

# JD SPORTS - BIRMINGHAM

## CONVEYOR CONTROL

### WO-23082



Kensal House,  
 President Way,  
 Luton, Beds.  
 LU2 9NR  
 Tel: 01582 425777  
 sales@kensal.com

CONVEYOR CONTROL  
 Cover page

				REVISION
				0
0	10/03/2023	TW		SCHEME
REV.	DATE	NAME	CHANGES	
User data 1			User data 2	01

CONTRACT: JD SPORTS - BIRMINGHAM - 2127

LOCATION: +L1

Main electrical closet

1-CONVEYOR CONTROL

Drawing	Description	Function	Location	Revision	Date	Created by
<a href="#">01</a>	Cover page	=F1	+L1	0	10/03/2023	TW
<a href="#">02</a>	Drawings list	=F1	+L1	0	10/03/2023	TW
<a href="#">03</a>	POWER DISTRIBUTION	=F1	+L1	0	10/03/2023	TW
<a href="#">04</a>	SAFETY CIRCUIT - ESTOPS AND GUARDS	=F1	+L1	0	21/11/2025	TW
<a href="#">05</a>	SAFETY CIRCUIT - MASTER - E STOP	=F1	+L1	0	10/03/2023	TW
<a href="#">06</a>	DC MOTORS - POWER DISTRIBUTION	=F1	+L1	0	10/03/2023	TW
<a href="#">07</a>	INVERTER CONTROL	=F1	+L1	0	10/03/2023	TW
<a href="#">08</a>	PLC CONGIFURATION	=F1	+L1	0	10/03/2023	TW
<a href="#">09</a>	CPU DIGITAL INPUTS 1.1	=F1	+L1	0	10/03/2023	TW
<a href="#">10</a>	CPU DIGITAL INPUTS 1.2	=F1	+L1	0	10/03/2023	TW
<a href="#">11</a>	CPU DIGITAL OUTPUTS 1.1	=F1	+L1	0	10/03/2023	TW
<a href="#">12</a>	CPU DIGITAL OUTPUTS 1.2	=F1	+L1	0	10/03/2023	TW
<a href="#">13</a>	DI1 DIGITAL INPUTS 1.1	=F1	+L1	0	10/03/2023	TW
<a href="#">14</a>	DI1 DIGITAL INPUTS 1.2	=F1	+L1	0	10/03/2023	TW
<a href="#">15</a>	DQ1 DIGITAL OUTPUTS 1.1	=F1	+L1	0	10/03/2023	TW
<a href="#">16</a>	DQ1 DIGITAL OUTPUTS 1.2	=F1	+L1	0	10/03/2023	TW
<a href="#">17</a>	INTERFACE RELAY	=F1	+L1	0	10/03/2023	TW



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CONVEYOR CONTROL  
 Drawings list

