

1 2 3 4 5 6 7 8 9 10

A

B

MLCOMBO 50

CONTROL PANEL CONNECTION, PIT AND FLOOR WIRING SCHEMES

C

D

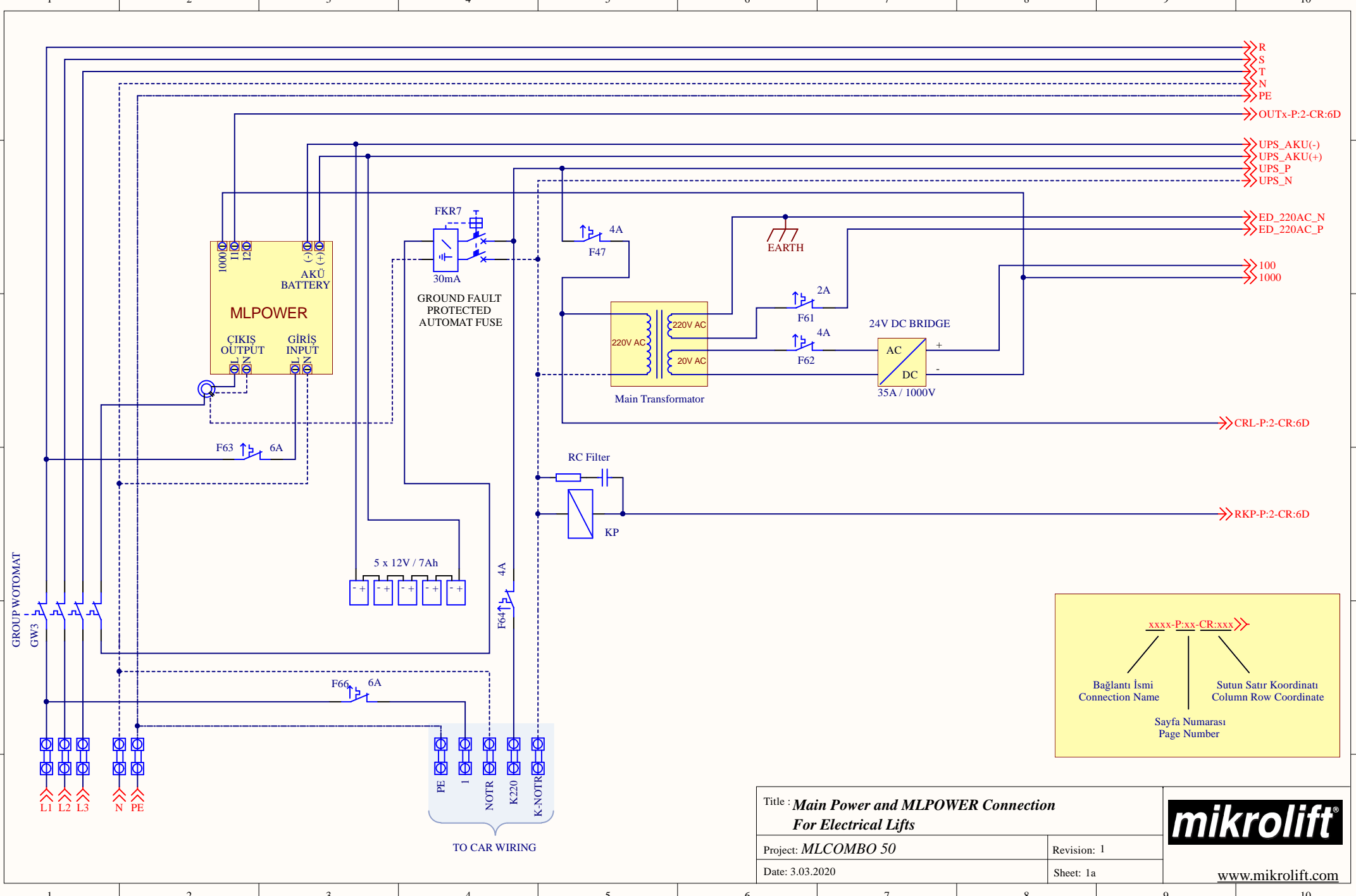
Version : 1.05
Standard : EN81-20
Date of Update : 3.03.2020

E

F

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.

1 2 3 4 5 6 7 8 9 10



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

Project: **MLCOMBO 50**

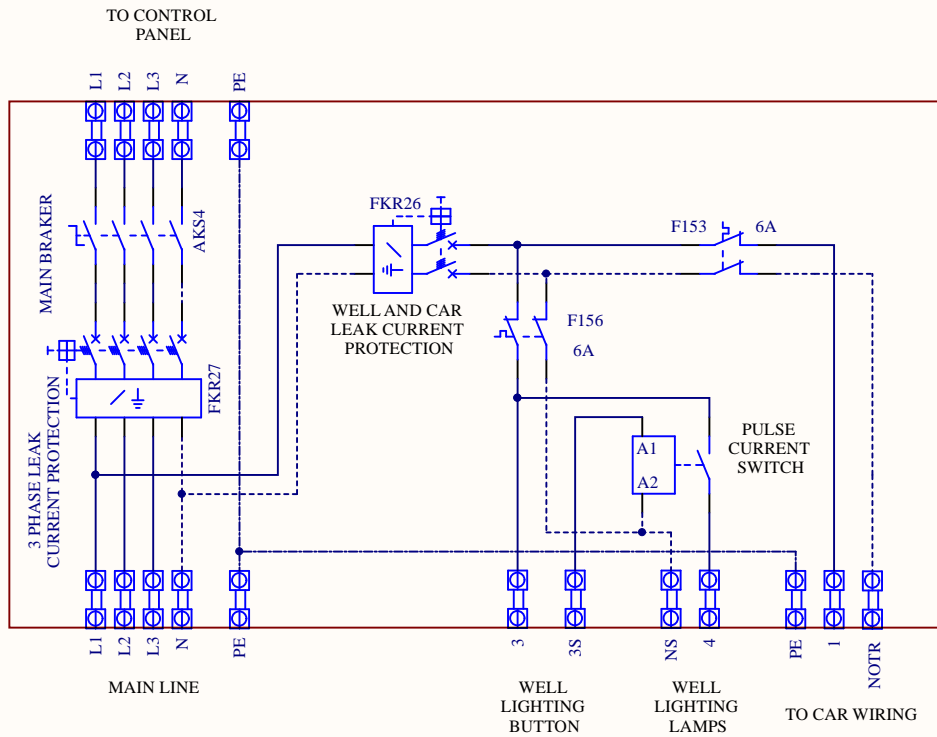
Date: 3.03.2020

Revision: 1

Sheet: 1a



www.mikrolift.com



Title : **Machine Room Electrical Panel**

Project : **MLCOMBO 50**

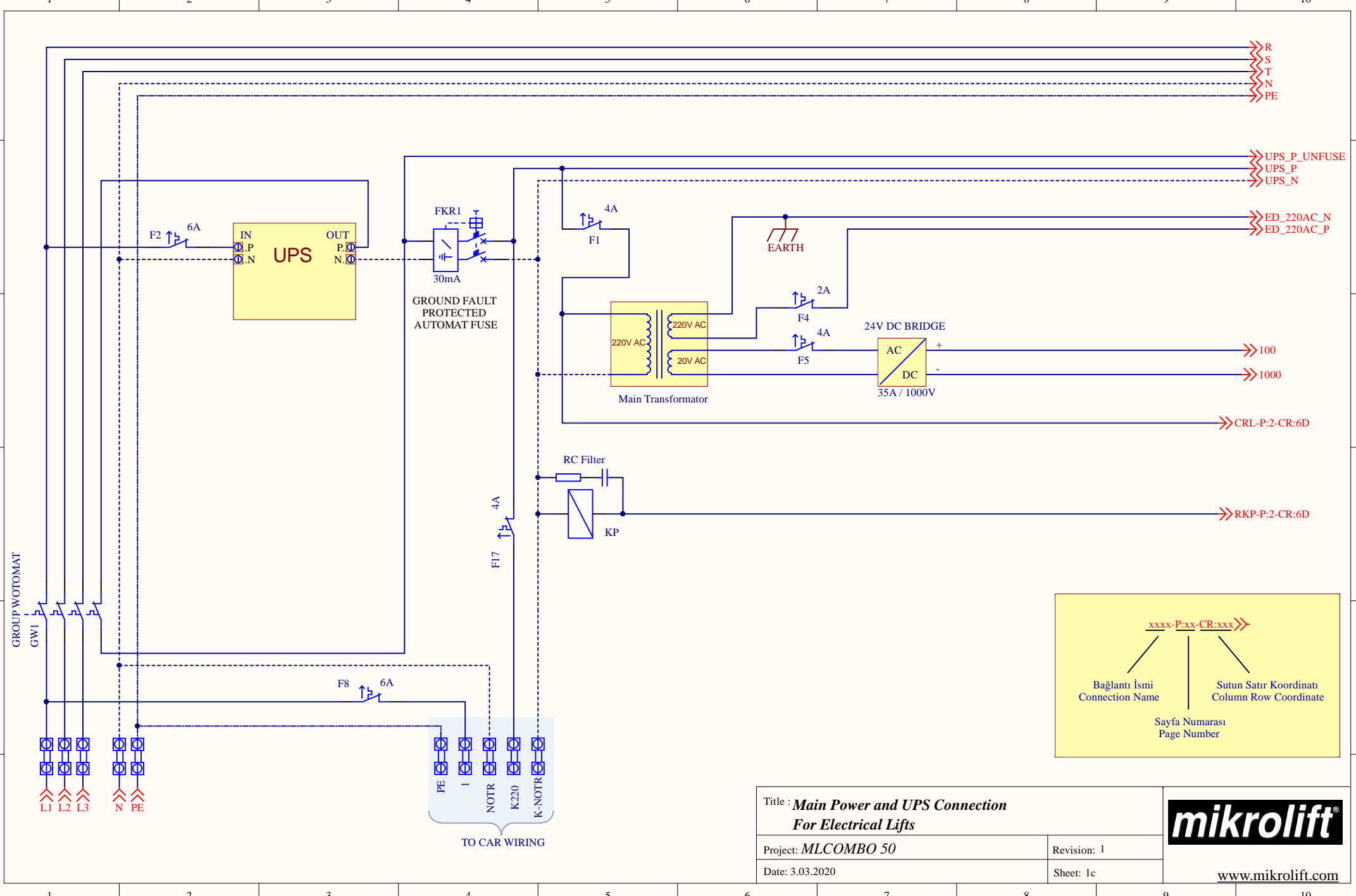
Revision: 1

Date: 3.03.2020

Sheet: 1b

mikrolift[®]

www.mikrolift.com



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

Project: **MLCOMBO 50**

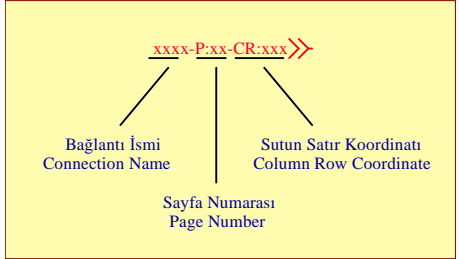
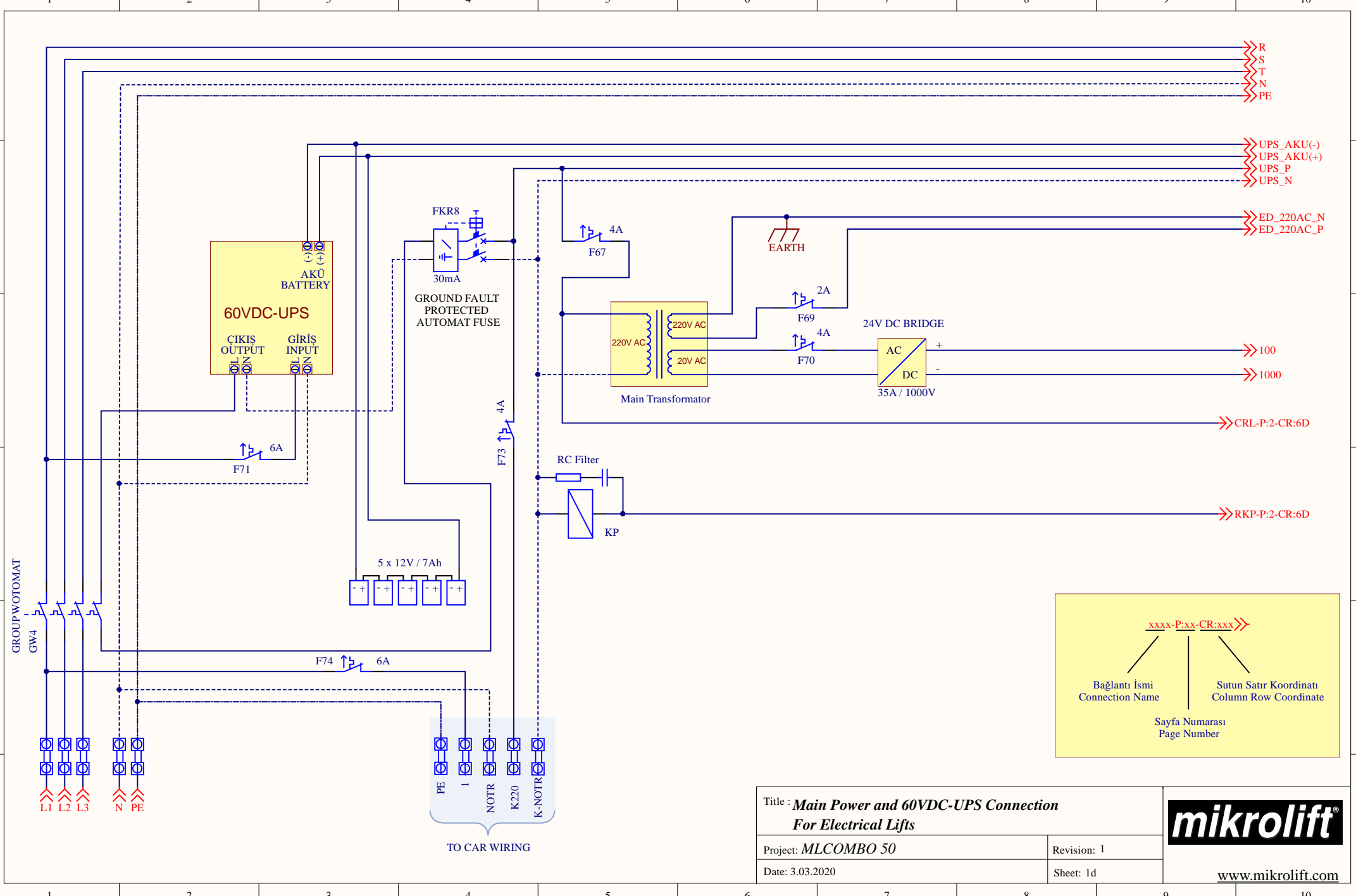
Date: 3.03.2020

Revision: 1

Sheet: 1c



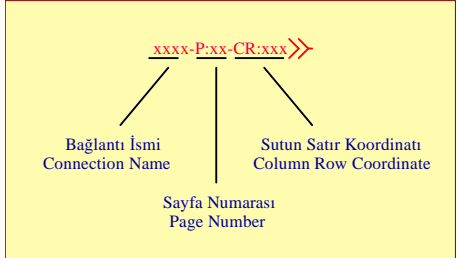
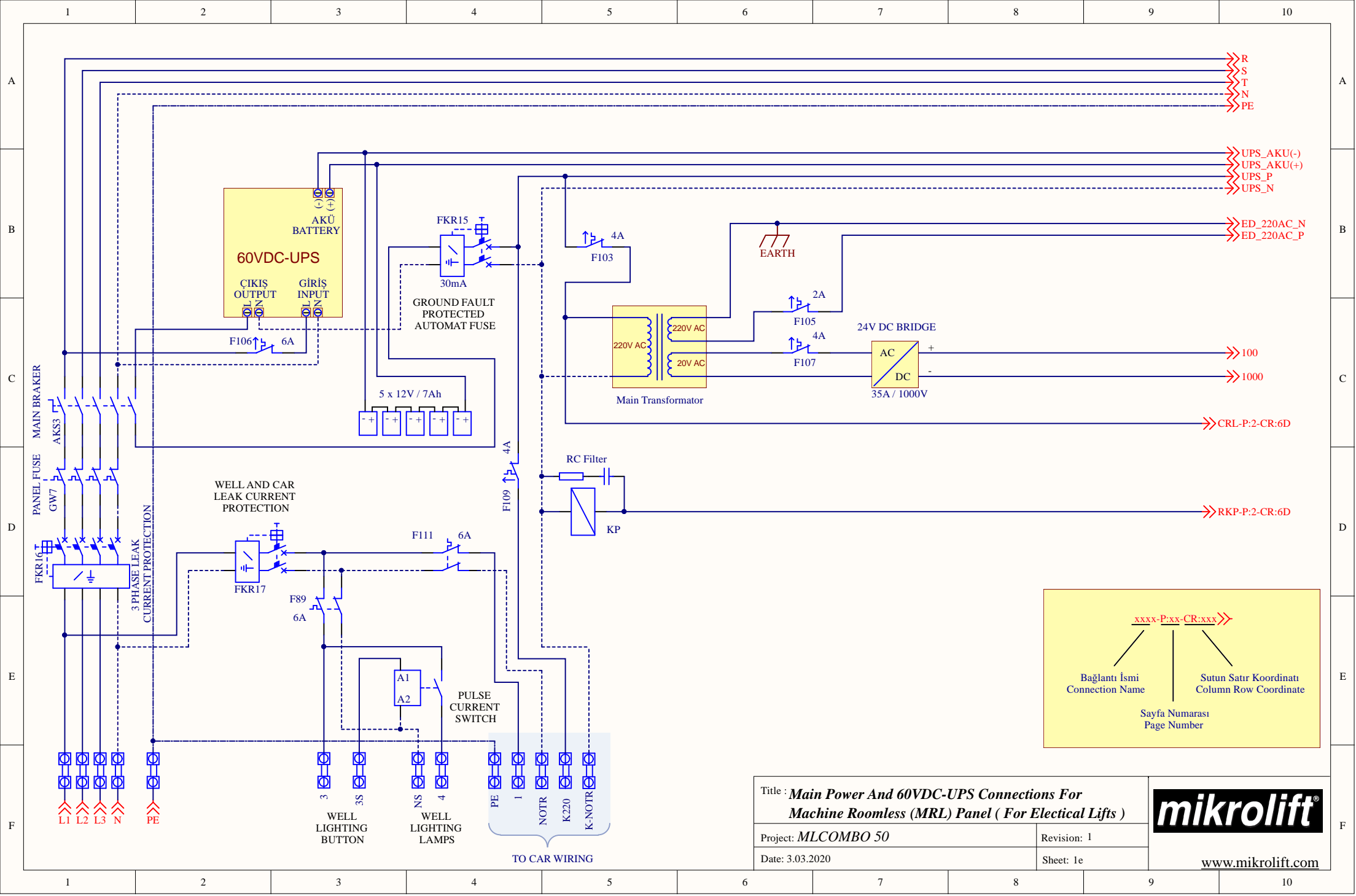
www.mikrolift.com



Title : Main Power and 60VDC-UPS Connection	
For Electrical Lifts	
Project : MLCOMBO 50	Revision : 1
Date : 3.03.2020	Sheet : 1d



www.mikrolift.com



Title : **Main Power And 60VDC-UPS Connections For Machine Roomless (MRL) Panel (For Electrical Lifts)**

