

MAIN: 3 phase circuit breaker 6A or 4A for door motor

SC: Slow Contactor

FC: Fast Contactor

UC: Up Contactor

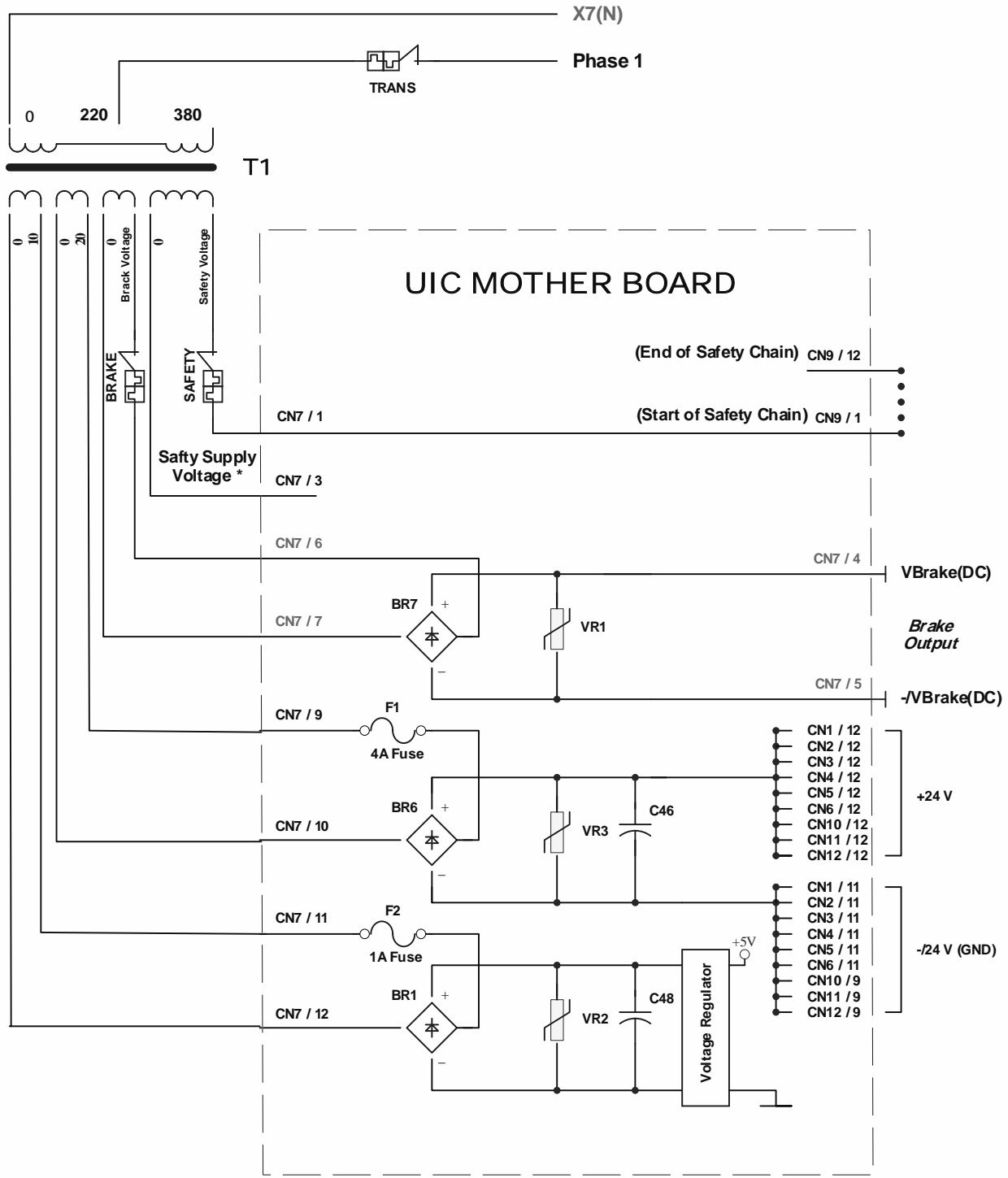
DNC: Down Contactor

\* 4uf /450V Metalized Capacitor

\*\* Feedback signal from brake contact if provided.



Title Main Motor Connection		
Size A4	Number	Revision 2
Date: 8/30/2008	Sheet 1 of 16	
File: H:\wirings\...\1_Main Motor Connection.sch Drawn By: Eng. Radwan Abu Tubbanch		

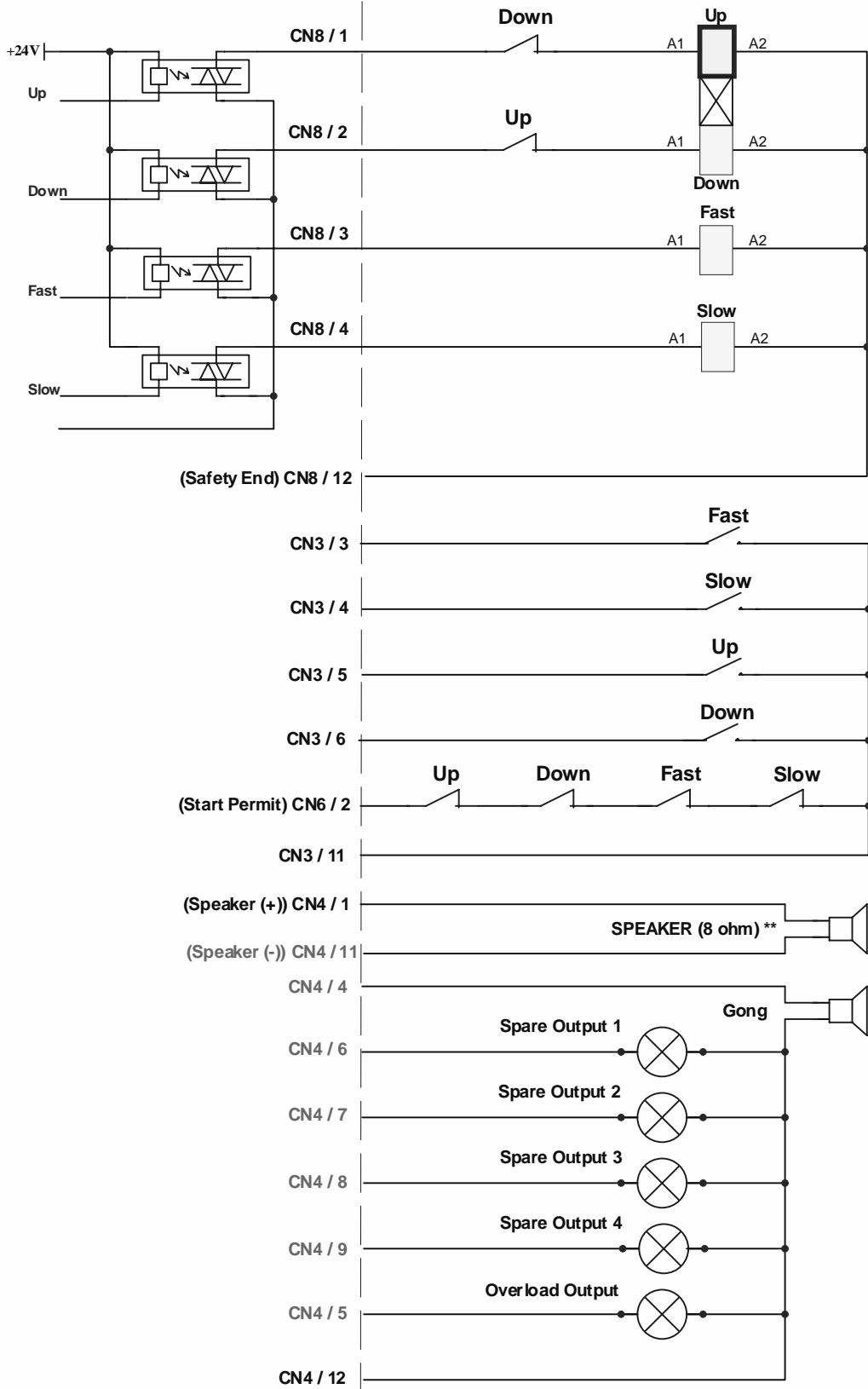


T1 : Single Phase Transformer.  
 SAFETY: 1 A Circuit Braker.  
 BRAKE: 6 A Circuit Braker.  
 \* : Safety Supply Voltage Default 110 VAC.