				REVISION
				0
0	10/03/2023	TW		
REV.	DATE	NAME	CHANGES	SCHEME
				02

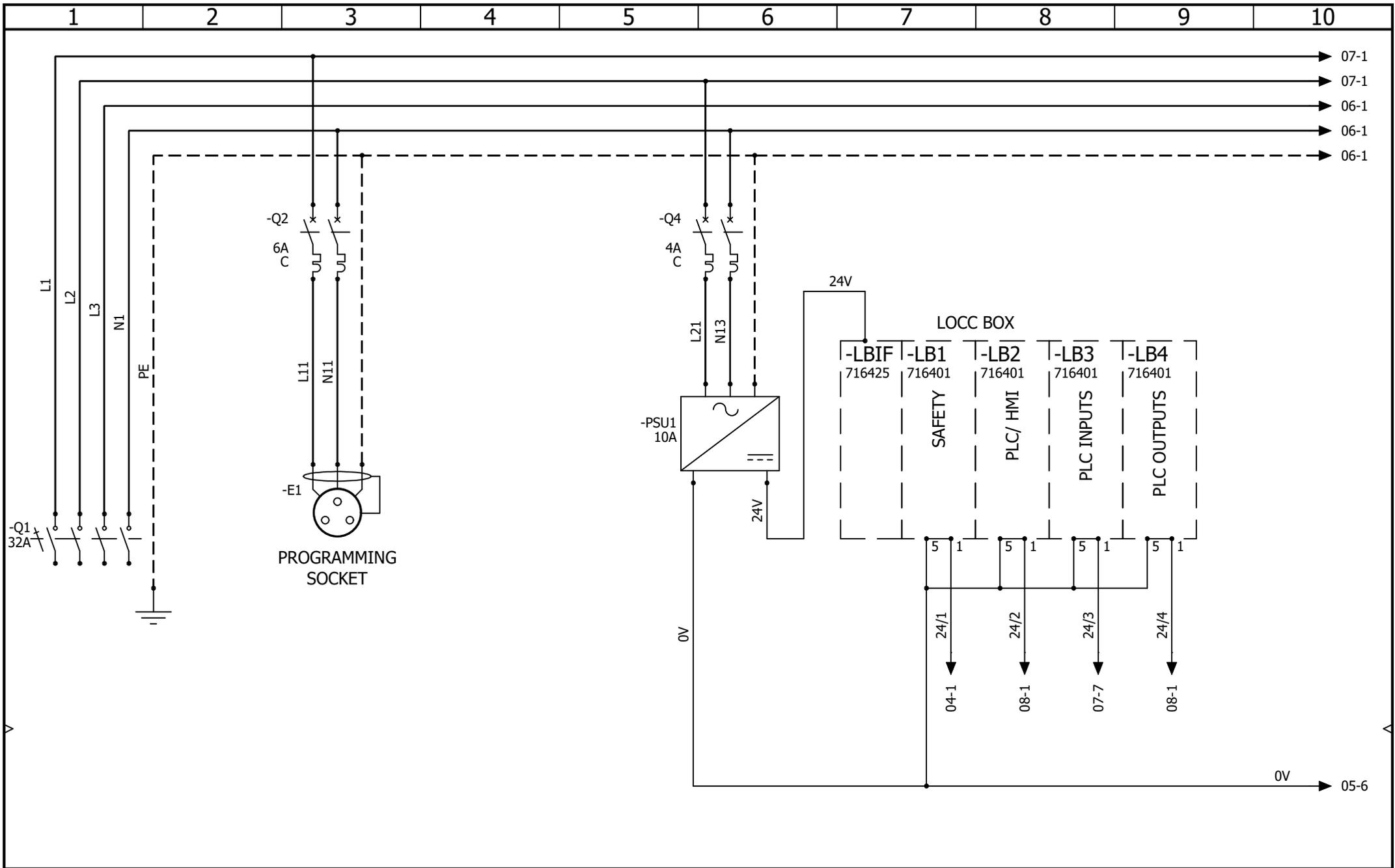
CONTRACT: JD SPORTS - BIRMINGHAM - 2127

LOCATION: +L1

Main electrical closet

User data 1

User data 2



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### CONVEYOR CONTROL POWER DISTRIBUTION