Project: **MLCOMBO 50**

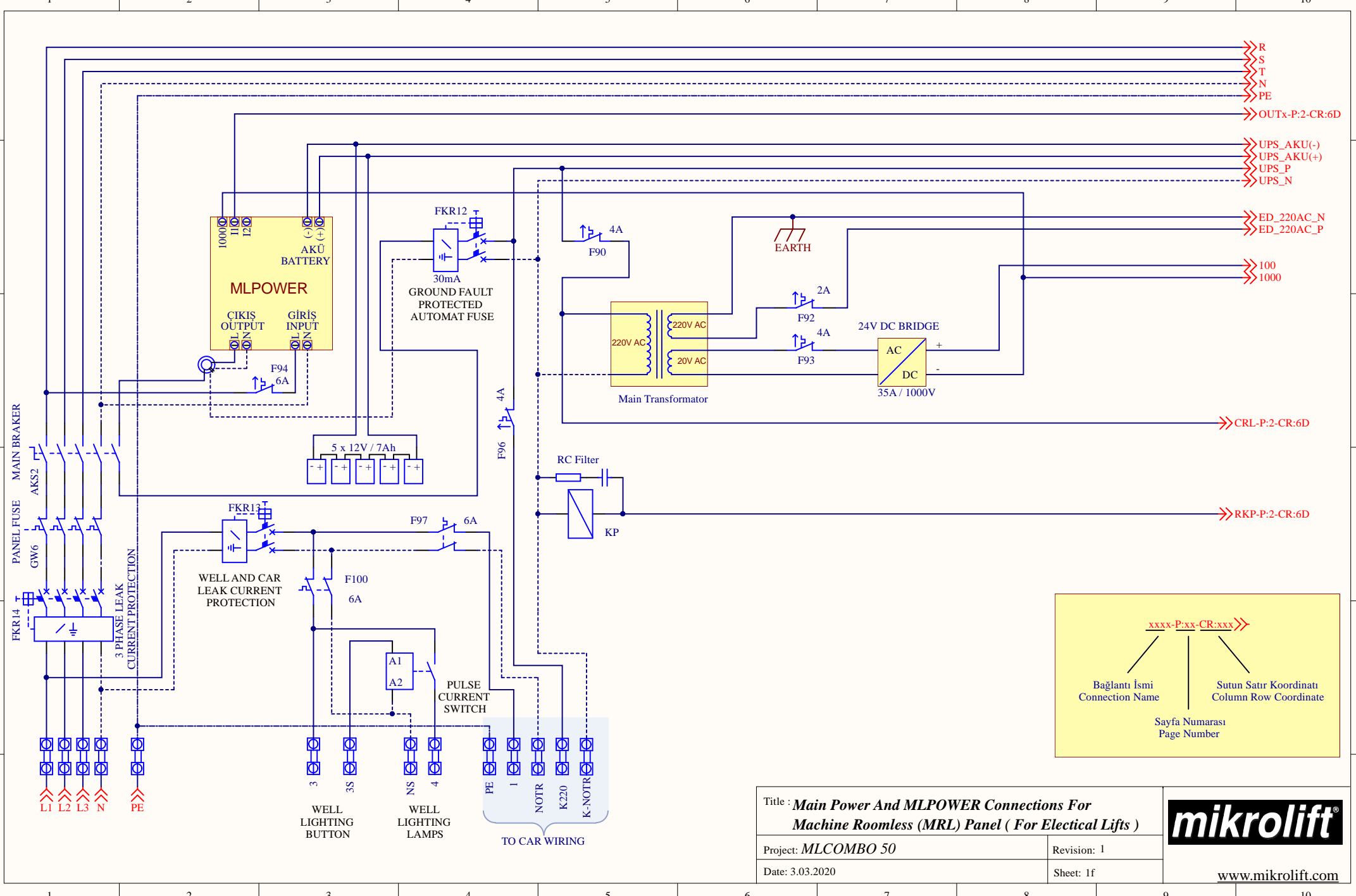
Revision: 1

Date: 3.03.2020

Sheet: 1e



www.mikrolift.com



xxxx-P:xx-CR:xxx

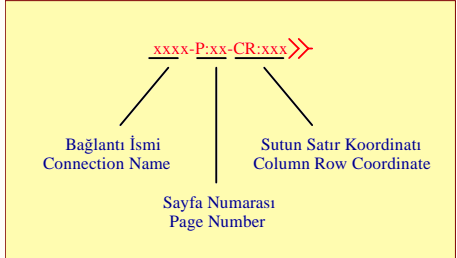
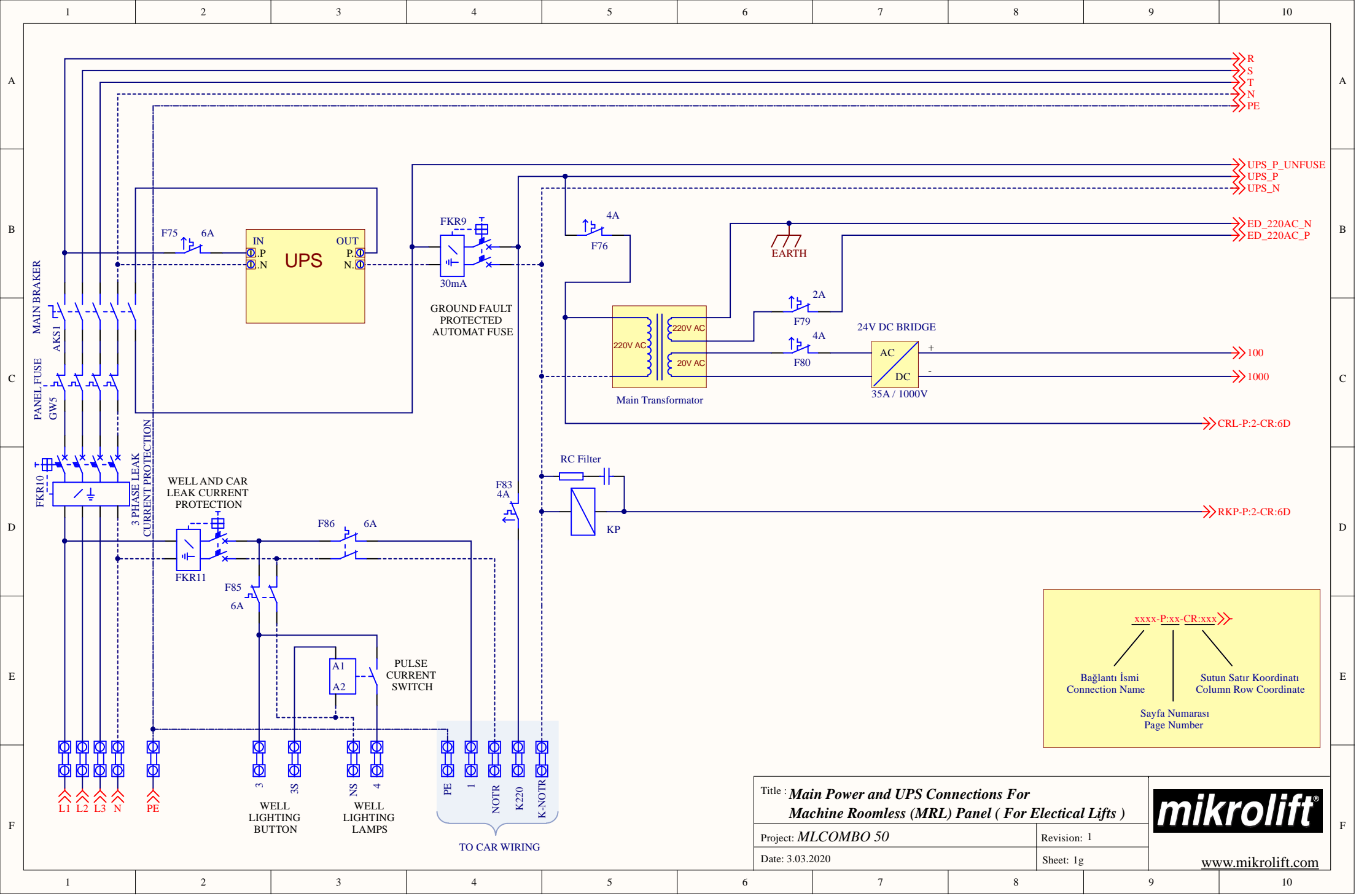
Bağlantı İsmi
 Connection Name

Sütun Satır Koordinatı
 Column Row Coordinate

Sayfa Numarası
 Page Number

Title : Main Power And MLPOWER Connections For Machine Roomless (MRL) Panel (For Electrical Lifts)	
Project : MLCOMBO 50	Revision : 1
Date : 3.03.2020	Sheet : 1f

www.mikrolift.com



Title : **Main Power and UPS Connections For Machine Roomless (MRL) Panel (For Electrical Lifts)**

Project: **MLCOMBO 50**

Date: 3.03.2020

Revision: 1

Sheet: 1g

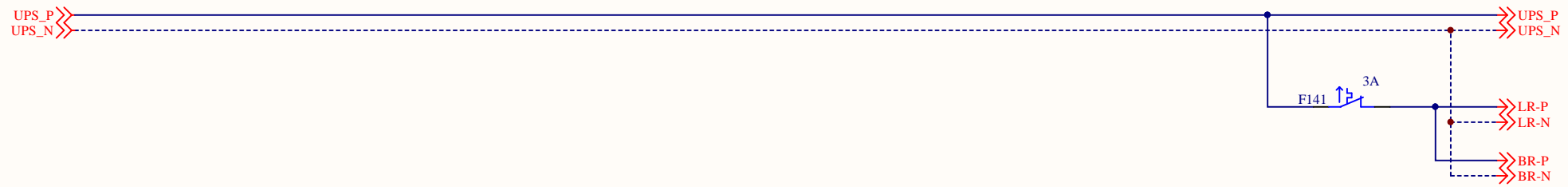


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1 2 3 4 5 6 7 8 9 10

A

A



B

B

C

C

D


D

E

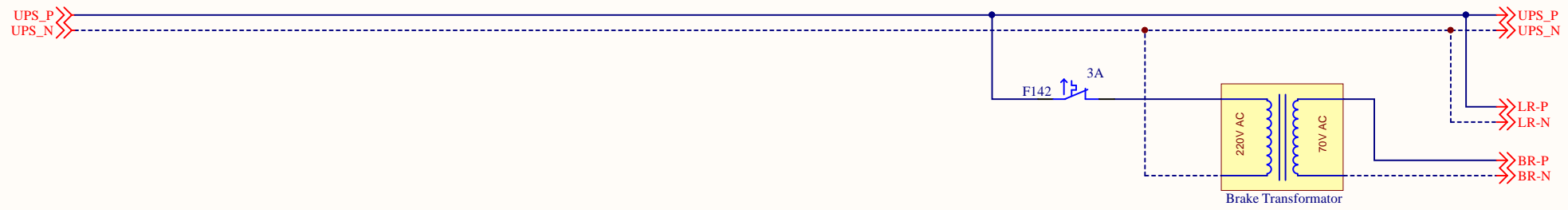
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F

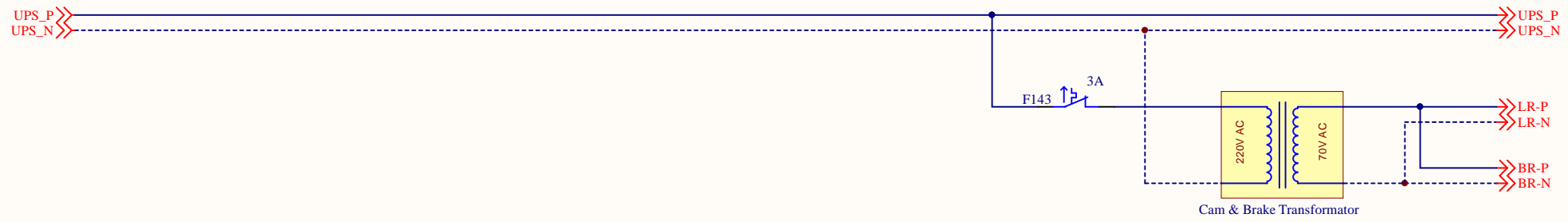
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Title : 190VDC Cam Coil and 190VDC Brake Coil		
Supply Voltage		
Project: <i>MLCOMBO 50</i>	Revision: 1	
Date: 3.03.2020	Sheet: 1h1	www.mikrolift.com

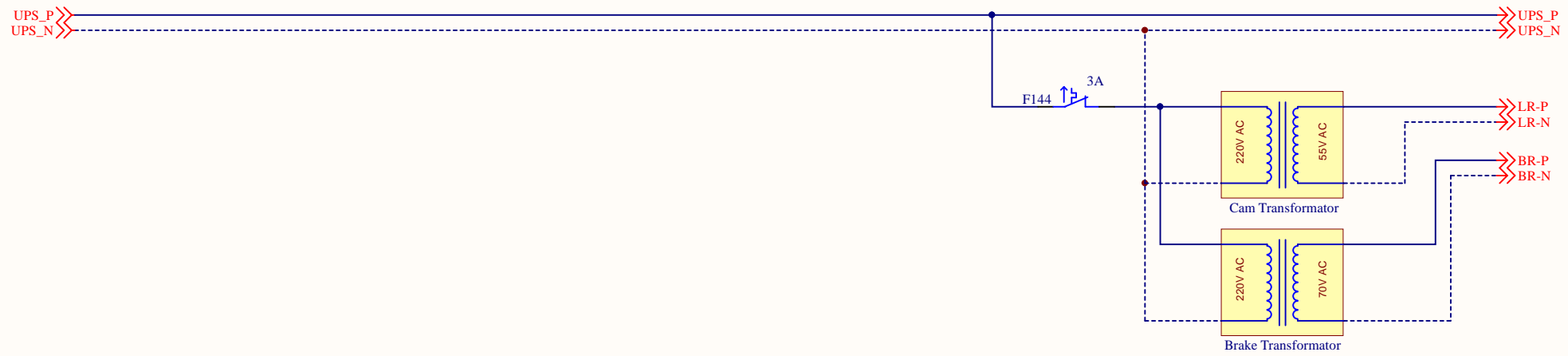
1 2 3 4 5 6 7 8 9 10



Title : 190VDC Cam Coil and 60VDC Brake Coil		
Supply Voltage		
Project: <i>MLCOMBO 50</i>	Revision: 1	
Date: 3.03.2020	Sheet: 1h2	www.mikrolift.com



Title : 60VDC Cam Coil and 60VDC Brake Coil		mikrolift®
Supply Voltage		
Project: <i>MLCOMBO 50</i>	Revision: 1	
Date: 3.03.2020	Sheet: 1h3	www.mikrolift.com



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

Project: *MLCOMBO 50*

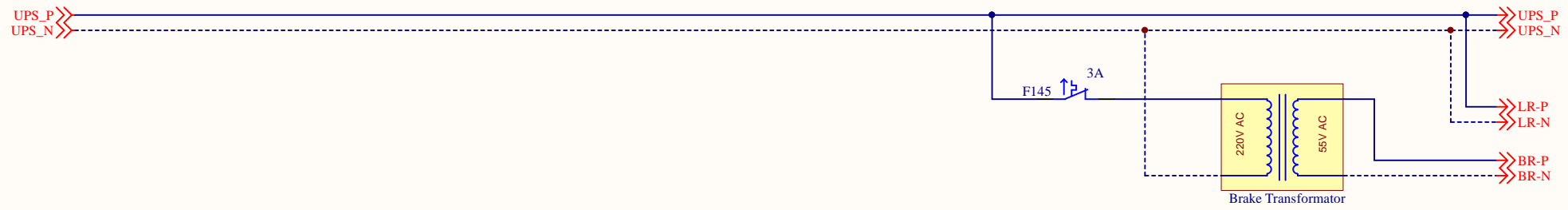
Revision: 1

Date: 3.03.2020

Sheet: 1h4




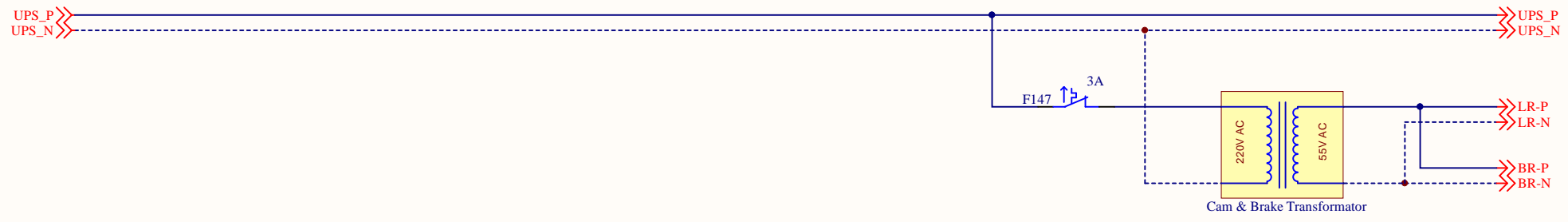
www.mikrolift.com



Title : 190VDC Cam Coil and 48VDC Brake Coil		mikrolift [®]
Supply Voltage		
Project: <i>MLCOMBO 50</i>	Revision: 1	
Date: 3.03.2020	Sheet: 1h5	www.mikrolift.com



Title : 60VDC Cam Coil and 48VDC Brake Coil		
Supply Voltage		
Project: <i>MLCOMBO 50</i>	Revision: 1	
Date: 3.03.2020	Sheet: 1h6	www.mikrolift.com



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

Project: *MLCOMBO 50*

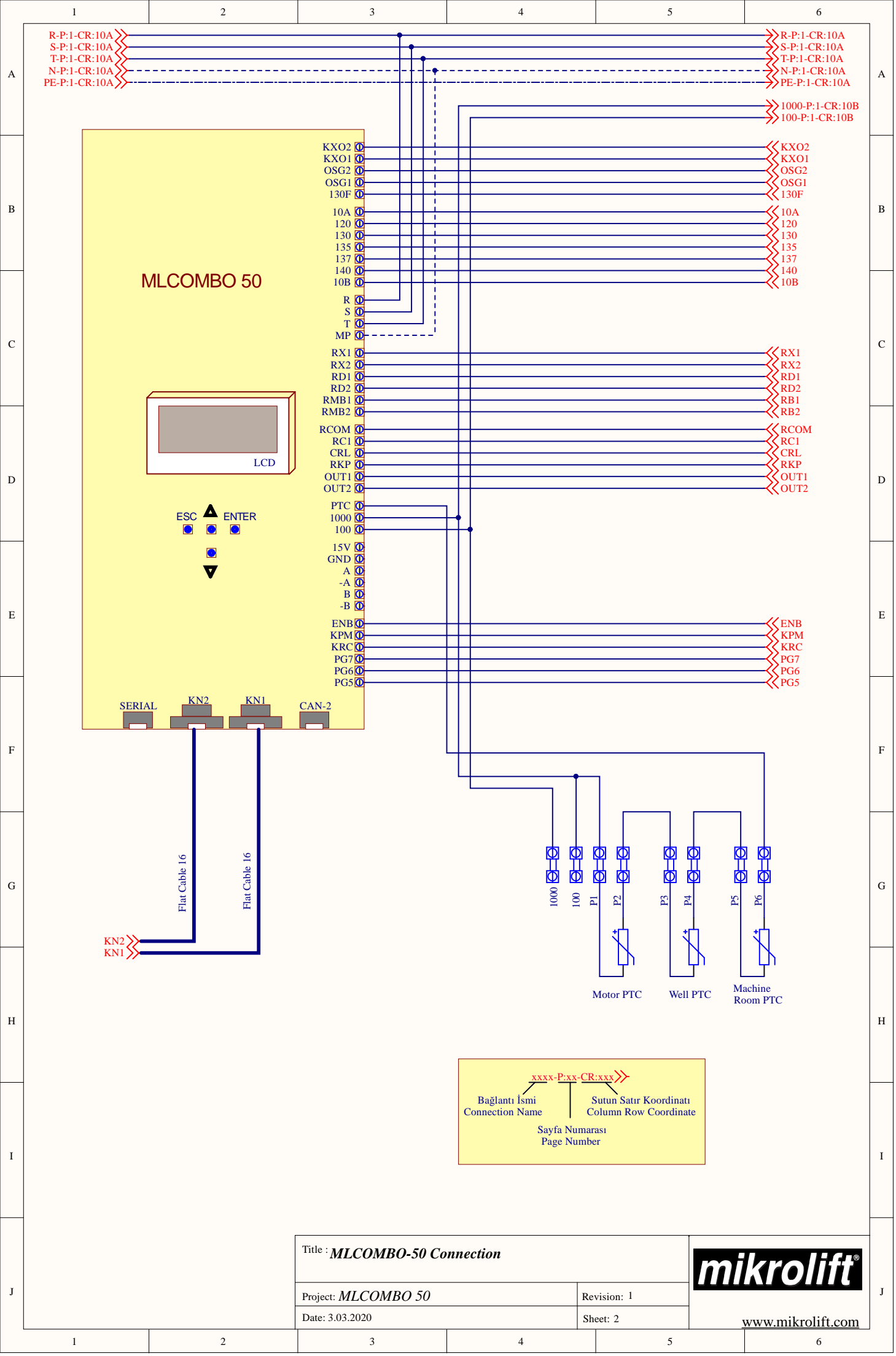
Revision: 1

Date: 3.03.2020

Sheet: 1h7



www.mikrolift.com



R-P:1-CR:10A
S-P:1-CR:10A
T-P:1-CR:10A
N-P:1-CR:10A
PE-P:1-CR:10A

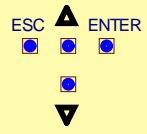
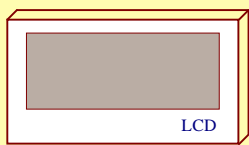
R-P:1-CR:10A
S-P:1-CR:10A
T-P:1-CR:10A
N-P:1-CR:10A
PE-P:1-CR:10A

