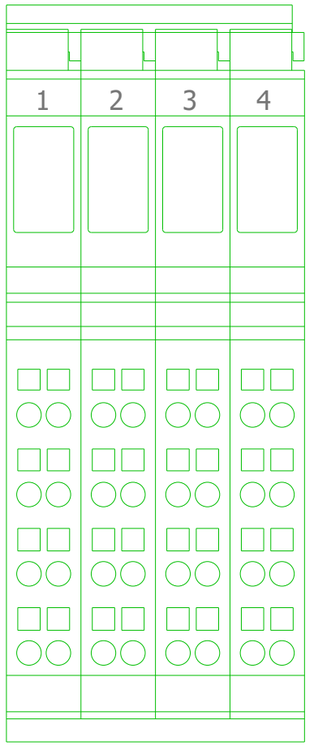
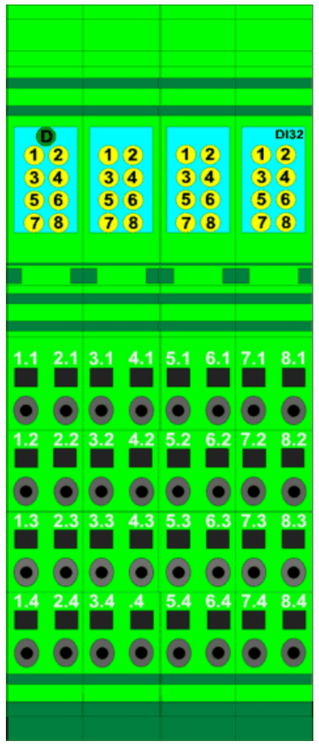
			Ed	Nelu					+ EAA
			Appr		Statie tratare mecanica			IEC_bas001	Page 35
Modification	Date	Name	Original		Replacement of	Replaced by			Page 36 / 70

PHOENIX CONTACT

-A1





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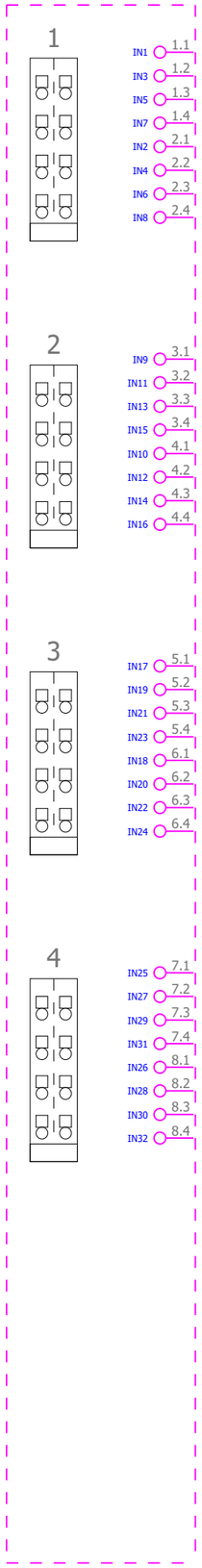

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I1.5	Selector Man	MANUAL	/25.1
I1.6	Selector Aut	AUTOMAT	/25.2
I1.7	Monitorizare_RM	Secvnta_faza	/25.3
I2.0	Fault	Defect_M1	/25.4
I2.1	Fault M2	Defect_M2	/25.5
I2.2	Fault M3	Defect_M3	/25.6
I2.3	Fault M4	Defect_M4	/25.7
I2.4	Fault M5	Defect_M5	/25.9
I2.5	Fault M6	Defect_M6	/26.0
I2.6	Fault M7	Defect_M7	/26.1
I2.7	Fault M8	Defect_M8	/26.3
I3.0	Fault M9	Defect_M9	/26.4
I3.1	Fault M10	Defect_M10	/26.5
I3.2	Fault M11	Defect_M11	/26.6
I3.3	Fault M12	Defect_M12	/26.7
I3.4	Fault M13	Defect_M13	/26.8
I3.5	Fault M14	Defect_M14	/27.0
I3.6	Fault M15	Defect_M15	/27.1
I3.7	Fault M16	Defect_M16	/27.3
I4.0	Fault M17	Defect_M17	/27.4
I4.1	Fault Q18/R18	Defect_U18	/27.5
I4.2	Fault	Defect_M18	/27.6
I4.3	Fault	Defect_M19	/27.7
I4.4	Fault M20	Defect_M20	/27.8
I4.5			
I4.6			
I4.7			
I5.0			
I5.1			
I5.2			
I5.3			

			Date	20/02/2023	EPLAN	SC Tehnimarket srl	DI32	= CA1	
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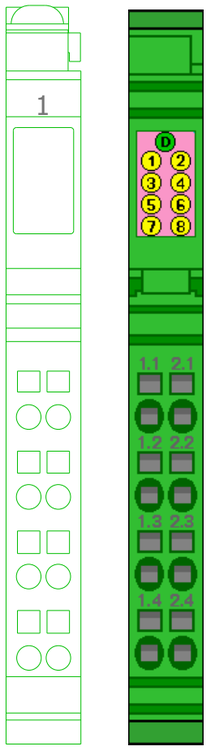
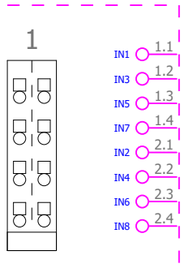
			Appr		Statie tratare mecanica			IEC_bas001	Page 36
Modification	Date	Name	Original		Replacement of	Replaced by			Page 37 / 70

PHOENIX CONTACT

-A2



IB IL 24 DI8/HD-PAC

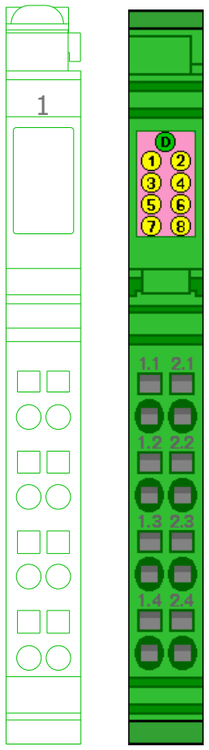


I5.4	Buton urgenta	BU0_pe T.E.	/28.0
I5.5	Buton urgenta	BU1_pe ciur rotativ	/28.2
I5.6	Buton urgenta	BU2_pe banda B02	/28.3
I5.7	Buton urgenta	BU3_pe banda B03	/28.4
I6.0	Buton urgenta	BU4_pe banda B07	/28.5
I6.1	Buton urgenta	BU5_pe banda B10	/28.6
I6.2	Buton urgenta	BU6_pe banda B14	/28.7
I6.3			

			Date	20/02/2023	EPLAN	SC Tehnimarket srl	DI8		= CA1
			Ed	Nelu					+ EAA
			Appr		Statie tratare mecanica			IEC_bas001	Page 37
Modification	Date	Name	Original		Replacement of	Replaced by			Page 38 / 70

PHOENIX CONTACT

-A3



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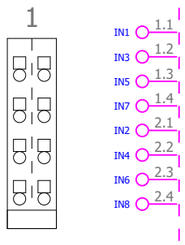
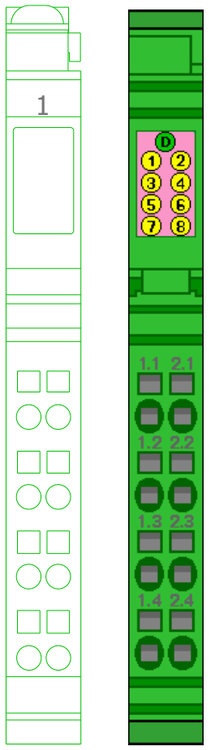


I6.4			
I6.5			
I6.6			
I6.7			
I7.0			
I7.1			
I7.2			
I7.3			

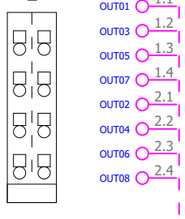
			Date	20/02/2023	EPLAN	SC Tehnimarket srl	DI8		= CA1	
			Ed	Nelu					+ EAA	
			Appr		Statie tratare mecanica					
Modification	Date	Name	Original		Replacement of	Replaced by		IEC_bas001	Page	38
									Page	39 / 70