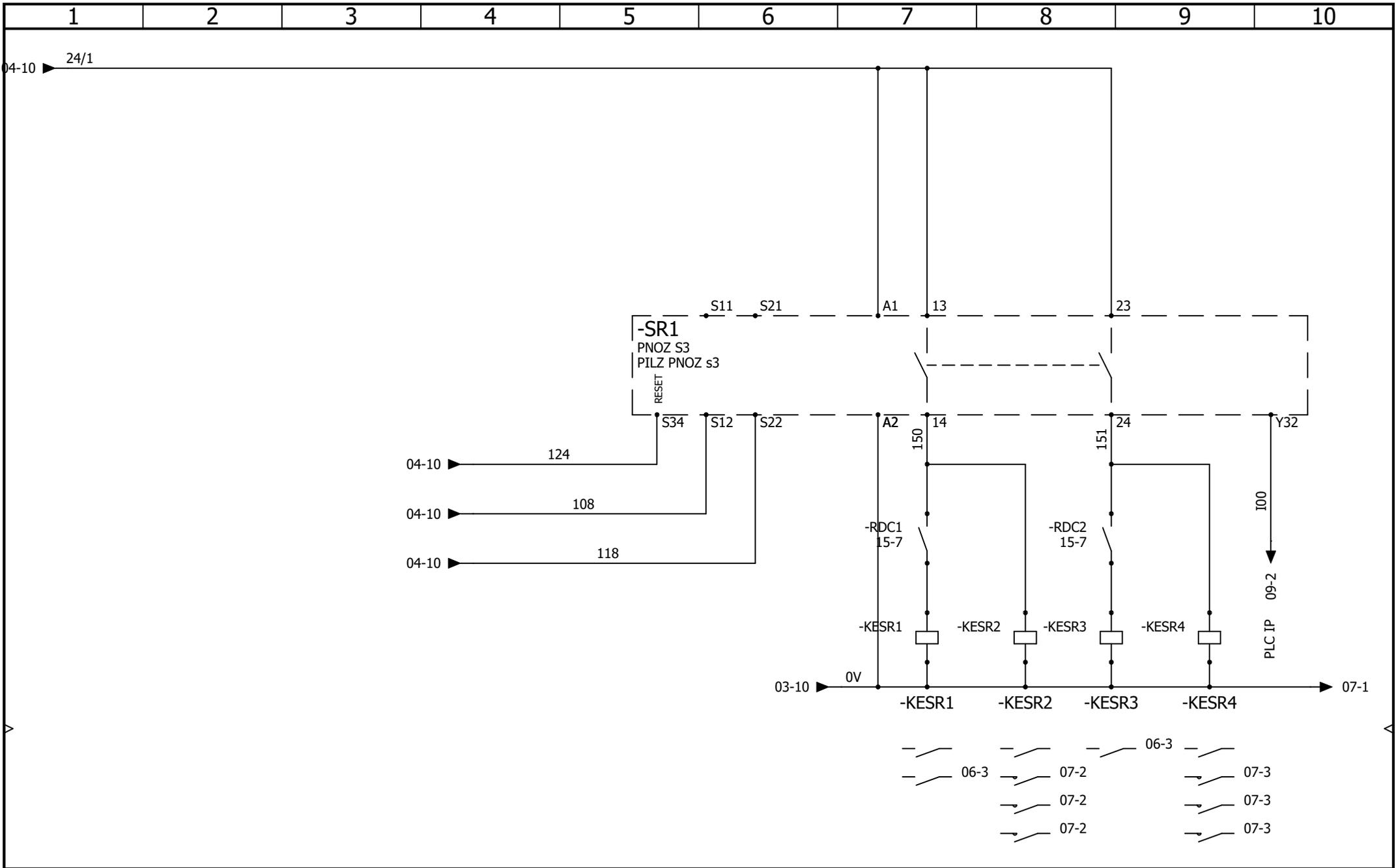
CONTRACT: JD SPORTS - BIRMINGHAM - 2127

LOCATION: +L1

Main electrical closet

				REVISION
				0
0	10/03/2023	TW		SCHEME
REV.	DATE	NAME	CHANGES	03
User data 1			User data 2	