Title UIC Power Supply Connections		
Size A4	Number	Revision 2
Date: 8/30/2008	Sheet: 2 of 16	
File: H:\wirings\...2_UIC power Supply Connections.dwg By: Eng. Radwan Abu Tubbaneh		

# UIC MOTHER BOARD



Title		
<b>Contactors &amp; Outputs Wiring</b>		
Size	Number	Revision
A4		2
Date:	8/30/2008	Sheet 3 of 16
File:	H:\wirings\...\3_Contactors and Outputs.sch Drawn By: Eng. Radwan AbuTubaneh	

A

A

B

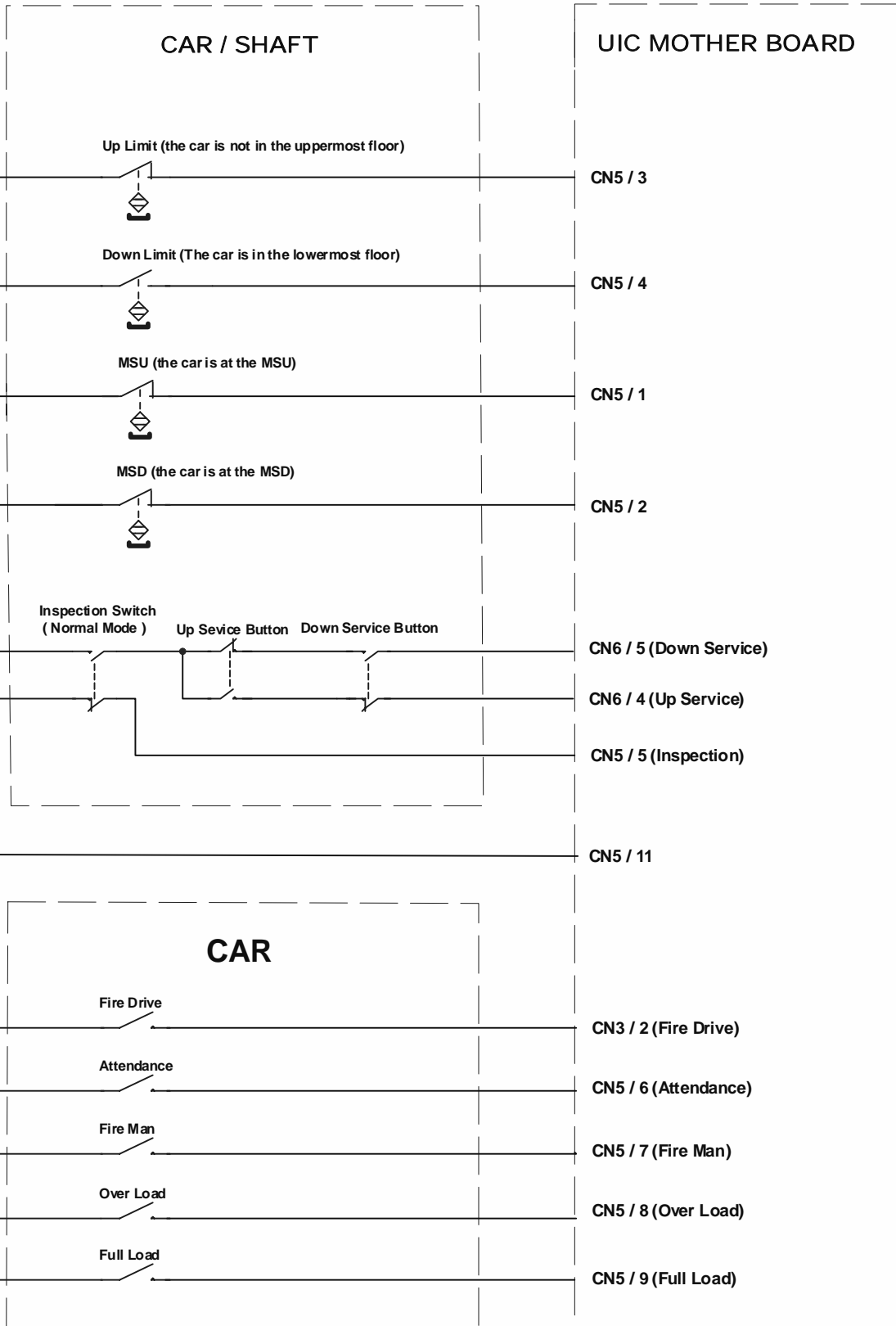
B

C

C

D

D



Title		
Magnetic , Proximity and Input Signals Wiring		
Size	Number	Revision
A4		2
Date:	8/30/2008	Sheet 4 of 16
File:	H:\wirings\...4_Magnetic_Proximity and Input Signals.cad Dr. Sign. By: Eng. Radwan Abu Tubbaneh	

UIC MOTHER BOARD

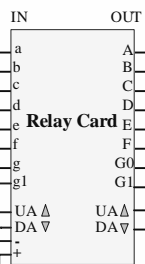
SEGMENT1

SEGMENT2

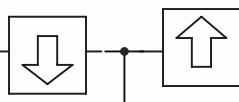
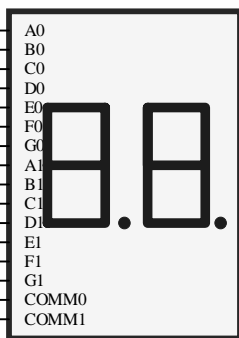
- CN1 / 1
- CN1 / 2
- CN1 / 3
- CN1 / 4
- CN1 / 5
- CN1 / 6
- CN1 / 7
- CN2 / 1
- CN2 / 2
- CN2 / 3
- CN2 / 4
- CN2 / 5
- CN2 / 6
- CN2 / 7
- CN1 / 11
- CN1 / 12 (+24 V)

(Up Arrow) CN4 / 2

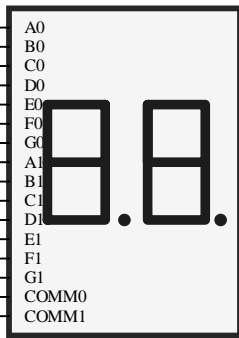
(Down Arrow) CN4 / 3



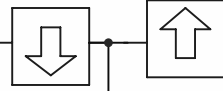
CAR



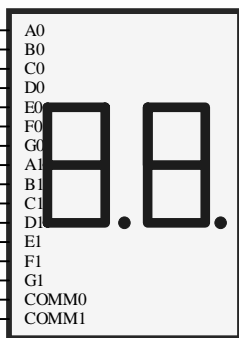
SHAFT



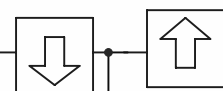
FLOOR 1



...