PHOENIX CONTACT

-A4



IB IL 24 DO 8/HD-ECO

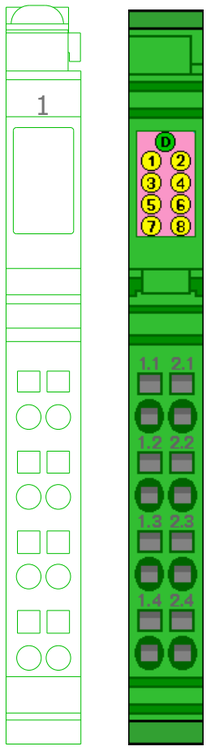


Q1.0	Comanda	Cmd_start_M1	/29.0
Q1.1	Comanda	Cmd_start_M2	/29.2
Q1.2	Comanda	Cmd_start_M3	/29.3
Q1.3	Comanda	Cmd_start_M4	/29.4
Q1.4	Comanda	Cmd_start_M5	/29.5
Q1.5	Comanda	Cmd_start_M6	/29.6
Q1.6	Comanda	Cmd_start_M7	/29.7
Q1.7	Comanda	Cmd_start_M8	/29.8

			Date	20/02/2023	EPLAN	SC Tehnimarket srl	DQ8		= CA1
			Ed	Nelu					+ EAA
			Appr		Statie tratare mecanica			IEC_bas001	Page 39
Modification	Date	Name	Original		Replacement of	Replaced by			Page 40 / 70

PHOENIX CONTACT

-A5



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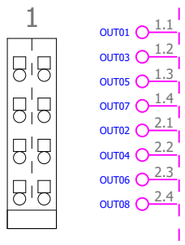

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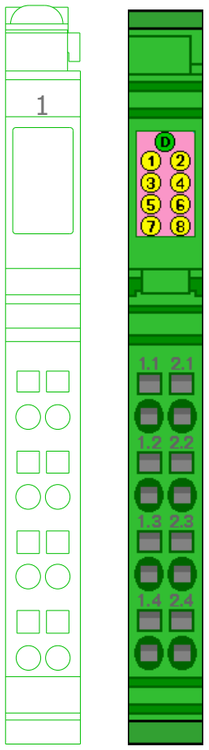
Q2.1	Comanda	Cmd_start_M10	/30.2
Q2.2	Comanda	Cmd_start_M11	/30.3
Q2.3	Comanda	Cmd_start_M12	/30.4
Q2.4	Comanda	Cmd_start_M13	/30.5
Q2.5	Comanda	Cmd_start_M14	/30.6
Q2.6	Comanda	Cmd_start_M15	/30.7
Q2.7	Comanda	Cmd_start_M16	/30.8

			Date	20/02/2023	EPLAN	SC Tehnimarket srl	DQ8		= CA1
			Ed	Nelu					+ EAA
			Appr		Statie tratare mecanica			IEC_bas001	Page 40
Modification	Date	Name	Original		Replacement of	Replaced by			Page 41 / 70

PHOENIX CONTACT

-A6



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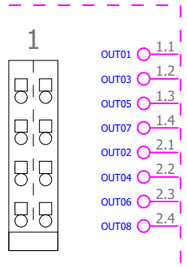

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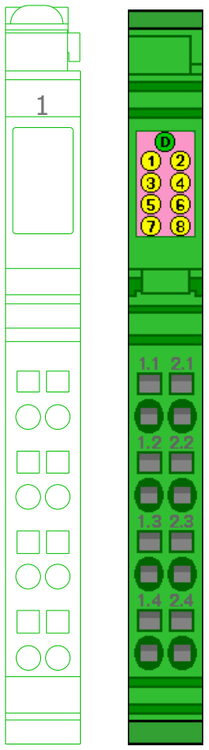
Q3.1	Comanda	Cmd_start_M18/M19	/31.2
Q3.2	Comanda	Cmd_start_M20	/31.3
Q3.3	Comanda	Cmd_start_GREEN_functionare	/31.4
Q3.4	Comanda	Cmd_start_RED_avarie	/31.5
Q3.5	Comanda	Cmd_start_sonor_1	/31.6
Q3.6	Comanda	Cmd_start_sonor_2	/31.8
Q3.7			

			Date	20/02/2023	EPLAN	SC Tehnimarket srl	DQ8		= CA1
			Ed	Nelu					+ EAA
			Appr		Statie tratare mecanica			IEC_bas001	Page 41
Modification	Date	Name	Original		Replacement of	Replaced by			Page 42 / 70

PHOENIX CONTACT

-A7



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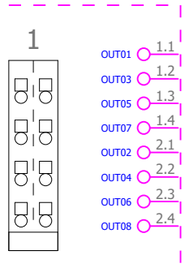

Q4.0			
Q4.1			
Q4.2			
Q4.3			
Q4.4			
Q4.5			
Q4.6			
Q4.7			

			Date	20/02/2023	EPLAN	SC Tehnimarket srl	DQ8		= CA1
			Ed	Nelu					+ EAA
			Appr		Statie tratare mecanica			IEC_bas001	Page 42
Modification	Date	Name	Original		Replacement of	Replaced by			Page 43 / 70

