

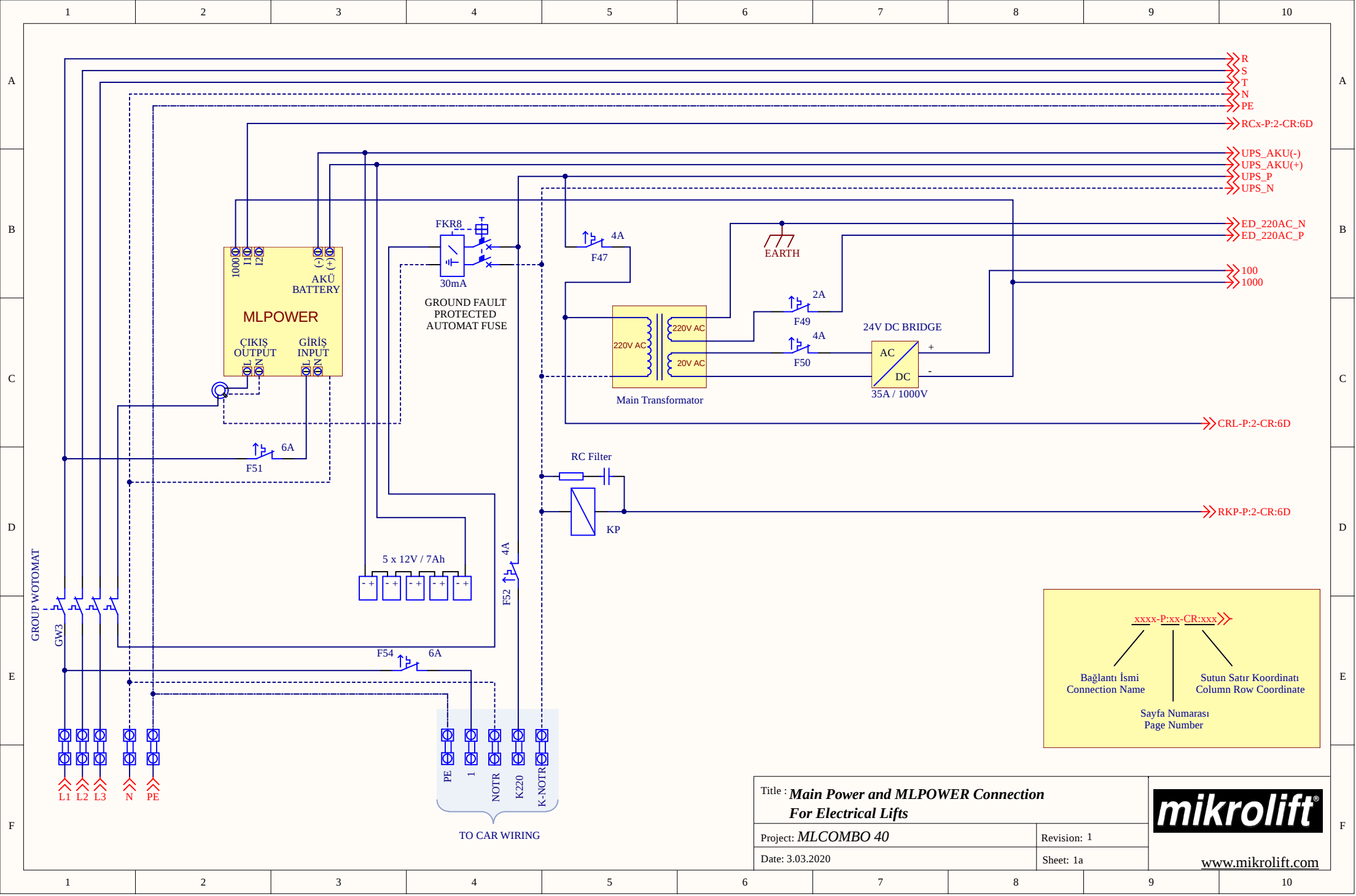
1	2	3	4	5	6	7	8	9	10	
A										A
B										B
C										C
D										D
E										E
F										F
1	2	3	4	5	6	7	8	9	10	

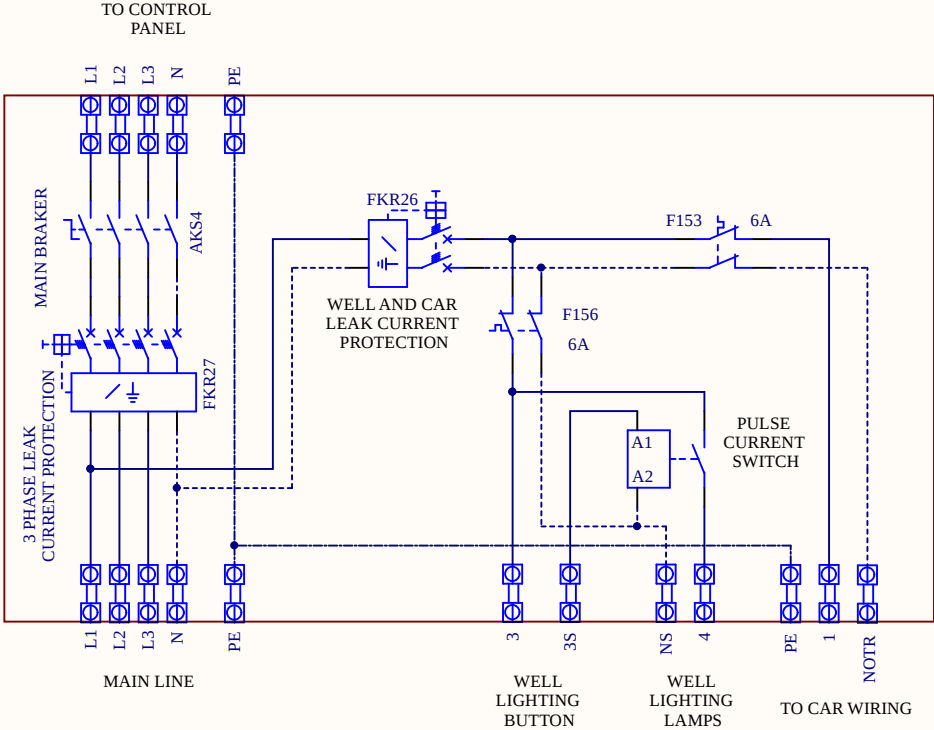
MLCOMBO 40

CONTROL PANEL CONNECTION, PIT AND FLOOR WIRING SCHEMES

Version : 1.05
Standard : EN81-20
Date of Update : 3.03.2020

Important Note : These schemes are advisory. Mikrolift reserves the right to change schemes. Our company cannot be held responsible for any changes made by persons other than those within our company.





Title : **Machine Room Electrical Panel**

Project: **MLCOMBO 40**

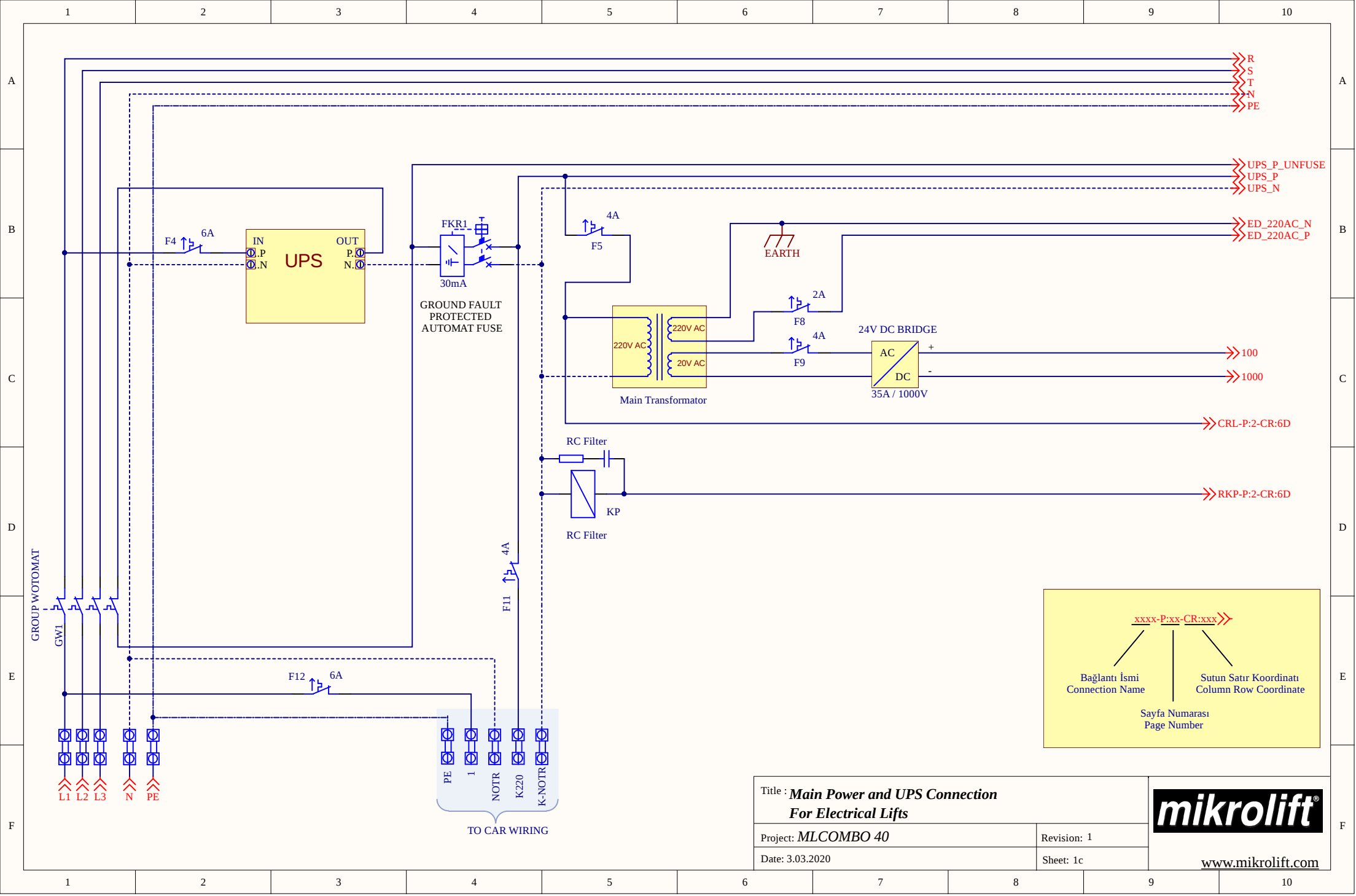
Revision: 1

Date: 3.03.2020

Sheet: 1b



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Title : **Main Power and UPS Connection**
For Electrical Lifts