FLOOR N



Title		
Indicators & Arrows Wiring with Relay Interface		
Size	Number	Revision
A4		1
Date:	8/30/2008	Sheet 5 of 16
File:	H:\wirings\...5 Indicators & Arrows with Relay Interface.SCHDOC	

UIC MOTHER BOARD

SEGMENT1

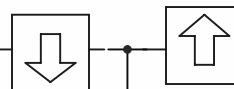
SEGMENT2

- CN1 / 1
- CN1 / 2
- CN1 / 3
- CN1 / 4
- CN1 / 5
- CN1 / 6
- CN1 / 7
- CN2 / 1
- CN2 / 2
- CN2 / 3
- CN2 / 4
- CN2 / 5
- CN2 / 6
- CN2 / 7
- CN1 / 12 (+24 V)

(Down Arrow) CN4 / 3

(Up Arrow) CN4 / 2

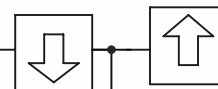
CAR



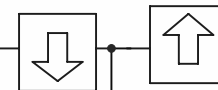
SHAFT



FLOOR 1



FLOOR N



Title		
Indicators & Arrows Wiring		
Size	Number	Revision
A4		2
Date:	8/30/2008	Sheet 5 of 16
File:	H:\wirings\...\5_Indicators & Arrows.sch	Drawn By: Eng Radwan AbuTubaneh

# UIC MOTHER BOARD

CN7 / 3

## Safety Supply Voltage

CN7 / 1

Start of Safety

CN9 / 1

Buffer Well Stop Speed Governor Tension Wheel

## Shaft Safety

CN9 / 2

CN9 / 3

Safety Gear Rope Slack Final Limit Emergency Stop

## Car Safety

CN9 / 4

CN9 / 5

## Optional Safety

CN9 / 6

CN9 / 7

Swing Door 1 . . . . . Swing Door N

## Swing Door Safety

CN9 / 8

CN9 / 9

## Car Door Safety

CN9 / 10

CN9 / 11

Landing Door 1 . . . . . Landing Door N

## Landing Doors Safety

CN9 / 12

CN8 / 12

## Safety End

CN3 / 7

Spare Input 1

CN3 / 8

Spare Input 2

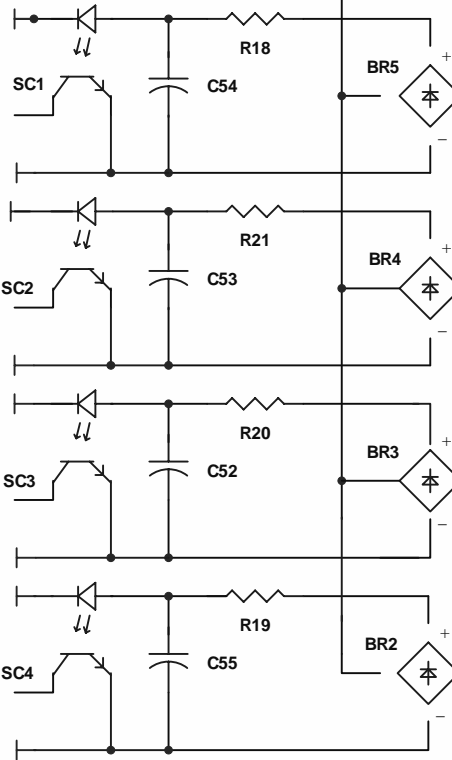
CN3 / 9

Spare Input 3

CN3 / 10

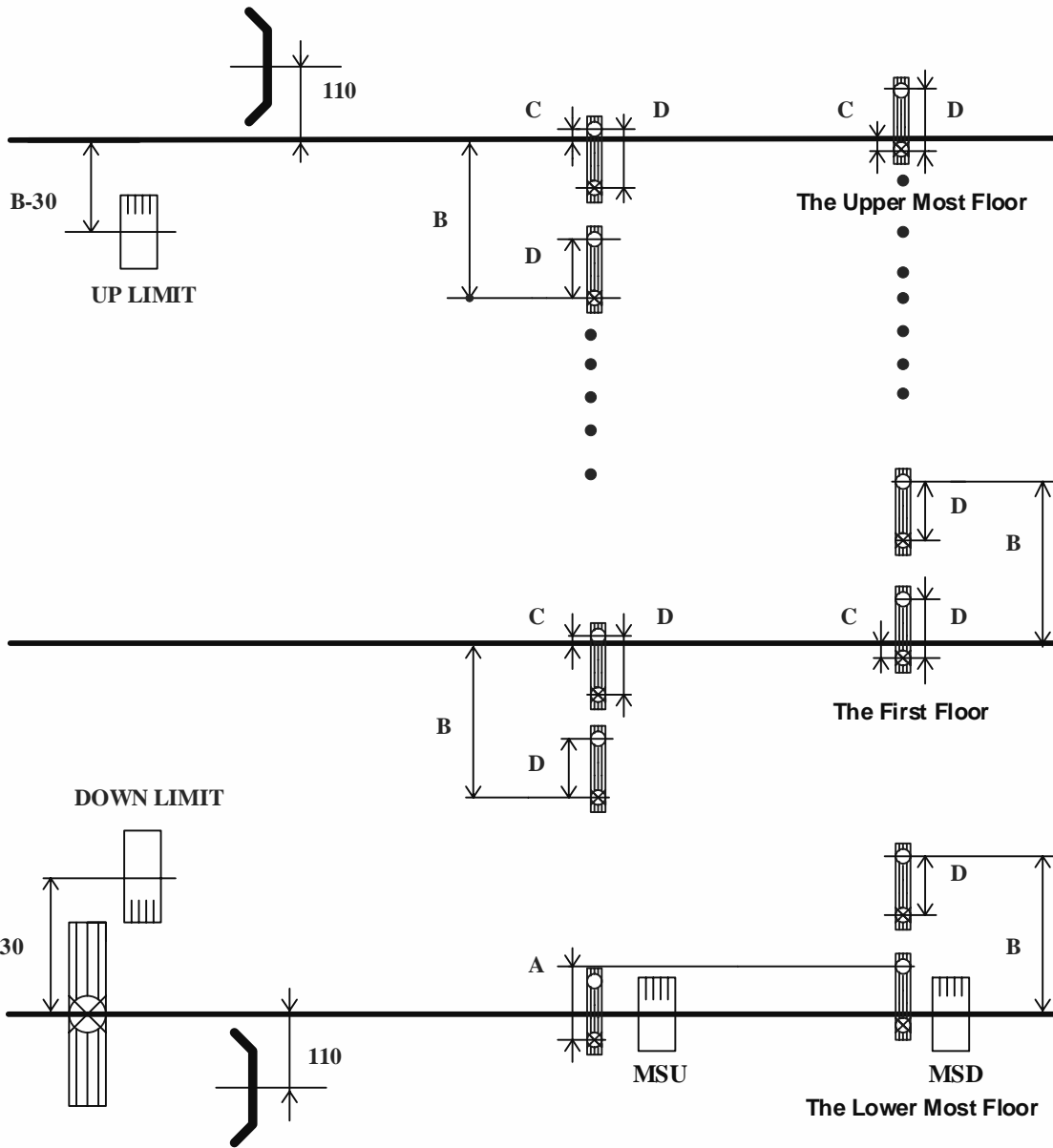
Spare Input 4

(-/24 (GND)) CN3 / 11



In case of swing door, the external door contacts must be connected to CN9 / 7 and CN9 / 8, and the lock of the external door must be connected between CN9 / 11 and CN9 / 12.