Parts list

F01_001

Device tag	Quantity	Designation	Type number	Supplier	Part number
	0				
-A0	1	Controller	ILC 171 ETH 2TX		PXC.2700975
-A1	1	Inline terminal	IB IL 24 DI 32/HD-PAC	PXC	PXC.2862835
-A2	1	Inline terminal	IB IL 24 DI8/HD-PAC	PXC	PXC.2700173
-A3	1	Inline terminal	IB IL 24 DI8/HD-PAC	PXC	PXC.2700173
-A4	1	Controller	ILC 171 ETH 2TX		PXC.2700975
-A4	1	Inline terminal	IB IL 24 DO 8/HD-ECO		PXC.2702793
-A5	1	Controller	ILC 171 ETH 2TX		PXC.2700975
-A5	1	Inline terminal	IB IL 24 DO 8/HD-ECO		PXC.2702793
-A6	1	Inline terminal	IB IL 24 DO 8/HD-ECO		PXC.2702793
-A7	1	Inline terminal	IB IL 24 DO 8/HD-ECO		PXC.2702793
-A?	0				
-B1	1	Double actuator pushbutton, +indicator light, green I/white/red 0	M22-DDL-GR-X1/X0	ETN	ETN.M22-DDL-GR-X1/X0
-B2	1	Double actuator pushbutton, +indicator light, green I/white/red 0	M22-DDL-GR-X1/X0	ETN	ETN.M22-DDL-GR-X1/X0
-B3	1	Double actuator pushbutton, 1N/O+1N/C, + LED 85-264VAC, screw connection	M22-DDL-GR-X1/X0/K11/230-W	ETN	ETN.M22-DDL-GR-X1/X0/K11/230-W
-B4	1	Double actuator pushbutton, 1N/O+1N/C, + LED 85-264VAC, screw connection	M22-DDL-GR-X1/X0/K11/230-W	ETN	ETN.M22-DDL-GR-X1/X0/K11/230-W
-B5	1	Double actuator pushbutton, 1N/O+1N/C, + LED 85-264VAC, screw connection	M22-DDL-GR-X1/X0/K11/230-W	ETN	ETN.M22-DDL-GR-X1/X0/K11/230-W
-B6	1	Double actuator pushbutton, 1N/O+1N/C, + LED 85-264VAC, screw connection	M22-DDL-GR-X1/X0/K11/230-W	ETN	ETN.M22-DDL-GR-X1/X0/K11/230-W
-B7	1	Double actuator pushbutton, 1N/O+1N/C, + LED 85-264VAC, screw connection	M22-DDL-GR-X1/X0/K11/230-W	ETN	ETN.M22-DDL-GR-X1/X0/K11/230-W
-B8	1	Double actuator pushbutton, 1N/O+1N/C, + LED 85-264VAC, screw connection	M22-DDL-GR-X1/X0/K11/230-W	ETN	ETN.M22-DDL-GR-X1/X0/K11/230-W
-B9	1	Double actuator pushbutton, 1N/O+1N/C, + LED 85-264VAC, screw connection	M22-DDL-GR-X1/X0/K11/230-W	ETN	ETN.M22-DDL-GR-X1/X0/K11/230-W
-B10	1	Double actuator pushbutton, 1N/O+1N/C, + LED 85-264VAC, screw connection	M22-DDL-GR-X1/X0/K11/230-W	ETN	ETN.M22-DDL-GR-X1/X0/K11/230-W
-B11	1	Double actuator pushbutton, 1N/O+1N/C, + LED 85-264VAC, screw connection	M22-DDL-GR-X1/X0/K11/230-W	ETN	ETN.M22-DDL-GR-X1/X0/K11/230-W
-B12	1	Double actuator pushbutton, 1N/O+1N/C, + LED 85-264VAC, screw connection	M22-DDL-GR-X1/X0/K11/230-W	ETN	ETN.M22-DDL-GR-X1/X0/K11/230-W
-B13	1	Double actuator pushbutton, 1N/O+1N/C, + LED 85-264VAC, screw connection	M22-DDL-GR-X1/X0/K11/230-W	ETN	ETN.M22-DDL-GR-X1/X0/K11/230-W
-B14	1	Double actuator pushbutton, 1N/O+1N/C, + LED 85-264VAC, screw connection	M22-DDL-GR-X1/X0/K11/230-W	ETN	ETN.M22-DDL-GR-X1/X0/K11/230-W
-B15	1	Double actuator pushbutton, 1N/O+1N/C, + LED 85-264VAC, screw connection	M22-DDL-GR-X1/X0/K11/230-W	ETN	ETN.M22-DDL-GR-X1/X0/K11/230-W
-B16	1	Double actuator pushbutton, 1N/O+1N/C, + LED 85-264VAC, screw connection	M22-DDL-GR-X1/X0/K11/230-W	ETN	ETN.M22-DDL-GR-X1/X0/K11/230-W
-B17	1	Double actuator pushbutton, 1N/O+1N/C, + LED 85-264VAC, screw connection	M22-DDL-GR-X1/X0/K11/230-W	ETN	ETN.M22-DDL-GR-X1/X0/K11/230-W
-B18	1	Double actuator pushbutton, 1N/O+1N/C, + LED 85-264VAC, screw connection	M22-DDL-GR-X1/X0/K11/230-W	ETN	ETN.M22-DDL-GR-X1/X0/K11/230-W
-B19	1	Double actuator pushbutton, 1N/O+1N/C, + LED 85-264VAC, screw connection	M22-DDL-GR-X1/X0/K11/230-W	ETN	ETN.M22-DDL-GR-X1/X0/K11/230-W
-BU0	1	Emergency-stop pushbutton, non-illuminated, turn-release	M22-PVT	ETN	ETN.M22-PVT
-BU0	2	Contact element, 1N/O, front mount, 6. contact, screw connection	M22-K10	ETN	ETN.M22-K10
-BU1	0				
-BU2	0				
-BU3	0				
-BU4	0				
-BU5	0				
-BU6	0				
-F1	1	Switch-disconnector Compact INS160 - 4 poles - 160 A	28913	SE	SE.28913
-F2	1	Over current switch, 2A, 2p, C-Char, AC	PXL-C2/2	ETN	ETN.PXL-C2/2
-F3.1	1	Over current switch, 6A, 1p, C-Char, DC current	PXL-C6-DC	ETN	ETN.PXL-C6-DC
-F3.2	1	Over current switch, 6A, 1p, C-Char, DC current	PXL-C6-DC	ETN	ETN.PXL-C6-DC
-F4	1	Over current switch, 6A, 1Np, C-Char, AC	FAZ-PN-C6/1N	ETN	ETN.FAZ-PN-C6/1N
-F5	1	Over current switch, 16A, 1Np, C-Char, AC	FAZ-PN-C16/1N	ETN	ETN.FAZ-PN-C16/1N
-F6	1	Over current switch, 16A, 1Np, C-Char, AC	FAZ-PN-C16/1N	ETN	ETN.FAZ-PN-C16/1N
-F7	1	Over current switch, 2A, 2p, C-Char, AC	PXL-C2/2	ETN	ETN.PXL-C2/2
-F8	1	Over current switch, 2A, 3p, C-Char, AC	PXL-C2/3	ETN	ETN.PXL-C2/3
-F9	1	Over current switch, 6A, 1p, C-Char, AC	PXL-C6/1	ETN	ETN.PXL-C6/1
-FAN_TE	0				
-G1	1	Power supply unit	TRIO-PS/1AC/24DC/10	PXC	PXC.2866323
-HL1	1	LED element, white, front mount, 85-264VAC	M22-LED230-W	ETN	ETN.M22-LED230-W
-HL1	1				ETN.M22-L-W
-HL2	1	LED element, white, front mount, 85-264VAC	M22-LED230-W	ETN	ETN.M22-LED230-W
-HL2	1				ETN.M22-L-W
-HL3	1	LED element, white, front mount, 85-264VAC	M22-LED230-W	ETN	ETN.M22-LED230-W

Parts list

F01_001

Device tag	Quantity	Designation	Type number	Supplier	Part number
-HL3	1				ETN.M22-L-W
-K1	1	Contactor, 3p+1N/C, 4kW/400V/AC3	DILM9-01(24VDC)	ETN	ETN.DILM9-01(24VDC)
-K1	1	Auxiliary contact module, 3N/O+1N/C, surface mounting, screw connection	DILA-XHI31	ETN	ETN.DILA-XHI31
-K01	1	Contactor TeSys CAD-50 - 5 NO + 0 NC - 10A - 24 VDC,screw-clamps terminals	CAD 5NO 24VDC	SE	SE.CAD50BD
-K01	1	Auxiliary contact block, TeSys Deca, 4NO, front mounting, screw clamp terminals	LADN40	SE	SE.LADN40
-K2	1	Contactor, 3p+1N/C, 4kW/400V/AC3	DILM9-01(24VDC)	ETN	ETN.DILM9-01(24VDC)
-K2	1	Auxiliary contact module, 3N/O+1N/C, surface mounting, screw connection	DILA-XHI31	ETN	ETN.DILA-XHI31
-K02	1	Contactor TeSys CAD-50 - 5 NO + 0 NC - 10A - 24 VDC,screw-clamps terminals	CAD 5NO 24VDC	SE	SE.CAD50BD
-K02	1	Auxiliary contact block, TeSys Deca, 4NO, front mounting, screw clamp terminals	LADN40	SE	SE.LADN40
-K3	1	Contactor, 3p+1N/C, 4kW/400V/AC3	DILM9-01(24VDC)	ETN	ETN.DILM9-01(24VDC)
-K3	1	Auxiliary contact module, 3N/O+1N/C, surface mounting, screw connection	DILA-XHI31	ETN	ETN.DILA-XHI31
-K03	1	Contactor TeSys CAD-50 - 5 NO + 0 NC - 10A - 24 VDC,screw-clamps terminals	CAD 5NO 24VDC	SE	SE.CAD50BD
-K03	1	Auxiliary contact block, TeSys Deca, 4NO, front mounting, screw clamp terminals	LADN40	SE	SE.LADN40
-K4	1	Contactor, 3p+1N/C, 4kW/400V/AC3	DILM9-01(24VDC)	ETN	ETN.DILM9-01(24VDC)
-K4	1	Auxiliary contact module, 3N/O+1N/C, surface mounting, screw connection	DILA-XHI31	ETN	ETN.DILA-XHI31
-K5	1	Contactor, 3p+1N/C, 4kW/400V/AC3	DILM9-01(24VDC)	ETN	ETN.DILM9-01(24VDC)
-K5	1	Auxiliary contact module, 3N/O+1N/C, surface mounting, screw connection	DILA-XHI31	ETN	ETN.DILA-XHI31
-K6	1	Contactor, 3p+1N/C, 4kW/400V/AC3	DILM9-01(24VDC)	ETN	ETN.DILM9-01(24VDC)
-K6	1	Auxiliary contact module, 3N/O+1N/C, surface mounting, screw connection	DILA-XHI31	ETN	ETN.DILA-XHI31
-K14	1	Contactor, 3p+1N/C, 4kW/400V/AC3	DILM9-01(24VDC)	ETN	ETN.DILM9-01(24VDC)
-K14	1	Auxiliary contact module, 3N/O+1N/C, surface mounting, screw connection	DILA-XHI31	ETN	ETN.DILA-XHI31
-LP_Tablou1	1				STE.02540.0-03
-LS	1				ETN.LS-11
-M1/B03	0				
-M2/B2.1	0				
-M3/B02	0				
-M4/B16	0				
-M5/B03.1	0				
-M6/B04	0				
-M7/B05	0				
-M8/B07	0				
-M9/B06	0				
-M10/B08	0				
-M11/B11	0				
-M12/B13	0				
-M13/B14	0				
-M14/B15	0				
-M15/B09	0				
-M16/10	0				
-M17/B12	0				
-M18	0				
-M19	0				
-M20	0				
-PRIZA_SERVICE1	0				
-PRIZA_SERVICE2	0				
-Q1	1	Motor circuit breaker, TeSys Deca, 3P, 4-6.3 A, thermal magnetic, screw clamp terminals	GV2ME10	SE	SE.GV2ME10
-Q1	1	TeSys GVAE11 - auxiliary contact - 1 NO + 1 NC	GVAE11	SE	SE.GVAE11
-Q1	1	TeSys GVAN11 - auxiliary contact block - 1 NO + 1 NC	GVAN11	SE	SE.GVAN11
-Q2	1	Motor circuit breaker, TeSys Deca, 3P, 6-10 A, thermal magnetic, screw clamp terminals	GV2ME14	SE	SE.GV2ME14
-Q2	1	TeSys GVAE11 - auxiliary contact - 1 NO + 1 NC	GVAE11	SE	SE.GVAE11
-Q2	1	TeSys GVAN11 - auxiliary contact block - 1 NO + 1 NC	GVAN11	SE	SE.GVAN11
-Q3	1	Motor circuit breaker, TeSys Deca, 3P, 9-14 A, thermal magnetic, screw clamp terminals	GV2ME16	SE	SE.GV2ME16
-Q3	1	TeSys GVAE11 - auxiliary contact - 1 NO + 1 NC	GVAE11	SE	SE.GVAE11
-Q3	1	TeSys GVAN11 - auxiliary contact block - 1 NO + 1 NC	GVAN11	SE	SE.GVAN11
-Q4	1	Motor circuit breaker, TeSys Deca, 3P, 9-14 A, thermal magnetic, screw clamp terminals	GV2ME16	SE	SE.GV2ME16
-Q4	1	TeSys GVAE11 - auxiliary contact - 1 NO + 1 NC	GVAE11	SE	SE.GVAE11