Project: **MLCOMBO 40**

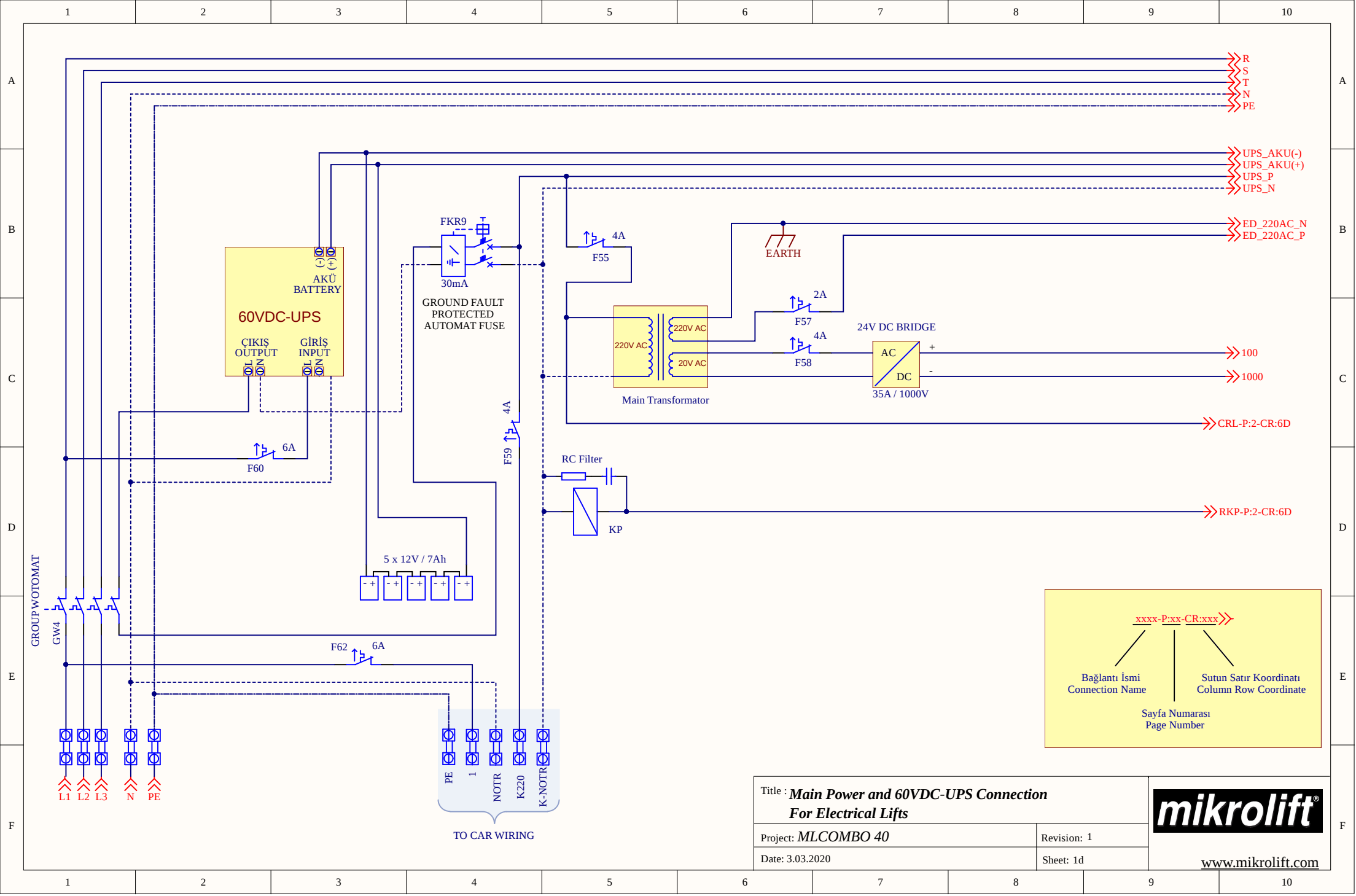
Date: 3.03.2020

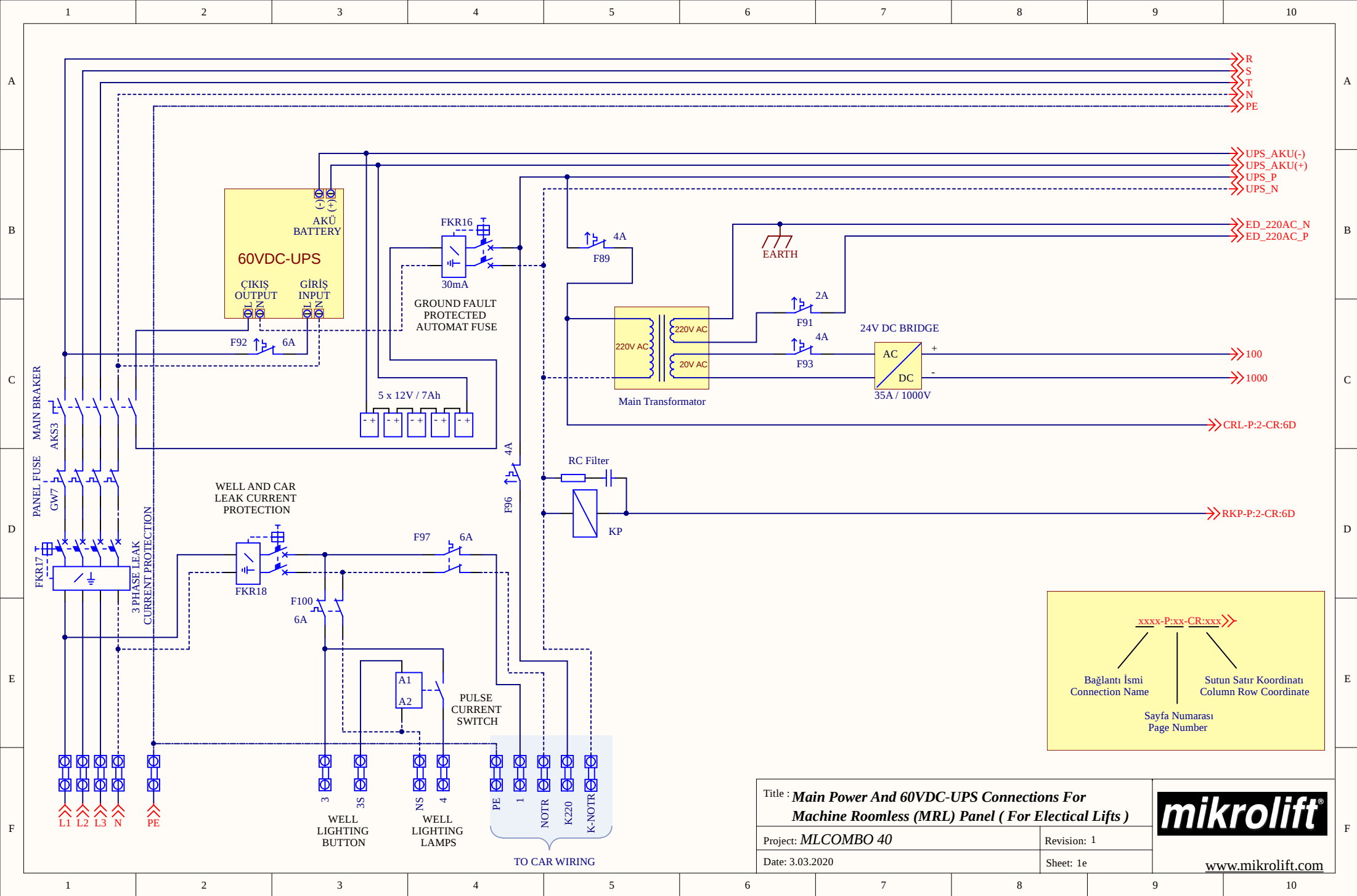
Revision: 1

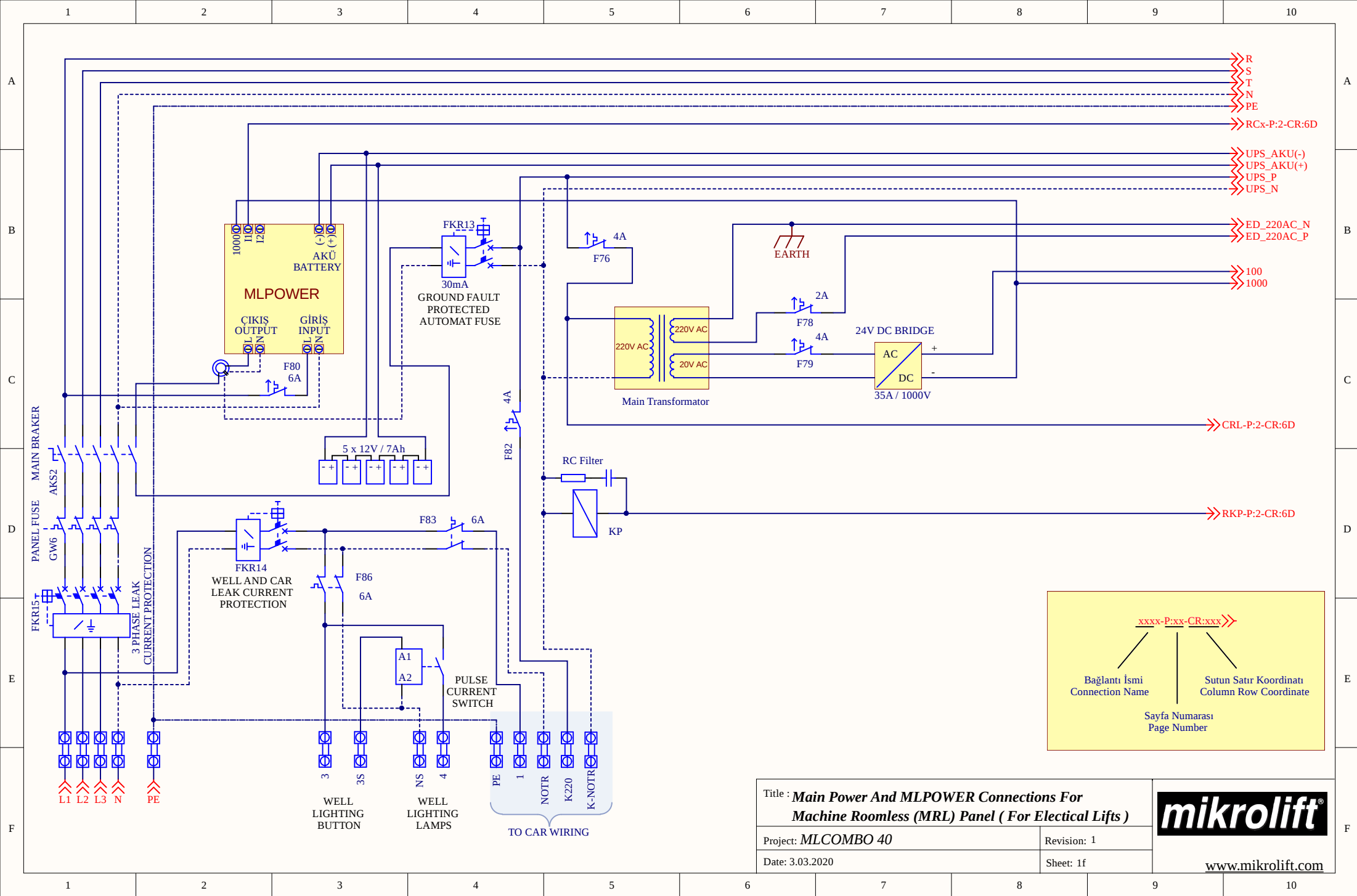
Sheet: 1c

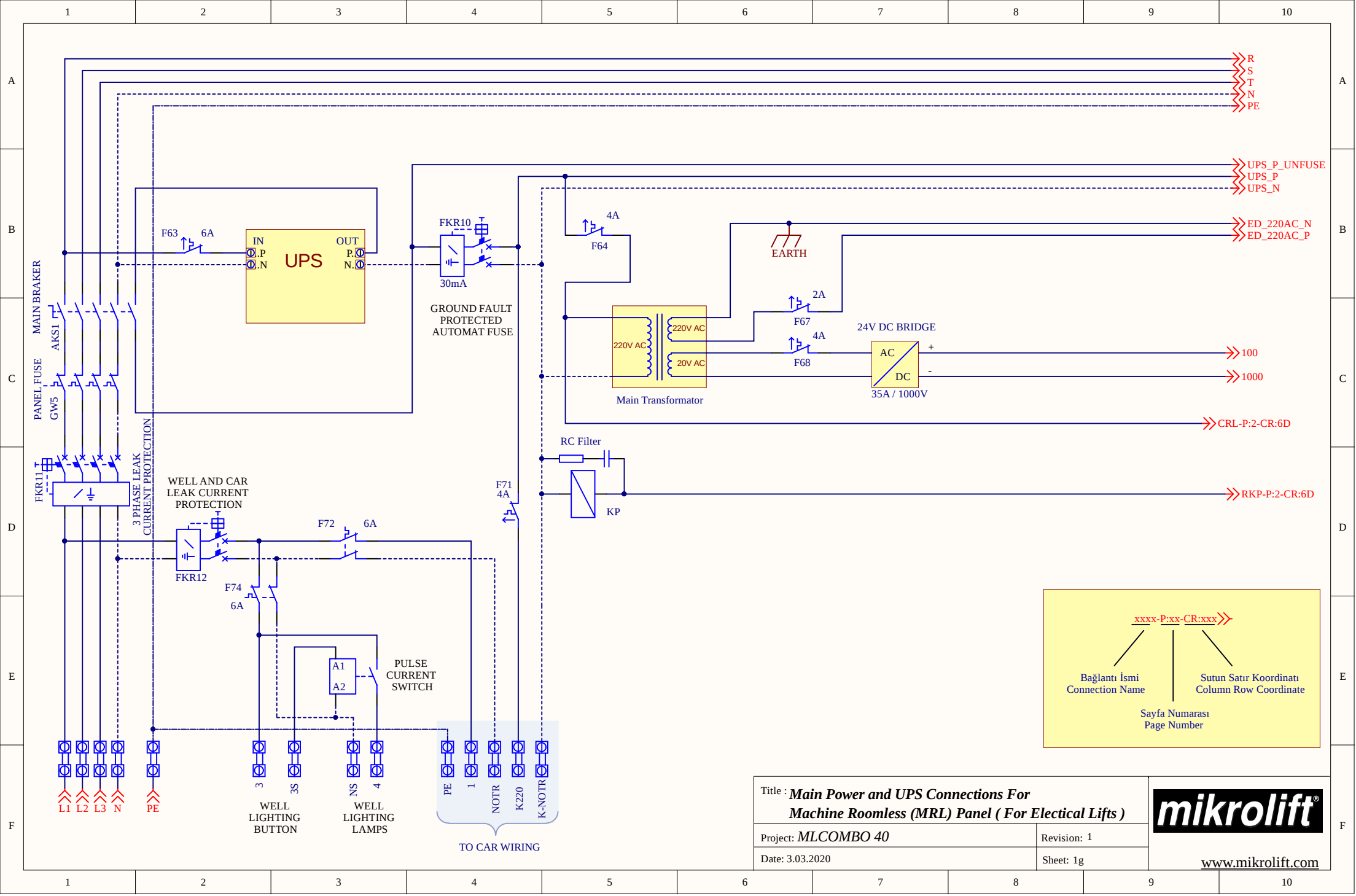
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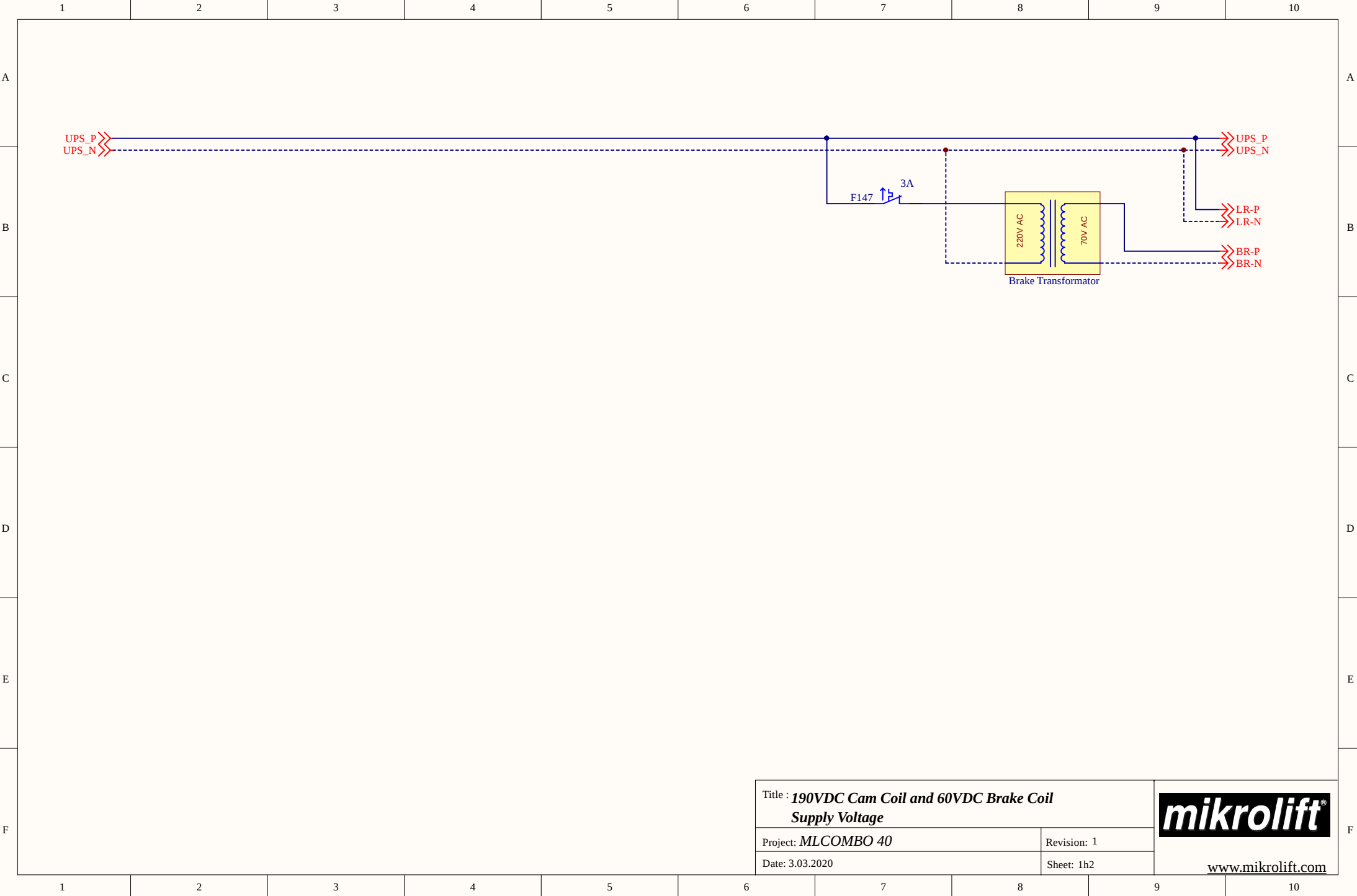












Title : **190VDC Cam Coil and 60VDC Brake Coil**
Supply Voltage

Project: **MLCOMBO 40**

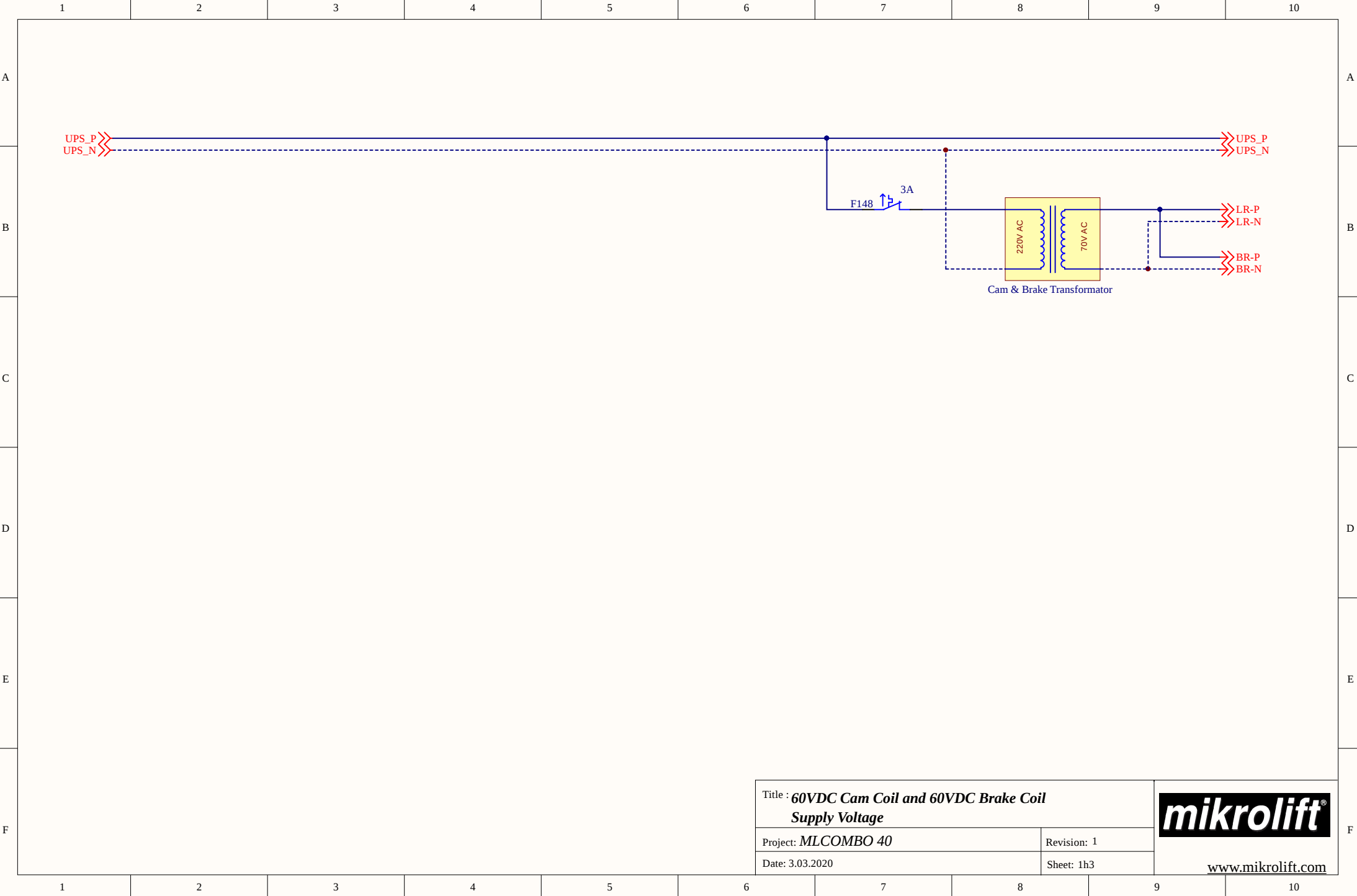
Revision: 1

Date: 3.03.2020

Sheet: 1h2



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Title : **60VDC Cam Coil and 60VDC Brake Coil**
Supply Voltage