Title		
Safety Chain & Spare Inputs Wiring		
Size	Number	Revision
A4		2
Date:	8/30/2008	Sheet 6 of 16
File:	H:\wirings\...6_Safety Chain & Spare Inputs	
	Drawn By: Eng. Radwan Abu Tubaneh	



A=220 mm MAX OF DOOR ZONE

B= DECELERATION DISTANCE

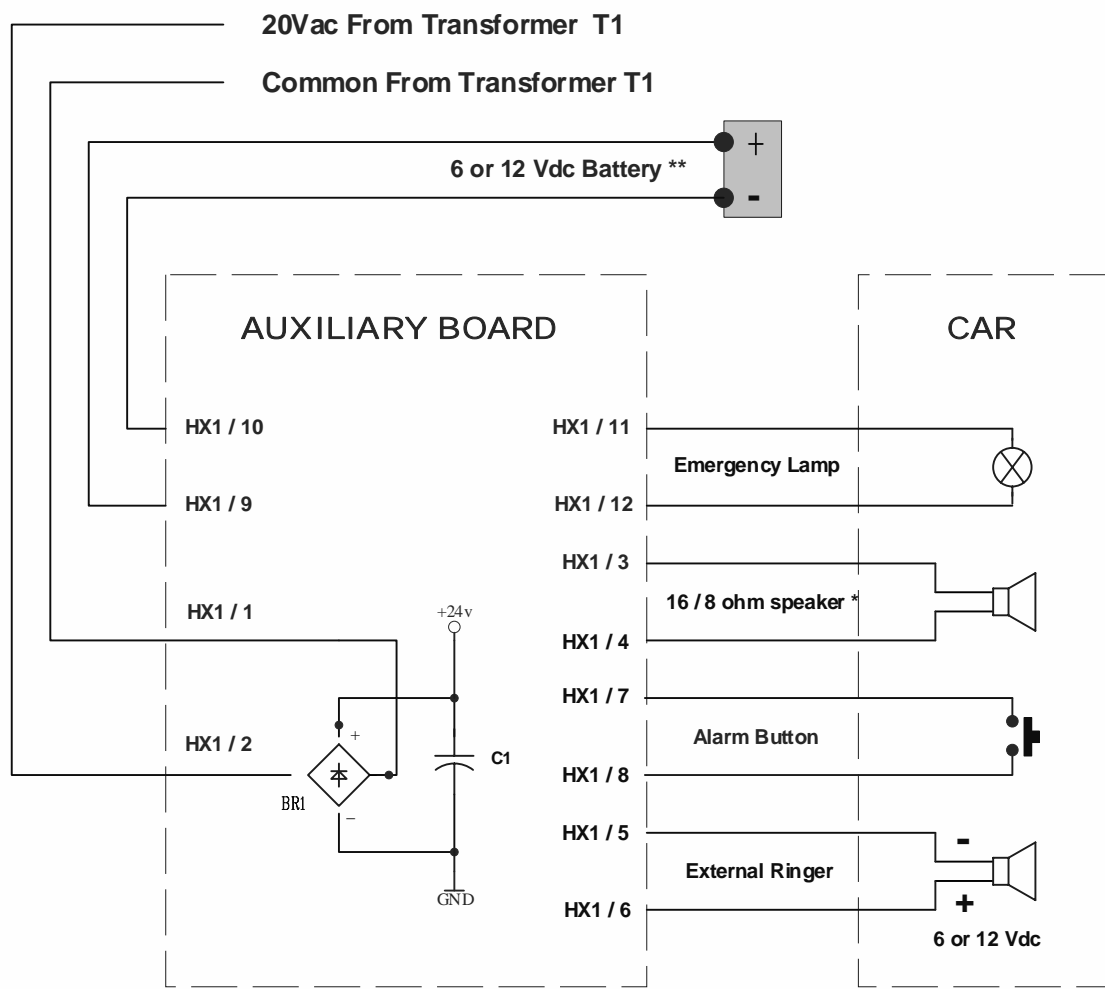
C = STOPPING DISTANCE

D = VANES FOR SPEED CHANGE

SPEED m/s	B / mm	C / mm	D / mm
0.4 / 0.1	400	20	150
0.6 / 0.15	520	25	150
0.8 / 0.2	750	35	150
1 / 0.25	1050	47	150
1.2 / 0.3	1650	65	150



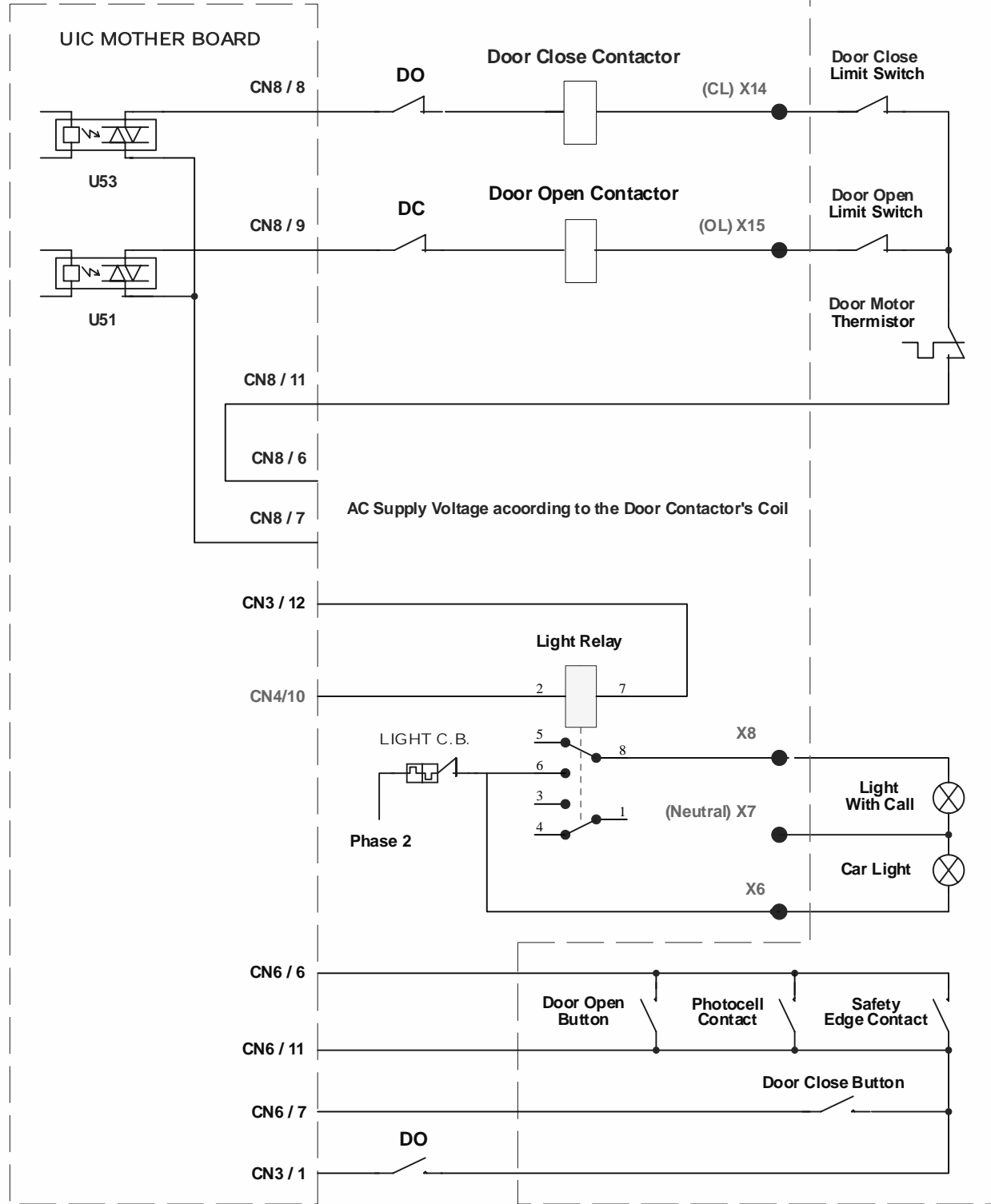
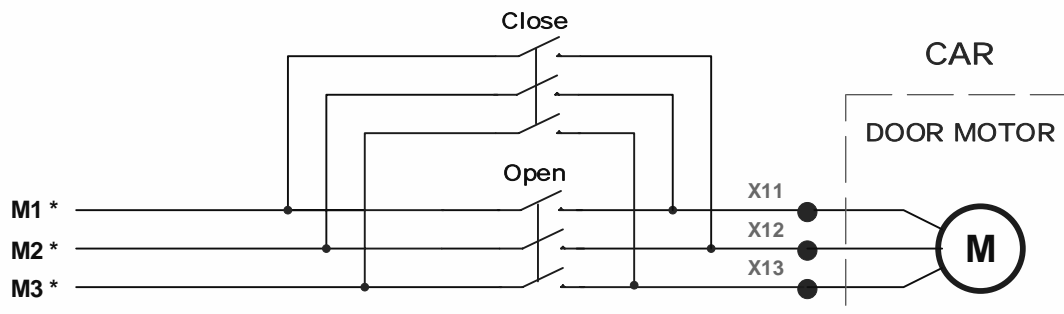
Title Switch Shaft Vanes Wiring		
Size A4	Number	Revision 2
Date: 8/30/2008	Sheet 7 of 16	
File: H:\wirings\...\7_Switch Shaft Vanes Wiring.dwg	Drawn By: Eng Radwan AbuTubaneh	