Parts list

F01_001

Device tag	Quantity	Designation	Type number	Supplier	Part number
-Q4	1	TeSys GVAN11 - auxiliary contact block - 1 NO + 1 NC	GVAN11	SE	SE.GVAN11
-Q5	1	Motor circuit breaker, TeSys Deca, 3P, 6-10 A, thermal magnetic, screw clamp terminals	GV2ME14	SE	SE.GV2ME14
-Q5	1	TeSys GVAE11 - auxiliary contact - 1 NO + 1 NC	GVAE11	SE	SE.GVAE11
-Q5	1	TeSys GVAN11 - auxiliary contact block - 1 NO + 1 NC	GVAN11	SE	SE.GVAN11
-Q6	1	Motor circuit breaker, TeSys Deca, 3P, 6-10 A, thermal magnetic, screw clamp terminals	GV2ME14	SE	SE.GV2ME14
-Q6	1	TeSys GVAE11 - auxiliary contact - 1 NO + 1 NC	GVAE11	SE	SE.GVAE11
-Q6	1	TeSys GVAN11 - auxiliary contact block - 1 NO + 1 NC	GVAN11	SE	SE.GVAN11
-Q7	1	Motor circuit breaker, TeSys Deca, 3P, 6-10 A, thermal magnetic, screw clamp terminals	GV2ME14	SE	SE.GV2ME14
-Q7	1	TeSys GVAE11 - auxiliary contact - 1 NO + 1 NC	GVAE11	SE	SE.GVAE11
-Q7	1	TeSys GVAN11 - auxiliary contact block - 1 NO + 1 NC	GVAN11	SE	SE.GVAN11
-Q8	1	Motor circuit breaker, TeSys Deca, 3P, 9-14 A, thermal magnetic, screw clamp terminals	GV2ME16	SE	SE.GV2ME16
-Q8	1	TeSys GVAE11 - auxiliary contact - 1 NO + 1 NC	GVAE11	SE	SE.GVAE11
-Q8	1	TeSys GVAN11 - auxiliary contact block - 1 NO + 1 NC	GVAN11	SE	SE.GVAN11
-Q9	1	Motor circuit breaker, TeSys Deca, 3P, 6-10 A, thermal magnetic, screw clamp terminals	GV2ME14	SE	SE.GV2ME14
-Q9	1	TeSys GVAE11 - auxiliary contact - 1 NO + 1 NC	GVAE11	SE	SE.GVAE11
-Q9	1	TeSys GVAN11 - auxiliary contact block - 1 NO + 1 NC	GVAN11	SE	SE.GVAN11
-Q10	1	Motor circuit breaker, TeSys Deca, 3P, 6-10 A, thermal magnetic, screw clamp terminals	GV2ME14	SE	SE.GV2ME14
-Q10	1	TeSys GVAE11 - auxiliary contact - 1 NO + 1 NC	GVAE11	SE	SE.GVAE11
-Q10	1	TeSys GVAN11 - auxiliary contact block - 1 NO + 1 NC	GVAN11	SE	SE.GVAN11
-Q11	1	Motor circuit breaker, TeSys Deca, 3P, 13-18 A, thermal magnetic, screw clamp terminals	GV2ME20	SE	SE.GV2ME20
-Q11	1	TeSys GVAE11 - auxiliary contact - 1 NO + 1 NC	GVAE11	SE	SE.GVAE11
-Q11	1	TeSys GVAN11 - auxiliary contact block - 1 NO + 1 NC	GVAN11	SE	SE.GVAN11
-Q12	1	Motor circuit breaker, TeSys Deca, 3P, 6-10 A, thermal magnetic, screw clamp terminals	GV2ME14	SE	SE.GV2ME14
-Q12	1	TeSys GVAE11 - auxiliary contact - 1 NO + 1 NC	GVAE11	SE	SE.GVAE11
-Q12	1	TeSys GVAN11 - auxiliary contact block - 1 NO + 1 NC	GVAN11	SE	SE.GVAN11
-Q13	1	Motor circuit breaker, TeSys Deca, 3P, 6-10 A, thermal magnetic, screw clamp terminals	GV2ME14	SE	SE.GV2ME14
-Q13	1	TeSys GVAE11 - auxiliary contact - 1 NO + 1 NC	GVAE11	SE	SE.GVAE11
-Q13	1	TeSys GVAN11 - auxiliary contact block - 1 NO + 1 NC	GVAN11	SE	SE.GVAN11
-Q14	1	Motor circuit breaker, TeSys Deca, 3P, 6-10 A, thermal magnetic, screw clamp terminals	GV2ME14	SE	SE.GV2ME14
-Q14	1	TeSys GVAE11 - auxiliary contact - 1 NO + 1 NC	GVAE11	SE	SE.GVAE11
-Q14	1	TeSys GVAN11 - auxiliary contact block - 1 NO + 1 NC	GVAN11	SE	SE.GVAN11
-Q15	1	Motor circuit breaker, TeSys Deca, 3P, 6-10 A, thermal magnetic, screw clamp terminals	GV2ME14	SE	SE.GV2ME14
-Q15	1	TeSys GVAE11 - auxiliary contact - 1 NO + 1 NC	GVAE11	SE	SE.GVAE11
-Q15	1	TeSys GVAN11 - auxiliary contact block - 1 NO + 1 NC	GVAN11	SE	SE.GVAN11
-Q16	1	Motor circuit breaker, TeSys Deca, 3P, 6-10 A, thermal magnetic, screw clamp terminals	GV2ME14	SE	SE.GV2ME14
-Q16	1	TeSys GVAE11 - auxiliary contact - 1 NO + 1 NC	GVAE11	SE	SE.GVAE11
-Q16	1	TeSys GVAN11 - auxiliary contact block - 1 NO + 1 NC	GVAN11	SE	SE.GVAN11
-Q17	1	Motor circuit breaker, TeSys Deca, 3P, 6-10 A, thermal magnetic, screw clamp terminals	GV2ME14	SE	SE.GV2ME14
-Q17	1	TeSys GVAE11 - auxiliary contact - 1 NO + 1 NC	GVAE11	SE	SE.GVAE11
-Q17	1	TeSys GVAN11 - auxiliary contact block - 1 NO + 1 NC	GVAN11	SE	SE.GVAN11
-Q18	1	Motor circuit breaker, TeSys Deca, 3P, 20-25 A, thermal magnetic, screw clamp terminals	GV2ME22	SE	SE.GV2ME22
-Q18	1	TeSys GVAE11 - auxiliary contact - 1 NO + 1 NC	GVAE11	SE	SE.GVAE11
-Q18	1	TeSys GVAN11 - auxiliary contact block - 1 NO + 1 NC	GVAN11	SE	SE.GVAN11
-Q19	1	Motor circuit breaker, TeSys Deca, 3P, 6-10 A, thermal magnetic, screw clamp terminals	GV2ME14	SE	SE.GV2ME14
-Q19	1	TeSys GVAE11 - auxiliary contact - 1 NO + 1 NC	GVAE11	SE	SE.GVAE11
-Q19	1	TeSys GVAN11 - auxiliary contact block - 1 NO + 1 NC	GVAN11	SE	SE.GVAN11
-Q20	1	Motor circuit breaker, TeSys Deca, 3P, 6-10 A, thermal magnetic, screw clamp terminals	GV2ME14	SE	SE.GV2ME14
-Q20	1	TeSys GVAE11 - auxiliary contact - 1 NO + 1 NC	GVAE11	SE	SE.GVAE11
-Q20	1	TeSys GVAN11 - auxiliary contact block - 1 NO + 1 NC	GVAN11	SE	SE.GVAN11
-Q21	1	Motor circuit breaker, TeSys Deca, 3P, 4-6.3 A, thermal magnetic, screw clamp terminals	GV2ME10	SE	SE.GV2ME10
-Q21	1	TeSys GVAE11 - auxiliary contact - 1 NO + 1 NC	GVAE11	SE	SE.GVAE11
-Q21	1	TeSys GVAN11 - auxiliary contact block - 1 NO + 1 NC	GVAN11	SE	SE.GVAN11
-R1	1	Relay Module	RIF-2-RPT-LDP-24DC/4X21	PXC	PXC.2903308
-R2	1	Relay Module	RIF-2-RPT-LDP-24DC/4X21	PXC	PXC.2903308
-R3	1	Relay Module	RIF-2-RPT-LDP-24DC/4X21	PXC	PXC.2903308
-R4	1	Relay Module	RIF-2-RPT-LDP-24DC/4X21	PXC	PXC.2903308