Project: **MLCOMBO 40**

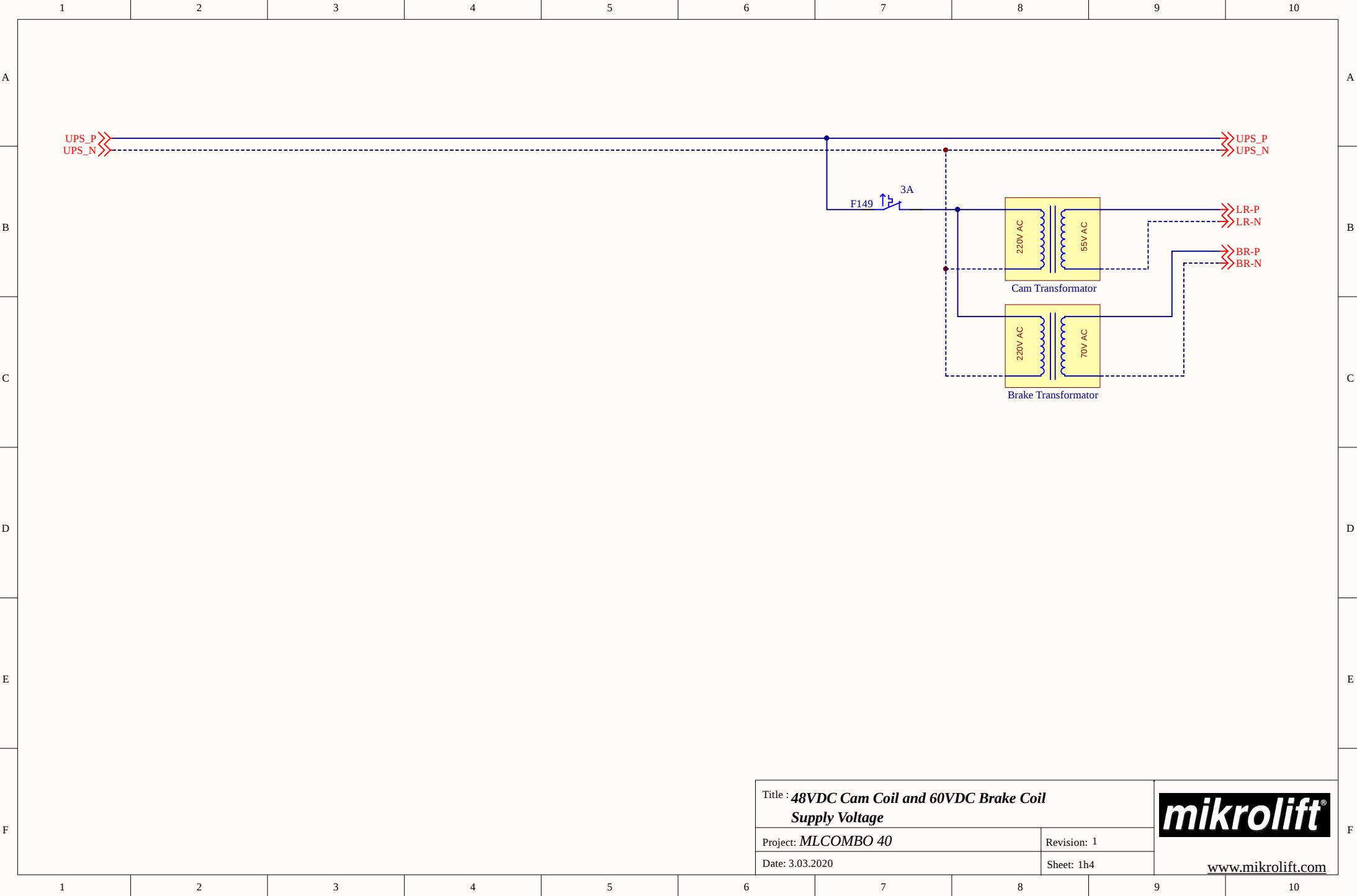
Revision: 1

Date: 3.03.2020

Sheet: 1h3



www.mikrolift.com



Title : **48VDC Cam Coil and 60VDC Brake Coil**
Supply Voltage

Project: **MLCOMBO 40**

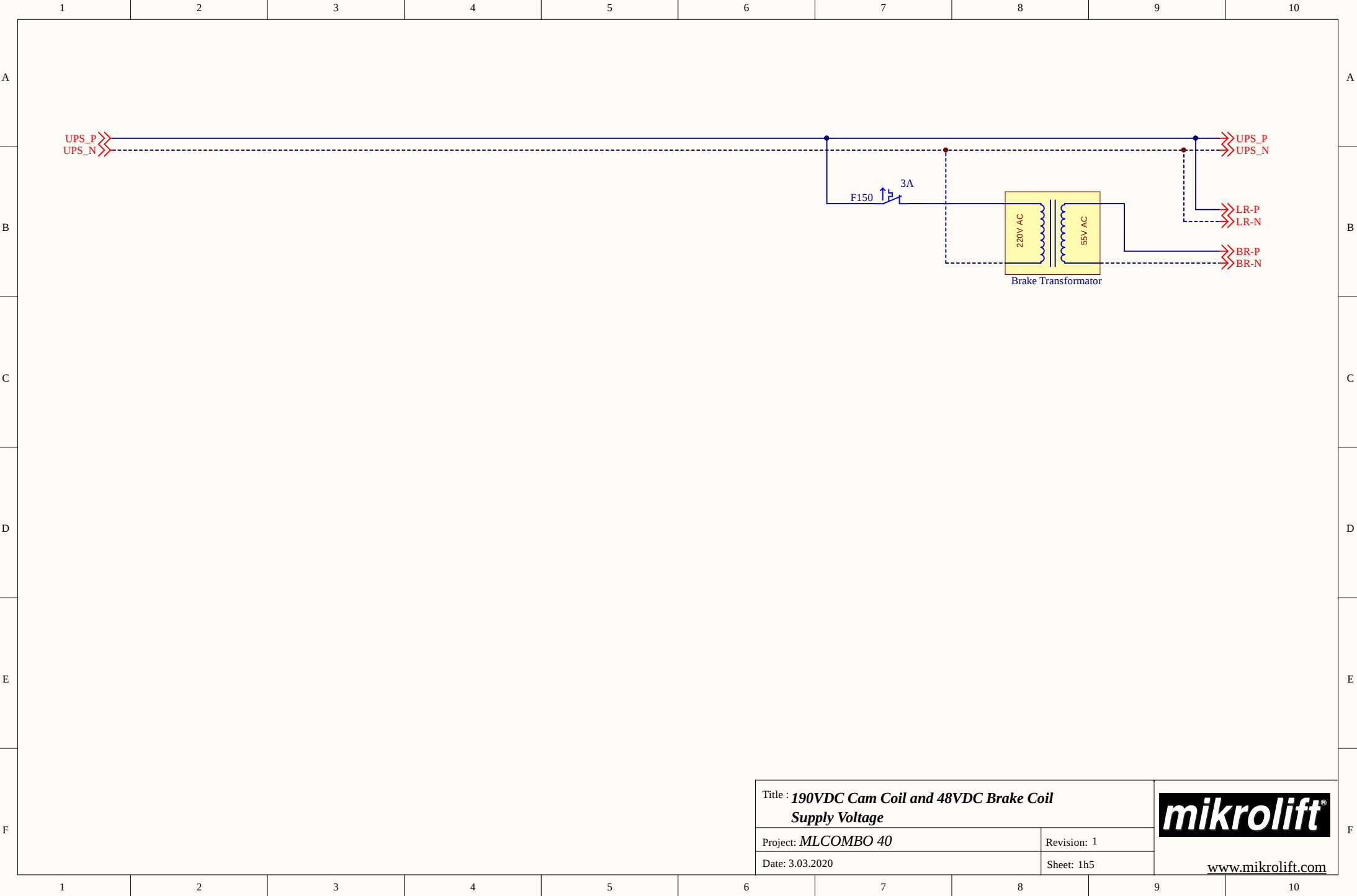
Revision: 1

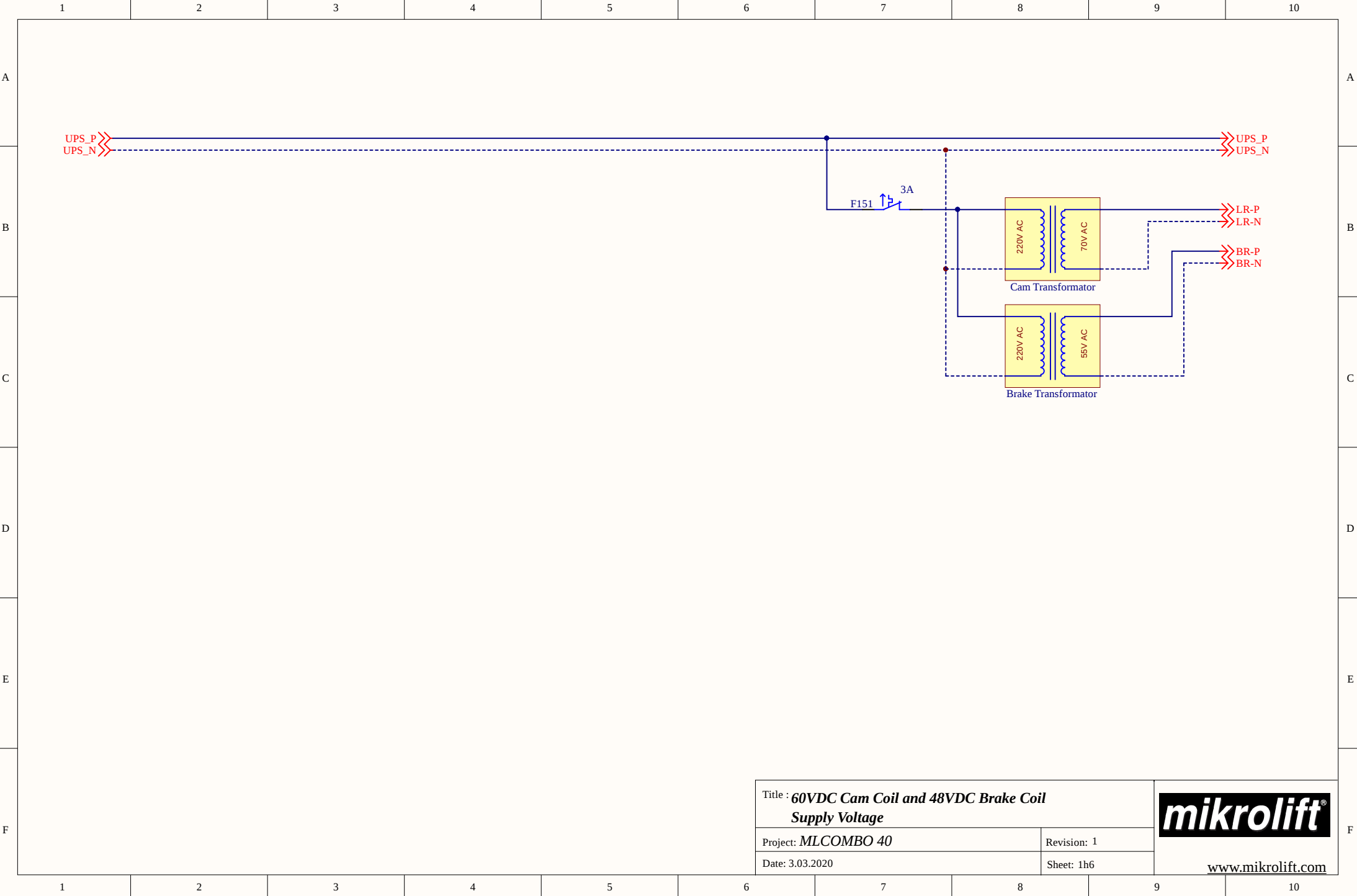
Date: 3.03.2020

Sheet: 1h4



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Title : **60VDC Cam Coil and 48VDC Brake Coil**
Supply Voltage

Project: **MLCOMBO 40**

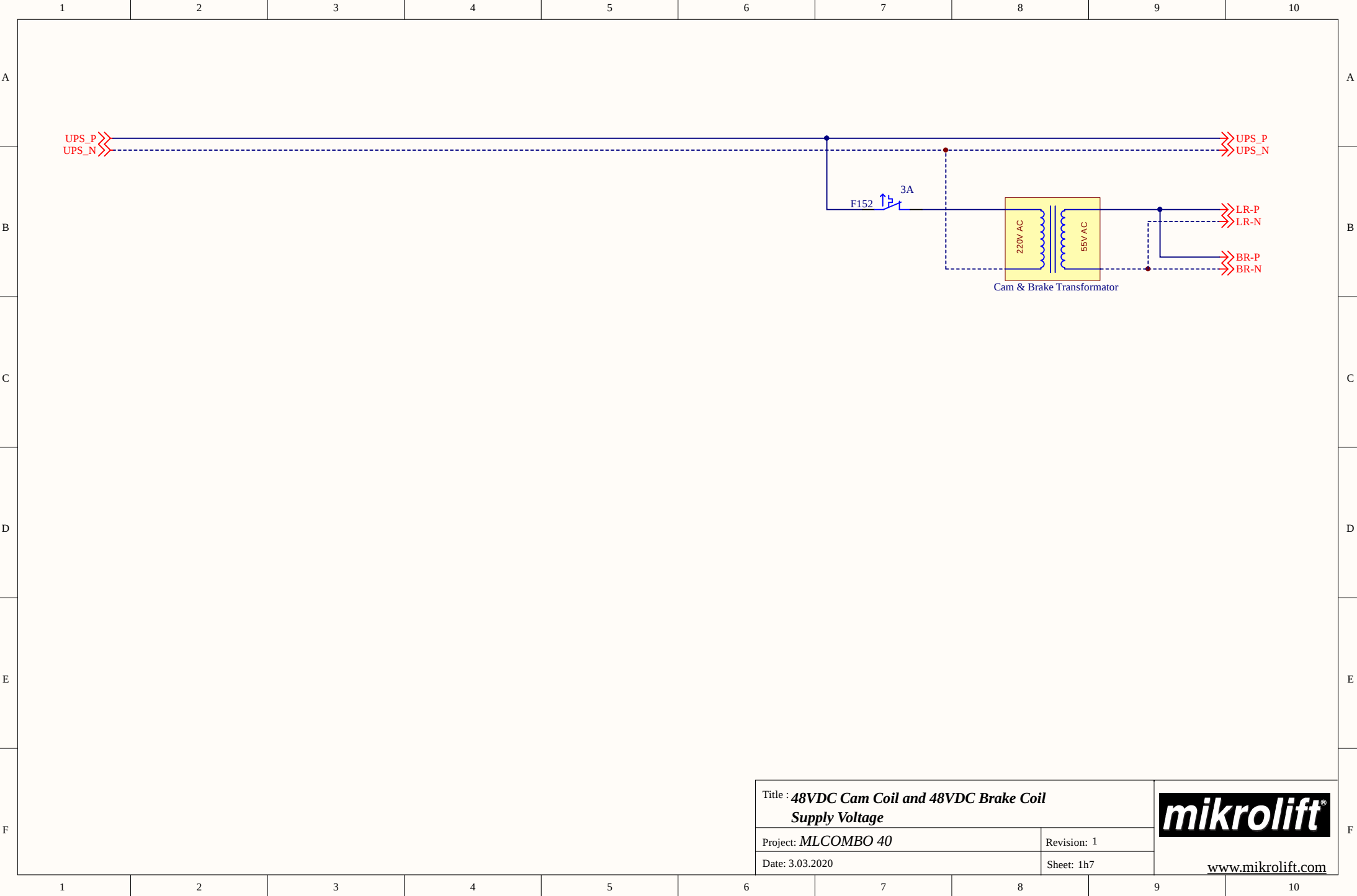
Revision: 1

Date: 3.03.2020

Sheet: 1h6



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Title : **48VDC Cam Coil and 48VDC Brake Coil**
Supply Voltage

Project: **MLCOMBO 40**

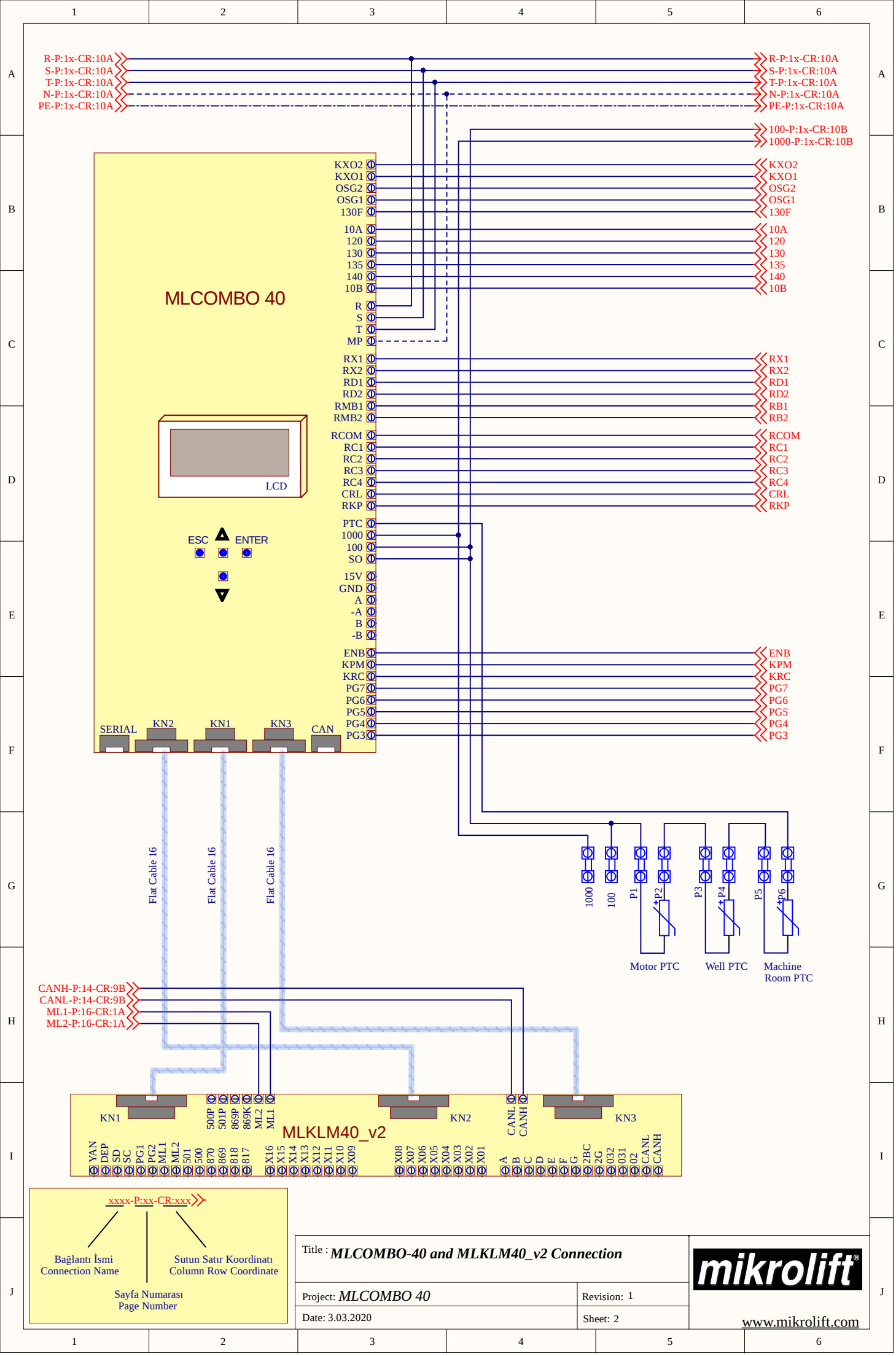
Revision: 1

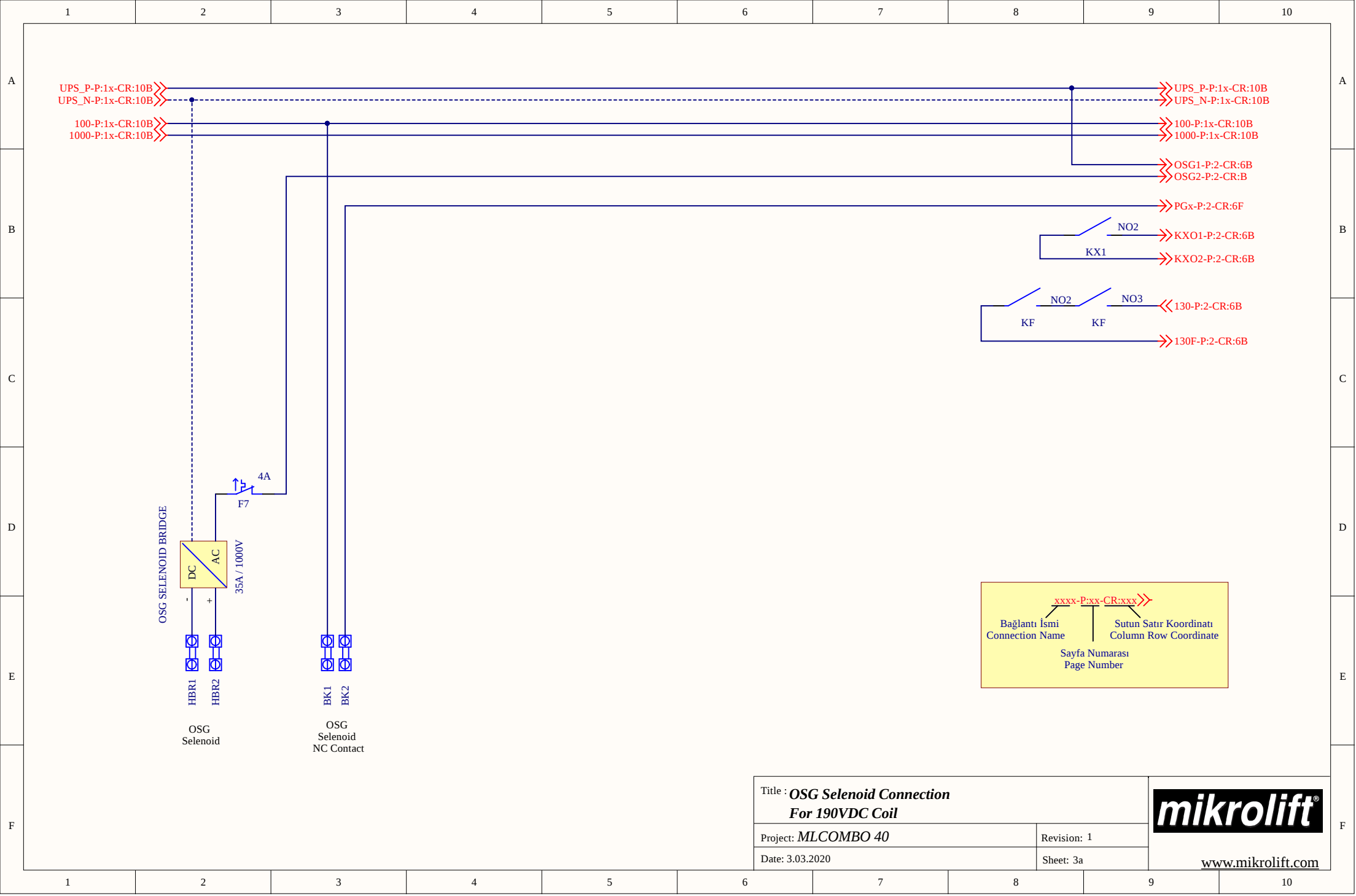
Date: 3.03.2020

Sheet: 1h7



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A

B

C

D

E

F

UPS_N-P:1x-CR:10B

SG_P-P:5x-CR:1B

SET

E

RESET

E

SG-S

N

SG-R

N

A1

A2

Set Selenoid

A1

A2

Reset Selenoid

OVERSPEED GOVERNOR

xxxx-P:xx-CR:xxx

Bağlantı İsmi
Connection Name

Sutun Satır Koordinatı
Column Row Coordinate

Sayfa Numarası
Page Number

Title : **Remote Control For Overspeed Governor**
(For 220VAC Coil)