1000-P:1-CR:10B
100-P:1-CR:10B

KXO2
KXO1
OSG2
OSG1
130F
10A
120
130
135
137
140
10B
R
S
T
MP
RX1
RX2
RD1
RD2
RMB1
RMB2
RCOM
RC1
CRL
RKP
OUT1
OUT2
PTC
1000
100
15V
GND
A
-A
B
-B
ENB
KPM
KRC
PG7
PG6
PG5

KXO2
KXO1
OSG2
OSG1
130F
10A
120
130
135
137
140
10B
RX1
RX2
RD1
RD2
RB1
RB2
RCOM
RC1
CRL
RKP
OUT1
OUT2
ENB
KPM
KRC
PG7
PG6
PG5

MLCOMBO 50

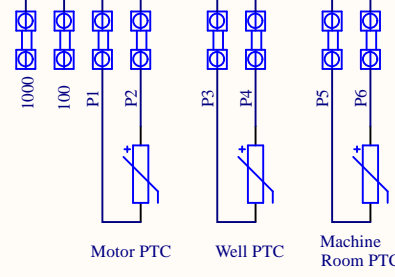


SERIAL KN2 KN1 CAN-2

KN2
KN1

Flat Cable 16

Flat Cable 16



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

Title : **MLCOMBO-50 Connection**

Project: **MLCOMBO 50**

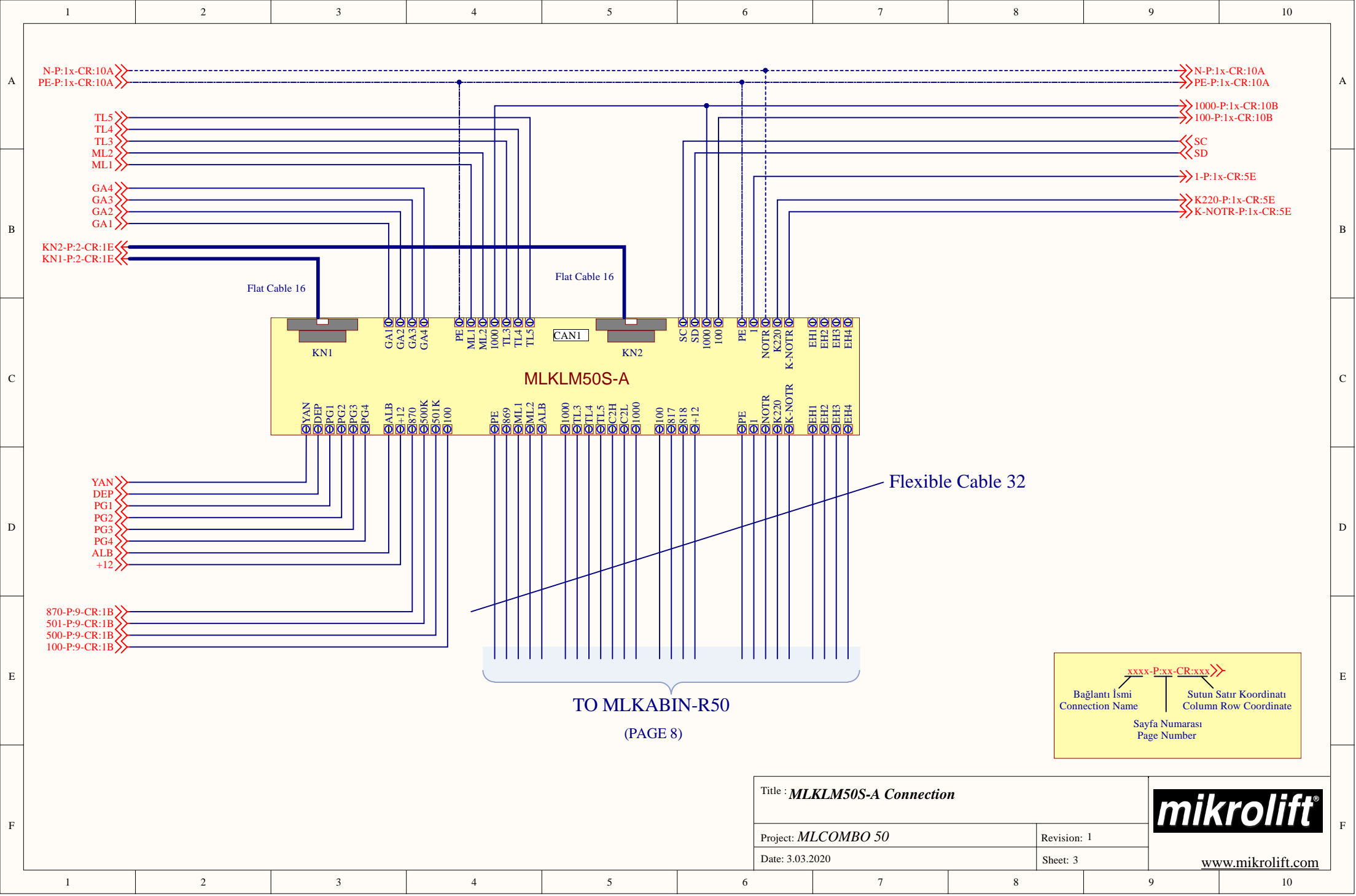
Date: 3.03.2020

Revision: 1

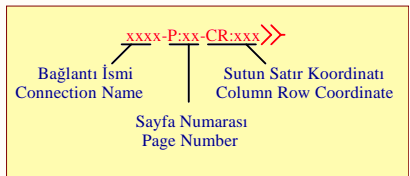
Sheet: 2

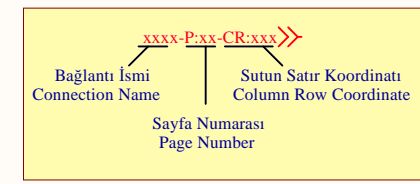
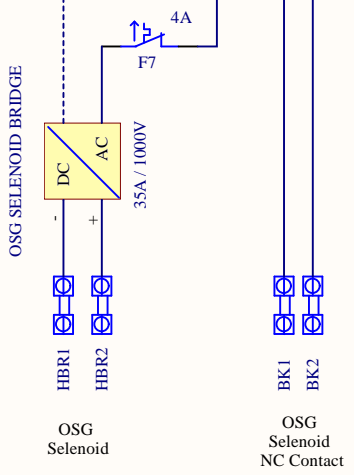
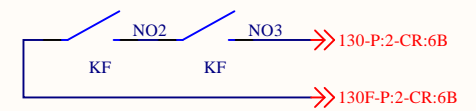
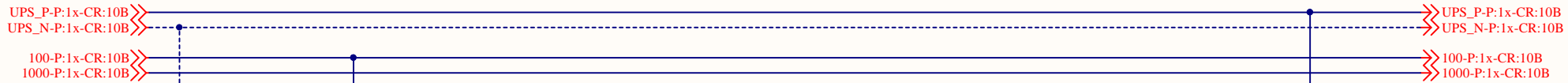



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TO MLKABIN-R50
(PAGE 8)





Title : OSG Selenoid Connection For 190VDC Coil		
Project: MLCOMBO 50	Revision: 1	
Date: 3.03.2020	Sheet: 4a	
www.mikrolift.com		

UPS_P-P:1x-CR:10B
UPS_N-P:1x-CR:10B
100-P:1x-CR:10B
1000-P:1x-CR:10B

UPS_P-P:1x-CR:10B
UPS_N-P:1x-CR:10B
100-P:1x-CR:10B
1000-P:1x-CR:10B

OSG1-P:2-CR:6B
OSG2-P:2-CR:6B

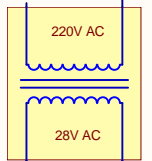
PGx-P:2-CR:6F

NO2
KX1
KXO1-P:2-CR:6B

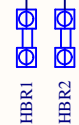
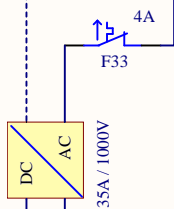
KXO2-P:2-CR:6B

NO2 NO3
KF KF
130-P:2-CR:6B

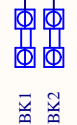
130F-P:2-CR:6B



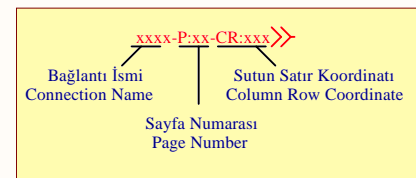
OSG SELENOID BRIDGE



OSG Selenoid



OSG Selenoid
NC Contact



Title : **OSG Selenoid Connection**
For 24VDC Coil

Project: **MLCOMBO 50**

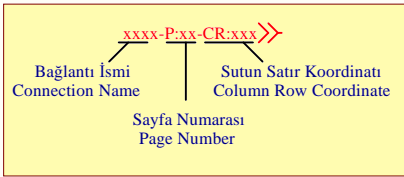
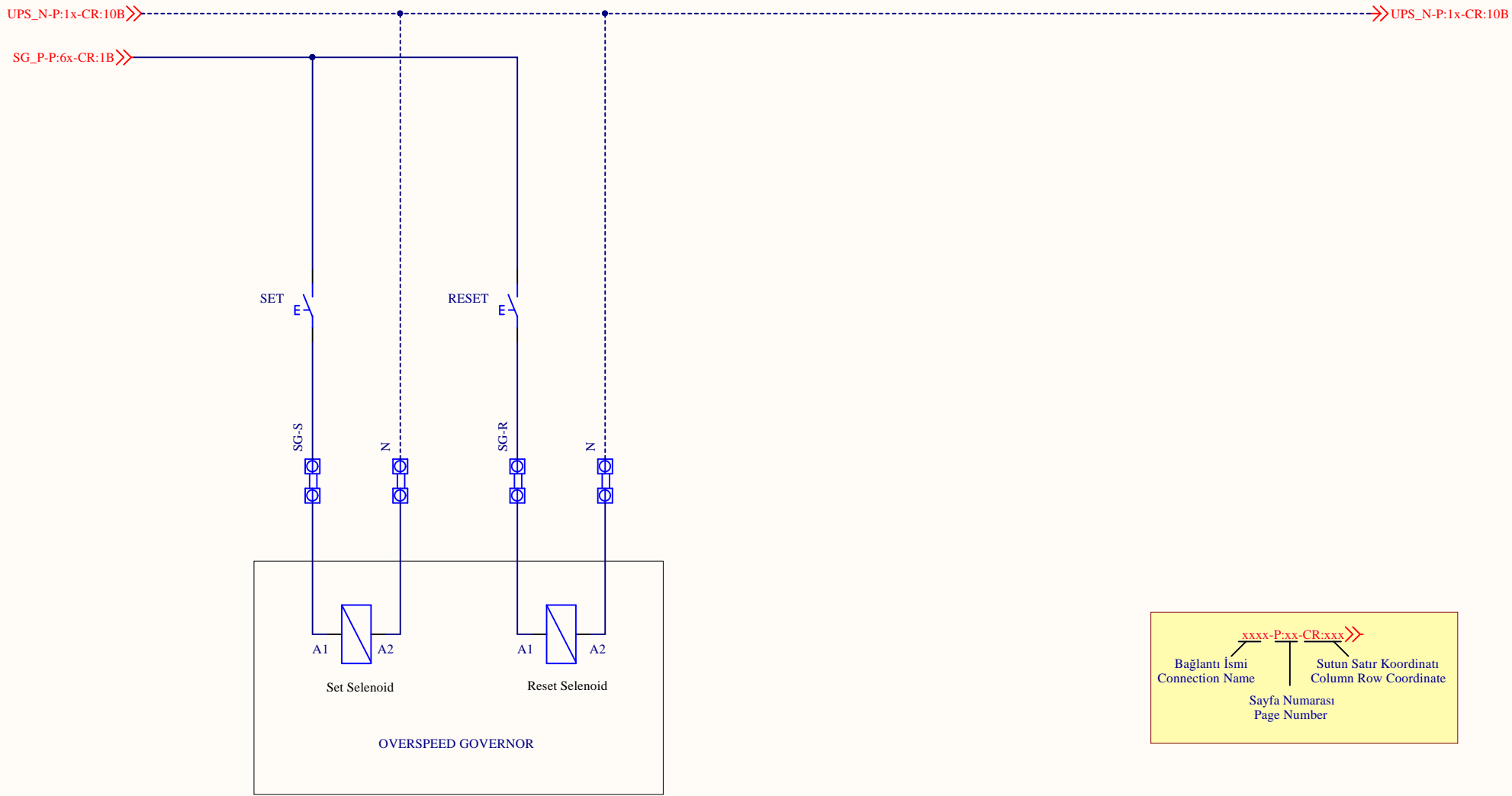
Date: 3.03.2020

Revision: 1

Sheet: 4b

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

Project: **MLCOMBO 50**

Date: 3.03.2020

Revision: 1

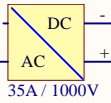
Sheet: 4c



www.mikrolift.com

UPS_N-P:1x-CR:10B

SG_P-P:6x-CR:1B



SET

RESET

SG-S

N

SG-R

N

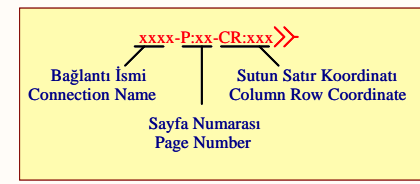
A1 A2

Set Selenoid

A1 A2

Reset Selenoid

OVERSPEED GOVERNOR



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

Project: MLCOMBO 50

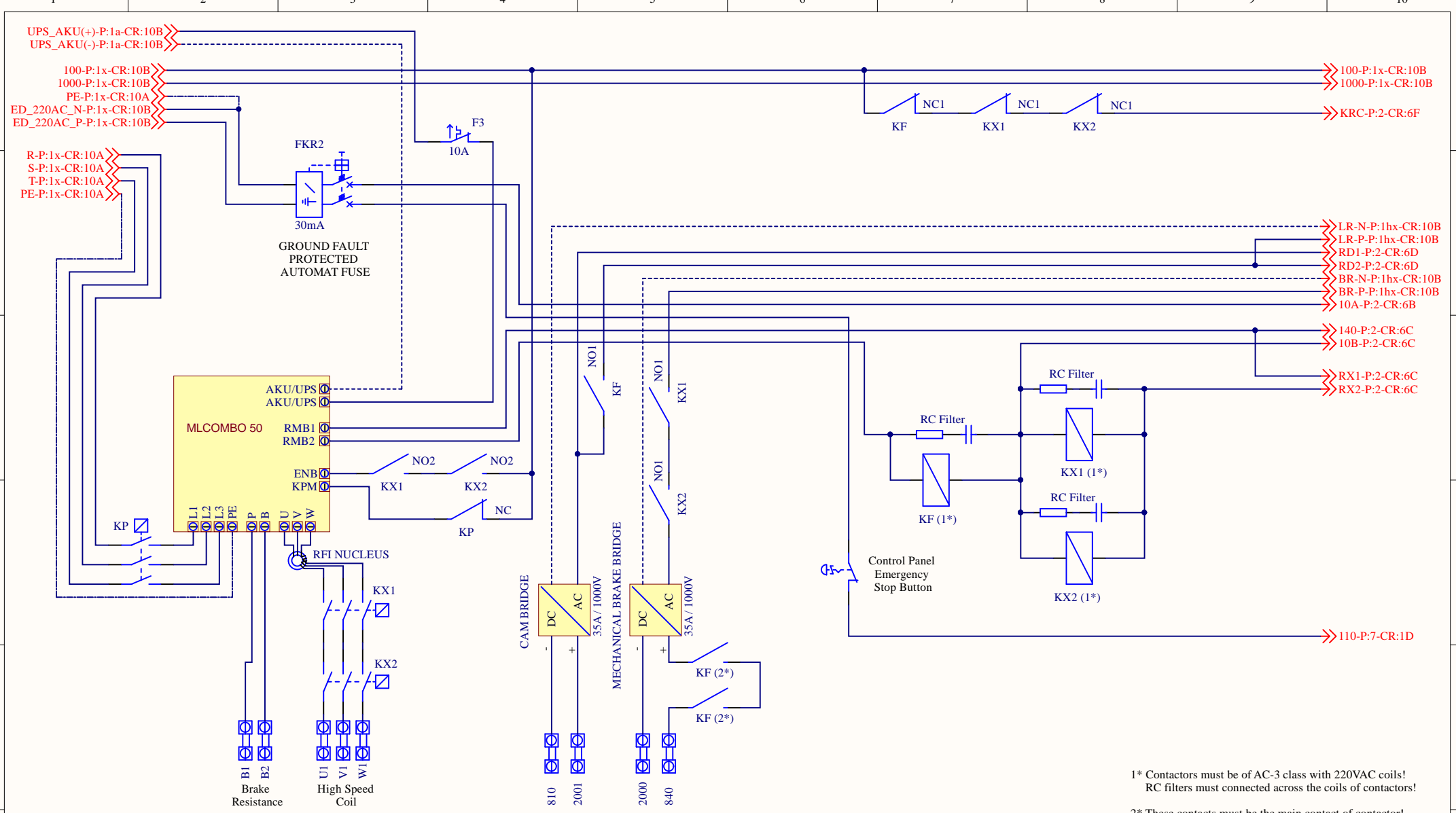
Revision: 1

Date: 3.03.2020

Sheet: 4d



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

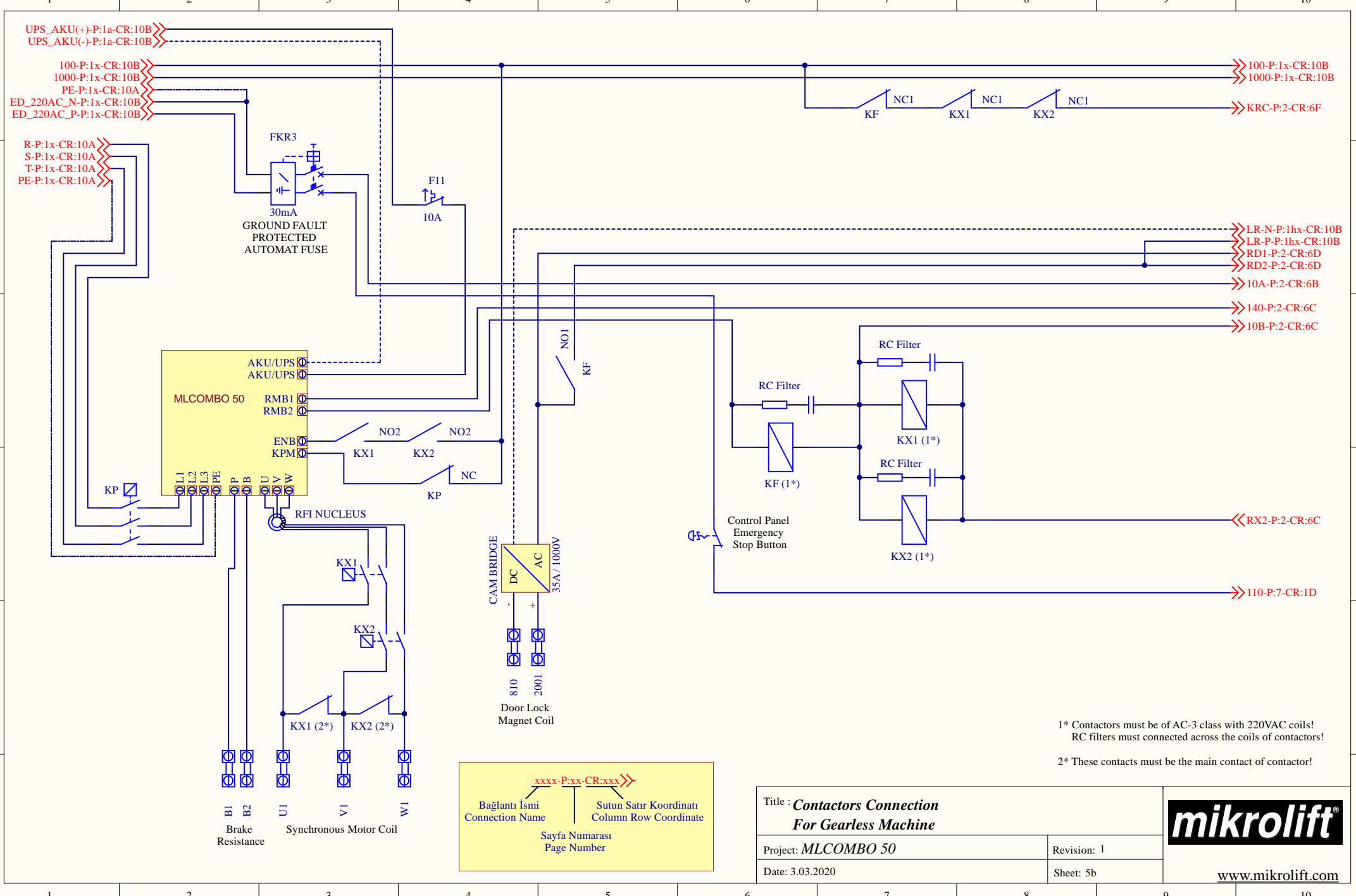
Sutun Satır Koordinatı
 Column Row Coordinate