Parts list

F01_001

Device tag	Quantity	Designation	Type number	Supplier	Part number
-R5	1	Relay Module	RIF-2-RPT-LDP-24DC/4X21	PXC	PXC.2903308
-R8	1	Relay Module	RIF-2-RPT-LDP-24DC/4X21	PXC	PXC.2903308
-R9	1	Relay Module	RIF-2-RPT-LDP-24DC/4X21	PXC	PXC.2903308
-R11	1	Relay Module	RIF-2-RPT-LDP-24DC/4X21	PXC	PXC.2903308
-R15	1	Relay Module	RIF-2-RPT-LDP-24DC/4X21	PXC	PXC.2903308
-R16	1	Relay Module	RIF-2-RPT-LDP-24DC/4X21	PXC	PXC.2903308
-R17	1	Relay Module	RIF-2-RPT-LDP-24DC/4X21	PXC	PXC.2903308
-R18	1	Relay Module	RIF-2-RPT-LDP-24DC/4X21	PXC	PXC.2903308
-RM	1	Monitoring relay, 3 phase + neutral AC line monitoring - AC (50/60 Hz) - 380...415 V	70.41.8.400.2030	FIN	FIN.70.41.8.400.2030
-RQ1	1	Relay	40.52.9.024.0000	FIN	FIN.40.52.9.024.0000
-RQ1	1	Screw terminal socket panel, for 40.51/40.52/40.61	95.05	FIN	FIN.95.05
-RQ2	1	Relay	40.52.9.024.0000	FIN	FIN.40.52.9.024.0000
-RQ2	1	Screw terminal socket panel, for 40.51/40.52/40.61	95.05	FIN	FIN.95.05
-RQ3	1	Relay	40.52.9.024.0000	FIN	FIN.40.52.9.024.0000
-RQ3	1	Screw terminal socket panel, for 40.51/40.52/40.61	95.05	FIN	FIN.95.05
-RQ4	1	Relay	40.52.9.024.0000	FIN	FIN.40.52.9.024.0000
-RQ4	1	Screw terminal socket panel, for 40.51/40.52/40.61	95.05	FIN	FIN.95.05
-RQ5	1	Relay	40.52.9.024.0000	FIN	FIN.40.52.9.024.0000
-RQ5	1	Screw terminal socket panel, for 40.51/40.52/40.61	95.05	FIN	FIN.95.05
-RQ6	1	Relay	40.52.9.024.0000	FIN	FIN.40.52.9.024.0000
-RQ6	1	Screw terminal socket panel, for 40.51/40.52/40.61	95.05	FIN	FIN.95.05
-RQ7	1	Relay	40.52.9.024.0000	FIN	FIN.40.52.9.024.0000
-RQ7	1	Screw terminal socket panel, for 40.51/40.52/40.61	95.05	FIN	FIN.95.05
-RQ8	1	Relay	40.52.9.024.0000	FIN	FIN.40.52.9.024.0000
-RQ8	1	Screw terminal socket panel, for 40.51/40.52/40.61	95.05	FIN	FIN.95.05
-RQ9	1	Relay	40.52.9.024.0000	FIN	FIN.40.52.9.024.0000
-RQ9	1	Screw terminal socket panel, for 40.51/40.52/40.61	95.05	FIN	FIN.95.05
-RQ10	1	Relay	40.52.9.024.0000	FIN	FIN.40.52.9.024.0000
-RQ10	1	Screw terminal socket panel, for 40.51/40.52/40.61	95.05	FIN	FIN.95.05
-RQ11	1	Relay	40.52.9.024.0000	FIN	FIN.40.52.9.024.0000
-RQ11	1	Screw terminal socket panel, for 40.51/40.52/40.61	95.05	FIN	FIN.95.05
-RQ12	1	Relay	40.52.9.024.0000	FIN	FIN.40.52.9.024.0000
-RQ12	1	Screw terminal socket panel, for 40.51/40.52/40.61	95.05	FIN	FIN.95.05
-RQ13	1	Relay	40.52.9.024.0000	FIN	FIN.40.52.9.024.0000
-RQ14	1	Relay	40.52.9.024.0000	FIN	FIN.40.52.9.024.0000
-RQ14	1	Screw terminal socket panel, for 40.51/40.52/40.61	95.05	FIN	FIN.95.05
-RQ15	1	Relay	40.52.9.024.0000	FIN	FIN.40.52.9.024.0000
-RQ15	1	Screw terminal socket panel, for 40.51/40.52/40.61	95.05	FIN	FIN.95.05
-RQ16	1	Relay	40.52.9.024.0000	FIN	FIN.40.52.9.024.0000
-RQ16	1	Screw terminal socket panel, for 40.51/40.52/40.61	95.05	FIN	FIN.95.05
-RQ17	1	Relay	40.52.9.024.0000	FIN	FIN.40.52.9.024.0000
-RQ17	1	Screw terminal socket panel, for 40.51/40.52/40.61	95.05	FIN	FIN.95.05
-RQ18	1	Relay	40.52.9.024.0000	FIN	FIN.40.52.9.024.0000
-RQ18	1	Screw terminal socket panel, for 40.51/40.52/40.61	95.05	FIN	FIN.95.05
-RQ19	1	Relay	40.52.9.024.0000	FIN	FIN.40.52.9.024.0000
-RQ19	1	Screw terminal socket panel, for 40.51/40.52/40.61	95.05	FIN	FIN.95.05
-RQ20	1	Relay	40.52.9.024.0000	FIN	FIN.40.52.9.024.0000
-RQ20	1	Screw terminal socket panel, for 40.51/40.52/40.61	95.05	FIN	FIN.95.05
-RQ21	1	Relay	40.52.9.024.0000	FIN	FIN.40.52.9.024.0000
-RQ21	1	Screw terminal socket panel, for 40.51/40.52/40.61	95.05	FIN	FIN.95.05
-RQ22	1	Relay	40.52.9.024.0000	FIN	FIN.40.52.9.024.0000
-RQ22	1	Screw terminal socket panel, for 40.51/40.52/40.61	95.05	FIN	FIN.95.05
-RQ23	1	Relay	40.52.9.024.0000	FIN	FIN.40.52.9.024.0000
-RQ23	1	Screw terminal socket panel, for 40.51/40.52/40.61	95.05	FIN	FIN.95.05
-RSTOP1	1	Relay Module	RIF-2-RPT-LDP-24DC/4X21	PXC	PXC.2903308
-RSTOP2	1	Relay Module	RIF-2-RPT-LDP-24DC/4X21	PXC	PXC.2903308