Project: **MLCOMBO 40**

Revision: 1

Date: 3.03.2020

Sheet: 3c

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1 2 3 4 5 6 7 8 9 10

A

UPS_N-P:1x-CR:10B>>>UPS_N-P:1x-CR:10B

SG_P-P:5x-CR:1B>>

B

DC
AC
35A / 1000V

SET
E

RESET
E

SG-S

N

SG-R

N

A1

A2

Set Selenoid

A1

A2

Reset Selenoid

OVERSPEED GOVERNOR

D

E

F

xxxx-P:xx-CR:xxx>>>
Bağlantı İsmi
Connection Name
Sutun Satır Koordinatı
Column Row Coordinate
Sayfa Numarası
Page Number

Title : **Remote Control For Overspeed Governor**
(For 190VDC Coil)

Project: **MLCOMBO 40**

Date: 3.03.2020

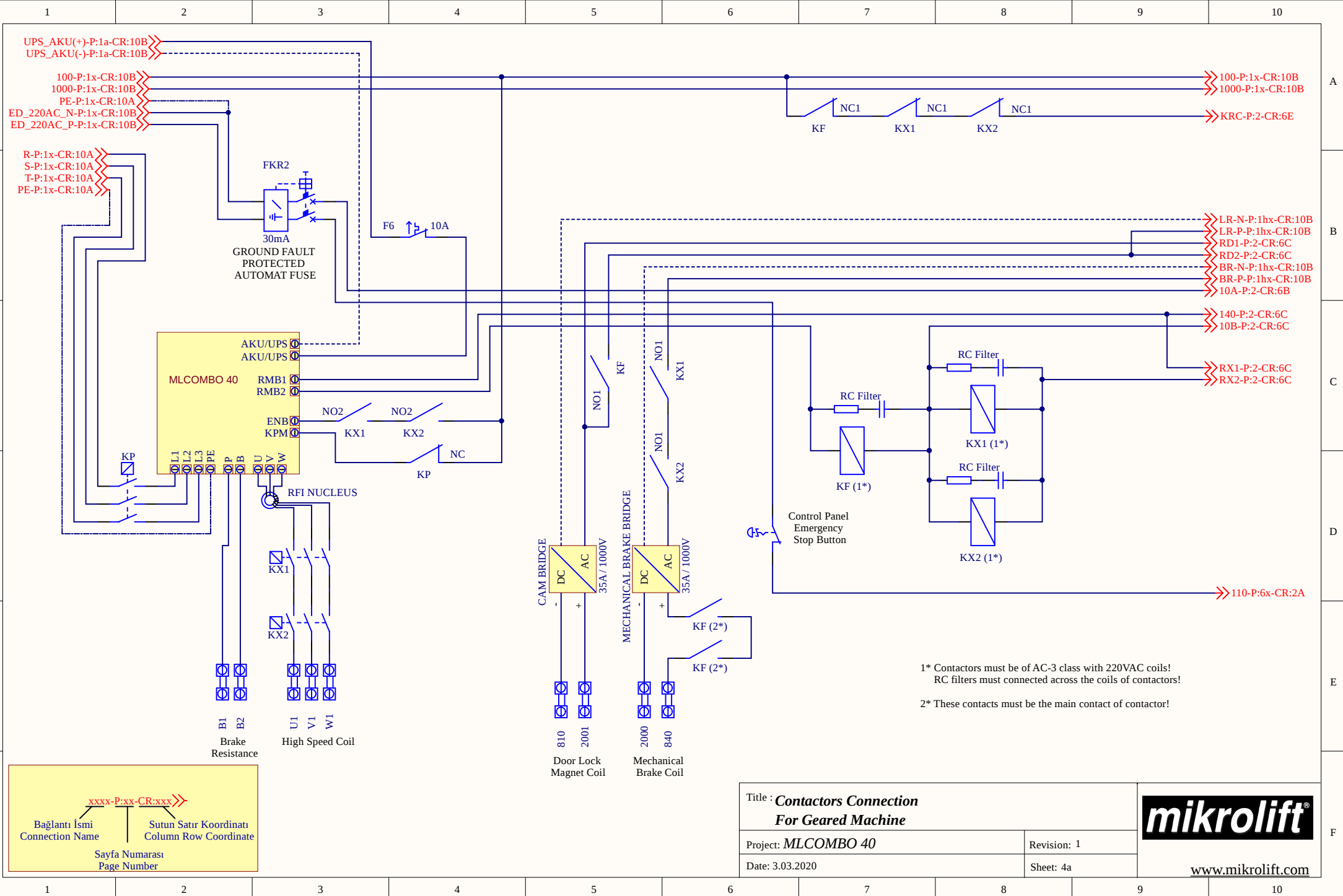
Revision: 1

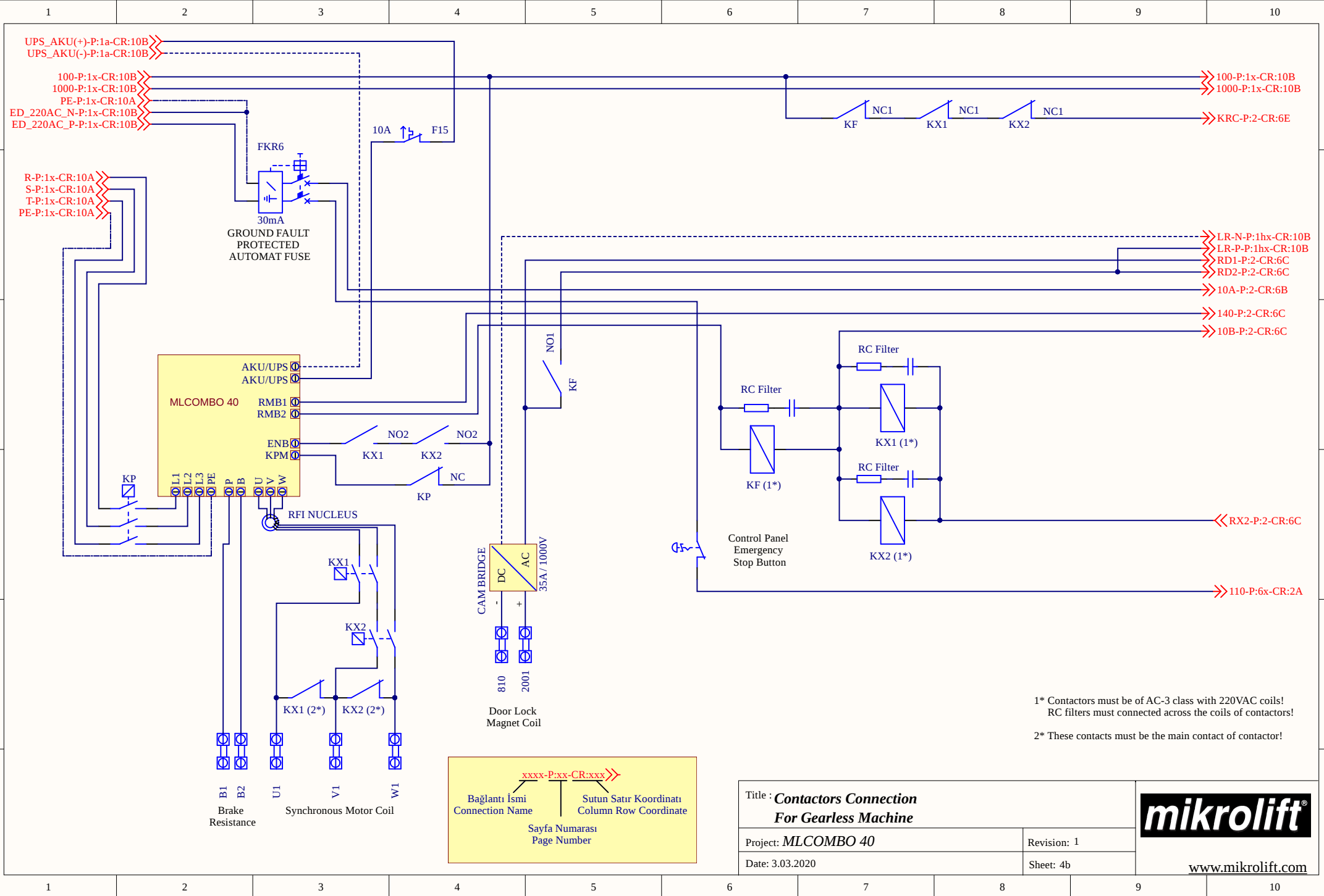
Sheet: 3d

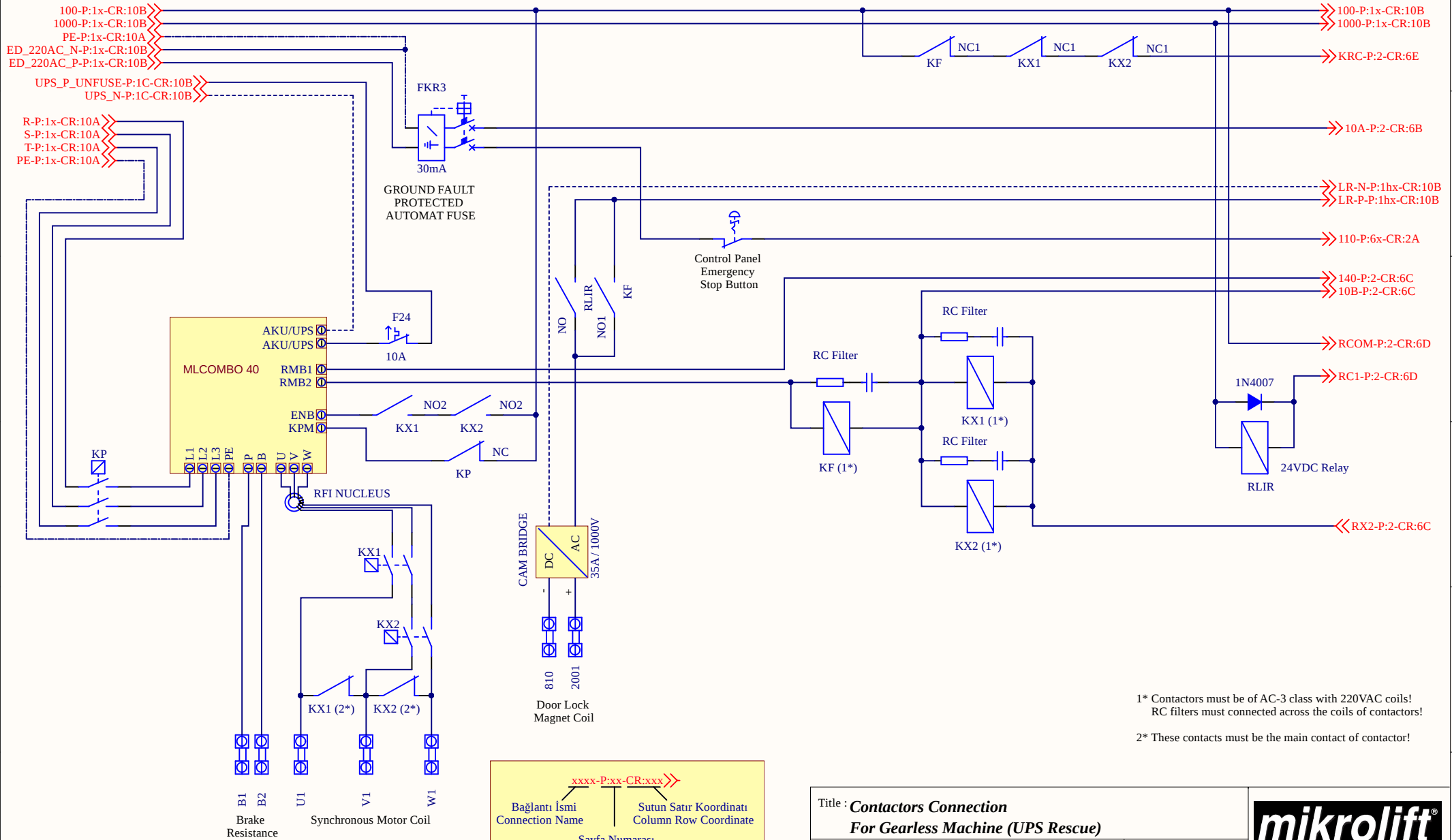
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1 2 3 4 5 6 7 8 9 10







1* Contactors must be of AC-3 class with 220VAC coils!
RC filters must connected across the coils of contactors!

2* These contacts must be the main contact of contactor!