Sayfa Numarası
 Page Number

Title : Contactors Connection For Geared Machine	
Project: MLCOMBO 50	Revision: 1
Date: 3.03.2020	Sheet: 5a



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UPS_AKU(+)-P:1a-CR:10B
 UPS_AKU(-)-P:1a-CR:10B
 100-P:1x-CR:10B
 1000-P:1x-CR:10B
 PE-P:1x-CR:10A
 ED_220AC_N-P:1x-CR:10B
 ED_220AC_P-P:1x-CR:10B

R-P:1x-CR:10A
 S-P:1x-CR:10A
 T-P:1x-CR:10A
 PE-P:1x-CR:10A

100-P:1x-CR:10B
 1000-P:1x-CR:10B
 KRC-P:2-CR:6F

LR-N-P:1hx-CR:10B
 LR-P-P:1hx-CR:10B
 RD1-P:2-CR:6D
 RD2-P:2-CR:6D
 10A-P:2-CR:6B
 140-P:2-CR:6C
 10B-P:2-CR:6C

RX2-P:2-CR:6C
 110-P:7-CR:1D

MLCOMBO 50

AKU/UPS
 AKU/UPS
 RMB1
 RMB2
 ENB
 KPM

L1 L2 L3 PE P B U V W

xxxx-P:xx-CR:xxx

Bağlantı İsmi
 Connection Name

Sutun Satır Koordinatı
 Column Row Coordinate

Sayfa Numarası
 Page Number

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

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

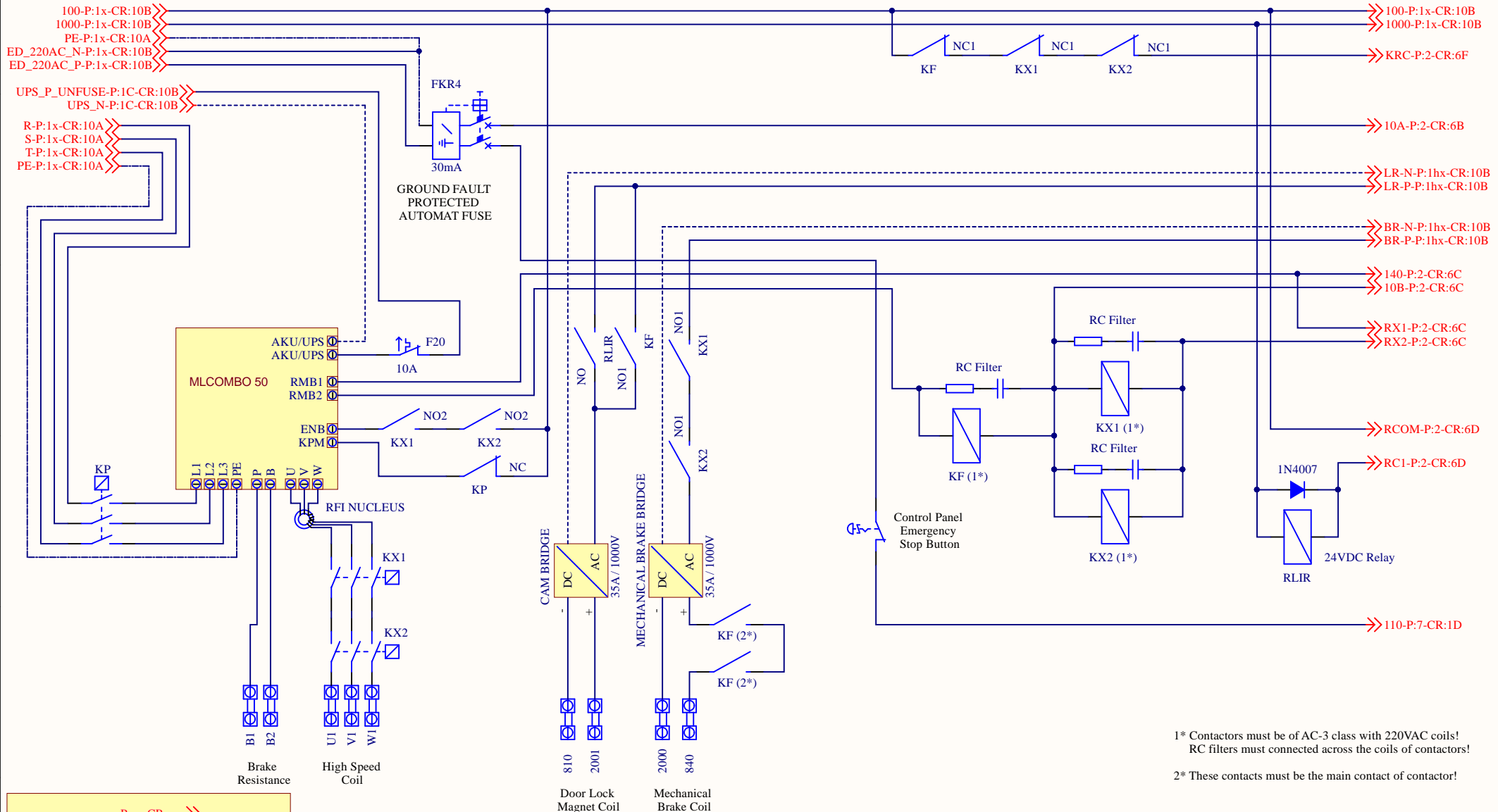
Title : **Contactors Connection For Gearless Machine**

Project: **MLCOMBO 50** Revision: 1

Date: 3.03.2020 Sheet: 5b

mikrolift

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

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

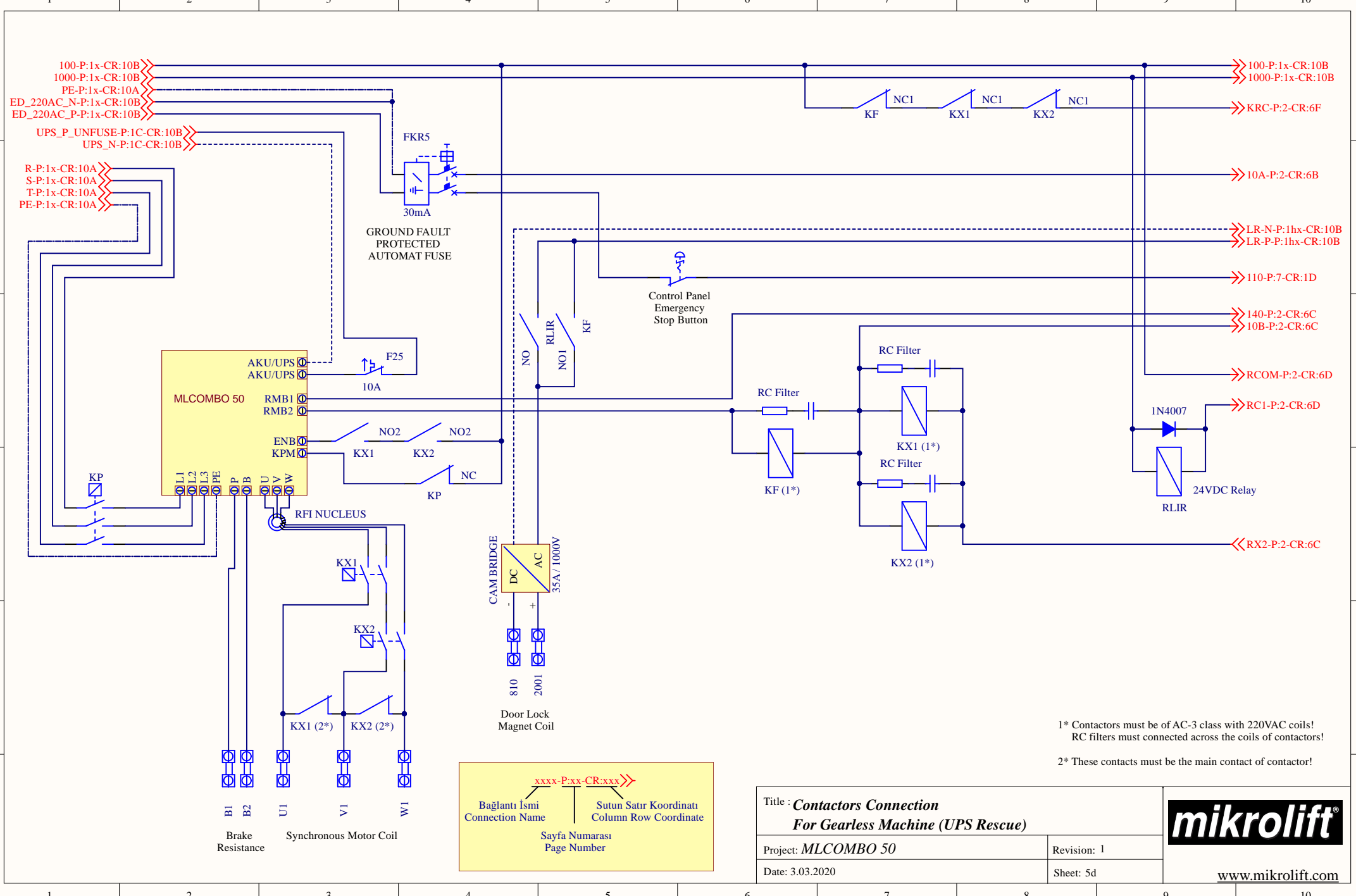
xxxx-P:xx-CR:xxx

Bağlantı İsmi
Connection Name

Sutun Satır Koordinatı
Column Row Coordinate

Sayfa Numarası
Page Number

Title : Contactor Connection For Geared Machine (UPS Rescue)		mikrolift [®]
Project: MLCOMBO 50	Revision: 1	
Date: 3.03.2020	Sheet: 5c	
www.mikrolift.com		



100-P:1x-CR:10B
 1000-P:1x-CR:10B
 PE-P:1x-CR:10A
 ED_220AC_N-P:1x-CR:10B
 ED_220AC_P-P:1x-CR:10B

UPS_P_UNFUSE-P:1C-CR:10B
 UPS_N-P:1C-CR:10B

R-P:1x-CR:10A
 S-P:1x-CR:10A
 T-P:1x-CR:10A
 PE-P:1x-CR:10A

100-P:1x-CR:10B
 1000-P:1x-CR:10B
 KRC-P:2-CR:6F

10A-P:2-CR:6B

LR-N-P:1hx-CR:10B
 LR-P-P:1hx-CR:10B

110-P:7-CR:1D

140-P:2-CR:6C
 10B-P:2-CR:6C

RCOM-P:2-CR:6D

RC1-P:2-CR:6D

RX2-P:2-CR:6C

MLCOMBO 50

AKU/UPS
 AKU/UPS
 RMB1
 RMB2
 ENB
 KPM

L1 L2 L3 PE P B
 U U V W

B1 B2
 Brake Resistance

U1 V1 W1
 Synchronous Motor Coil

xxxx-P:xx-CR:xxx
 Bağlantı İsmi
 Connection Name

Sutun Satır Koordinatı
 Column Row Coordinate

Sayfa Numarası
 Page Number

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

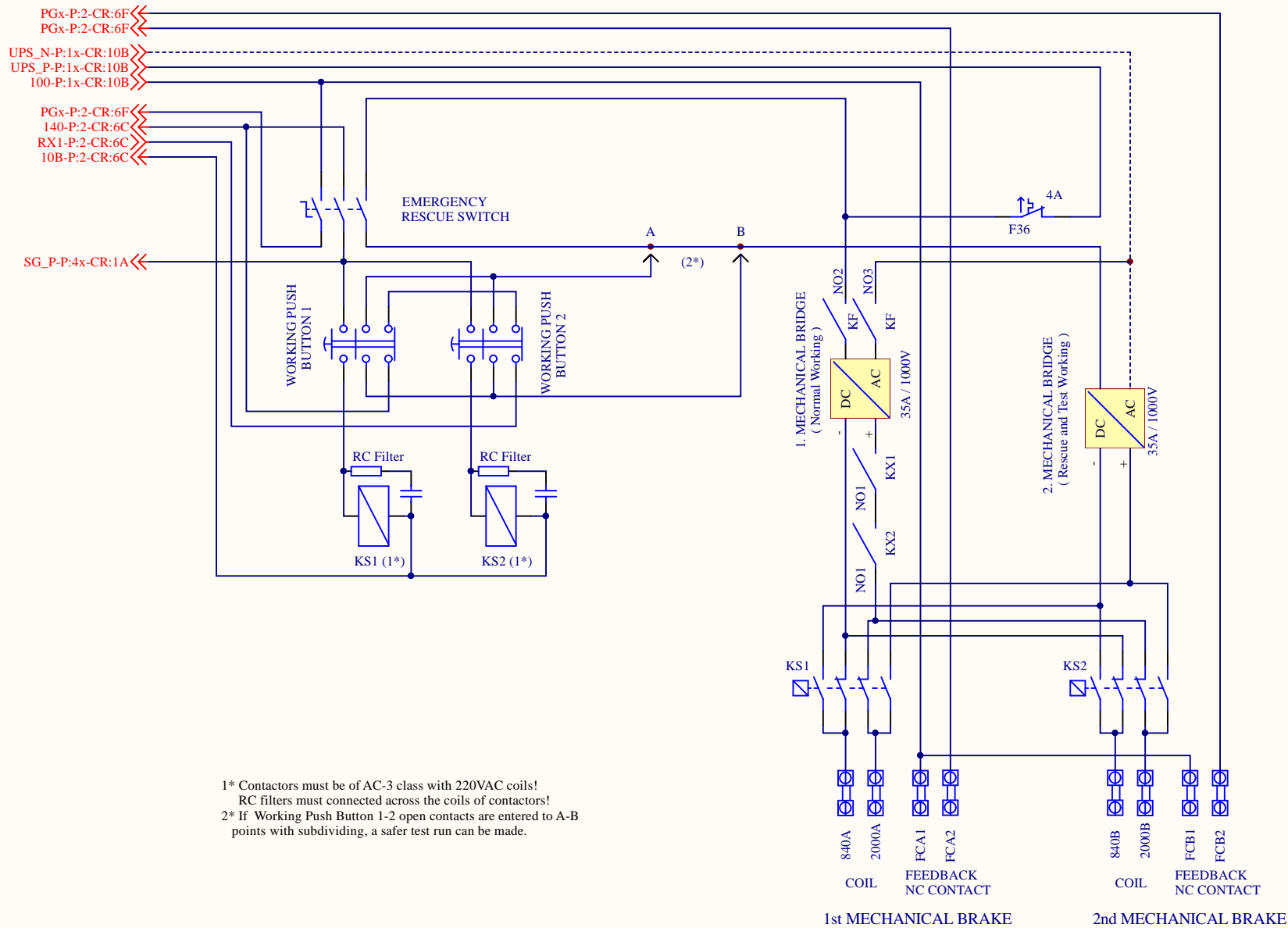
2* These contacts must be the main contact of contactor!

Title : **Contactors Connection**
For Gearless Machine (UPS Rescue)

Project: **MLCOMBO 50** Revision: 1

Date: 3.03.2020 Sheet: 5d

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1* Contactors must be of AC-3 class with 220VAC coils!
 RC filters must be connected across the coils of contactors!
 2* If Working Push Button 1-2 open contacts are entered to A-B points with subdividing, a safer test run can be made.

Title : *Gearless 190VDC Brake Connection*

Project: *MLCOMBO 50*

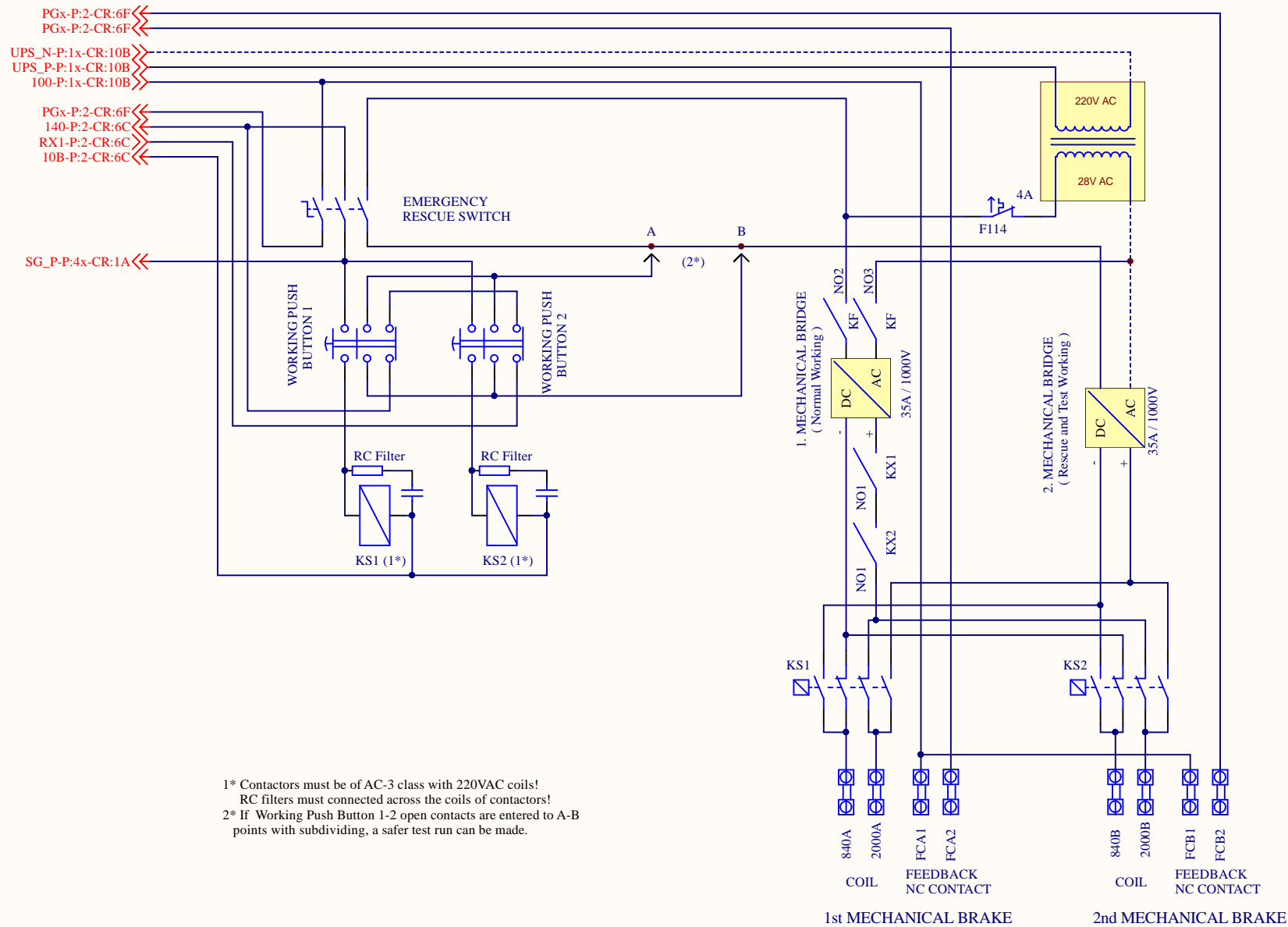
Revision: 1

Date: 3.03.2020

Sheet: 6a

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1* Contactors must be of AC-3 class with 220VAC coils!
 RC filters must be connected across the coils of contactors!
 2* If Working Push Button 1-2 open contacts are entered to A-B points with subdividing, a safer test run can be made.