Parts list

F01_001

Device tag	Quantity	Designation	Type number	Supplier	Part number
-RSTOP3	1	Relay Module	RIF-2-RPT-LDP-24DC/4X21	PXC	PXC.2903308
-RSTOP4	1	Relay Module	RIF-2-RPT-LDP-24DC/4X21	PXC	PXC.2903308
-RSTOP5	1	Relay Module	RIF-2-RPT-LDP-24DC/4X21	PXC	PXC.2903308
-RU1	1	Relay Module	RIF-2-RPT-LDP-24DC/4X21	PXC	PXC.2903308
-RU2	1	Relay Module	RIF-2-RPT-LDP-24DC/4X21	PXC	PXC.2903308
-RU3	1	Relay Module	RIF-2-RPT-LDP-24DC/4X21	PXC	PXC.2903308
-RU4	1	Relay Module	RIF-2-RPT-LDP-24DC/4X21	PXC	PXC.2903308
-RU5	1	Relay Module	RIF-2-RPT-LDP-24DC/4X21	PXC	PXC.2903308
-RU8	1	Relay Module	RIF-2-RPT-LDP-24DC/4X21	PXC	PXC.2903308
-RU9	1	Relay Module	RIF-2-RPT-LDP-24DC/4X21	PXC	PXC.2903308
-RU11	1	Relay Module	RIF-2-RPT-LDP-24DC/4X21	PXC	PXC.2903308
-RU15	1	Relay Module	RIF-2-RPT-LDP-24DC/4X21	PXC	PXC.2903308
-RU16	1	Relay Module	RIF-2-RPT-LDP-24DC/4X21	PXC	PXC.2903308
-RU17	1	Relay Module	RIF-2-RPT-LDP-24DC/4X21	PXC	PXC.2903308
-RU18	1	Relay Module	RIF-2-RPT-LDP-24DC/4X21	PXC	PXC.2903308
-S1	1	Monolithic selector switch - Ø 22 - black - standard handle - 3 positions - 2 NO		SE	SE.XB7ND33
-SH-SR1	1	Illuminated pushbutton actuator, flush, red, momentary	M22-DL-R	ETN	ETN.M22-DL-R
-SH-SR1	1	LED element, red, front mount, 12-30VAC/DC	M22-LED-R	ETN	ETN.M22-LED-R
-TD	0				
-Th_tablou1	1				FND.TRT-10A230V-NC
-U1	0				
-U2	0				
-U3	0				
-U4	0				
-U5	0				
-U8	1				DAN.FC-302P4K0T5E20H1BGXXXXSXXXXALB8CXXXXD0
-U9	0				
-U11	1				DAN.FC-302P4K0T5E20H1BGXXXXSXXXXALB8CXXXXD0
-U15	1				DAN.FC-302P4K0T5E20H1BGXXXXSXXXXALB8CXXXXD0
-U16	1				DAN.FC-302P4K0T5E20H1BGXXXXSXXXXALB8CXXXXD0
-U17	1				DAN.FC-302P4K0T5E20H1BGXXXXSXXXXALB8CXXXXD0
-U18	0				

Cable overview

F10_001

Cable name	Source (from)	Target (to)	Cable type	all conductors	Conductors used	Cross-section [mm]	Length [m]	Function text	Graphical page of cable diagram
-W1	-TD	-X1	GB/T12706-2012		5	4*95+50			
-W2	-X2	-M1/B03	2YSL(ST)CYK-J 0,6/1KV EMV-UV	4G	4	4			
-W3	-X2	-M2/B2.1	2YSL(ST)CYK-J 0,6/1KV EMV-UV	4G	4	2,5			
-W4	-X2	-M3/B02	2YSL(ST)CYK-J 0,6/1KV EMV-UV	4G	4	2,5			
-W5	-X2	-M4/B16	2YSL(ST)CYK-J 0,6/1KV EMV-UV	4G	4	4			
-W6	-X2	-M5/B03.1	2YSL(ST)CYK-J 0,6/1KV EMV-UV	4G	4	2,5			
-W7	-X2	-M6/B04	2YSL(ST)CYK-J 0,6/1KV EMV-UV	4G	4	2,5			
-W8	-X2	-M7/B05	2YSL(ST)CYK-J 0,6/1KV EMV-UV	4G	4	2,5			
-W9	-X2	-M8/B07	2YSL(ST)CYK-J 0,6/1KV EMV-UV	4G	4	2,5			
-W10	-X2	-M9/B06	2YSL(ST)CYK-J 0,6/1KV EMV-UV	4G	4	2,5			
-W11	-X2	-M10/B08	2YSL(ST)CYK-J 0,6/1KV EMV-UV	4G	4	2,5			
-W12	-X2	-M11/B11	2YSL(ST)CYK-J 0,6/1KV EMV-UV	4G	4	4			
-W13	-X2	-M12/B13	2YSL(ST)CYK-J 0,6/1KV EMV-UV	4G	4	2,5			
-W14	-X2	-M13/B14	2YSL(ST)CYK-J 0,6/1KV EMV-UV	4G	4	2,5			
-W15	-X2	-M14/B15	2YSL(ST)CYK-J 0,6/1KV EMV-UV	4G	4	2,5			
-W16	-X2	-M15/B09	2YSL(ST)CYK-J 0,6/1KV EMV-UV	4G	4	2,5			
-W17	-X2	-M16/10	2YSL(ST)CYK-J 0,6/1KV EMV-UV	4G	4	2,5			
-W18	-X2	-M17/B12	2YSL(ST)CYK-J 0,6/1KV EMV-UV	4G	4	2,5			
-W19	-X2	-M18	2YSL(ST)CYK-J 0,6/1KV EMV-UV	4G	4	2,5			
-W20	-X2	-M19	2YSL(ST)CYK-J 0,6/1KV EMV-UV	4G	4	2,5			
-W21	-X2	-M20	2YSL(ST)CYK-J 0,6/1KV EMV-UV	4G	4	2,5			

Cable diagram

F09_001

Cable name	Cable type		No. of conductors		Cross-section	Cable length		Function text
=CA1+EAA-W1	GB/T12706-2012				4*95+50			
Function text	X-Ref	Target designation from	Connection point	Conductor	Target designation to	Connection point	X-Ref	Function text
	/2.1	-TD	N	Y	-X1	N	/2.1	
	/2.0	-TD	L1	GN	-X1	L1	/2.0	
	/2.0	-TD	L2	RD	-X1	L2	/2.0	
	/2.1	-TD	L3	BL	-X1	L3	/2.1	
				BK				
	/2.1	-TD	PE		-X1	Pe	/2.1	

			Date	20/02/2023	EPLAN	SC Tehnimarket srl	Cable diagram =CA1+EAA-W1	= CA1
			Ed	Nelu				+ EAA
			Appr		Statie tratare mecanica			IEC_bas001 Page 45
Modification	Date	Name	Original		Replacement of / Replaced by			Page 50 / 70

Cable diagram

F09_001

Cable name	Cable type		No. of conductors		Cross-section	Cable length		Function text
=CA1+EAA-W2	2YSL(ST)CYK-J 0,6/1KV EMV-UV		4G		4			
Function text	X-Ref	Target designation from	Connection point	Conductor	Target designation to	Connection point	X-Ref	Function text
				SH				
	/5.1	-X2		GNYE	-M1/B03	PE	/5.1	Banda 1 refuz ciur
	/5.1	-X2	1	BN	-M1/B03	U1	/5.1	=
	/5.1	-X2	2	BK	-M1/B03	V1	/5.1	=
	/5.1	-X2	3	GY	-M1/B03	W1	/5.1	=

			Date	20/02/2023	EPLAN	SC Tehnimarket srl	Cable diagram =CA1+EAA-W2	= CA1	
			Ed	Nelu				+ EAA	
			Appr		Statie tratare mecanica			IEC_bas001	Page 46
Modification	Date	Name	Original		Replacement of	Replaced by			Page 51 / 70