- \* If R3 is mounted, the speaker must be 16 ohm.
- \*\* If J1 is exist on the Auxiliary Board, External Ringer & Emergency Lamp must be 12Vdc.
- \*\* If J1 is not exist on the Auxiliary Board, External Ringer & Emergency Lamp must be 6Vdc.



Title		
<b>Auxiliary Board Connections</b>		
Size	Number	Revision
A4		2
Date:	8/30/2008	Sheet 8 of 16
File:	H:\wirings\...\8_Auxiliary Board Connection.dwg	
Drawn By:	Eng. Radwan AbuTubaneh	

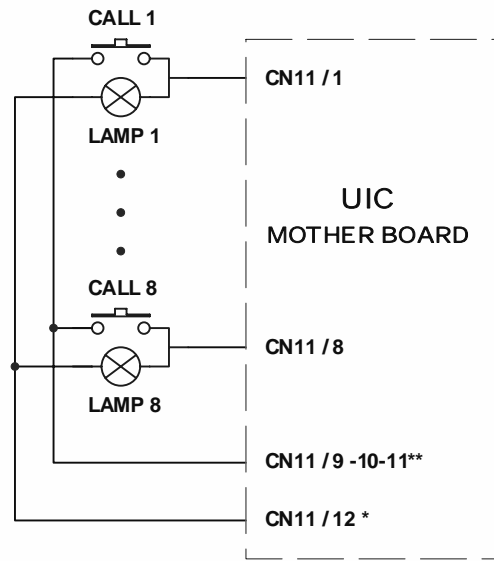
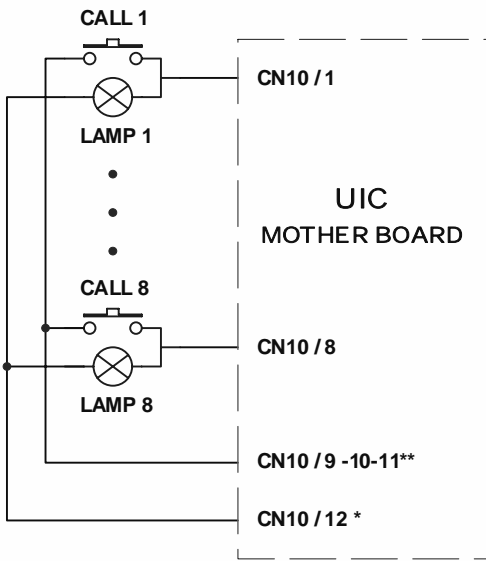


\* Refer to sheet 1

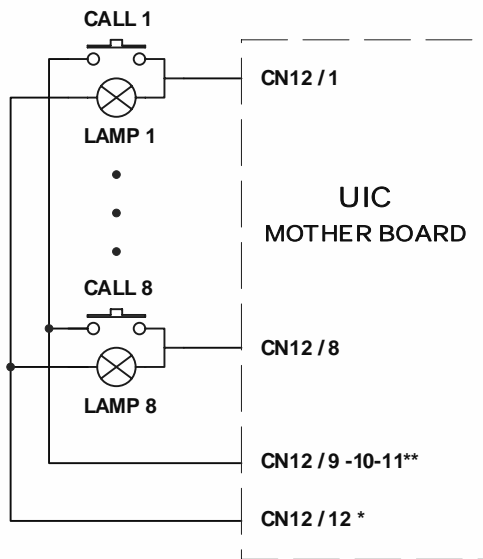
Title		
<b>Three Phase Door Motor Wiring</b>		
Size	Number	Revision
A4		2
Date:	8/30/2008	Sheet 9 of 17
File:	H:\wirings\..9_Three Phase Door Motor_NdDrawn By: Eng Radwan AbuTubaneh	

### UP CALLS / LAMPS

### DOWN CALLS / LAMPS



### CAR CALLS / LAMPS



\* Lamps Common (+24 Vdc)

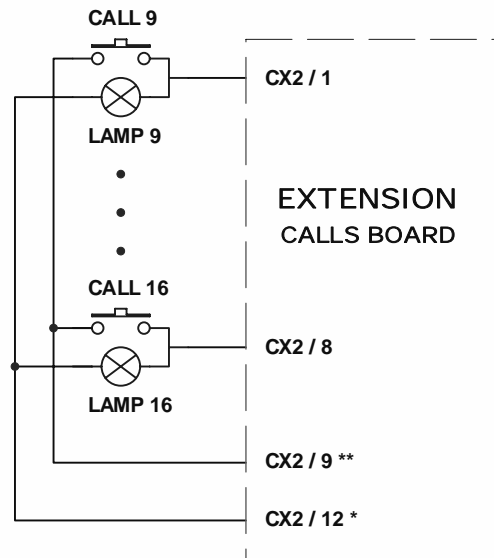
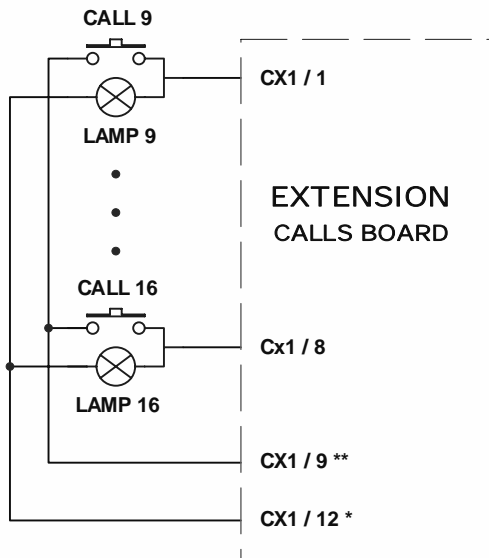
\*\* Call Button Common (GND)



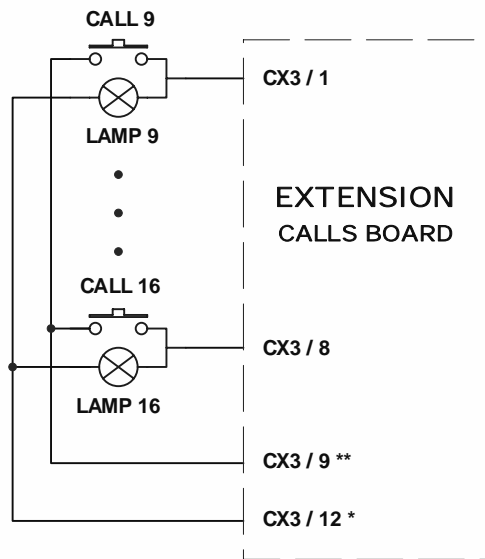
Title Calls for 8 - 16 Stops Full Collective Selective		
Size A4	Number	Revision 2
Date: 8/30/2008	Sheet 10 of 16	
File: H:\wirings\...\10_Full.sch	Drawn By: Eng. Radwan abu Tubaneh	

### UP CALLS / LAMPS

### DOWN CALLS / LAMPS



### CAR CALLS / LAMPS



\* Lamps Common (+24 Vdc)

\*\* Call Button Common (GND)

**Note:**

For the first 8 stopes, refere to sheet 10.