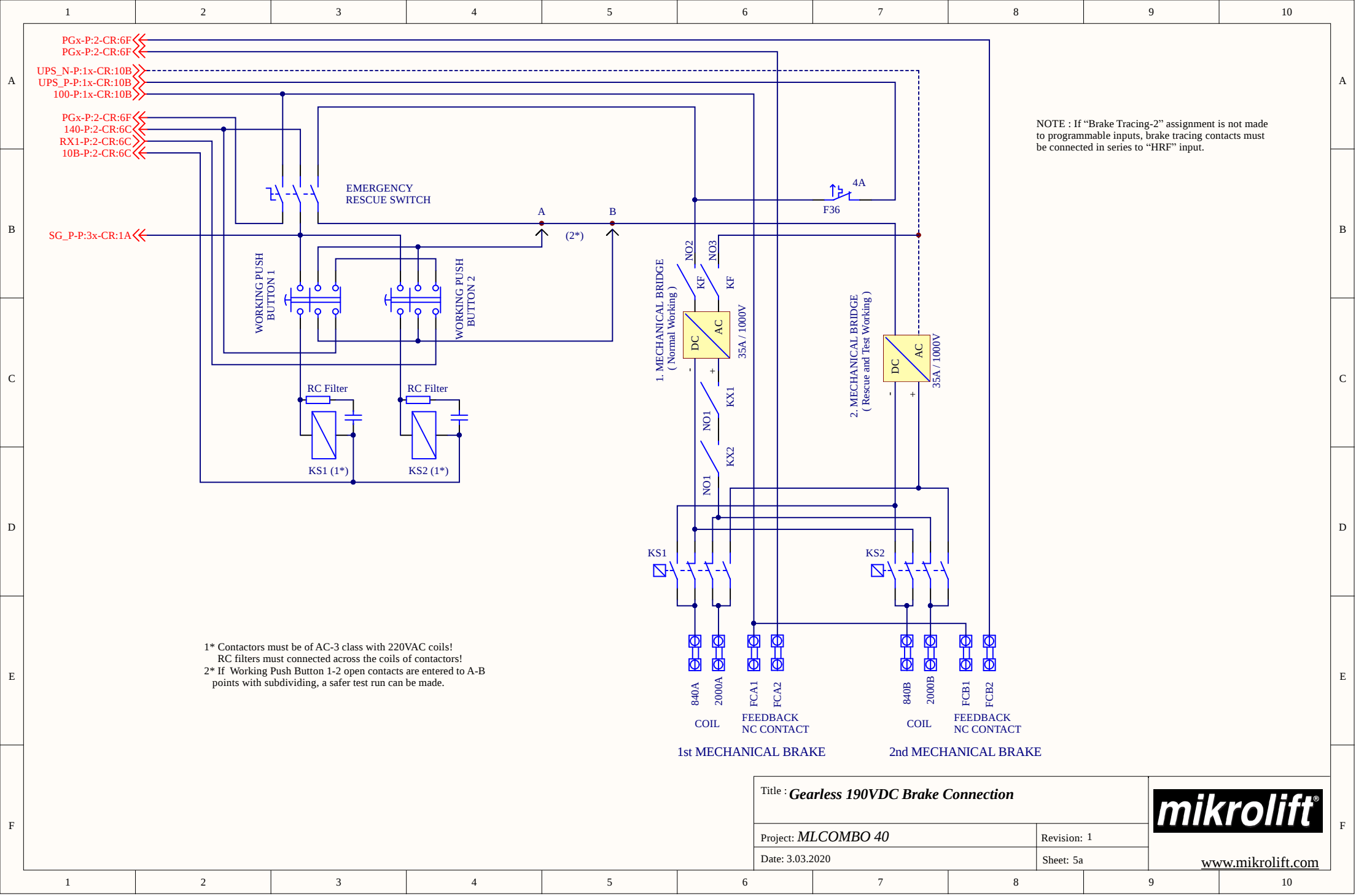
xxxx-P:xx-CR:xxx

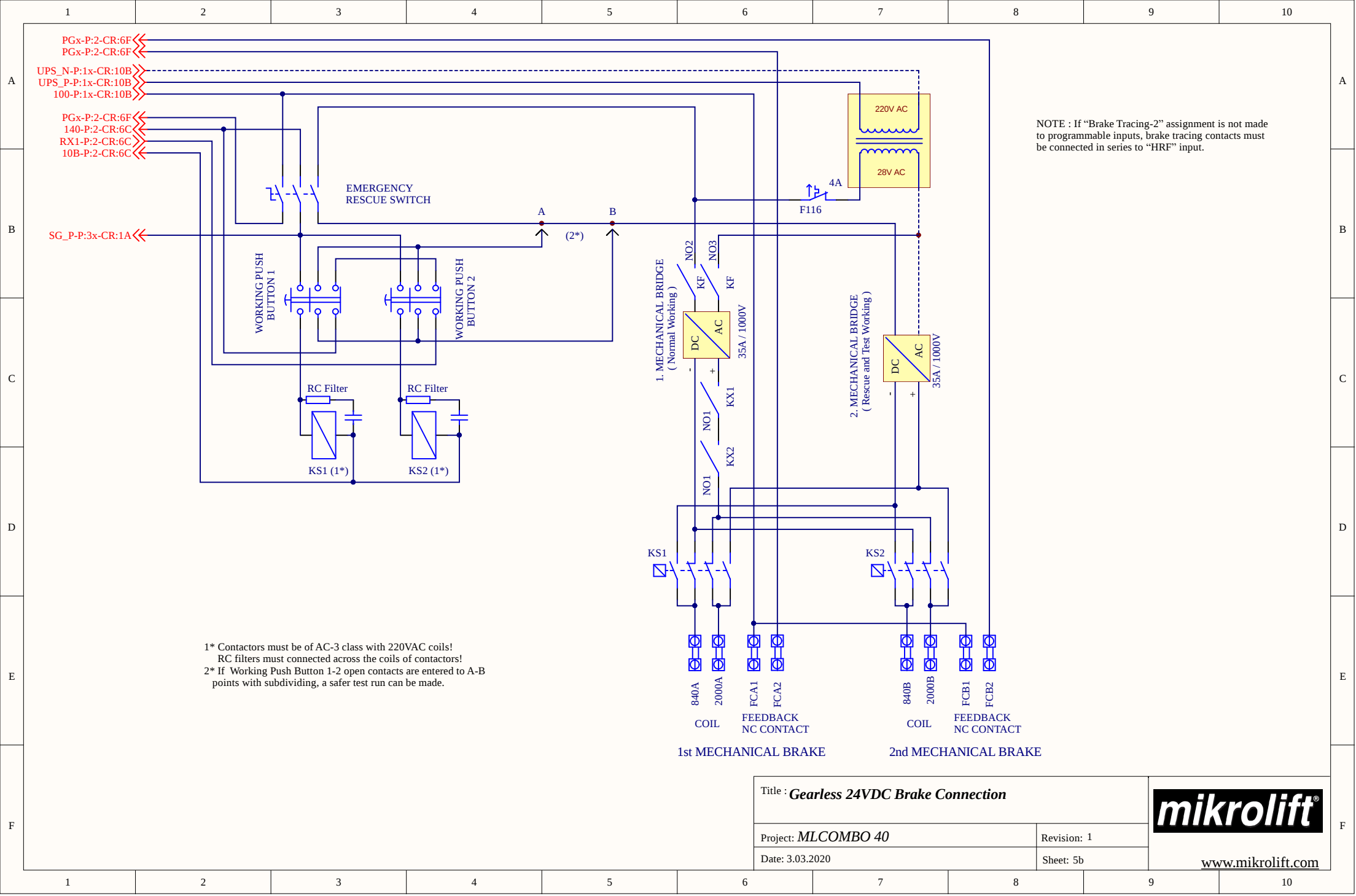
Bağlantı İsmi
Connection Name

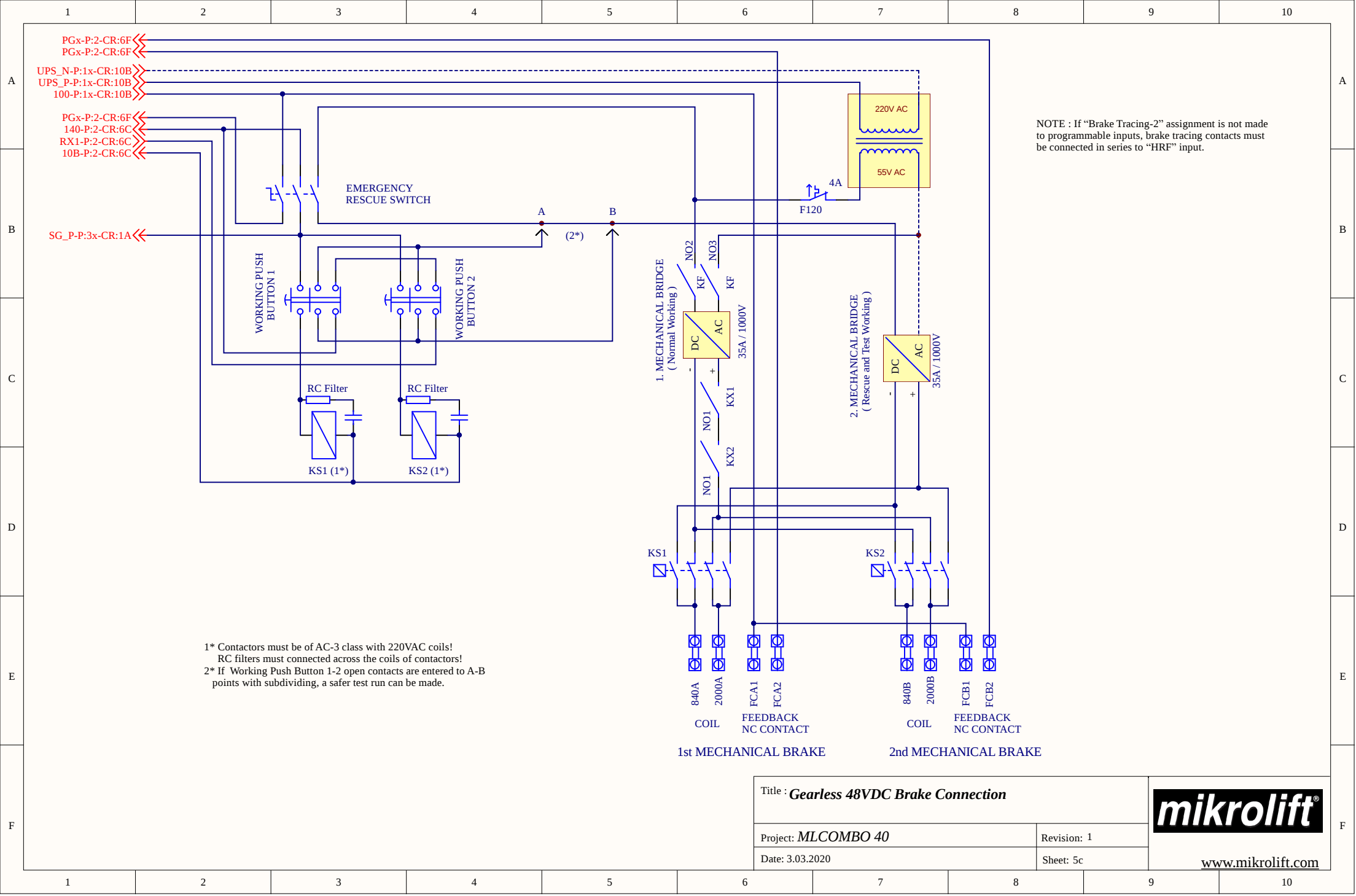
Sutun Satır Koordinatı
Column Row Coordinate

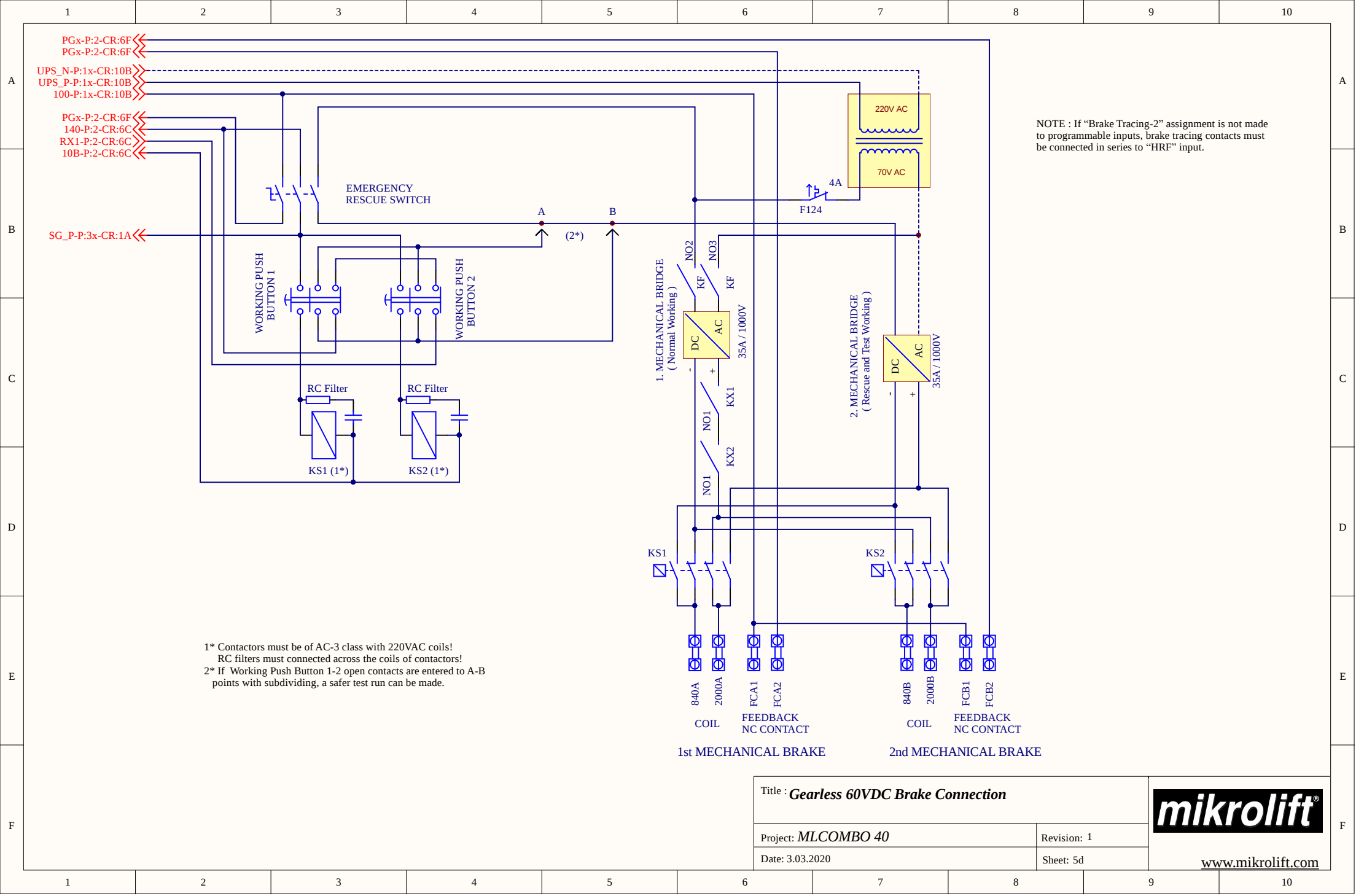
Sayfa Numarası
Page Number

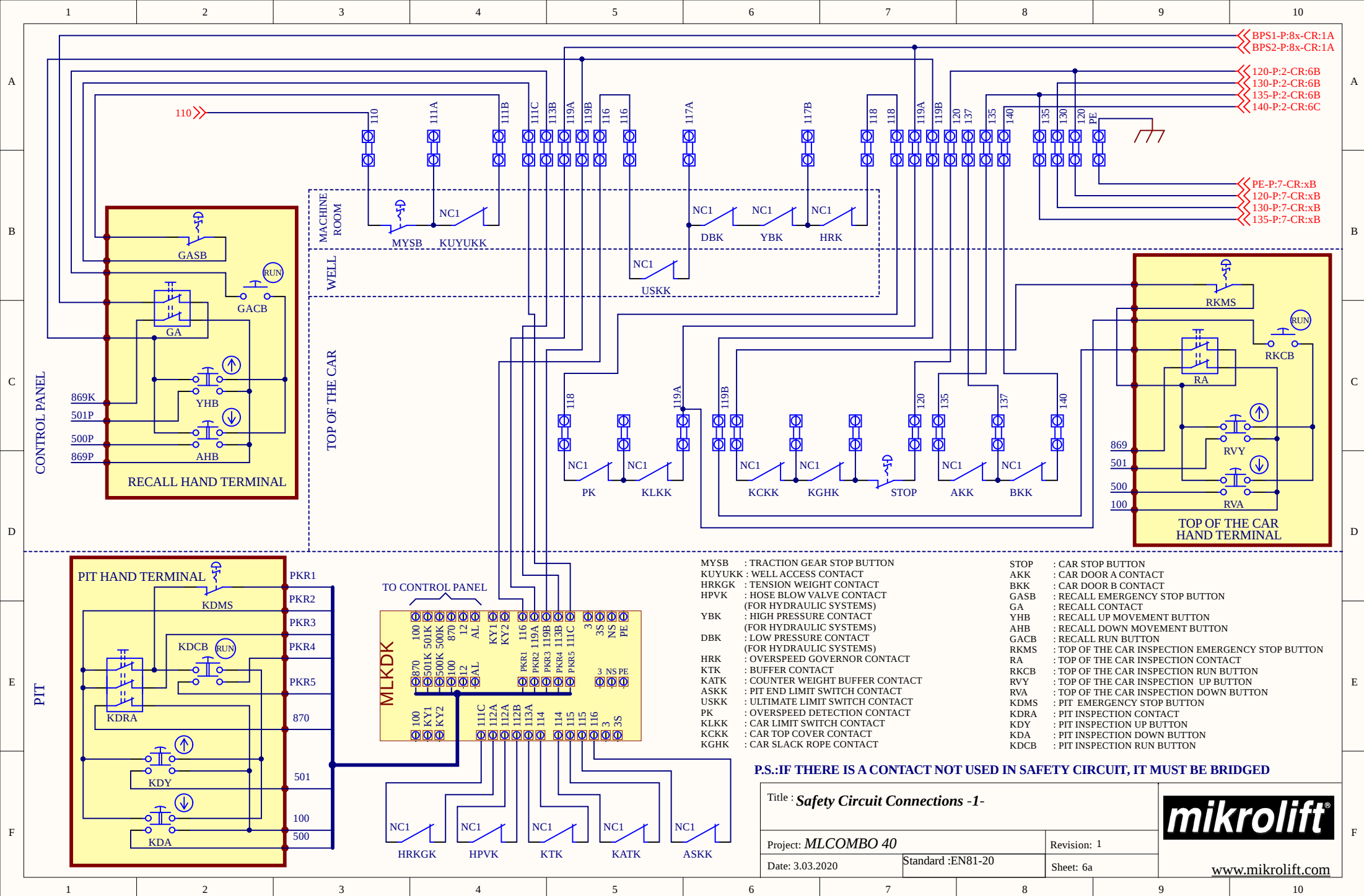
Title : Contactor Connection For Gearless Machine (UPS Rescue)		 www.mikrolift.com
Project: MLCOMBO 40	Revision: 1	
Date: 3.03.2020	Sheet: 4d	

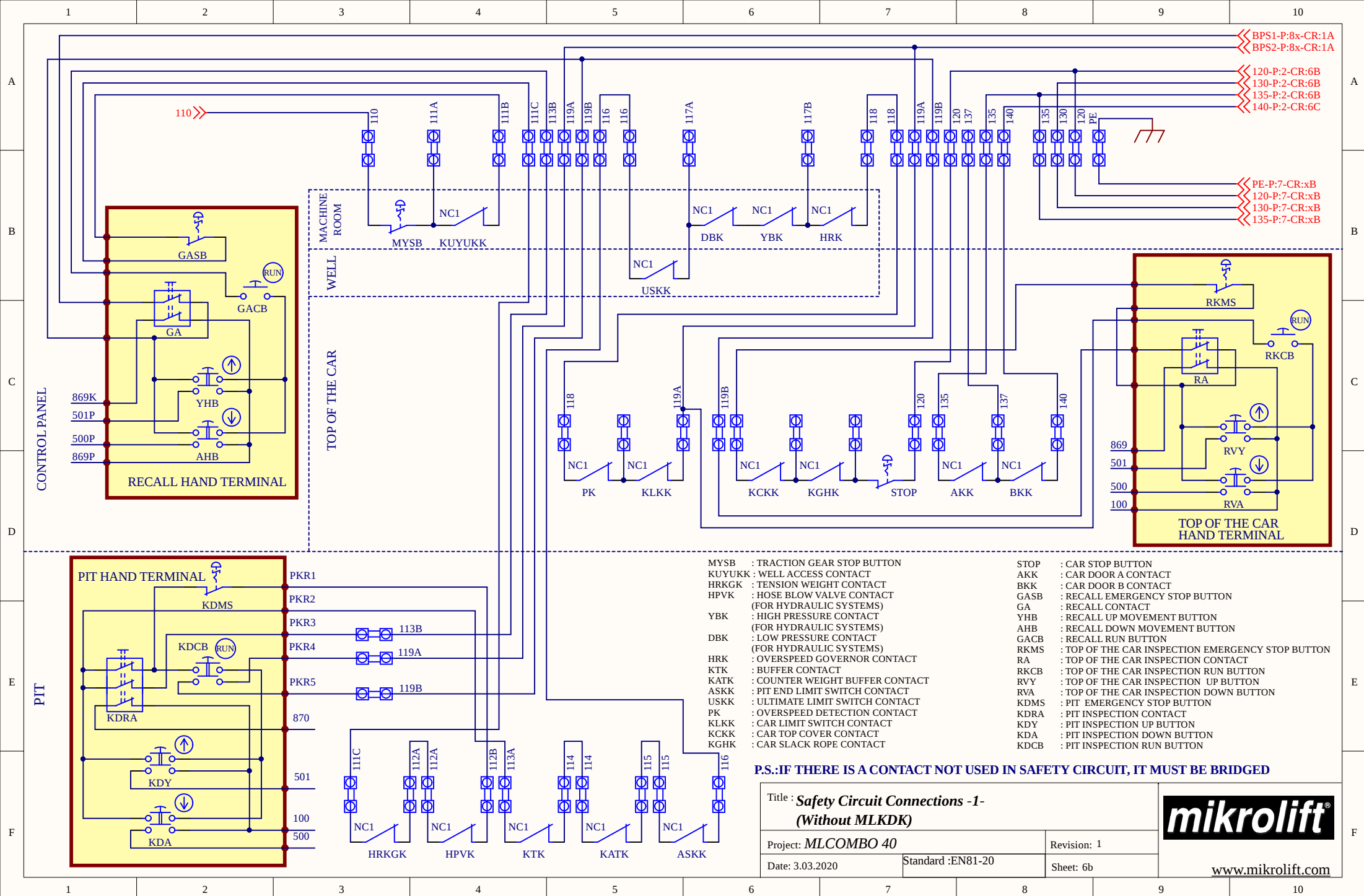












DOOR SOCKET AND LOCK SWITCHES CONNECTIONS

FULL AUTOMATIC

ONLY CAR DOOR AUTOMATIC

CONTROL PANEL

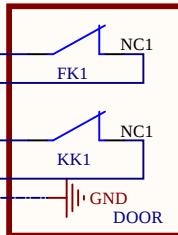
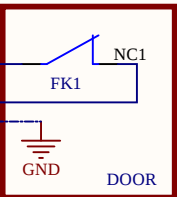
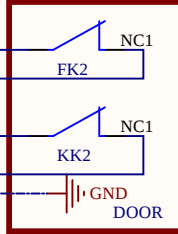
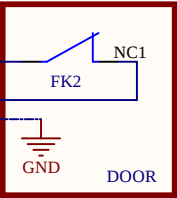
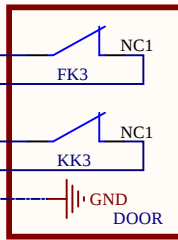
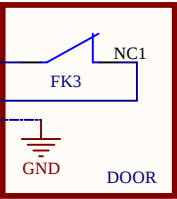
FLOOR 2