Title : *Gearless 24VDC Brake Connection*

Project: *MLCOMBO 50*

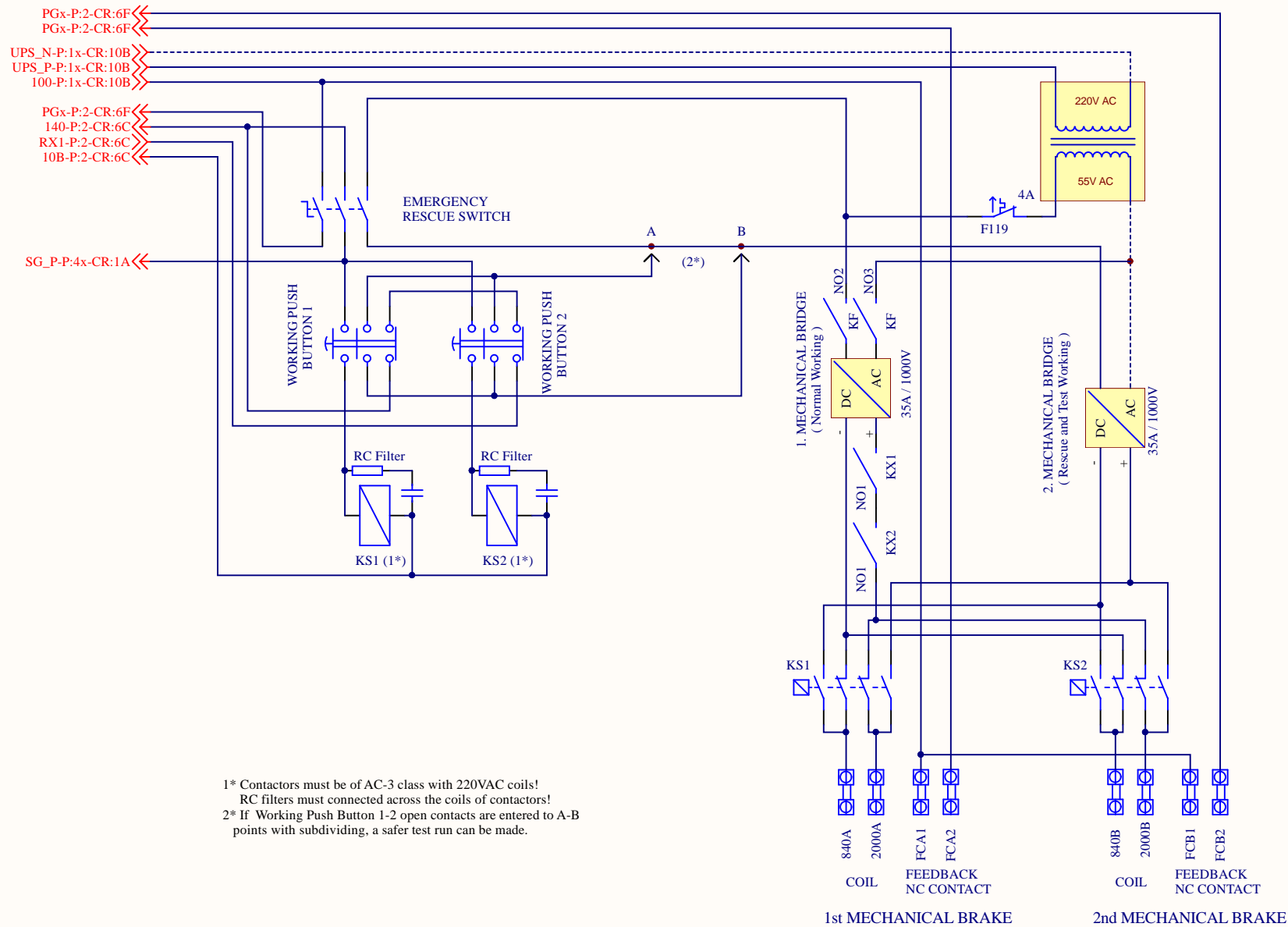
Revision: 1

Date: 3.03.2020

Sheet: 6b

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1* Contactors must be of AC-3 class with 220VAC coils!
 RC filters must be connected across the coils of contactors!
 2* If Working Push Button 1-2 open contacts are entered to A-B points with subdividing, a safer test run can be made.

Title : *Gearless 48VDC Brake Connection*

Project: *MLCOMBO 50*

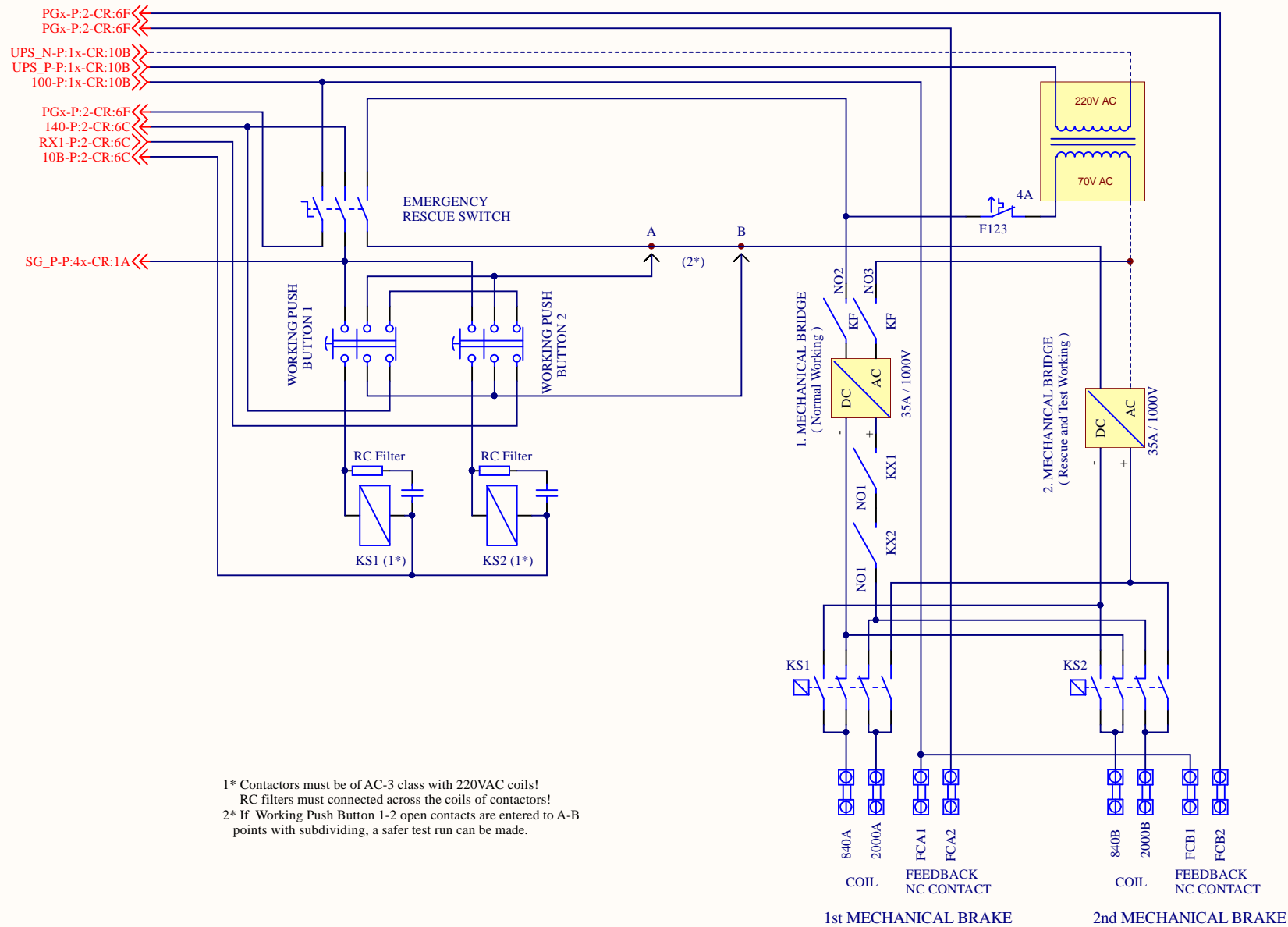
Revision: 1

Date: 3.03.2020

Sheet: 6c

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1* Contactors must be of AC-3 class with 220VAC coils!
RC filters must be connected across the coils of contactors!
2* If Working Push Button 1-2 open contacts are entered to A-B points with subdividing, a safer test run can be made.

Title : *Gearless 60VDC Brake Connection*

Project: *MLCOMBO 50*

Revision: 1

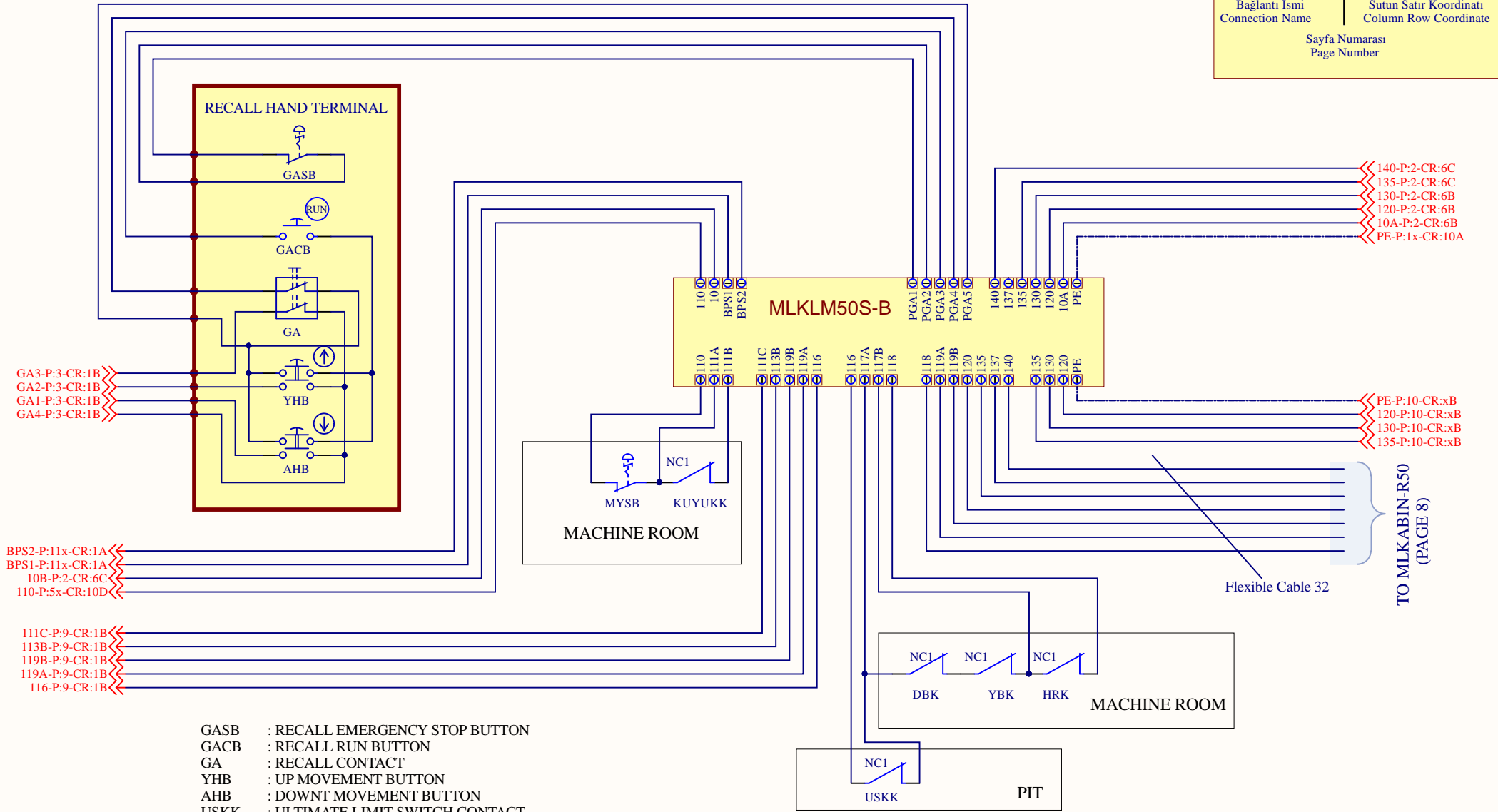
Date: 3.03.2020

Sheet: 6d

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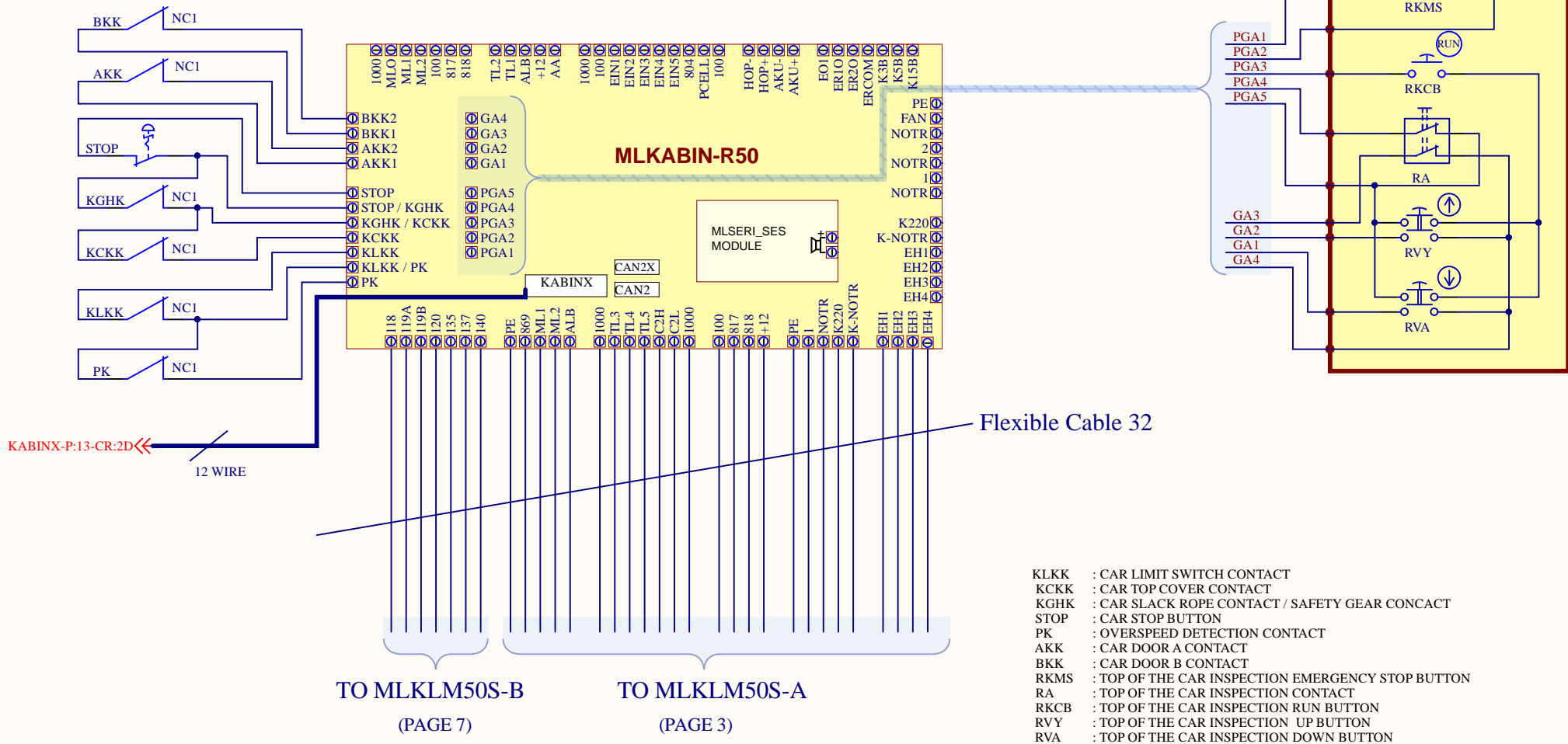
$xxxx-P:xx-CR:xxx$
 Baęlantı İsmi | Sütun Satır Koordinatı
 Connection Name | Column Row Coordinate
 Sayfa Numarası
 Page Number



- GASB : RECALL EMERGENCY STOP BUTTON
- GACB : RECALL RUN BUTTON
- GA : RECALL CONTACT
- YHB : UP MOVEMENT BUTTON
- AHB : DOWN MOVEMENT BUTTON
- USKK : ULTIMATE LIMIT SWITCH CONTACT
- DBK : LOW PRESSURE CONTACT (FOR HYDRAULIC SYSTEMS)
- YBK : HIGH PRESSURE CONTACT (FOR HYDRAULIC SYSTEMS)
- HRK : OVERSPEED GOVERNOR CONTACT
- MYSB : TRACTION GEAR STOP BUTTON
- KUYUCC : WELLACCESS CONTACT

Title : Safety Circuit Connections -1-	
Project : MLCOMBO 50	Revision : 1
Date : 3.03.2020	Sheet : 7





- KLKK : CAR LIMIT SWITCH CONTACT
- KCKK : CAR TOP COVER CONTACT
- KGHK : CAR SLACK ROPE CONTACT / SAFETY GEAR CONTACT
- STOP : CAR STOP BUTTON
- PK : OVERSPEED DETECTION CONTACT
- AKK : CAR DOOR A CONTACT
- BKK : CAR DOOR B CONTACT
- RKMS : TOP OF THE CAR INSPECTION EMERGENCY STOP BUTTON
- RA : TOP OF THE CAR INSPECTION CONTACT
- RKCB : TOP OF THE CAR INSPECTION RUN BUTTON
- RVY : TOP OF THE CAR INSPECTION UP BUTTON
- RVA : TOP OF THE CAR INSPECTION DOWN BUTTON