Title		
Extension Calls for 9 - 16 Stops Full Collective Selective		
Size	Number	Revision
A4		2
Date:	8/30/2008	Sheet 11 of 16
File:	H:\wirings\..11_Full_Extension.sch	Drawn By: Eng. Radwan abu Tubaneh

## CALLS FOR 8 - 16 STOPS FULL COLLECTIVE SELECTIVE

### UP CALLS / LAMPS

Stops	Terminal
1	CN10 / 1
2	CN10 / 2
3	CN10 / 3
4	CN10 / 4
5	CN10 / 5
6	CN10 / 6
7	CN10 / 7
8	CN10 / 8

### DOWN CALLS / LAMPS

Stops	Terminal
1	CN11 / 1
2	CN11 / 2
3	CN11 / 3
4	CN11 / 4
5	CN11 / 5
6	CN11 / 6
7	CN11 / 7
8	CN11 / 8

### CAR CALLS / LAMPS

Stops	Terminal
1	CN12 / 1
2	CN12 / 2
3	CN12 / 3
4	CN12 / 4
5	CN12 / 5
6	CN12 / 6
7	CN12 / 7
8	CN12 / 8

## EXTENSION CALLS FOR 9 - 16 STOPS FULL COLLECTIVE SELECTIVE

### UP CALLS / LAMPS

Stops	Terminal
9	CX1 / 1
10	CX1 / 2
11	CX1 / 3
12	CX1 / 4
13	CX1 / 5
14	CX1 / 6
15	CX1 / 7
16	CX1 / 8

### DOWN CALLS / LAMPS

Stops	Terminal
9	CX2 / 1
10	CX2 / 2
11	CX2 / 3
12	CX2 / 4
13	CX2 / 5
14	CX2 / 6
15	CX2 / 7
16	CX2 / 8

### CAR CALLS / LAMPS

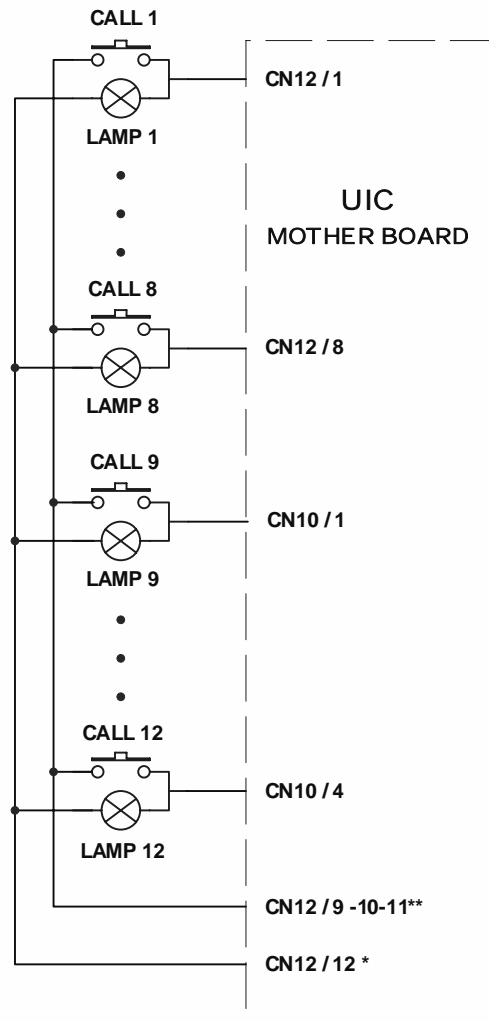
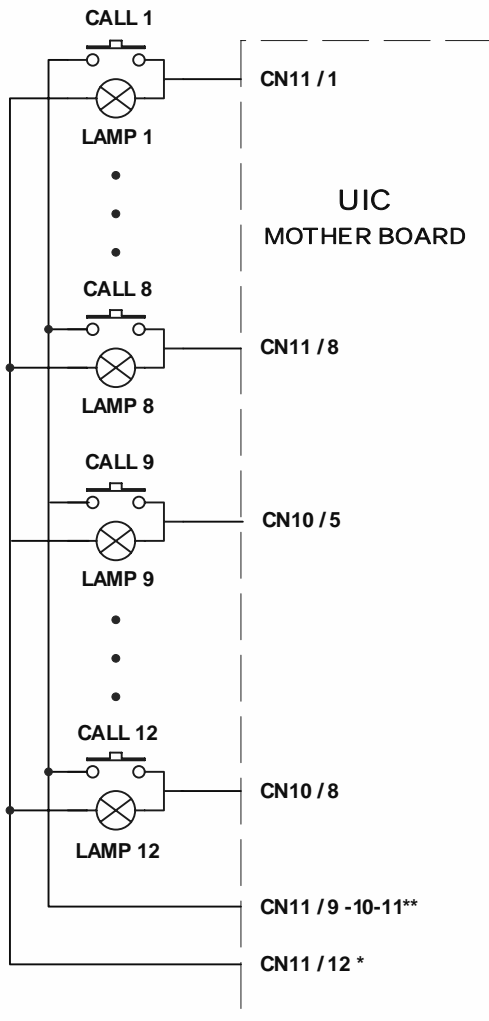
Stops	Terminal
9	CX3 / 1
10	CX3 / 2
11	CX3 / 3
12	CX3 / 4
13	CX3 / 5
14	CX3 / 6
15	CX3 / 7
16	CX3 / 8



Title Calls Wiring Tabel for Full Collective Selective		
Size A4	Number	Revision 2
Date: 8/30/2008	Sheet 12 of 16	
File: H:\wirings\...\12_Full_Tabel.sch	Drawn By: Eng. Radwan abu Tubaneh	

### DOWN CALLS / LAMPS

### CAR CALLS / LAMPS



\* Lamps Common (+24 Vdc)