FLOOR 1

FLOOR 0

135-P:6x-CR:10B
130-P:6x-CR:10B
120-P:6x-CR:10B
PE-P:6x-CR:10B

135-P:6x-CR:10B
130-P:6x-CR:10B
120-P:6x-CR:10B
PE-P:6x-CR:10B



FKx : DOOR SOCKET SWITCHES
KKx : DOOR LOCK SWITCHES

Title : **Safety Circuit Connections -2-**

Project: **MLCOMBO 40**

Revision: 1

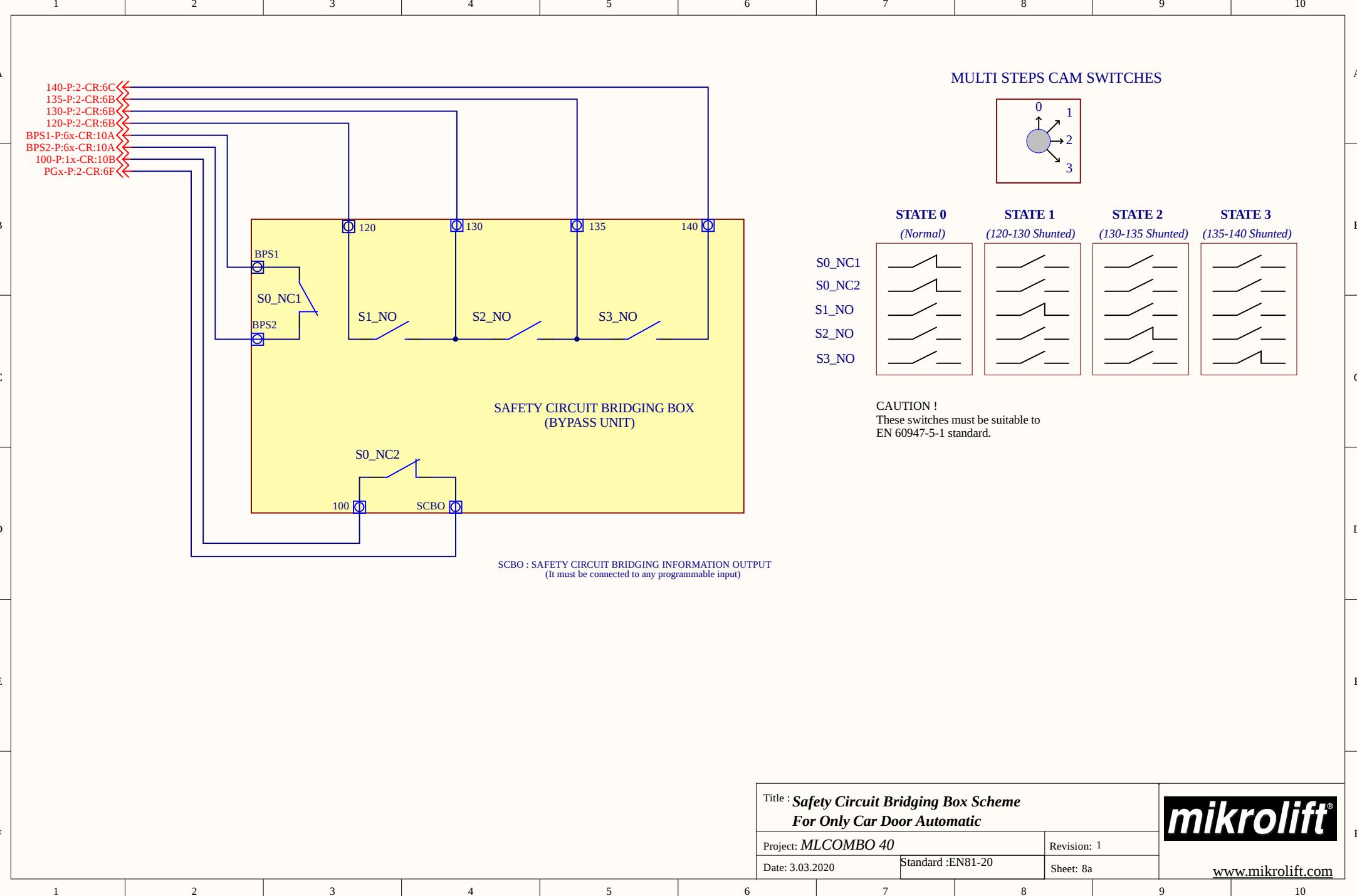
Date: 3.03.2020

Standard :EN81-20

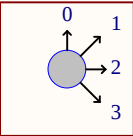
Sheet: 7



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MULTI STEPS CAM SWITCHES



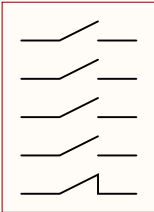
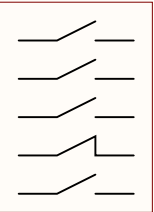
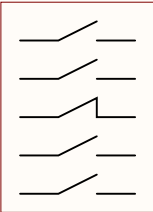
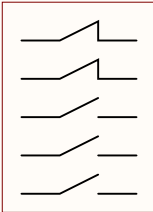
STATE 0
(Normal)

STATE 1
(120-130 Shunted)

STATE 2
(130-135 Shunted)

STATE 3
(135-140 Shunted)

S0_NC1
S0_NC2
S1_NO
S2_NO
S3_NO



CAUTION !
These switches must be suitable to
EN 60947-5-1 standard.

Title : **Safety Circuit Bridging Box Scheme**
For Only Car Door Automatic

Project: **MLCOMBO 40**

Revision: 1

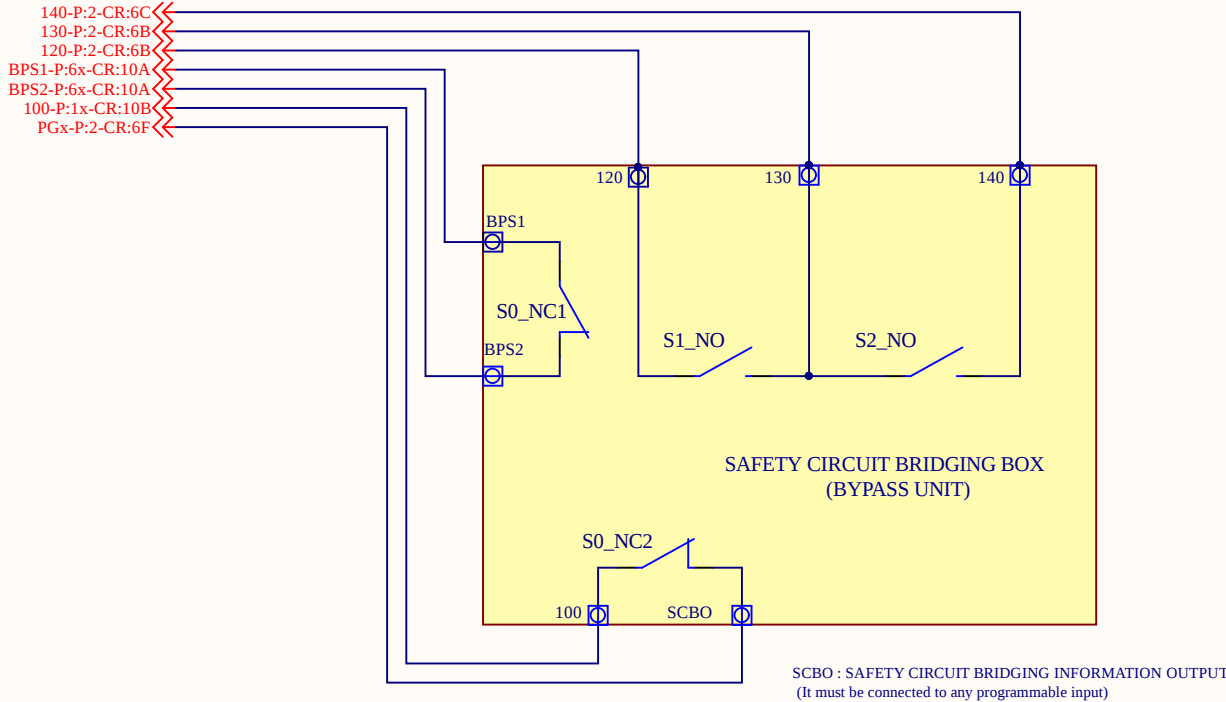
Date: 3.03.2020

Standard :EN81-20

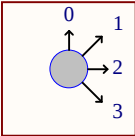
Sheet: 8a

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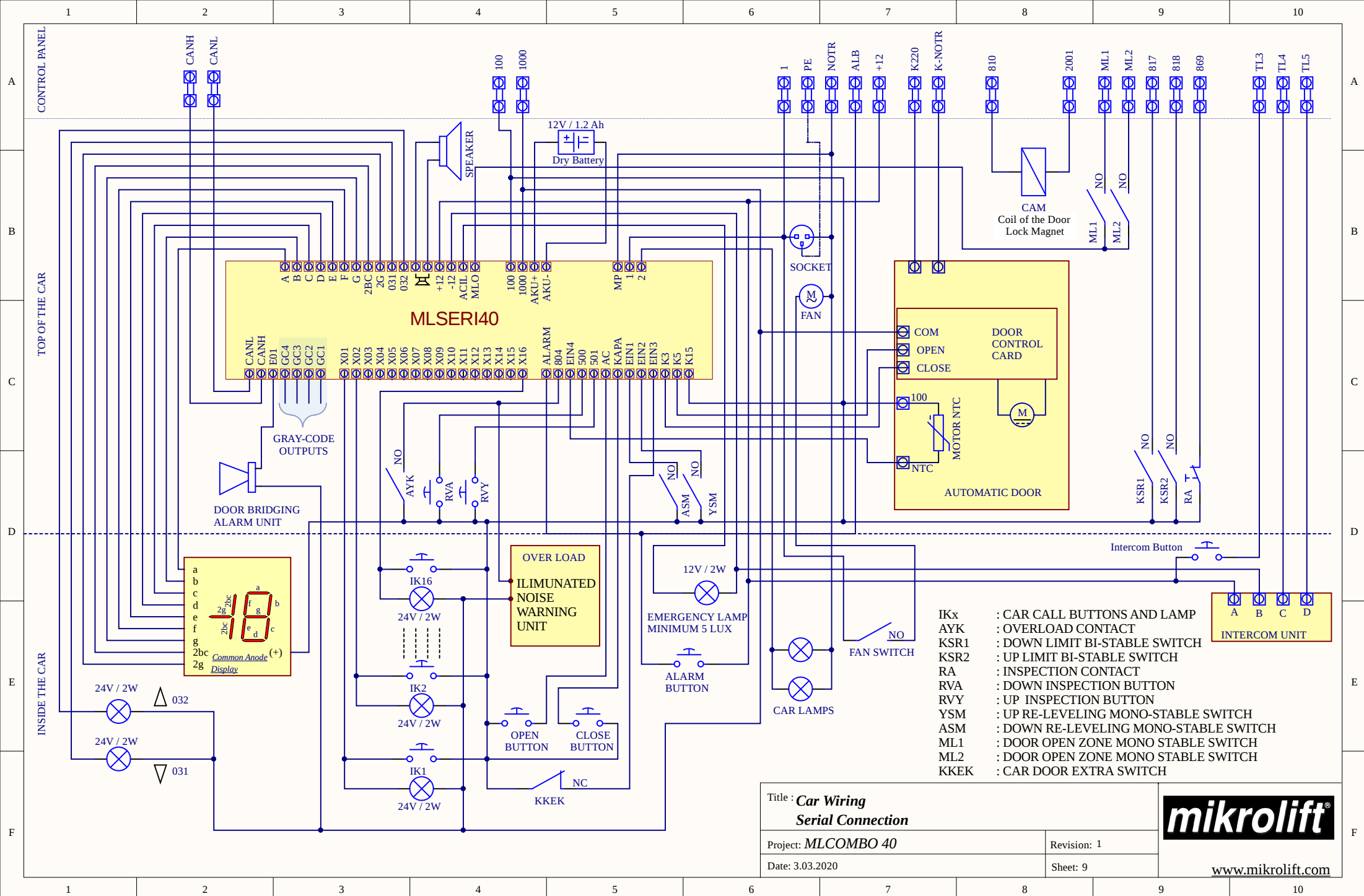