Title : *Safety Circuit Connections -2-*

Project : *MLCOMBO 50*

Date : 3.03.2020

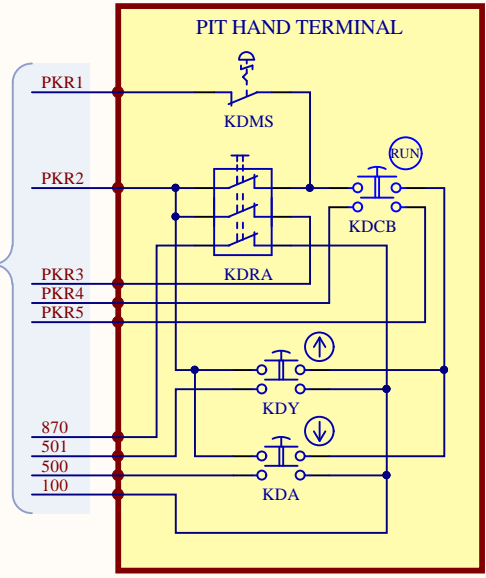
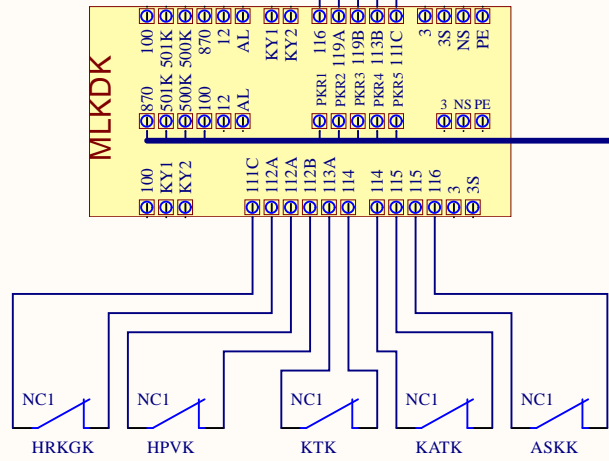
Revision: 1

Sheet: 8



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111C-P:7-CR:1E
 113B-P:7-CR:1E
 119B-P:7-CR:1E
 119A-P:7-CR:1E
 116-P:7-CR:1E



- HRKGK : TENSION WEIGHT CONTACT
- HPVK : HOSE BLOW VALVE CONTACT (FOR HYDRAULIC SYSTEMS)
- KTK : BUFFER CONTACT
- KATK : COUNTER WEIGHT BUFFER CONTACT
- ASKK : PIT END LIMIT SWITCH CONTACT
- KDMS : PIT EMERGENCY STOP BUTTON
- KDRA : PIT INSPECTION CONTACT
- KDCB : PIT INSPECTION RUN BUTTON
- KDY : PIT INSPECTION UP BUTTON
- KDA : PIT INSPECTION DOWN BUTTON

Title : *Safety Circuit Connections - 3 -*

Project: *MLCOMBO 50*

Revision: 1

Date: 3.03.2020

Sheet: 9



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DOOR SOCKET AND LOCK SWITCHES CONNECTIONS

CONTROL PANEL

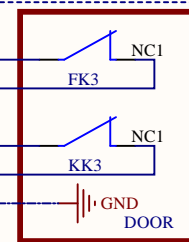
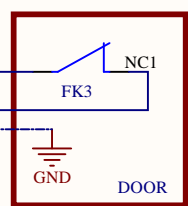
FULL AUTOMATIC

ONLY CAR DOOR AUTOMATIC

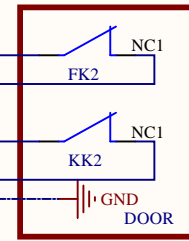
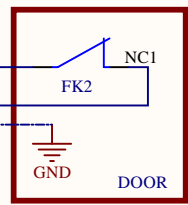
135-P:7-CR:10C
130-P:7-CR:10C
120-P:7-CR:10C
PE-P:7-CR:10C

135-P:7-CR:10C
130-P:7-CR:10C
120-P:7-CR:10C
PE-P:7-CR:10C

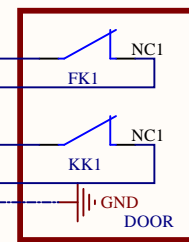
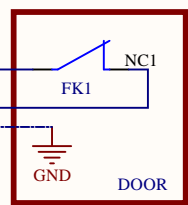
FLOOR 2



FLOOR 1



FLOOR 0



FKx : DOOR SOCKET SWITCHES
KKx : DOOR LOCK SWITCHES

Title : *Safety Circuit Connections - 4 -*

Project: *MLCOMBO 50*

Revision: 1

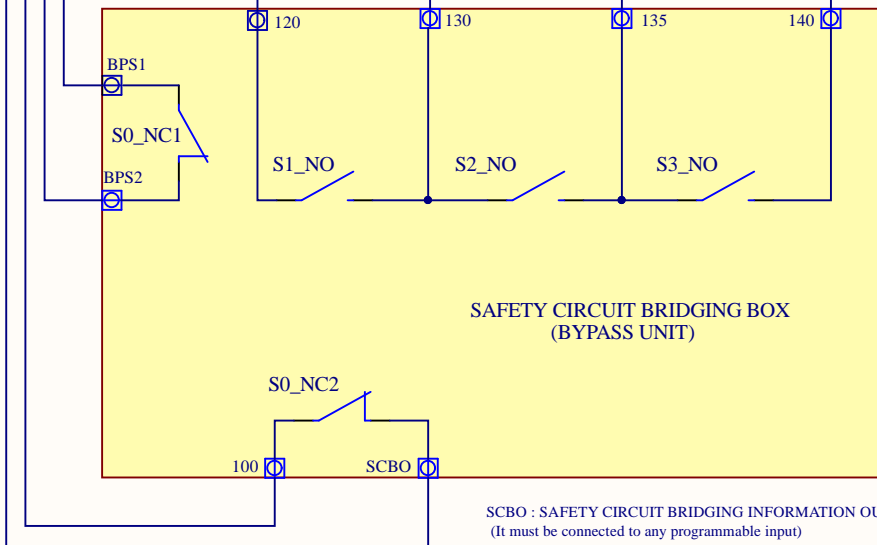
Date: 3.03.2020

Sheet: 10



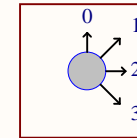
www.mikrolift.com

140-P:2-CR:6C
 135-P:2-CR:6C
 130-P:2-CR:6B
 120-P:2-CR:6B
 BPS1-P:7x-CR:1D
 BPS2-P:7x-CR:1D
 100-P:1x-CR:10B
 PGx-P:2-CR:6F



SCBO : SAFETY CIRCUIT BRIDGING INFORMATION OUTPUT
 (It must be connected to any programmable input)

MULTI STEPS CAM SWITCHES



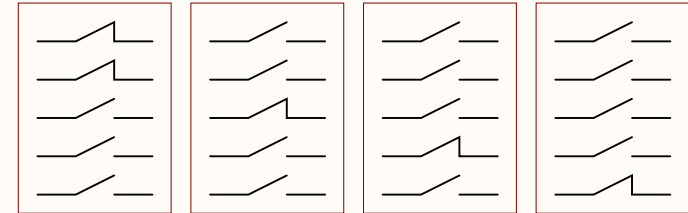
STATE 0
 (Normal)

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 50**

Revision: 1

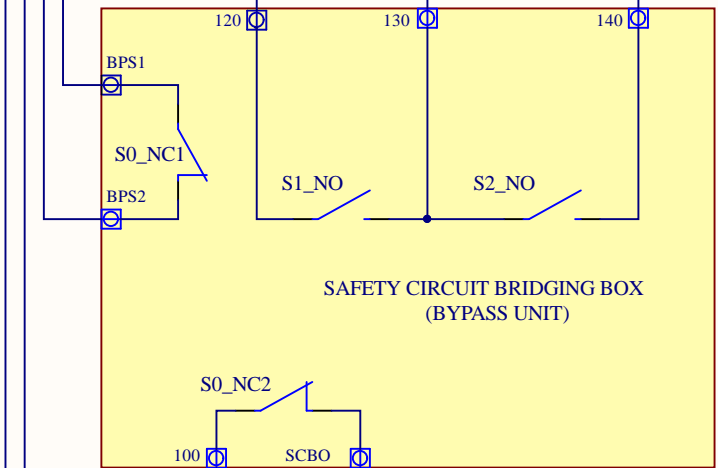
Date: 3.03.2020

Sheet: 11a



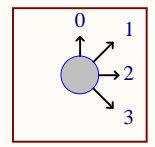
www.mikrolift.com

140-P:2-CR:6C
 130-P:2-CR:6B
 120-P:2-CR:6B
 BPS1-P:7x-CR:1D
 BPS2-P:7x-CR:1D
 100-P:1x-CR:10B
 PGx-P:2-CR:6F



SCBO : SAFETY CIRCUIT BRIDGING INFORMATION OUTPUT
 (It must be connected to any programmable input)

MULTI STEPS CAM SWITCHES

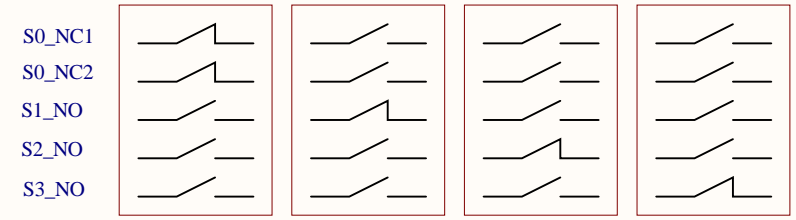


STATE 0
(Normal)

STATE 1
(120-130 Shunted)

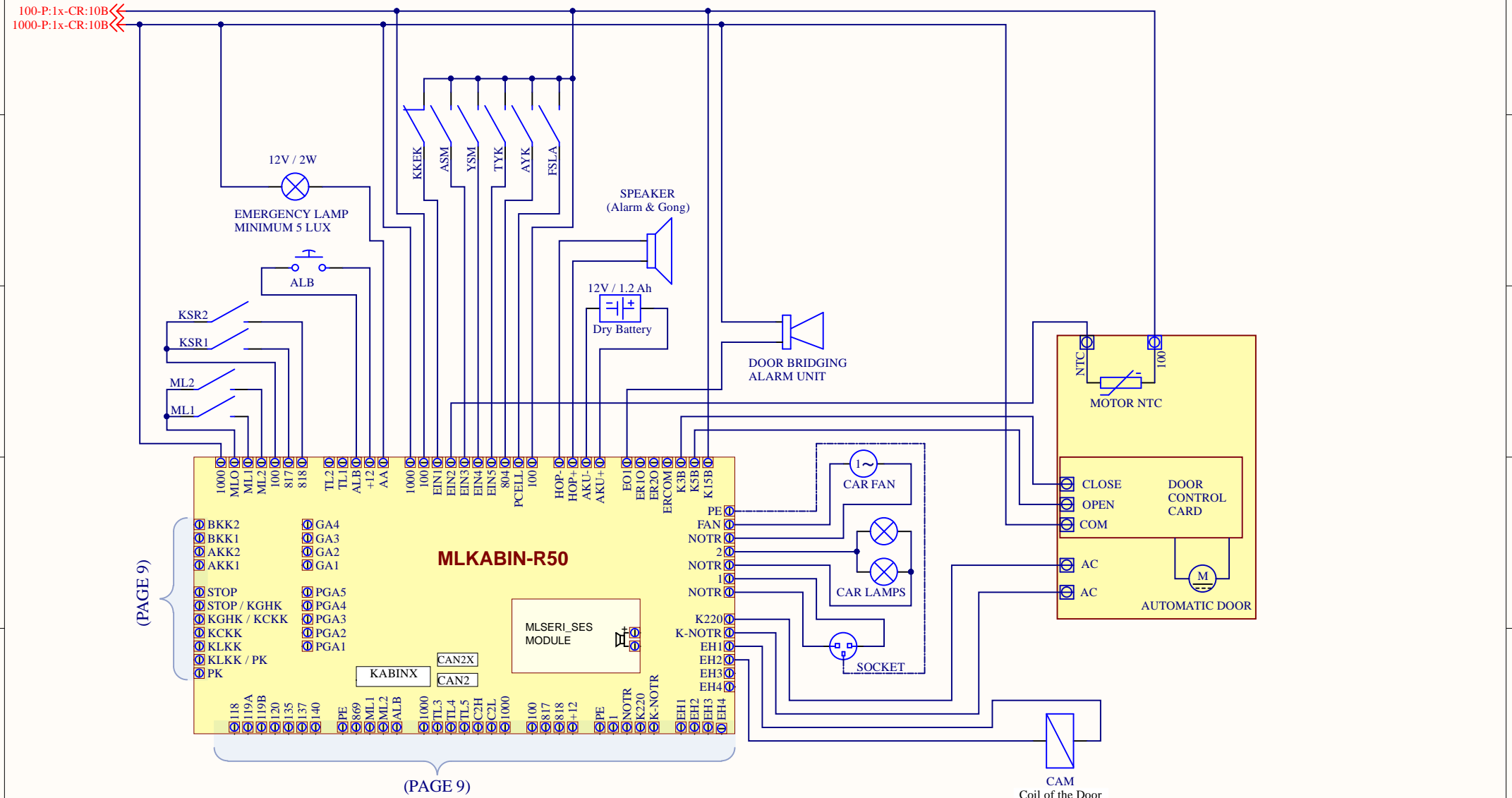
STATE 2
(130-140 Shunted)

STATE 3
(Not Used)



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

Title : Safety Circuit Bridging Box Scheme For Full Automatic		
Project: MLCOMBO 50	Revision: 1	
Date: 3.03.2020	Sheet: 11b	
		www.mikrolift.com



- | | |
|---|---|
| ASM : DOWN RE-LEVELLING MONO-STABILE SWITCH | KSR1 : DOWN LIMIT BI-STABLE SWITCH |
| YSM : UP RE-LEVELLING MONO-STABILE SWITCH | KSR2 : UP LIMIT BI-STABLE SWITCH |
| TYK : FULL LOAD CONTACT | ML1 : DOOR OPEN ZONE MONO STABLE SWITCH |
| AYK : OVERLOAD CONTACT | ML2 : DOOR OPEN ZONE MONO STABLE SWITCH |
| FSLA : PHOTOCCELL CONTACT | |
| KKEK : CAR DOOR EXTRA CONTACT | |
| ALB : ALARM BUTTON | |
| FSLA : PHOTOCCELL CONTACT FOR DOOR A | |

Title : **Top Of The Car Wiring Connection**

Project : **MLCOMBO 50** Revision : 1

Date : 3.03.2020 Sheet : 12



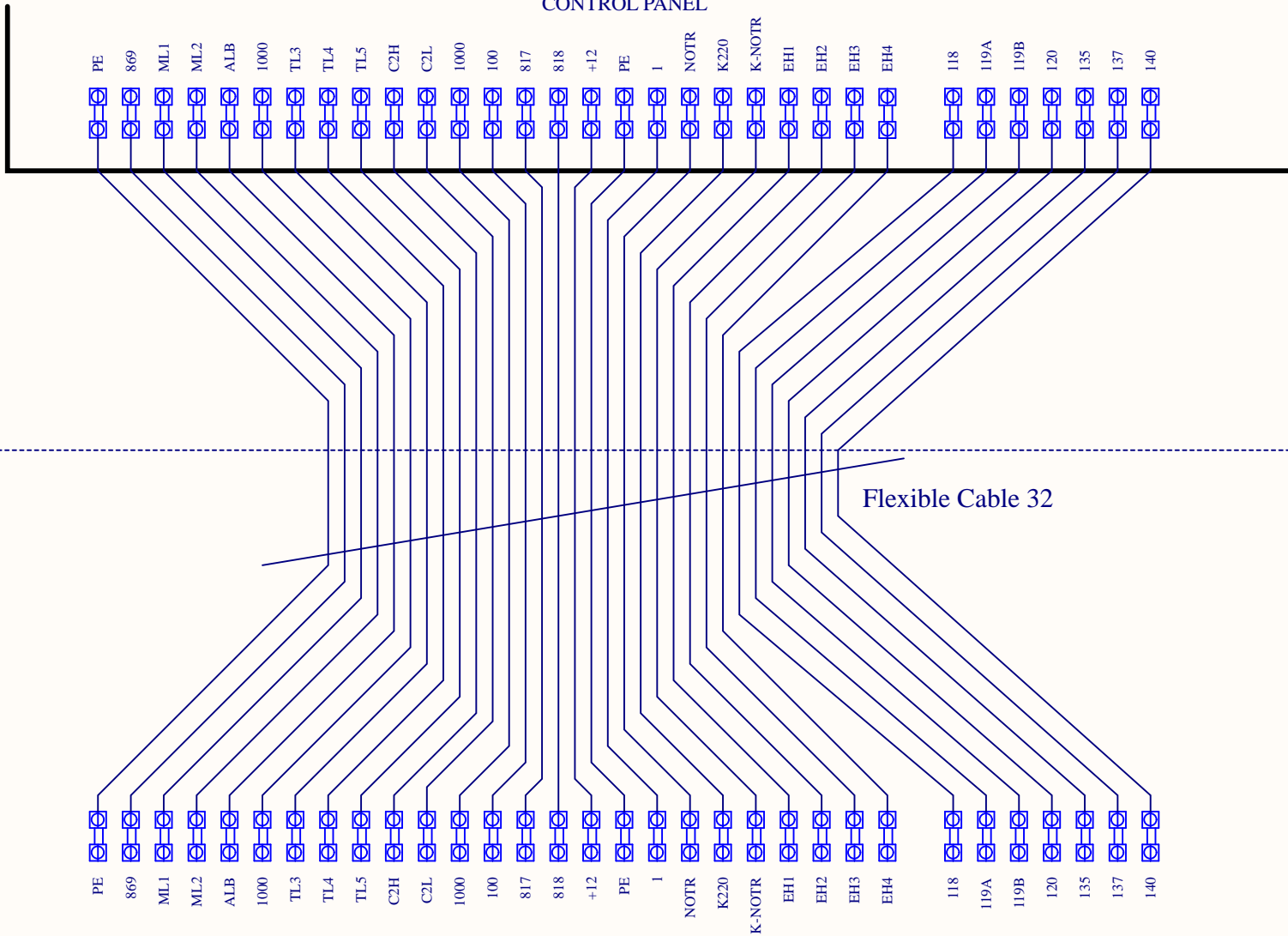
(PAGE 9)

(PAGE 9)


CONTROL PANEL

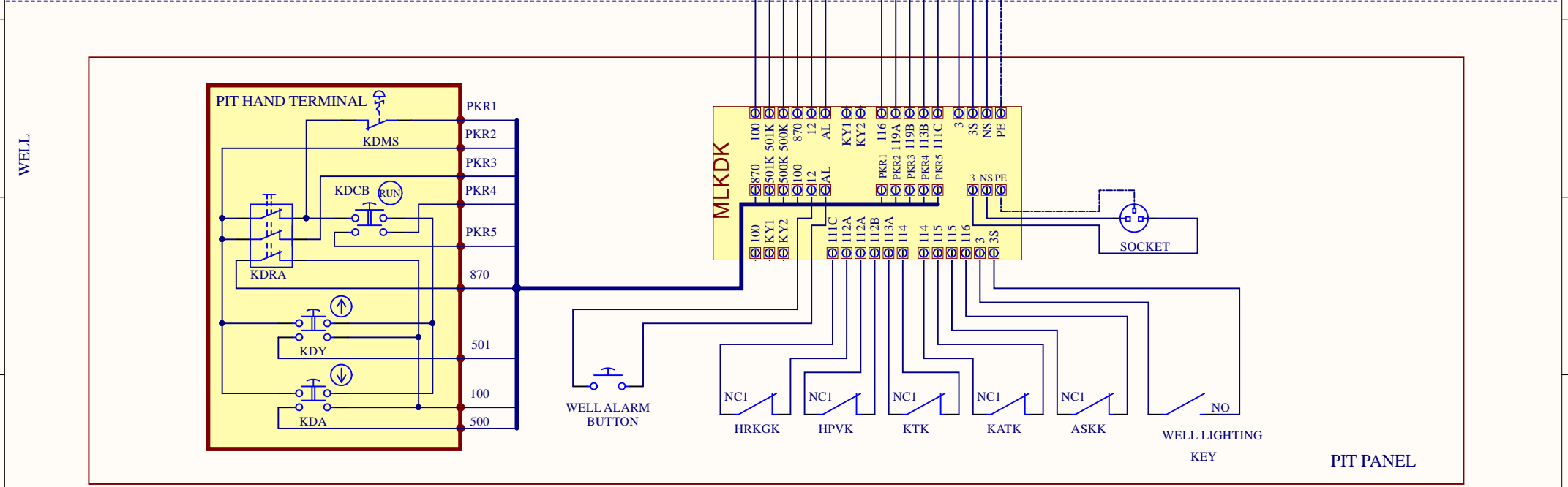
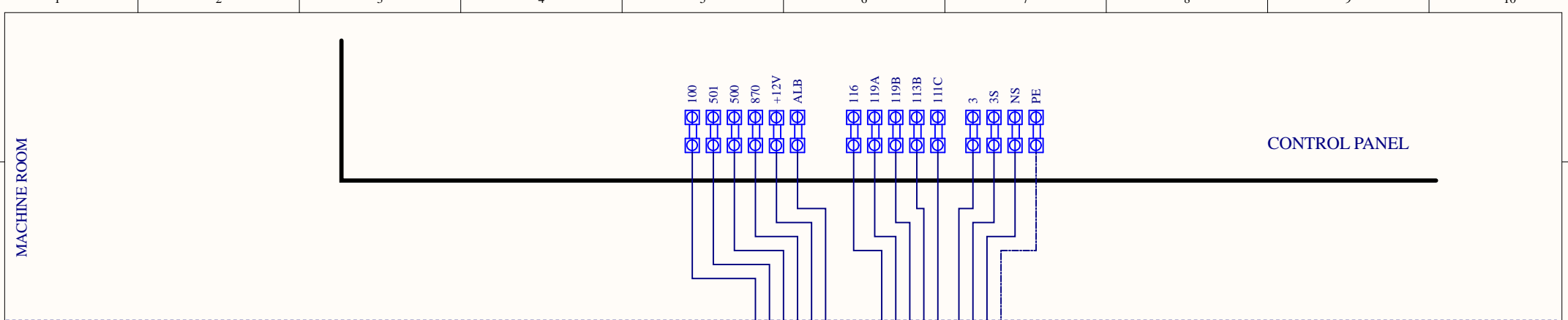
MACHINE ROOM