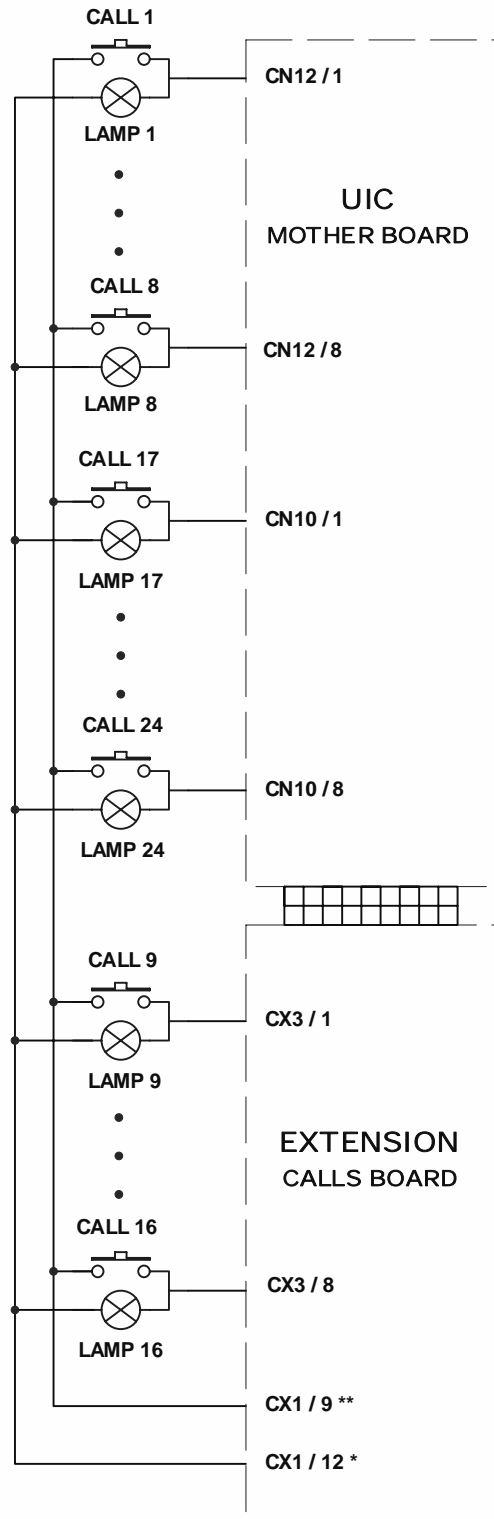
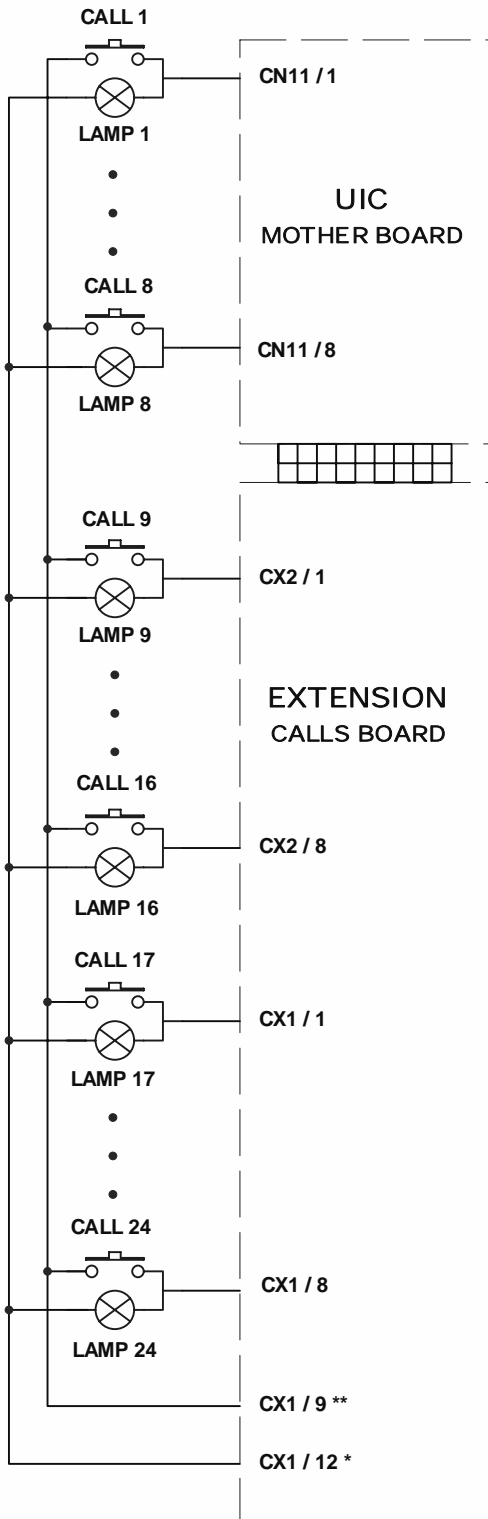
\*\* Call Button Common (GND)



Title		
Calls for 12 Stops Down Collective		
Size	Number	Revision
A4		2
Date:	8/30/2008	Sheet 13 of 16
File:	H:\wirings\...\13_Down.sch	Drawn By: Eng. Radwan abu Tubaneh

### DOWN CALLS / LAMPS

### CAR CALLS / LAMPS



\* Lamps Common (+24 Vdc)

\*\* Call Button Common (GND)



Title		
<b>Calls for 13 - 24 Stops Down Collective</b>		
Size	Number	Revision
A4		2
Date:	8/30/2008	Sheet 14 of 16
File:	H:\wirings\...\14_Down_Extension.sch	Drawn By: Eng Radwan abu Tubaneh

## CALLS FOR 12 STOPS DOWN COLLECTIVE

### DOWN CALLS / LAMPS

Stops	Terminal
1	CN11/1
2	CN11/2
3	CN11/3
4	CN11/4
5	CN11/5
6	CN11/6
7	CN11/7
8	CN11/8
9	CN10/5
10	CN10/6
11	CN10/7
12	CN10/8

### CAR CALLS / LAMPS

Stops	Terminal
1	CN12/1
2	CN12/2
3	CN12/3
4	CN12/4
5	CN12/5
6	CN12/6
7	CN12/7
8	CN12/8
9	CN10/1
10	CN10/2
11	CN10/3
12	CN10/4

## CALLS FOR 13 - 24 STOPS DOWN COLLECTIVE

### DOWN CALLS / LAMPS

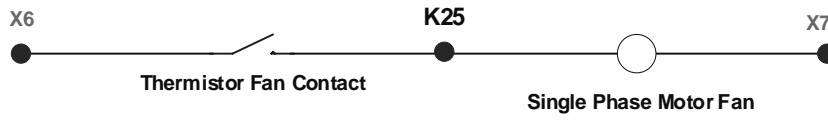
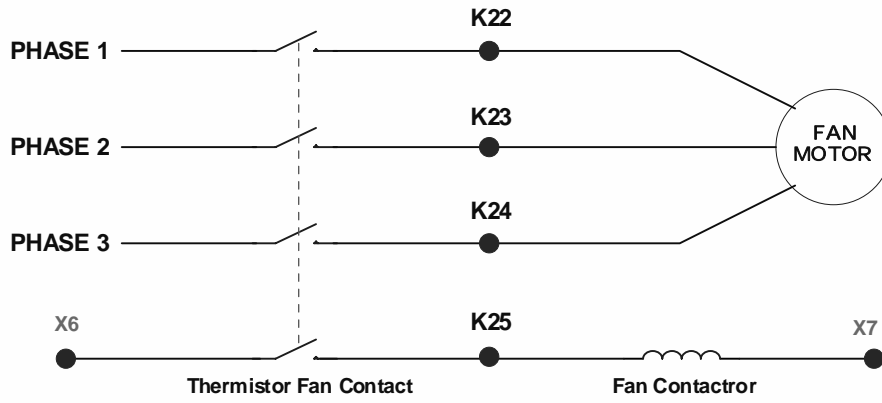
Stops	Terminal
1	CN11/1
2	CN11/2
3	CN11/3
4	CN11/4
5	CN11/5
6	CN11/6
7	CN11/7
8	CN11/8
9	CX2/1
10	CX2/2
11	CX2/3
12	CX2/4
13	CX2/5
14	CX2/6
15	CX2/7
16	CX2/8
17	CX1/1
18	CX1/2
19	CX1/3
20	CX1/4
21	CX1/5
22	CX1/6
23	CX1/7
24	CX1/8

### CAR CALLS / LAMPS

Stops	Terminal
1	CN12/1
2	CN12/2
3	CN12/3
4	CN12/4
5	CN12/5
6	CN12/6
7	CN12/7
8	CN12/8
9	CX3\1
10	CX3\2
11	CX3\3
12	CX3\4
13	CX3\5
14	CX3\6
15	CX3\7
16	CX3\8
17	CN10/1
18	CN10/2
19	CN10/3
20	CN10/4
21	CN10/5
22	CN10/6
23	CN10/7
24	CN10/8