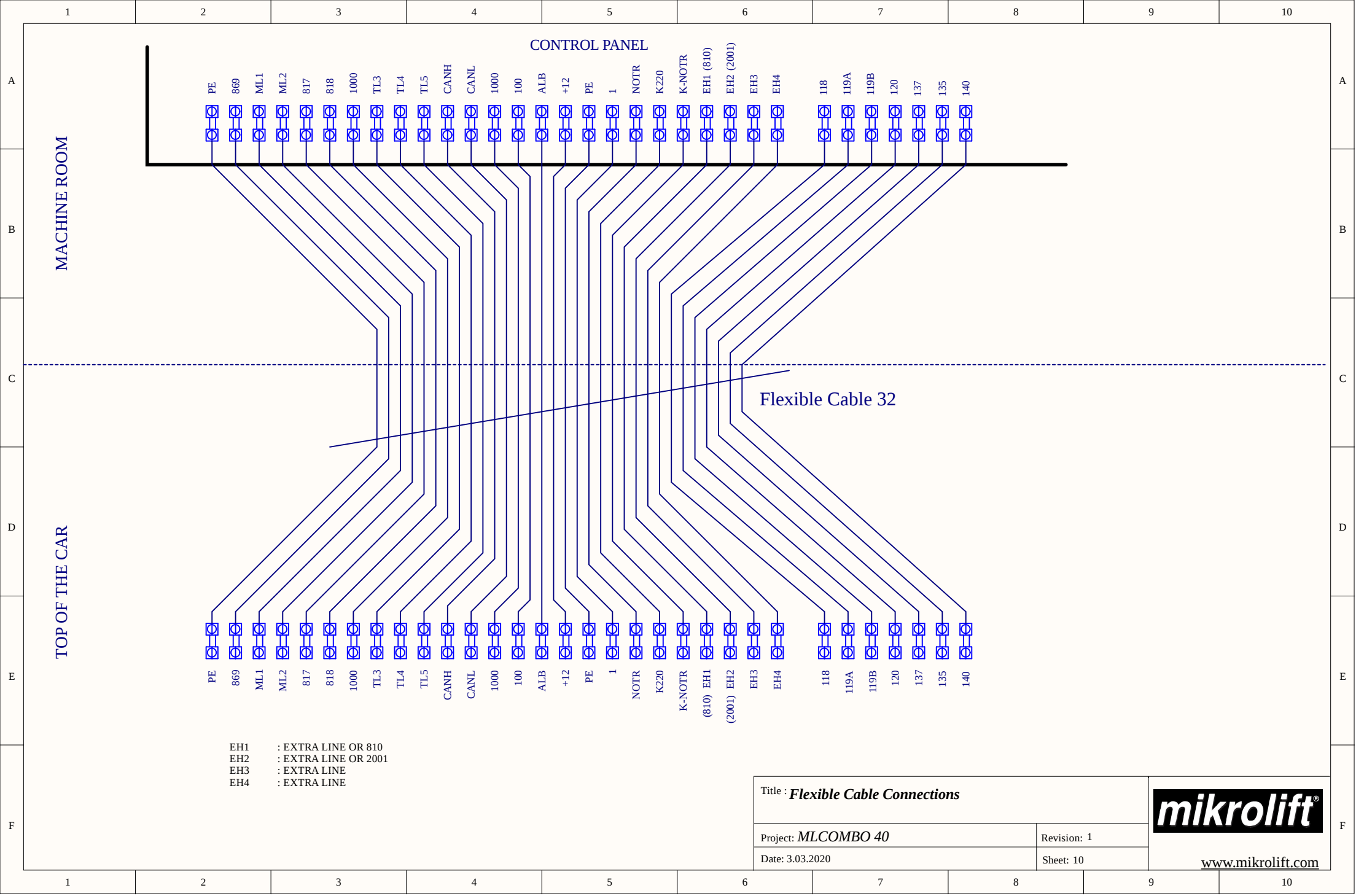
MULTI STEPS CAM SWITCHES

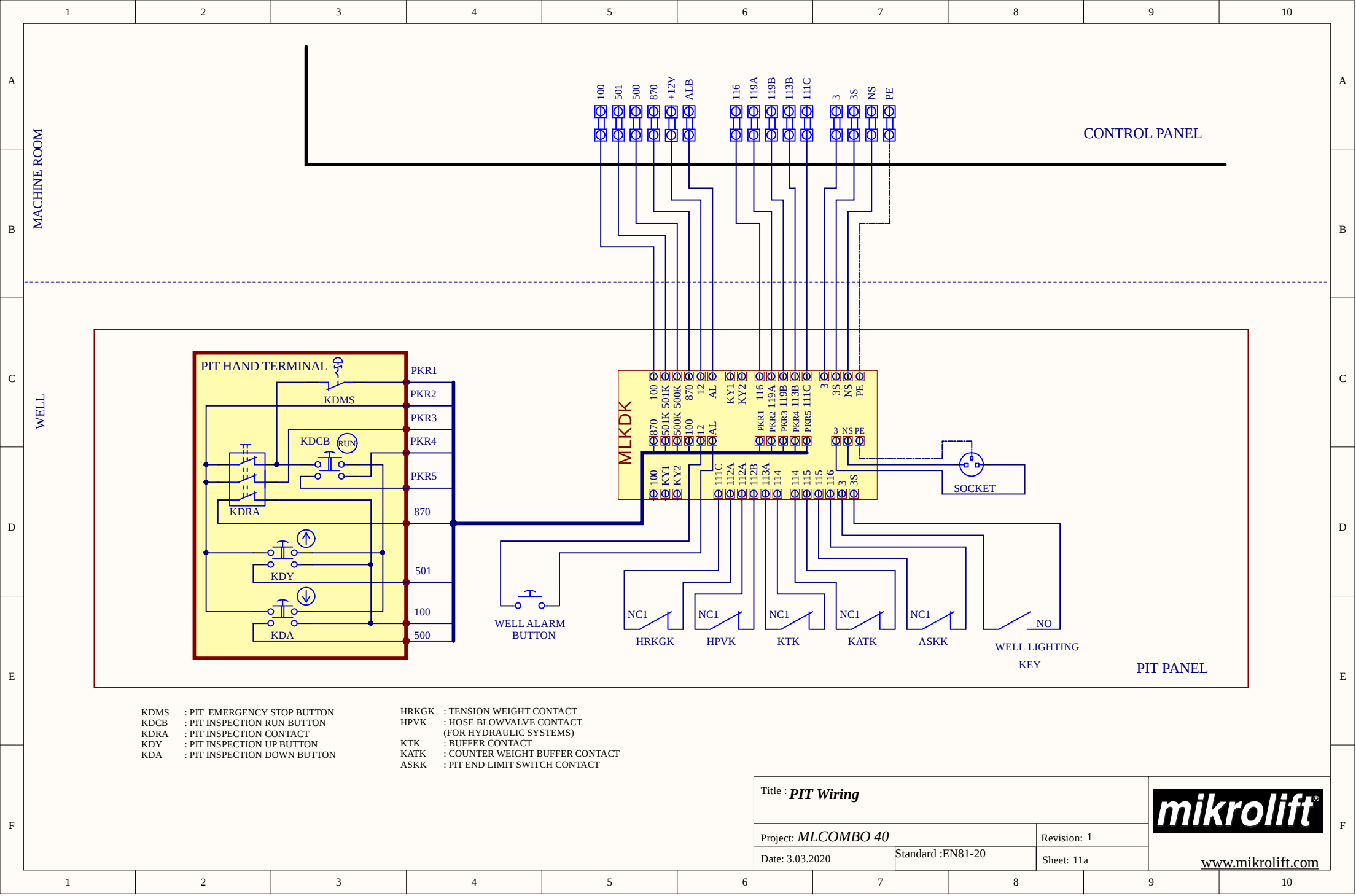


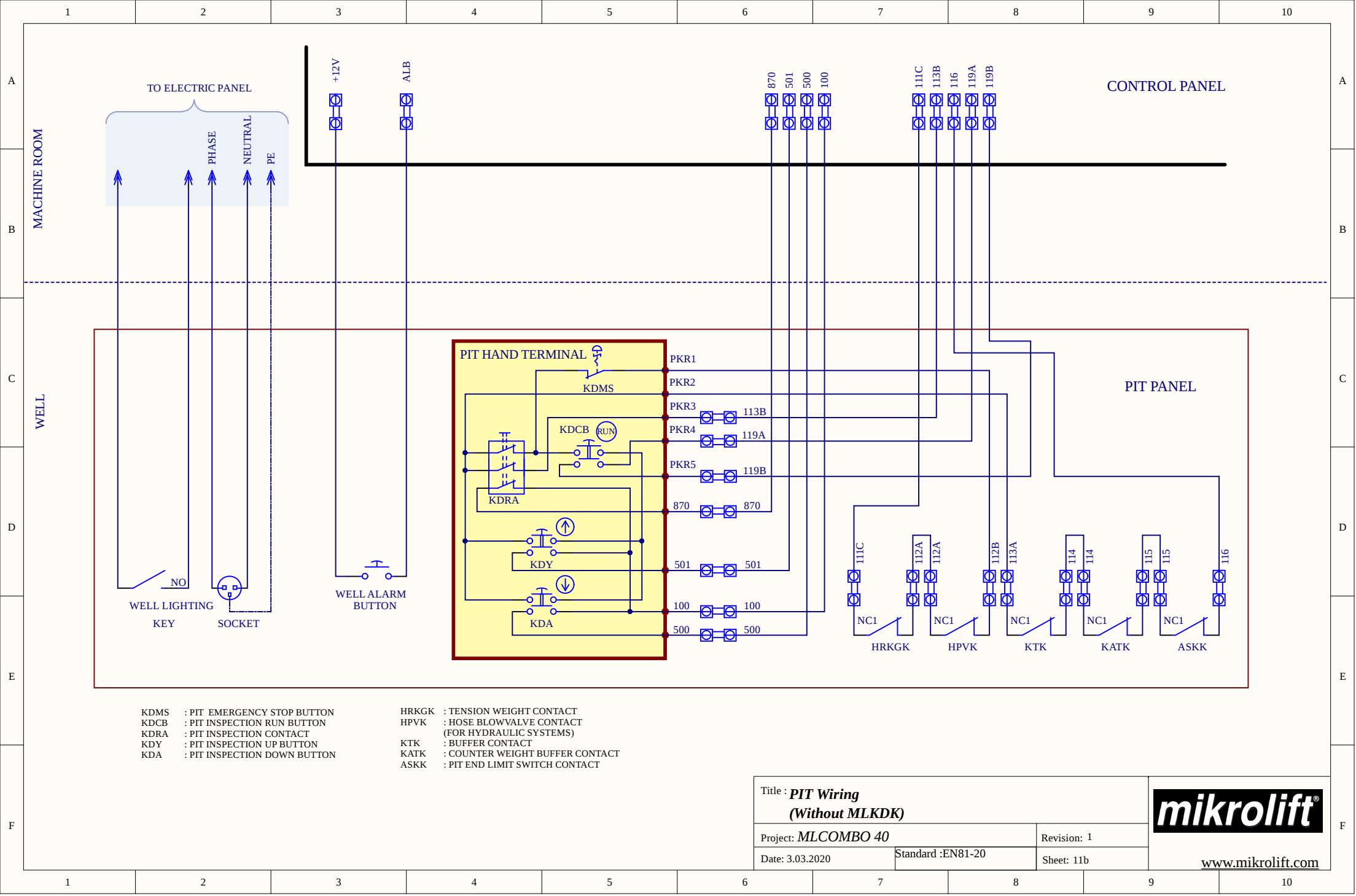
	STATE 0 (Normal)	STATE 1 (120-130 Shunted)	STATE 2 (130-140 Shunted)	STATE 3 (Not Used)
S0_NC1				
S0_NC2				
S1_NO				
S2_NO				
S3_NO				

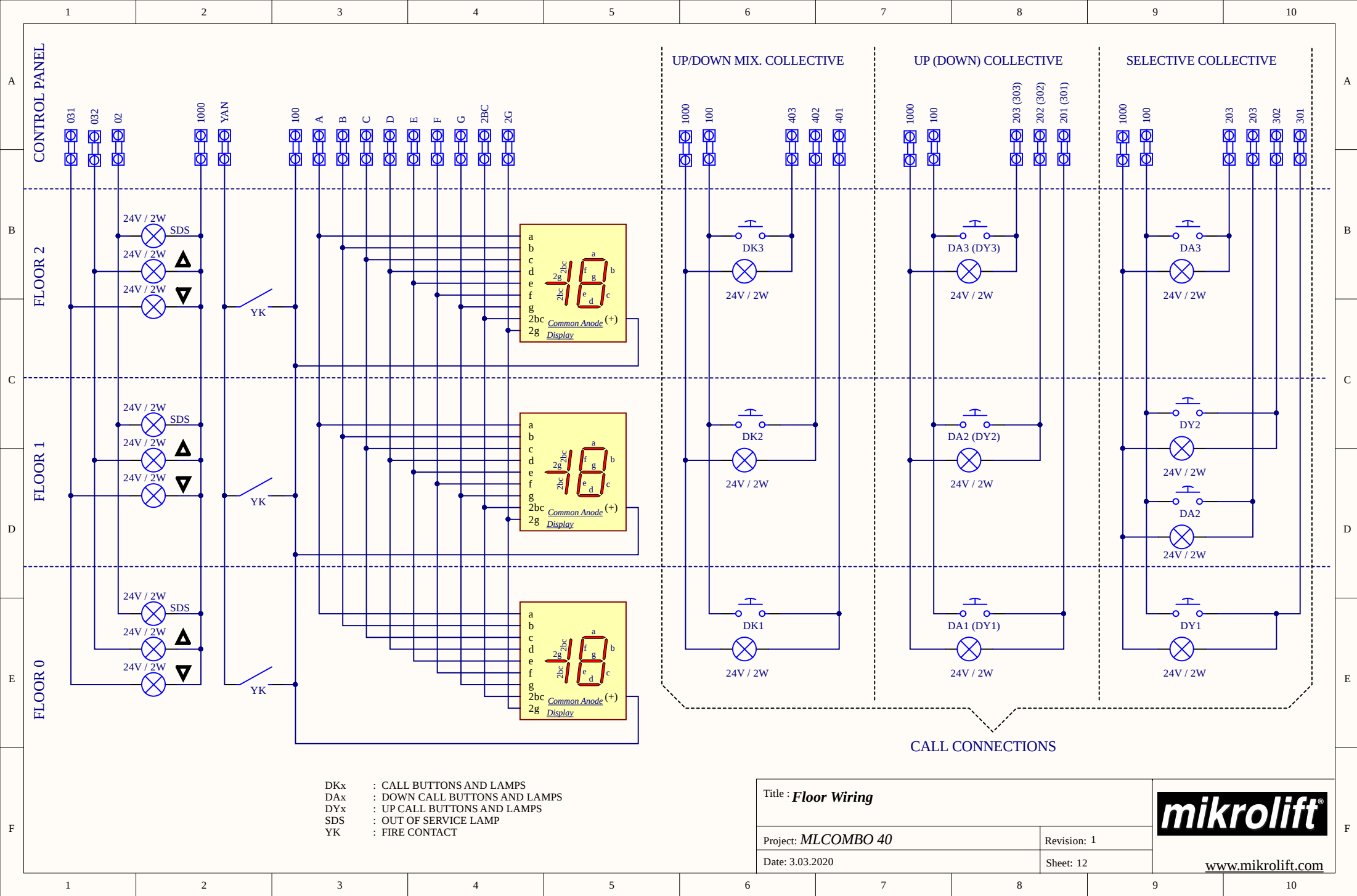
CAUTION !
These switches must be suitable to
EN 60947-5-1 standard.











1	2	3	4	5	6	7	8	9	10						
			CALL TERMINALS AT MLKLM40 BOARD				CALL TERMINALS AT 1st MLINT65 BOARD				CALL TERMINALS AT 2nd MLINT65 BOARD				
			X01 X02 X03 X04 X05 X06 X07 X08 X09 X10 X11 X12 X13 X14 X15 X16	X01 X02 X03 X04 X05 X06 X07 X08 X09 X10 X11 X12 X13 X14 X15 X16	X01 X02 X03 X04 X05 X06 X07 X08 X09 X10 X11 X12 X13 X14 X15 X16	X01 X02 X03 X04 X05 X06 X07 X08 X09 X10 X11 X12 X13 X14 X15 X16	X01 X02 X03 X04 X05 X06 X07 X08 X09 X10 X11 X12 X13 X14 X15 X16								
UP / DOWN MIX COLLECTIVE (2 - 16 FLOORS)			401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416	NOT USED				NOT USED							
UP / DOWN MIX COLLECTIVE (17 - 24 FLOORS)			401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416	417 418 419 420 421 422 423 424				NOT USED							
DOWN COLLECTIVE (2 - 8 FLOORS)			401 402 403 404 405 406 407 408 201 202 203 204 205 206 207 208	NOT USED				NOT USED							
DOWN COLLECTIVE (9 - 16 FLOORS)			201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216	401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416				NOT USED							
DOWN COLLECTIVE (17 - 24 FLOORS)			201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216	401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416				217 218 219 220 221 222 223 224 417 418 419 420 421 422 423 424							
UP COLLECTIVE (2 - 8 FLOORS)			401 402 403 404 405 406 407 408 301 302 303 304 305 306 307 308	NOT USED				NOT USED							
UP COLLECTIVE (9 - 16 FLOORS)			301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316	401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416				NOT USED							
UP COLLECTIVE (17 - 24 FLOORS)			301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316	401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416				317 318 319 320 321 322 323 324 417 418 419 420 421 422 423 424							
SELECTIVE COLLECTIVE (2 - 6 FLOORS)			401 402 403 404 405 406 301 302 303 304 305 202 203 204 205 206	NOT USED				NOT USED							
SELECTIVE COLLECTIVE (7 - 9 FLOORS)			301 302 303 304 305 306 307 308 202 203 204 205 206 207 208 209	401 402 403 404 405 406 407 408 409				NOT USED							
SELECTIVE COLLECTIVE (10 - 16 FLOORS)			301 302 303 304 305 306 307 308 309 310 311 312 313 314 315	401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416				202 203 204 205 206 207 208 209 210 211 212 213 214 215 216							
						Title : Call Definitions For Parallel Connection				 www.mikrolift.com					
						Project: MLCOMBO 40								Revision: 1	
						Date: 3.03.2020								Sheet: 13a	
1	2	3	4	5	6	7	8	9	10						

		1	2		3		4		5		6		7		8		9		10																																								
A	CONTROL PANEL		CALL TERMINALS AT MLKLM40 BOARD																CALL TERMINALS AT 1st MLINT65 BOARD																CALL TERMINALS AT 2nd MLINT65 BOARD																								
			X01	X02	X03	X04	X05	X06	X07	X08	X09	X10	X11	X12	X13	X14	X15	X16	X01	X02	X03	X04	X05	X06	X07	X08	X09	X10	X11	X12	X13	X14	X15	X16	X01	X02	X03	X04	X05	X06	X07	X08	X09	X10	X11	X12	X13	X14	X15	X16									
		UP / DOWN MIX COLLECTIVE (2 - 16 FLOORS)	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	NOT USED																NOT USED																								
		UP / DOWN MIX COLLECTIVE (17 - 24 FLOORS)	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	NOT USED																																
		DOWN COLLECTIVE (2 - 16 FLOORS)	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	NOT USED																NOT USED																								
		DOWN COLLECTIVE (17 - 24 FLOORS)	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	NOT USED																																
		UP COLLECTIVE (2 - 16 FLOORS)	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	NOT USED																NOT USED																								
		UP COLLECTIVE (17 - 24 FLOORS)	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	NOT USED																																
		SELECTIVE COLLECTIVE (2 - 9 FLOORS)	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	NOT USED																NOT USED																								
		SELECTIVE COLLECTIVE (10 -16 FLOORS)	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	NOT USED																									
B	CONTROL PANEL	SELECTIVE COLLECTIVE (17 - 24 FLOORS)	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	317	318	319	320	321	322	323	217	218	219	220	221	222	223	224											

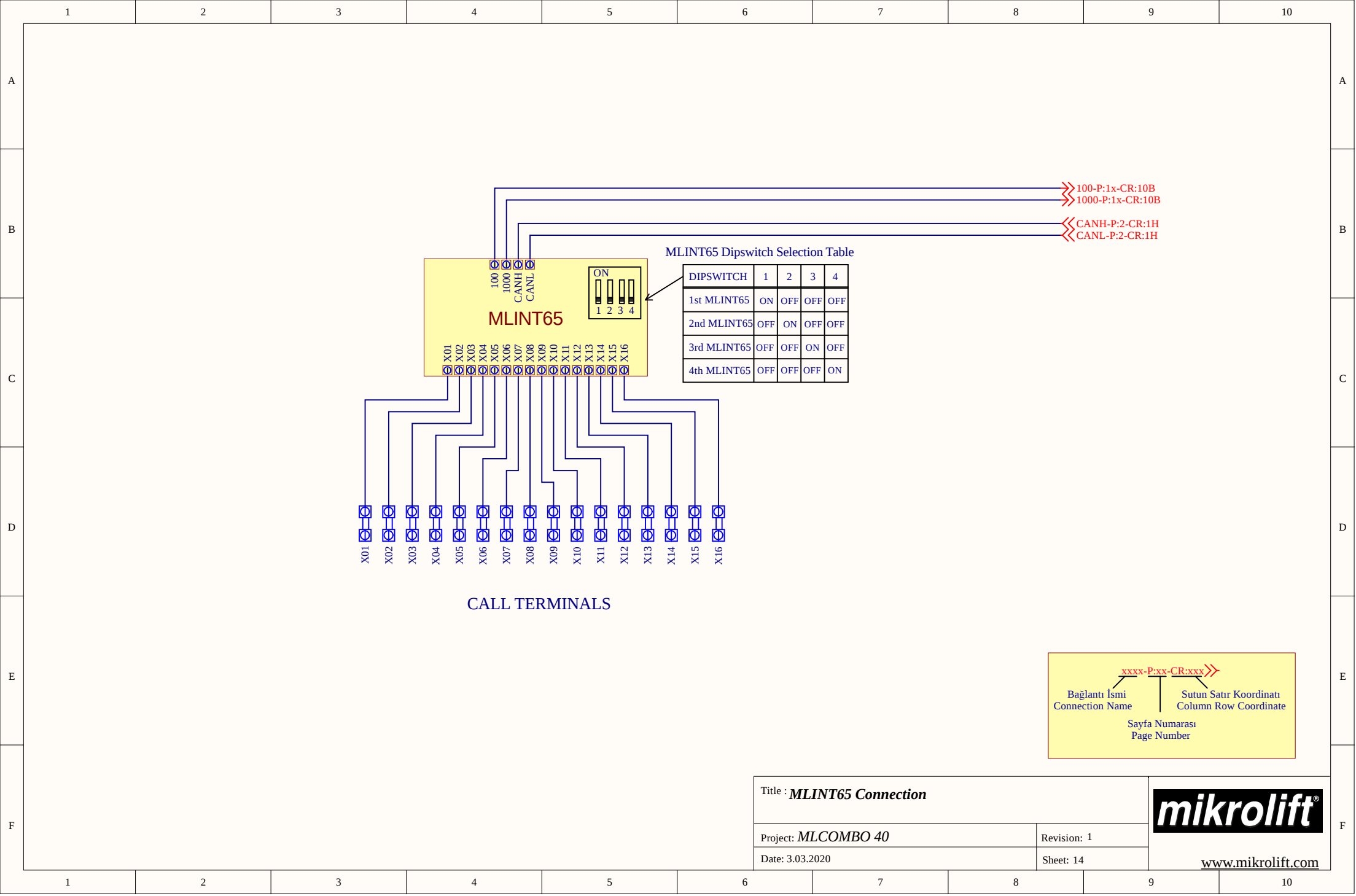
			CALL TERMINALS AT SERI40 BOARD																CALL TERMINALS AT 3rd MLINT65 BOARD																																								
			X01	X02	X03	X04	X05	X06	X07	X08	X09	X10	X11	X12	X13	X14	X15	X16	X01	X02	X03	X04	X05	X06	X07	X08	X09	X10	X11	X12	X13	X14	X15	X16																									
		UP / DOWN MIX COLLECTIVE (2 - 16 FLOORS)	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	NOT USED																																								
		UP / DOWN MIX COLLECTIVE (17 - 24 FLOORS)	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424																																	
		DOWN COLLECTIVE (2 - 16 FLOORS)	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	NOT USED																																								
		DOWN COLLECTIVE (17 - 24 FLOORS)	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424																																	
		UP COLLECTIVE (2 - 16 FLOORS)	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	NOT USED																																								
		UP COLLECTIVE (17 - 24 FLOORS)	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424																																	
C	CONTROL PANEL	SELECTIVE COLLECTIVE (2 - 9 FLOORS)	401	402	403	404	405	406	407	408	409																	NOT USED																															
		SELECTIVE COLLECTIVE (10 -16 FLOORS)	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	NOT USED																																								
		SELECTIVE COLLECTIVE (17 - 24 FLOORS)	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424																																	