TOP OF THE CAR



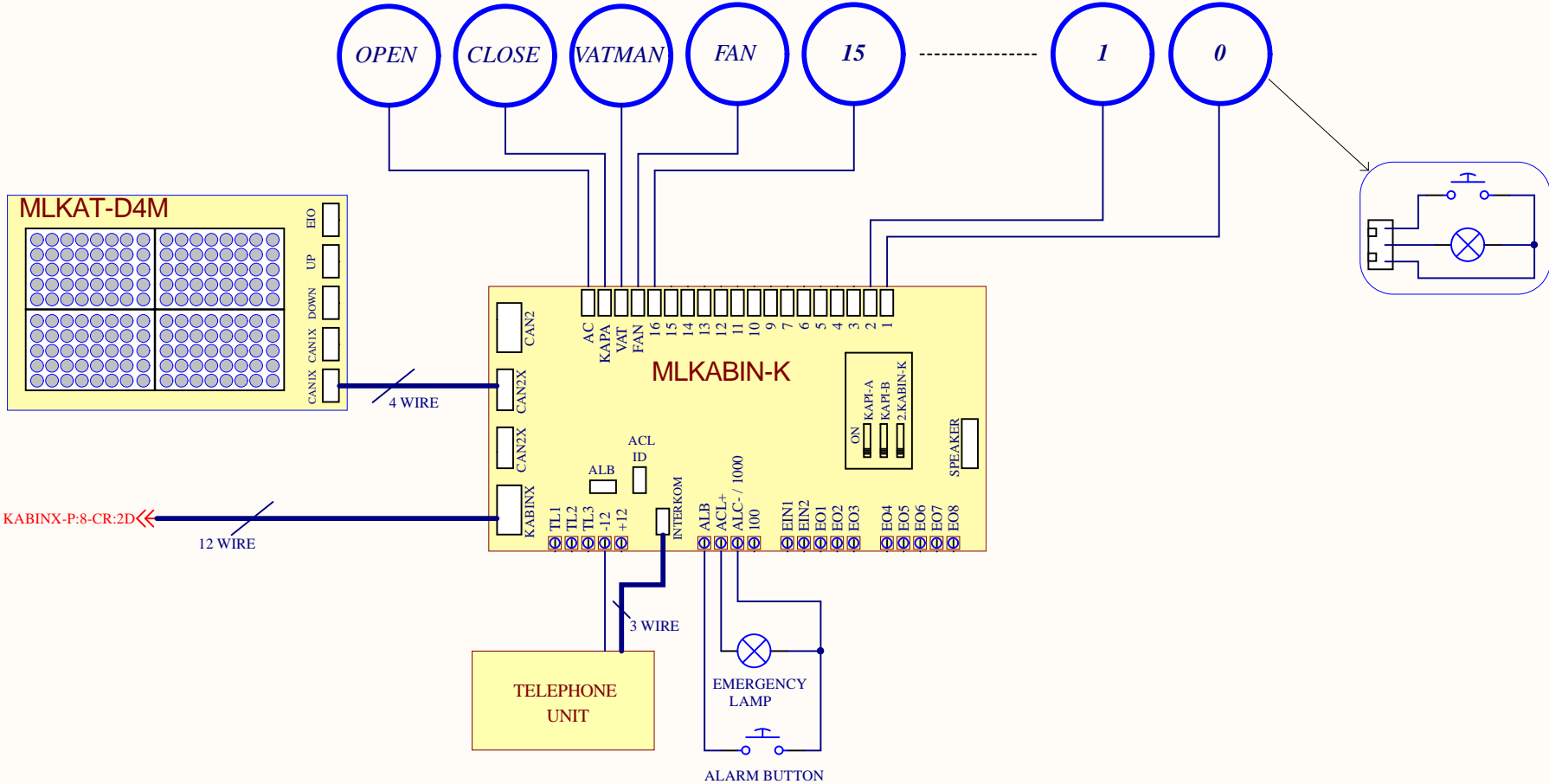
EH1 : EXTRA LINE OR 810
 EH2 : EXTRA LINE OR 2001
 EH3 : EXTRA LINE
 EH4 : EXTRA LINE

Title : Flexible Cable Connections		 www.mikrolift.com
Project : MLCOMBO 50	Revision: 1	
Date: 3.03.2020	Sheet: 13	



- | | |
|----------------------------------|--|
| KDMS : PIT EMERGENCY STOP BUTTON | HRKGK : TENSION WEIGHT CONTACT |
| KDCB : PIT INSPECTION RUN BUTTON | HPVK : HOSE BLOWVALVE CONTACT
(FOR HYDRAULIC SYSTEMS) |
| KDRA : PIT INSPECTION CONTACT | KTK : BUFFER CONTACT |
| KDY : PIT INSPECTION UP BUTTON | KATK : COUNTER WEIGHT BUFFER CONTACT |
| KDA : PIT INSPECTION DOWN BUTTON | ASKK : PIT END LIMIT SWITCH CONTACT |

Title : PIT Wiring		mikrolift®
Project : MLCOMBO 50	Revision : 1	
Date : 3.03.2020	Sheet : 14	
		www.mikrolift.com



Title : *Cabin Operation Panel Connection*

Project : *MLCOMBO 50*

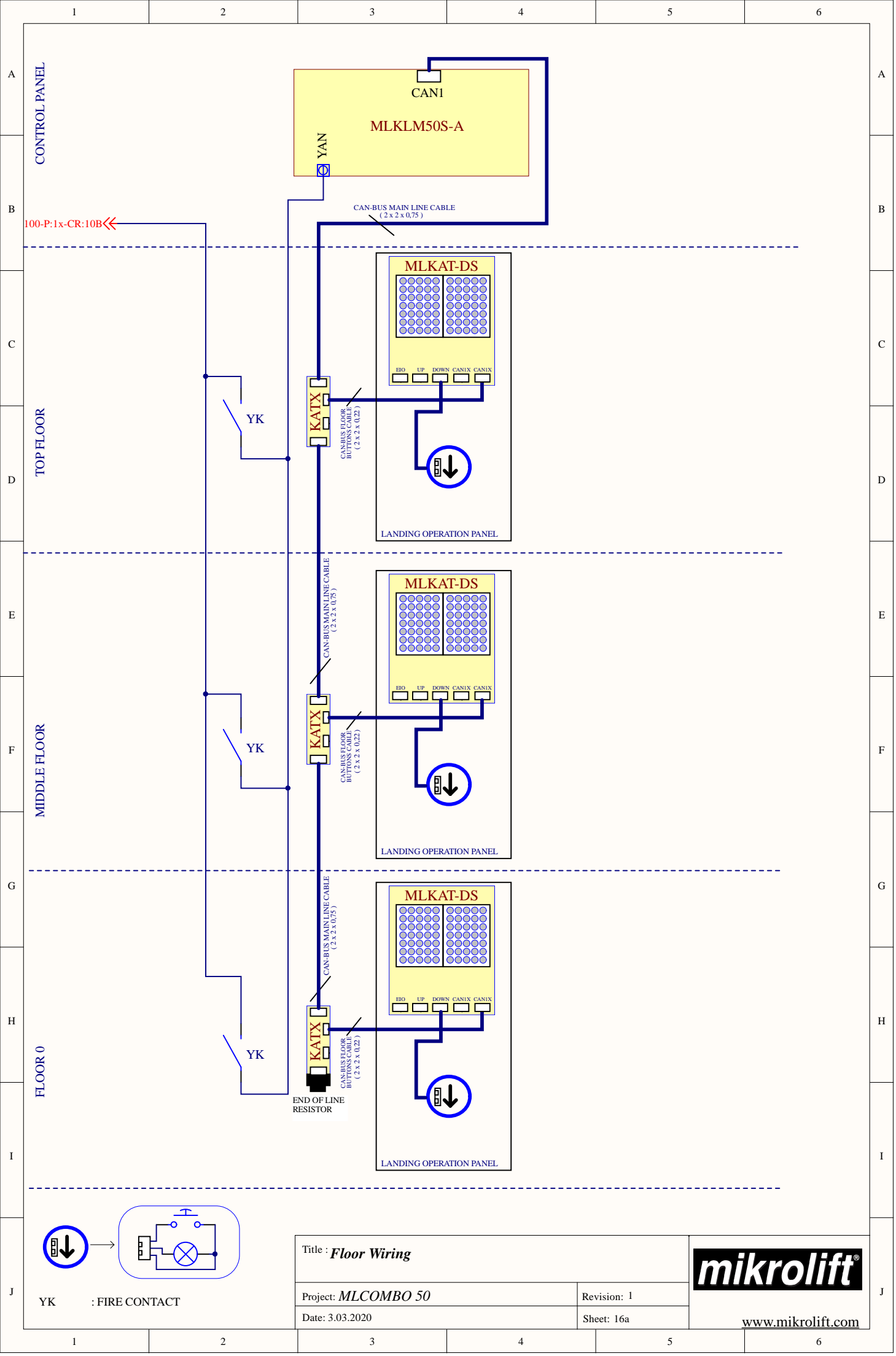
Revision: 1

Date: 3.03.2020

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CONTROL PANEL

TOP FLOOR

MIDDLE FLOOR

FLOOR 0

CAN1
MLKLM50S-A

CAN-BUS MAIN LINE CABLE
(2 x 2 x 0.75)

MLKAT-DS

E/O UP DOWN CANIX CANIX

LANDING OPERATION PANEL

MLKAT-DS

E/O UP DOWN CANIX CANIX

LANDING OPERATION PANEL

MLKAT-DS

E/O UP DOWN CANIX CANIX

LANDING OPERATION PANEL

KATX

CAN-BUS MAIN LINE CABLE
BUTTONS CABLE
(2 x 2 x 0.22)

KATX

CAN-BUS MAIN LINE CABLE
BUTTONS CABLE
(2 x 2 x 0.22)

KATX

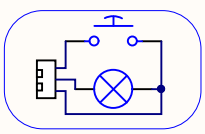
END OF LINE RESISTOR

100-P:1x-CR:10B

YK

YK

YK



YK : FIRE CONTACT

Title : **Floor Wiring**

Project: **MLCOMBO 50**

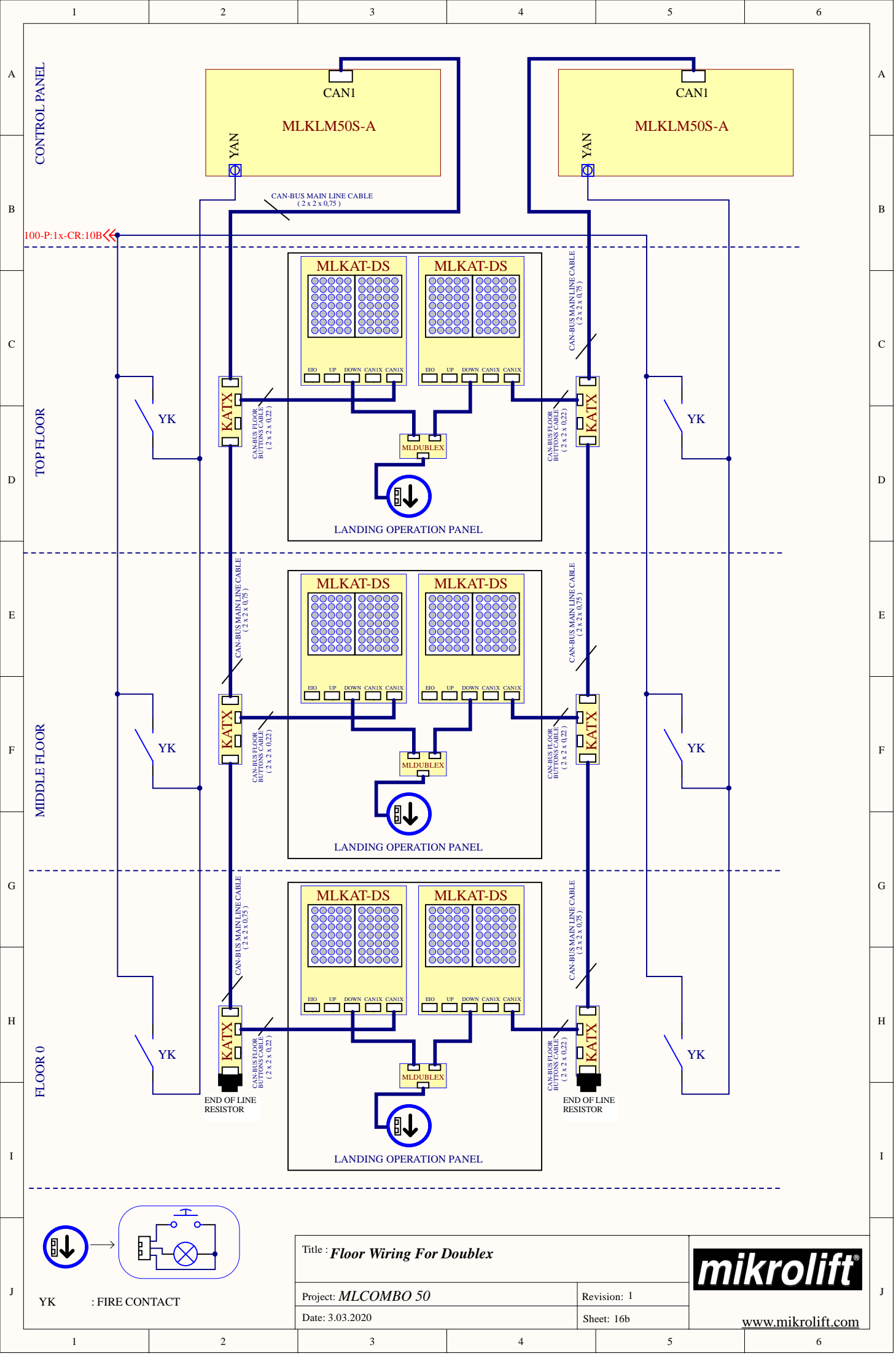
Date: 3.03.2020

Revision: 1

Sheet: 16a



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100-P:1x-CR:10B

YK : FIRE CONTACT

Title : *Floor Wiring For Doublex*

Project: *MLCOMBO 50*

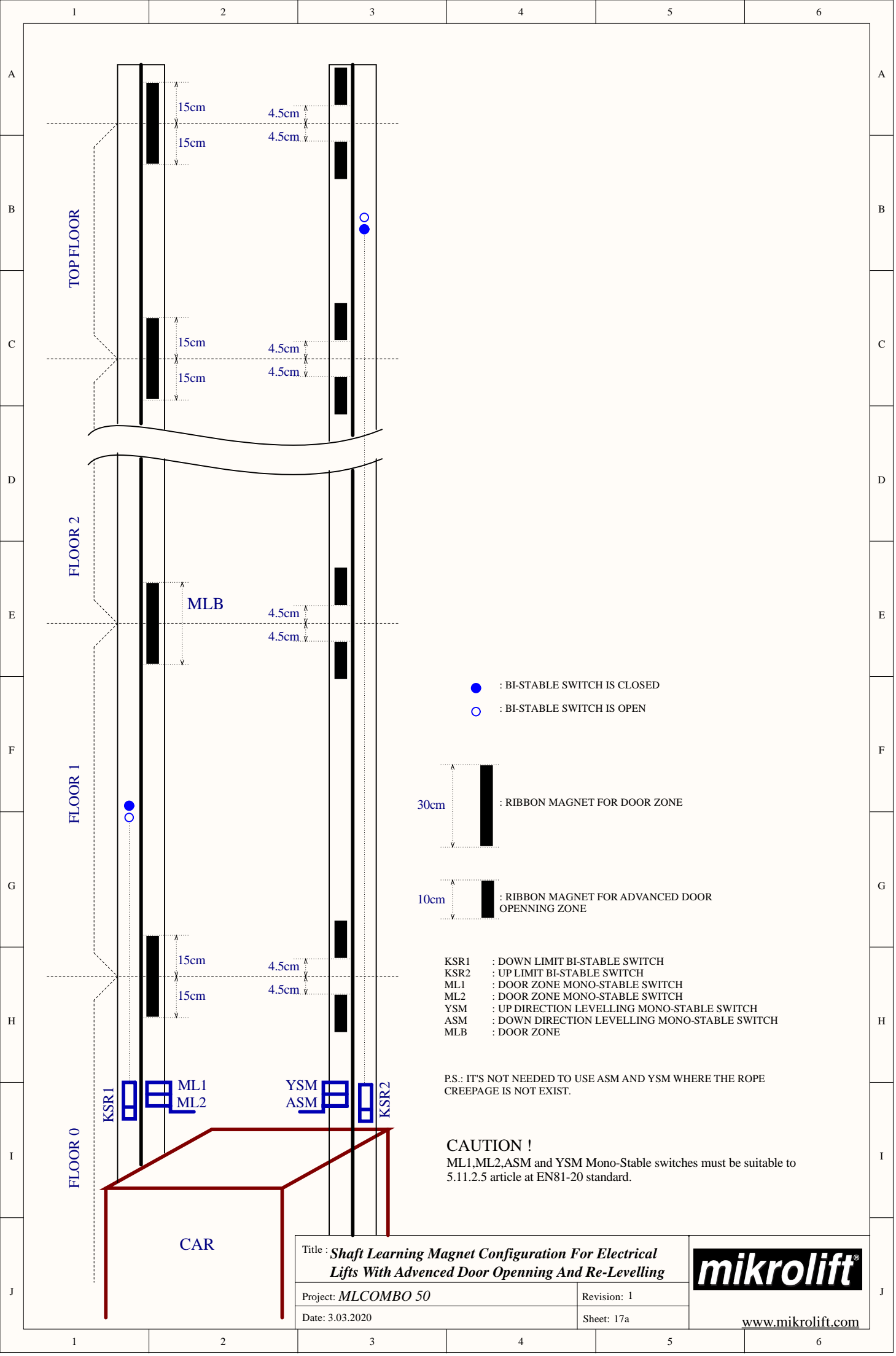
Date: 3.03.2020

Revision: 1

Sheet: 16b



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TOP FLOOR

FLOOR 2

FLOOR 1

FLOOR 0

CAR

MLB

KSR1

ML1

ML2

YSM

ASM

KSR2

- : BI-STABLE SWITCH IS CLOSED
- : BI-STABLE SWITCH IS OPEN

30cm : RIBBON MAGNET FOR DOOR ZONE

10cm : RIBBON MAGNET FOR ADVANCED DOOR OPENNING ZONE

- KSR1 : DOWN LIMIT BI-STABLE SWITCH
- KSR2 : UP LIMIT BI-STABLE SWITCH
- ML1 : DOOR ZONE MONO-STABLE SWITCH
- ML2 : DOOR ZONE MONO-STABLE SWITCH
- YSM : UP DIRECTION LEVELLING MONO-STABLE SWITCH
- ASM : DOWN DIRECTION LEVELLING MONO-STABLE SWITCH
- MLB : DOOR ZONE

P.S.: IT'S NOT NEEDED TO USE ASM AND YSM WHERE THE ROPE CREEPAGE IS NOT EXIST.