Cable diagram

F09_001

Cable name	Cable type		No. of conductors		Cross-section	Cable length		Function text
=CA1+EAA-W3	2YSL(ST)CYK-J 0,6/1KV EMV-UV		4G		2,5			
Function text	X-Ref	Target designation from	Connection point	Conductor	Target designation to	Connection point	X-Ref	Function text
				SH				
	/6.2	-X2		GNYE	-M2/B2.1	PE	/6.1	Banda sort organic
	/6.1	-X2	4	BN	-M2/B2.1	U1	/6.1	=
	/6.1	-X2	5	BK	-M2/B2.1	V1	/6.1	=
	/6.1	-X2	6	GY	-M2/B2.1	W1	/6.1	=

Cable diagram

F09_001

Cable name	Cable type		No. of conductors		Cross-section	Cable length		Function text
=CA1+EAA-W4	2YSL(ST)CYK-J 0,6/1KV EMV-UV		4G		2,5			
Function text	X-Ref	Target designation from	Connection point	Conductor	Target designation to	Connection point	X-Ref	Function text
				SH				
	/7.1	-X2		GNYE	-M3/B02	PE	/7.1	Banda evac. sort organic,tambur mag.
	/7.1	-X2	7	BN	-M3/B02	U1	/7.1	=
	/7.1	-X2	8	BK	-M3/B02	V1	/7.1	=
	/7.1	-X2	9	GY	-M3/B02	W1	/7.1	=

			Date	20/02/2023	EPLAN	SC Tehnimarket srl	Cable diagram =CA1+EAA-W4	= CA1
			Ed	Nelu				+ EAA
			Appr		Statie tratare mecanica			IEC_bas001 Page 48
Modification	Date	Name	Original		Replacement of	Replaced by		Page 53 / 70

Cable diagram

F09_001

Cable name	Cable type		No. of conductors		Cross-section	Cable length		Function text
=CA1+EAA-W5	2YSL(ST)CYK-J 0,6/1KV EMV-UV		4G		4			
Function text	X-Ref	Target designation from	Connection point	Conductor	Target designation to	Connection point	X-Ref	Function text
				SH				
	/8.2	-X2		GNYE	-M4/B16	PE	/8.1	Banda tocator_ciur rotativ
	/8.1	-X2	10	BN	-M4/B16	U1	/8.1	=
	/8.1	-X2	11	BK	-M4/B16	V1	/8.1	=
	/8.1	-X2	12	GY	-M4/B16	W1	/8.1	=

			Date	20/02/2023	EPLAN	SC Tehnimarket srl	Cable diagram =CA1+EAA-W5	= CA1
			Ed	Nelu				+ EAA
			Appr		Statie tratare mecanica			IEC_bas001 Page 49
Modification	Date	Name	Original		Replacement of / Replaced by			Page 54 / 70

Cable diagram

F09_001

Cable name	Cable type		No. of conductors		Cross-section	Cable length		Function text
=CA1+EAA-W6	2YSL(ST)CYK-J 0,6/1KV EMV-UV		4G		2,5			
Function text	X-Ref	Target designation from	Connection point	Conductor	Target designation to	Connection point	X-Ref	Function text
				SH				
	/9.1	-X2		GNYE	-M5/B03.1	PE	/9.1	Banda 2 refuz ciur
	/9.1	-X2	13	BN	-M5/B03.1	U1	/9.1	=
	/9.1	-X2	14	BK	-M5/B03.1	V1	/9.1	=
	/9.1	-X2	15	GY	-M5/B03.1	W1	/9.1	=

			Date	20/02/2023	EPLAN	SC Tehnimarket srl	Cable diagram =CA1+EAA-W6	= CA1
			Ed	Nelu				+ EAA
			Appr		Statie tratare mecanica			IEC_bas001
Modification	Date	Name	Original		Replacement of	Replaced by		Page 50
								Page 55 / 70

Cable diagram

F09_001

Cable name	Cable type		No. of conductors		Cross-section	Cable length		Function text
=CA1+EAA-W7	2YSL(ST)CYK-J 0,6/1KV EMV-UV		4G		2,5			
Function text	X-Ref	Target designation from	Connection point	Conductor	Target designation to	Connection point	X-Ref	Function text
				SH				
	/10.2	-X2		GNYE	-M6/B04	PE	/10.1	Banda 1 sort fin sep. balistic
	/10.1	-X2	16	BN	-M6/B04	U1	/10.1	=
	/10.2	-X2	17	BK	-M6/B04	V1	/10.1	=
	/10.2	-X2	18	GY	-M6/B04	W1	/10.1	=

			Date	20/02/2023	EPLAN	SC Tehnimarket srl	Cable diagram =CA1+EAA-W7	= CA1
			Ed	Nelu				+ EAA
			Appr		Statie tratare mecanica			IEC_bas001
Modification	Date	Name	Original		Replacement of	Replaced by		Page 51
								Page 56 / 70

Cable diagram

F09_001

Cable name	Cable type		No. of conductors		Cross-section	Cable length		Function text
=CA1+EAA-W8	2YSL(ST)CYK-J 0,6/1KV EMV-UV		4G		2,5			
Function text	X-Ref	Target designation from	Connection point	Conductor	Target designation to	Connection point	X-Ref	Function text
				SH				
	/11.2	-X2		GNYE	-M7/B05	PE	/11.1	Banda sort 2 fin balistic
	/11.1	-X2	19	BN	-M7/B05	U1	/11.1	=
	/11.2	-X2	20	BK	-M7/B05	V1	/11.1	=
	/11.2	-X2	21	GY	-M7/B05	W1	/11.1	=

			Date	20/02/2023	EPLAN	SC Tehnimarket srl	Cable diagram =CA1+EAA-W8	= CA1
			Ed	Nelu				+ EAA
			Appr		Statie tratare mecanica			IEC_bas001 Page 52
Modification	Date	Name	Original		Replacement of	Replaced by		Page 57 / 70

Cable diagram

F09_001

Cable name	Cable type		No. of conductors		Cross-section	Cable length		Function text
=CA1+EAA-W9	2YSL(ST)CYK-J 0,6/1KV EMV-UV		4G		2,5			
Function text	X-Ref	Target designation from	Connection point	Conductor	Target designation to	Connection point	X-Ref	Function text
				SH				
	/12.1	-X2		GNYE	-M8/B07	PE	/12.1	Banda preluare sort 3D
	/12.1	-X2	22	BN	-M8/B07	U1	/12.1	=
	/12.1	-X2	23	BK	-M8/B07	V1	/12.1	=
	/12.1	-X2	24	GY	-M8/B07	W1	/12.1	=

Cable diagram

F09_001

Cable name	Cable type		No. of conductors		Cross-section	Cable length		Function text
=CA1+EAA-W10	2YSL(ST)CYK-J 0,6/1KV EMV-UV		4G		2,5			
Function text	X-Ref	Target designation from	Connection point	Conductor	Target designation to	Connection point	X-Ref	Function text
				SH				
	/13.1	-X2		GNYE	-M9/B06	PE	/13.1	Banda preluare sort 2D
	/13.1	-X2	25	BN	-M9/B06	U1	/13.1	=
	/13.1	-X2	26	BK	-M9/B06	V1	/13.1	=
	/13.1	-X2	27	GY	-M9/B06	W1	/13.1	=

			Date	20/02/2023	EPLAN	SC Tehnimarket srl	Cable diagram =CA1+EAA-W10	= CA1
			Ed	Nelu				+ EAA
			Appr		Statie tratare mecanica			IEC_bas001 Page 54
Modification	Date	Name	Original		Replacement of	Replaced by		Page 59 / 70

Cable diagram

F09_001

Cable name	Cable type		No. of conductors		Cross-section	Cable length		Function text
=CA1+EAA-W11	2YSL(ST)CYK-J 0,6/1KV EMV-UV		4G		2,5			
Function text	X-Ref	Target designation from	Connection point	Conductor	Target designation to	Connection point	X-Ref	Function text
				SH				
	/14.2	-X2		GNYE	-M10/B08	PE	/14.1	Banda accelerare 2D
	/14.1	-X2	28	BN	-M10/B08	U1	/14.1	=
	/14.1	-X2	29	BK	-M10/B08	V1	/14.1	=
	/14.2	-X2	30	GY	-M10/B08	W1	/14.1	=