			CALL TERMINALS AT SERI40 BOARD																CALL TERMINALS AT 3rd MLINT65 BOARD																																								
			X01	X02	X03	X04	X05	X06	X07	X08	X09	X10	X11	X12	X13	X14	X15	X16	X01	X02	X03	X04	X05	X06	X07	X08	X09	X10	X11	X12	X13	X14	X15	X16																									
		UP / DOWN MIX COLLECTIVE (2 - 16 FLOORS)	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	NOT USED																																								
		UP / DOWN MIX COLLECTIVE (17 - 24 FLOORS)	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424																																	
		DOWN COLLECTIVE (2 - 16 FLOORS)	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	NOT USED																																								
		DOWN COLLECTIVE (17 - 24 FLOORS)	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424																																	
D	TOP OF THE CAR	UP COLLECTIVE (2 - 16 FLOORS)	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	NOT USED																																								
		UP COLLECTIVE (17 - 24 FLOORS)	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424																																	
		SELECTIVE COLLECTIVE (2 - 9 FLOORS)	401	402	403	404	405	406	407	408	409																	NOT USED																															
		SELECTIVE COLLECTIVE (10 -16 FLOORS)	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	NOT USED																																								
		SELECTIVE COLLECTIVE (17 - 24 FLOORS)	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424																																	

			CALL TERMINALS AT SERI40 BOARD																CALL TERMINALS AT 3rd MLINT65 BOARD																																								
			X01	X02	X03	X04	X05	X06	X07	X08	X09	X10	X11	X12	X13	X14	X15	X16	X01	X02	X03	X04	X05	X06	X07	X08	X09	X10	X11	X12	X13	X14	X15	X16																									
		UP / DOWN MIX COLLECTIVE (2 - 16 FLOORS)	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	NOT USED																																								
		UP / DOWN MIX COLLECTIVE (17 - 24 FLOORS)	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424																																	
E	TOP OF THE CAR	DOWN COLLECTIVE (2 - 16 FLOORS)	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	NOT USED																																								
		DOWN COLLECTIVE (17 - 24 FLOORS)	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424																																	
		UP COLLECTIVE (2 - 16 FLOORS)	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	NOT USED																																								
		UP COLLECTIVE (17 - 24 FLOORS)	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424																																	
		SELECTIVE COLLECTIVE (2 - 9 FLOORS)	401	402	403	404	405	406	407	408	409																	NOT USED																															
		SELECTIVE COLLECTIVE (10 -16 FLOORS)	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	NOT USED																																								
		SELECTIVE COLLECTIVE (17 - 24 FLOORS)	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424																																	

			CALL TERMINALS AT SERI40 BOARD																CALL TERMINALS AT 3rd MLINT65 BOARD																																								
			X01	X02	X03	X04	X05	X06	X07	X08	X09	X10	X11	X12	X13	X14	X15	X16	X01	X02	X03	X04	X05	X06	X07	X08	X09	X10	X11	X12	X13	X14	X15	X16																									
F	TOP OF THE CAR	UP / DOWN MIX COLLECTIVE (2 - 16 FLOORS)	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	NOT USED																																								
		UP / DOWN MIX COLLECTIVE (17 - 24 FLOORS)	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424																																	
		DOWN COLLECTIVE (2 - 16 FLOORS)	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	NOT USED																																								
		DOWN COLLECTIVE (17 - 24 FLOORS)	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424																																	
		UP COLLECTIVE (2 - 16 FLOORS)	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	NOT USED																																								
		UP COLLECTIVE (17 - 24 FLOORS)	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424																																	
		SELECTIVE COLLECTIVE (2 - 9 FLOORS)	401	402	403	404	405	406	407	408	409																	NOT USED																															
		SELECTIVE COLLECTIVE (10 -16 FLOORS)	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	NOT USED																																								
		SELECTIVE COLLECTIVE (17 - 24 FLOORS)	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424																																	

																Title : Call Definitions For Serial Connection																																											
																Project: MLCOMBO 40																Revision: 1																											
																Date: 3.03.2020																Sheet: 13b																											
																																																											
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Title : **MLINT65 Connection**

Project: **MLCOMBO 40**

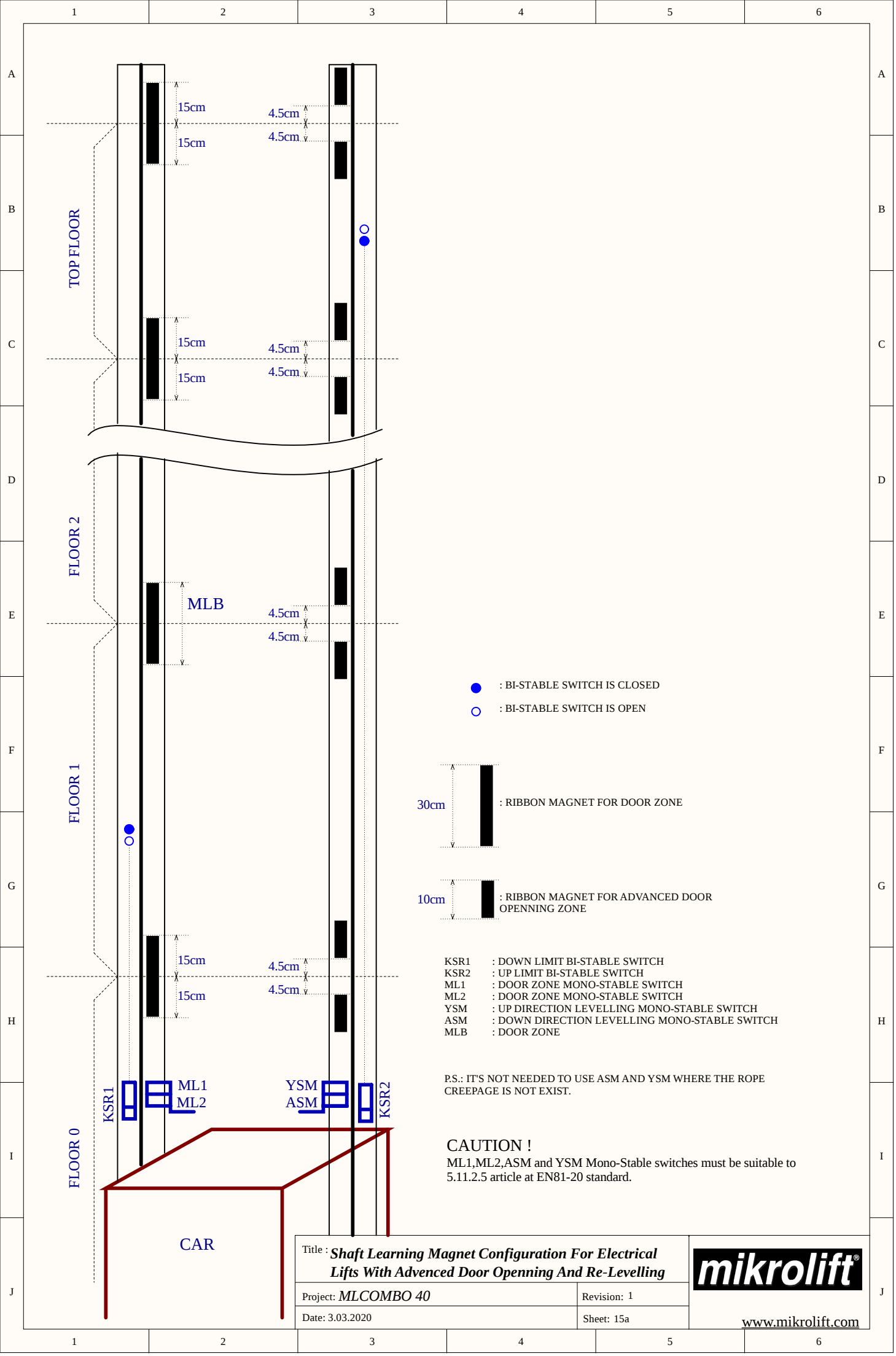
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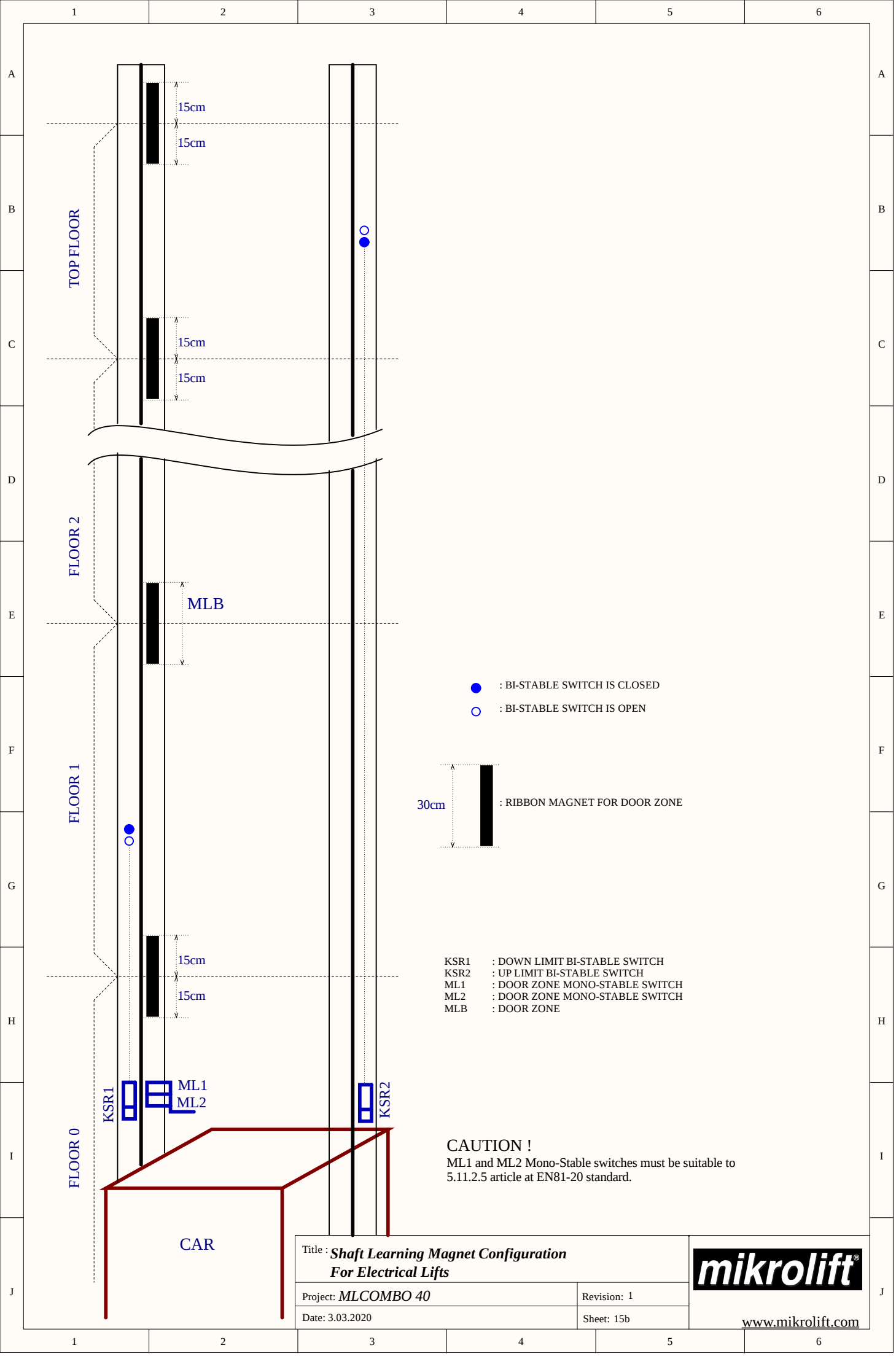
Revision: 1

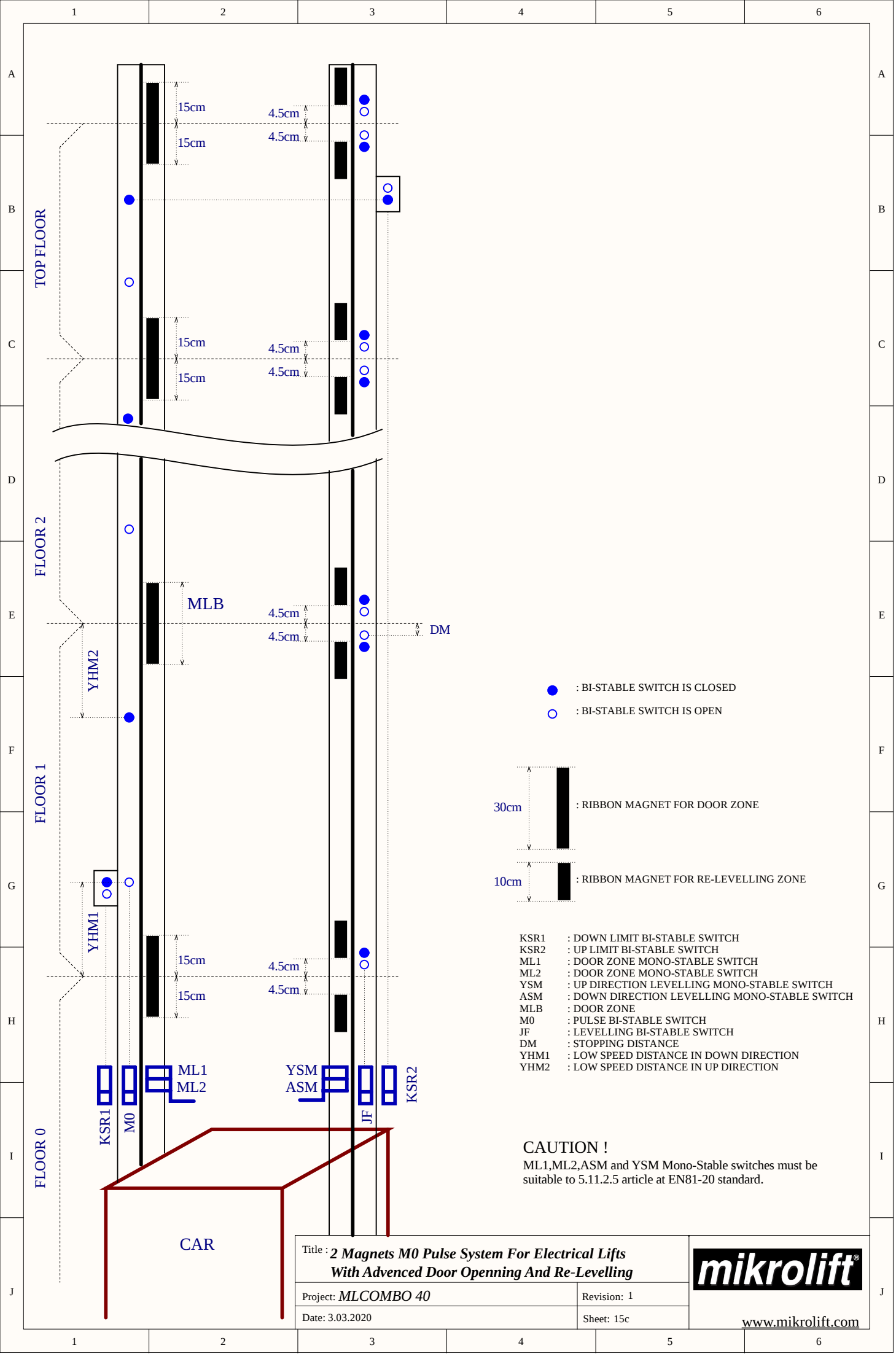
Sheet: 14

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1000-P:1x-CR:10B>>
ML1-P:2-CR:1H>>
ML2-P:2-CR:1H>>

MLKTA

+12V
1000
ML1
ML2
L-
L+

12V 1W (MAX)
AT FLOOR LEVEL LIGHT

xxxx-P:xx-CR:xxx>>
Bağlantı İsmi
Connection Name
Sayfa Numarası
Page Number
Sutun Satır Koordinatı
Column Row Coordinate

Title : **MLKTA (car is on exact floor level card)**
inside panel connection

Project: **MLCOMBO 40**

Revision: 1

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