CAUTION !
ML1,ML2,ASM and YSM Mono-Stable switches must be suitable to 5.11.2.5 article at EN81-20 standard.

Title : *Shaft Learning Magnet Configuration For Electrical Lifts With Advenced Door Opening And Re-Llevling*

Project : *MLCOMBO 50*

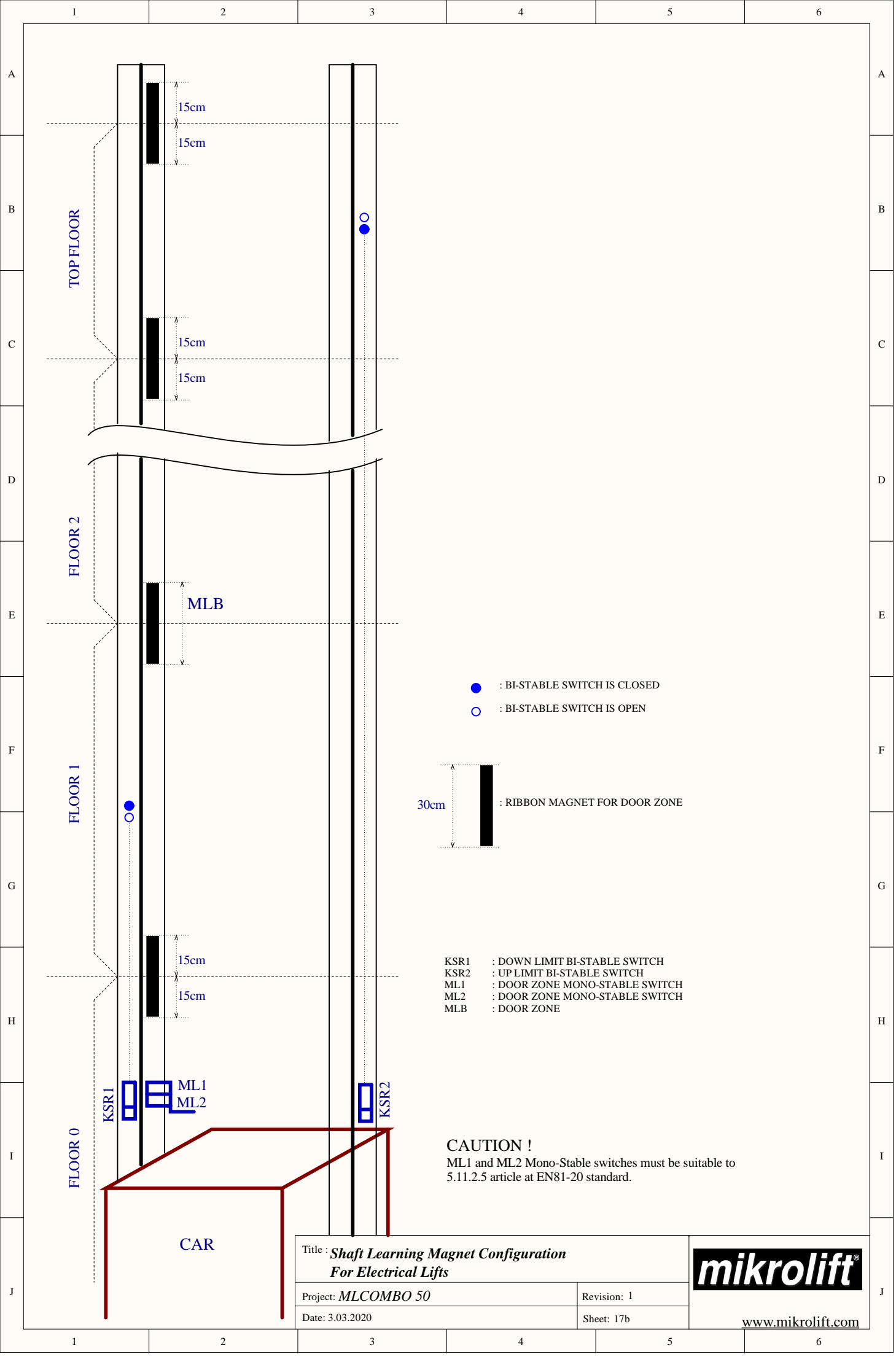
Date : 3.03.2020

Revision : 1

Sheet : 17a



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TOP FLOOR

FLOOR 2

FLOOR 1

FLOOR 0

15cm
15cm

15cm
15cm

MLB

15cm
15cm

KSR1

ML1
ML2

KSR2

CAR

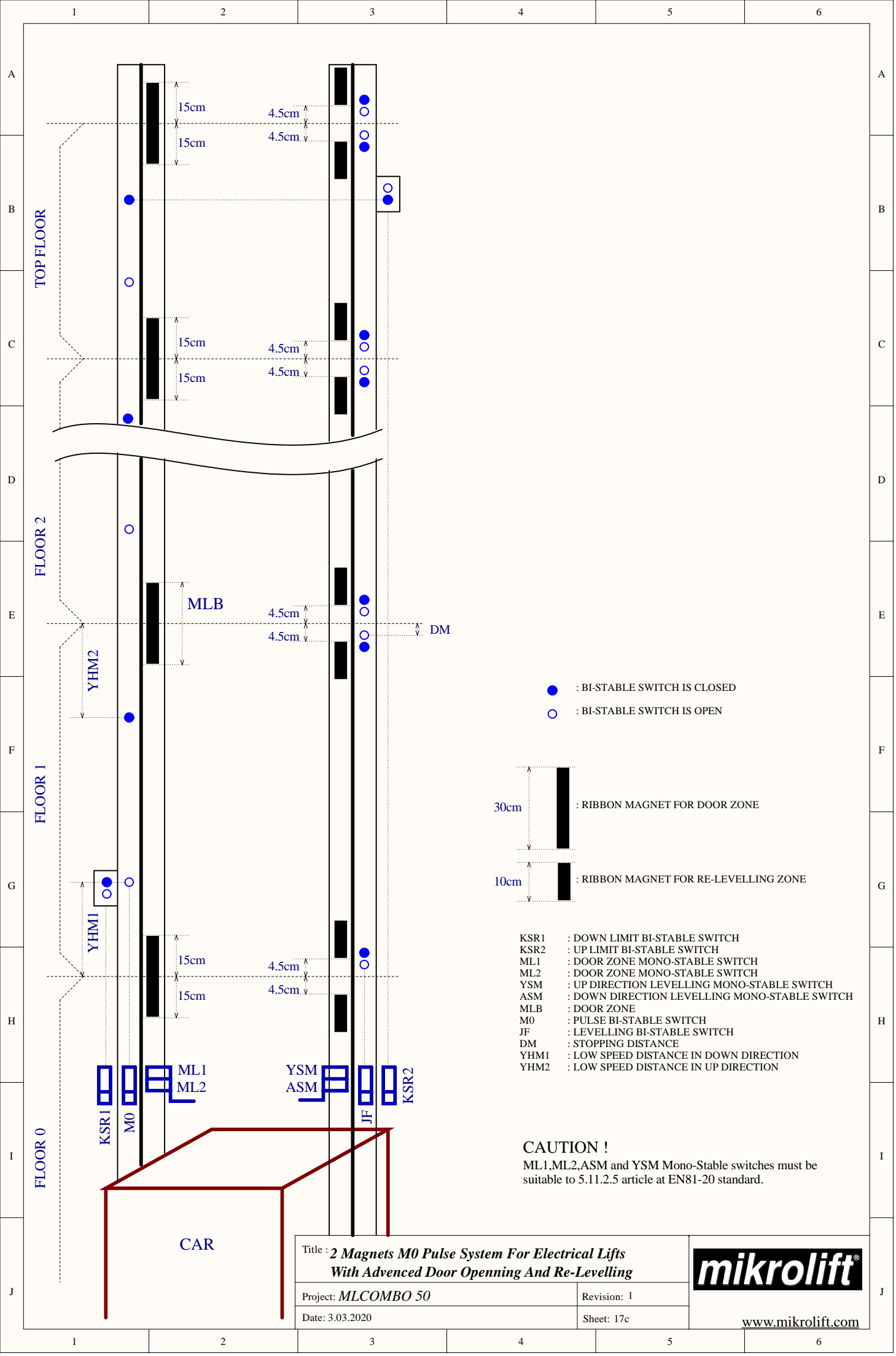
- : BI-STABLE SWITCH IS CLOSED
- : BI-STABLE SWITCH IS OPEN



- KSR1 : DOWN LIMIT BI-STABLE SWITCH
- KSR2 : UP LIMIT BI-STABLE SWITCH
- ML1 : DOOR ZONE MONO-STABLE SWITCH
- ML2 : DOOR ZONE MONO-STABLE SWITCH
- MLB : DOOR ZONE

CAUTION !
ML1 and ML2 Mono-Stable switches must be suitable to 5.11.2.5 article at EN81-20 standard.

Title : <i>Shaft Learning Magnet Configuration For Electrical Lifts</i>		
Project : <i>MLCOMBO 50</i>	Revision : 1	
Date : 3.03.2020	Sheet : 17b	



TOP FLOOR

FLOOR 2

FLOOR 1

FLOOR 0

CAR

- : BI-STABLE SWITCH IS CLOSED
- : BI-STABLE SWITCH IS OPEN

30cm : RIBBON MAGNET FOR DOOR ZONE

10cm : RIBBON MAGNET FOR RE-LEVELLING ZONE

- KSR1 : DOWN LIMIT BI-STABLE SWITCH
- KSR2 : UP LIMIT BI-STABLE SWITCH
- ML1 : DOOR ZONE MONO-STABLE SWITCH
- ML2 : DOOR ZONE MONO-STABLE SWITCH
- YSM : UP DIRECTION LEVELLING MONO-STABLE SWITCH
- ASM : DOWN DIRECTION LEVELLING MONO-STABLE SWITCH
- MLB : DOOR ZONE
- M0 : PULSE BI-STABLE SWITCH
- JF : LEVELLING BI-STABLE SWITCH
- DM : STOPPING DISTANCE
- YHM1 : LOW SPEED DISTANCE IN DOWN DIRECTION
- YHM2 : LOW SPEED DISTANCE IN UP DIRECTION

CAUTION !
 ML1,ML2,ASM and YSM Mono-Stable switches must be suitable to 5.11.2.5 article at EN81-20 standard.

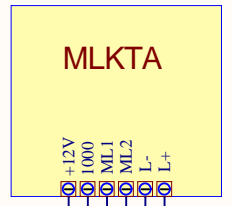
Title : 2 Magnets M0 Pulse System For Electrical Lifts With Advanced Door Opening And Re-Leveling	
Project : MLCOMBO 50	Revision : 1
Date : 3.03.2020	Sheet : 17c



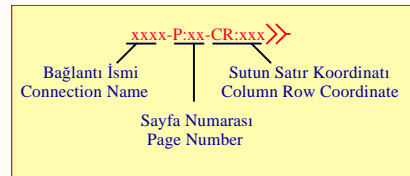
www.mikrolift.com

1000-P:1x-CR:10B >>

ML1-P:3-CR:1B >>
ML2-P:3-CR:1B >>



12V 1W (MAX)
AT FLOOR LEVEL LIGHT



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

Project: **MLCOMBO 50**

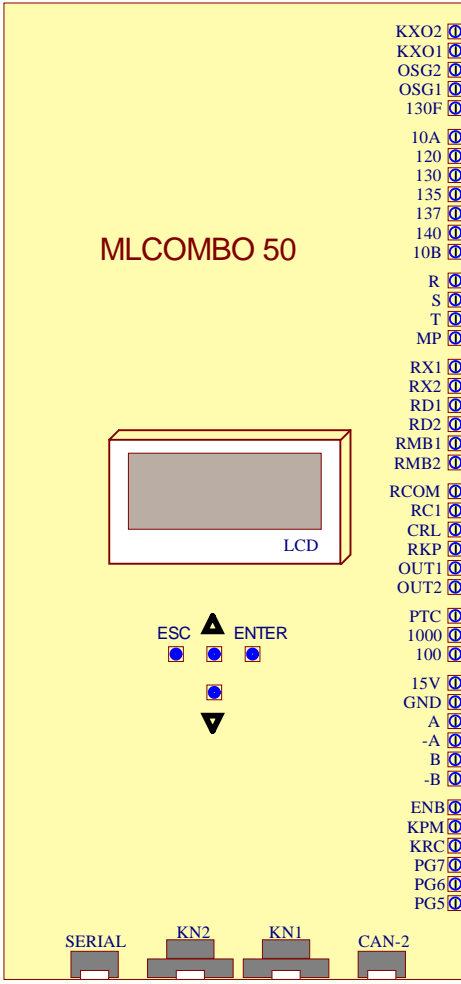
Revision: 1

Date: 3.03.2020

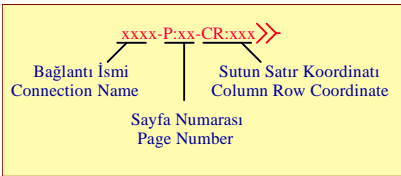
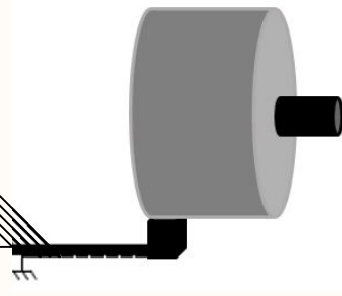
Sheet: 18



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- KXO2
- KXO1
- OSG2
- OSG1
- 130F
- 10A
- 120
- 130
- 135
- 137
- 140
- 10B
- R
- S
- T
- MP
- RX1
- RX2
- RD1
- RD2
- RMB1
- RMB2
- RCOM
- RC1
- CRL
- RKF
- OUT1
- OUT2
- PTC
- 1000
- 100
- 15V
- GND
- A
- A
- B
- B
- ENB
- KPM
- KRC
- PG7
- PG6
- PG5



Title : Incremental Encoder That Has Complemental Outputs Connections	
Project: MLCOMBO 50	Revision: 1
Date: 3.03.2020	Sheet: 19



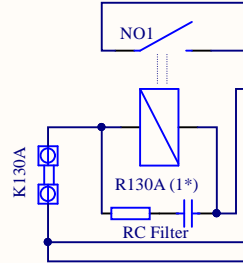
FULL AUTOMATIC

ONLY CAR DOOR AUTOMATIC

CONTROL PANEL

135-P:7-CR:10C
130-P:7-CR:10C
120-P:7-CR:10C
PE-P:7-CR:10C

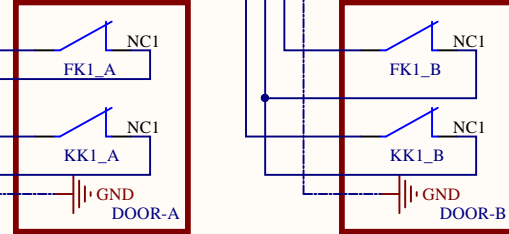
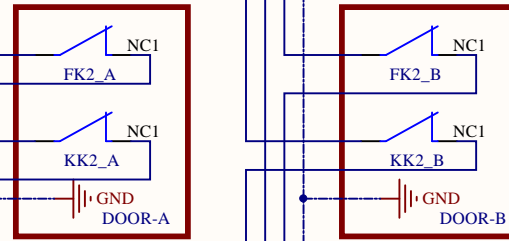
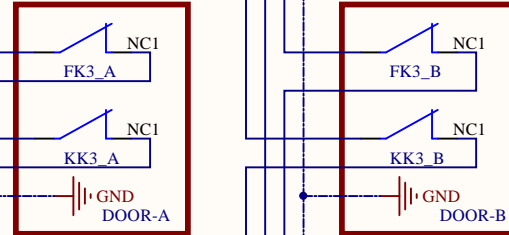
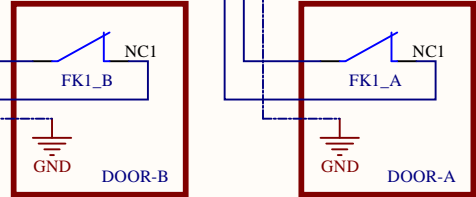
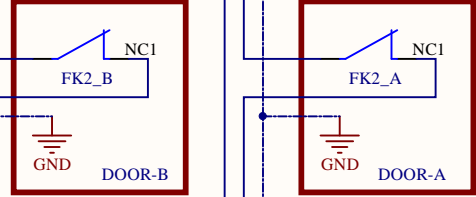
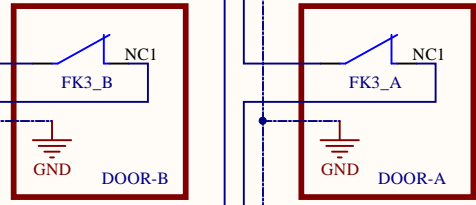
(2*)
PGx-P:2-CR:6F
100-P:1x-CR:10B
10B-P:2-CR:6C
135-P:7-CR:10C
130-P:7-CR:10C
120-P:7-CR:10C
PE-P:7-CR:10C



FLOOR 2

FLOOR 1

FLOOR 0



FKx_A : A SIDE DOOR SOCKET SWITCHES
FKx_B : B SIDE DOOR SOCKET SWITCHES
KKx_A : A SIDE DOOR LOCK SWITCHES
KKx_B : B SIDE DOOR LOCK SWITCHES

1* These relays comply with EN 50205 and they must have 220VAC coils!
RC filters must be connected across the coils of relays!

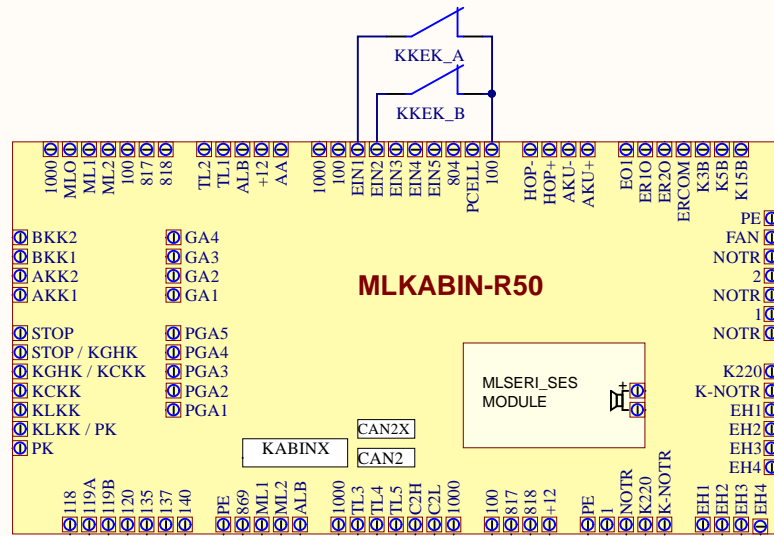
2* These inputs are programmable input of MLCOMBO-50 .

Title : Double Landing Doors Contacts Connections	
Project: MLCOMBO 50	Revision: 1
Date: 3.03.2020	Sheet: 20a



CONTROL PANEL

TOP OF THE CAR



KKEK_A : CAR DOOR A EXTRA CONTACT
 KKEK_B : CAR DOOR B EXTRA CONTACT

Title : **Double Car Doors Contacts Connections**

Project: **MLCOMBO 50**

Revision: 1

Date: 3.03.2020

Sheet: 20b



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