			Date	20/02/2023	EPLAN	SC Tehnimarket srl	Cable diagram =CA1+EAA-W11	= CA1
			Ed	Nelu				+ EAA
			Appr		Statie tratare mecanica			IEC_bas001 Page 55
Modification	Date	Name	Original		Replacement of	Replaced by		Page 60 / 70

Cable diagram

F09_001

Cable name =CA1+EAA-W12	Cable type 2YSL(ST)CYK-J 0,6/1KV EMV-UV	No. of conductors 4G	Cross-section 4	Cable length	Function text

Function text	X-Ref	Target designation from	Connection point	Conductor	Target designation to	Connection point	X-Ref	Function text
				SH				
	/15.2	-X2		GNYE	-M11/B11	PE	/15.1	Banda accelerare 2D
	/15.1	-X2	30	BN	-M11/B11	U1	/15.1	=
	/15.1	-X2	31	BK	-M11/B11	V1	/15.1	=
	/15.1	-X2	32	GY	-M11/B11	W1	/15.1	=

Cable diagram

F09_001

Cable name	Cable type	No. of conductors	Cross-section	Cable length	Function text
=CA1+EAA-W13	2YSL(ST)CYK-J 0,6/1KV EMV-UV	4G	2,5		

Function text	X-Ref	Target designation from	Connection point	Conductor	Target designation to	Connection point	X-Ref	Function text
				SH				
	/16.2	-X2		GNYE	-M12/B13	PE	/16.1	Banda 1 SRF 3D
	/16.1	-X2	33	BN	-M12/B13	U1	/16.1	=
	/16.2	-X2	34	BK	-M12/B13	V1	/16.1	=
	/16.2	-X2	35	GY	-M12/B13	W1	/16.1	=

Cable diagram

F09_001

Cable name =CA1+EAA-W14	Cable type 2YSL(ST)CYK-J 0,6/1KV EMV-UV		No. of conductors 4G		Cross-section 2,5	Cable length		Function text
Function text	X-Ref	Target designation from	Connection point	Conductor	Target designation to	Connection point	X-Ref	Function text
				SH				
	/17.2	-X2		GNYE	-M13/B14	PE	/17.1	Banda 2 SRF 3D
	/17.1	-X2	35	BN	-M13/B14	U1	/17.1	=
	/17.1	-X2	36	BK	-M13/B14	V1	/17.1	=
	/17.2	-X2	37	GY	-M13/B14	W1	/17.1	=

Cable diagram

F09_001

Cable name	Cable type	No. of conductors	Cross-section	Cable length	Function text
=CA1+EAA-W15	2YSL(ST)CYK-J 0,6/1KV EMV-UV	4G	2,5		

Function text	X-Ref	Target designation from	Connection point	Conductor	Target designation to	Connection point	X-Ref	Function text
				SH				
	/18.2	-X2		GNYE	-M14/B15	PE	/18.1	Banda 3 SRF 3D
	/18.1	-X2	38	BN	-M14/B15	U1	/18.1	=
	/18.1	-X2	39	BK	-M14/B15	V1	/18.1	=
	/18.2	-X2	40	GY	-M14/B15	W1	/18.1	=

Cable diagram

F09_001

Cable name	Cable type		No. of conductors		Cross-section	Cable length		Function text
=CA1+EAA-W16	2YSL(ST)CYK-J 0,6/1KV EMV-UV		4G		2,5			
Function text	X-Ref	Target designation from	Connection point	Conductor	Target designation to	Connection point	X-Ref	Function text
				SH				
	/19.1	-X2		GNYE	-M15/B09	PE	/19.1	Banda evacuare SRF
	/19.1	-X2	41	BN	-M15/B09	U1	/19.1	=
	/19.1	-X2	42	BK	-M15/B09	V1	/19.1	=
	/19.1	-X2	43	GY	-M15/B09	W1	/19.1	=

			Date	20/02/2023	EPLAN	SC Tehnimarket srl	Cable diagram =CA1+EAA-W16	= CA1
			Ed	Nelu				+ EAA
			Appr		Statie tratare mecanica			IEC_bas001 Page 60
Modification	Date	Name	Original		Replacement of	Replaced by		Page 65 / 70

Cable diagram

F09_001

Cable name	Cable type		No. of conductors		Cross-section	Cable length		Function text
=CA1+EAA-W17	2YSL(ST)CYK-J 0,6/1KV EMV-UV		4G		2,5			
Function text	X-Ref	Target designation from	Connection point	Conductor	Target designation to	Connection point	X-Ref	Function text
				SH				
	/20.1	-X2		GNYE	-M16/10	PE	/20.1	Banda refuz
	/20.1	-X2	44	BN	-M16/10	U1	/20.1	=
	/20.1	-X2	45	BK	-M16/10	V1	/20.1	=
	/20.1	-X2	46	GY	-M16/10	W1	/20.1	=

			Date	20/02/2023	EPLAN	SC Tehnimarket srl	Cable diagram =CA1+EAA-W17	= CA1
			Ed	Nelu				+ EAA
			Appr		Statie tratare mecanica			IEC_bas001 Page 61
Modification	Date	Name	Original		Replacement of	Replaced by		Page 66 / 70

Cable diagram

F09_001

Cable name	Cable type		No. of conductors		Cross-section	Cable length		Function text
=CA1+EAA-W18	2YSL(ST)CYK-J 0,6/1KV EMV-UV		4G		2,5			
Function text	X-Ref	Target designation from	Connection point	Conductor	Target designation to	Connection point	X-Ref	Function text
				SH				
	/21.2	-X2		GNYE	-M17/B12	PE	/21.1	Banda preluare PET+PEID
	/21.1	-X2	47	BN	-M17/B12	U1	/21.1	=
	/21.1	-X2	48	BK	-M17/B12	V1	/21.1	=
	/21.1	-X2	49	GY	-M17/B12	W1	/21.1	=

			Date	20/02/2023	EPLAN	SC Tehnimarket srl	Cable diagram =CA1+EAA-W18	= CA1	
			Ed	Nelu				+ EAA	
			Appr		Statie tratare mecanica				
Modification	Date	Name	Original		Replacement of	Replaced by		IEC_bas001	Page 62
									Page 67 / 70

Cable diagram

F09_001

Cable name	Cable type		No. of conductors		Cross-section	Cable length		Function text
=CA1+EAA-W19	2YSL(ST)CYK-J 0,6/1KV EMV-UV		4G		2,5			
Function text	X-Ref	Target designation from	Connection point	Conductor	Target designation to	Connection point	X-Ref	Function text
				SH				
	/22.1	-X2		GNYE	-M18	PE	/22.1	
	/22.1	-X2	50	BN	-M18	U1	/22.1	
	/22.1	-X2	51	BK	-M18	V1	/22.1	
	/22.1	-X2	52	GY	-M18	W1	/22.1	

			Date	20/02/2023	EPLAN	SC Tehnimarket srl	Cable diagram =CA1+EAA-W19	= CA1
			Ed	Nelu				+ EAA
			Appr		Statie tratare mecanica			IEC_bas001 Page 63
Modification	Date	Name	Original		Replacement of	Replaced by		Page 68 / 70

Cable diagram

F09_001

Cable name	Cable type		No. of conductors		Cross-section	Cable length		Function text
=CA1+EAA-W20	2YSL(ST)CYK-J 0,6/1KV EMV-UV		4G		2,5			
Function text	X-Ref	Target designation from	Connection point	Conductor	Target designation to	Connection point	X-Ref	Function text
				SH				
	/22.4	-X2		GNYE	-M19	PE	/22.4	
	/22.4	-X2	53	BN	-M19	U1	/22.4	
	/22.4	-X2	54	BK	-M19	V1	/22.4	
	/22.4	-X2	55	GY	-M19	W1	/22.4	

Cable diagram

F09_001

Cable name	Cable type		No. of conductors		Cross-section	Cable length		Function text
=CA1+EAA-W21	2YSL(ST)CYK-J 0,6/1KV EMV-UV		4G		2,5			
Function text	X-Ref	Target designation from	Connection point	Conductor	Target designation to	Connection point	X-Ref	Function text
				SH				
	/23.2	-X2		GNYE	-M20	PE	/23.1	Separator magnetic
	/23.1	-X2	56	BN	-M20	U1	/23.1	=
	/23.2	-X2	57	BK	-M20	V1	/23.1	=
	/23.2	-X2	58	GY	-M20	W1	/23.1	=