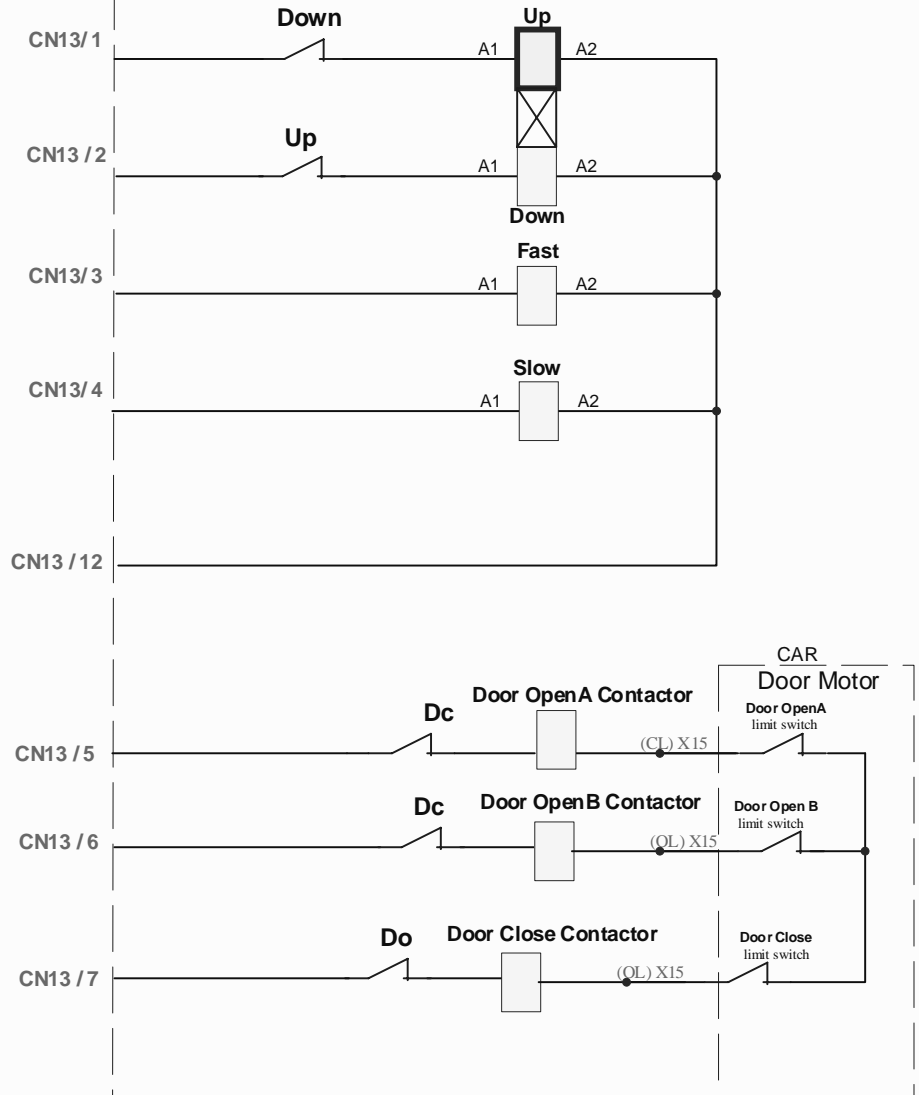
Title Calls Wiring Tabel for Down Collective		
Size A4	Number	Revision 2
Date: 8/30/2008	Sheet 15 of 16	
File: H:\wirings\...\15_Down_Tabel.sch	Drawn By: Eng. Radwan abu Tubaneh	



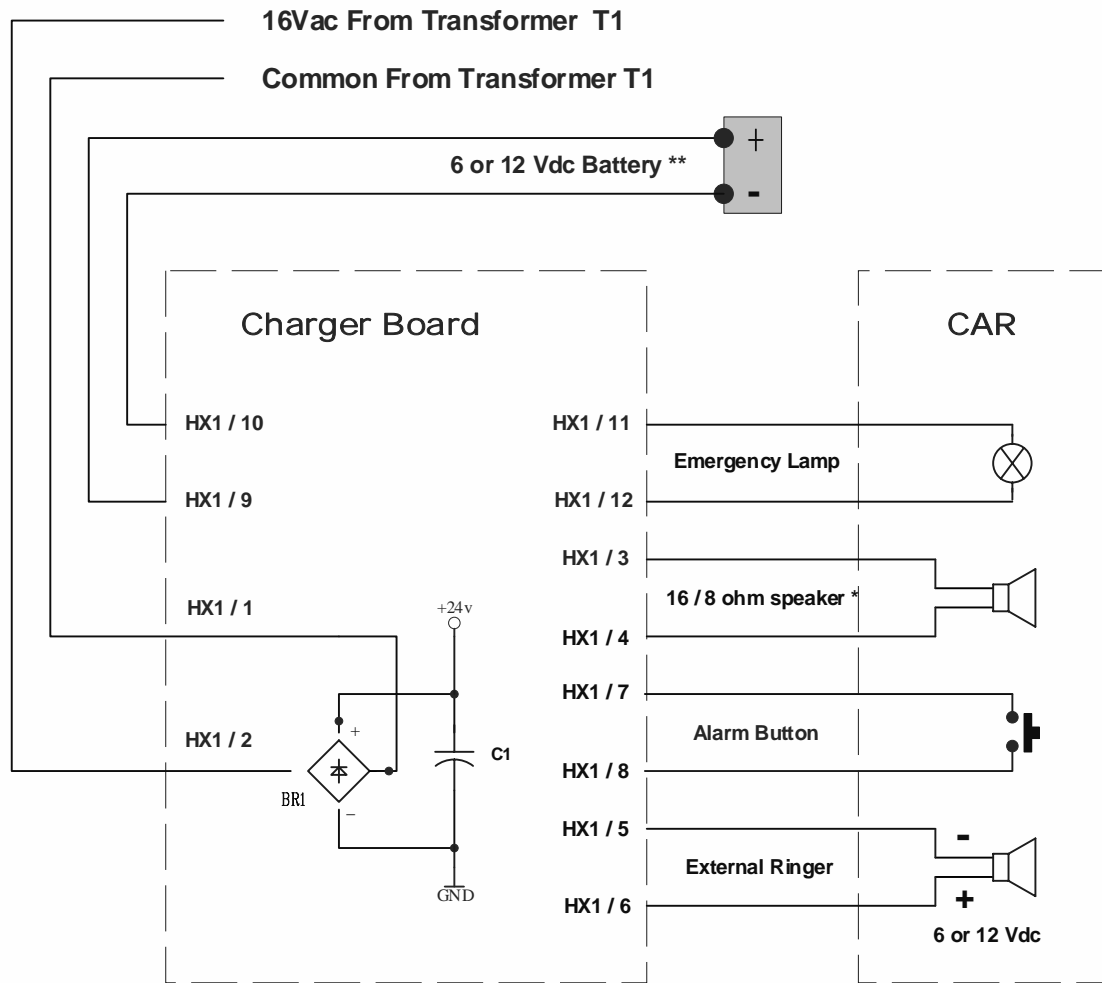
Cannot open file F:\radwan\logo.bmp

Title		
Motor Fan Wiring		
Size	Number	Revision
A4		2
Date:	8/30/2008	Sheet16of 16
File:	H:\wirings\...\16_Motor Fan.sch	Drawn By: Eng Radwan AbuTubbaneh

# UIC MOTHER BOARD



Title		
<b>+24 V connection</b>		
Size	Number	Revision
A4		2
Date:	8/30/2008	Sheet 17 of 17
File:	H:\wirings\...+24V.SCHDOC	Drawn By: Eng. Radwan Abu Tubbaneh



\* If R3 is mounted, the speaker must be 16 ohm.

\*\* If J1 is exist on the Auxiliary Board, External Ringer & Emergency Lamp must be 12Vdc.

\*\* If J1 is not exist on the Auxiliary Board, External Ringer & Emergency Lamp must be 6Vdc.

**Charger Board Connections**

Eng. Radwan Abu Tubbaneh



2-2007