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### CONVEYOR CONTROL SAFETY CIRCUIT - MASTER - E STOP

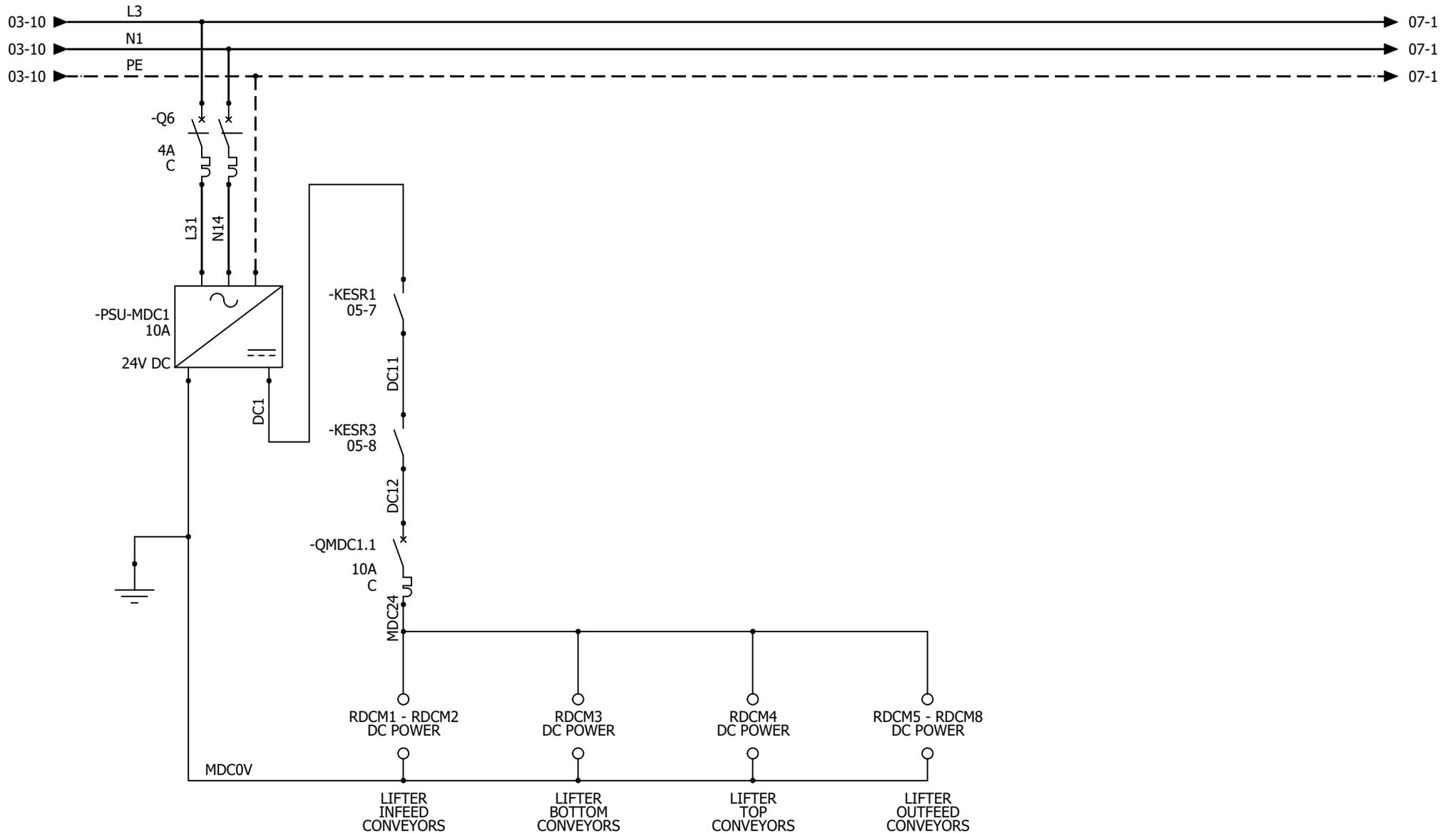
CONTRACT: JD SPORTS - BIRMINGHAM - 2127

LOCATION:

+L1

Main electrical closet

				REVISION
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0	10/03/2023	TW		
REV.	DATE	NAME	CHANGES	SCHEME
				05
User data 1			User data 2	



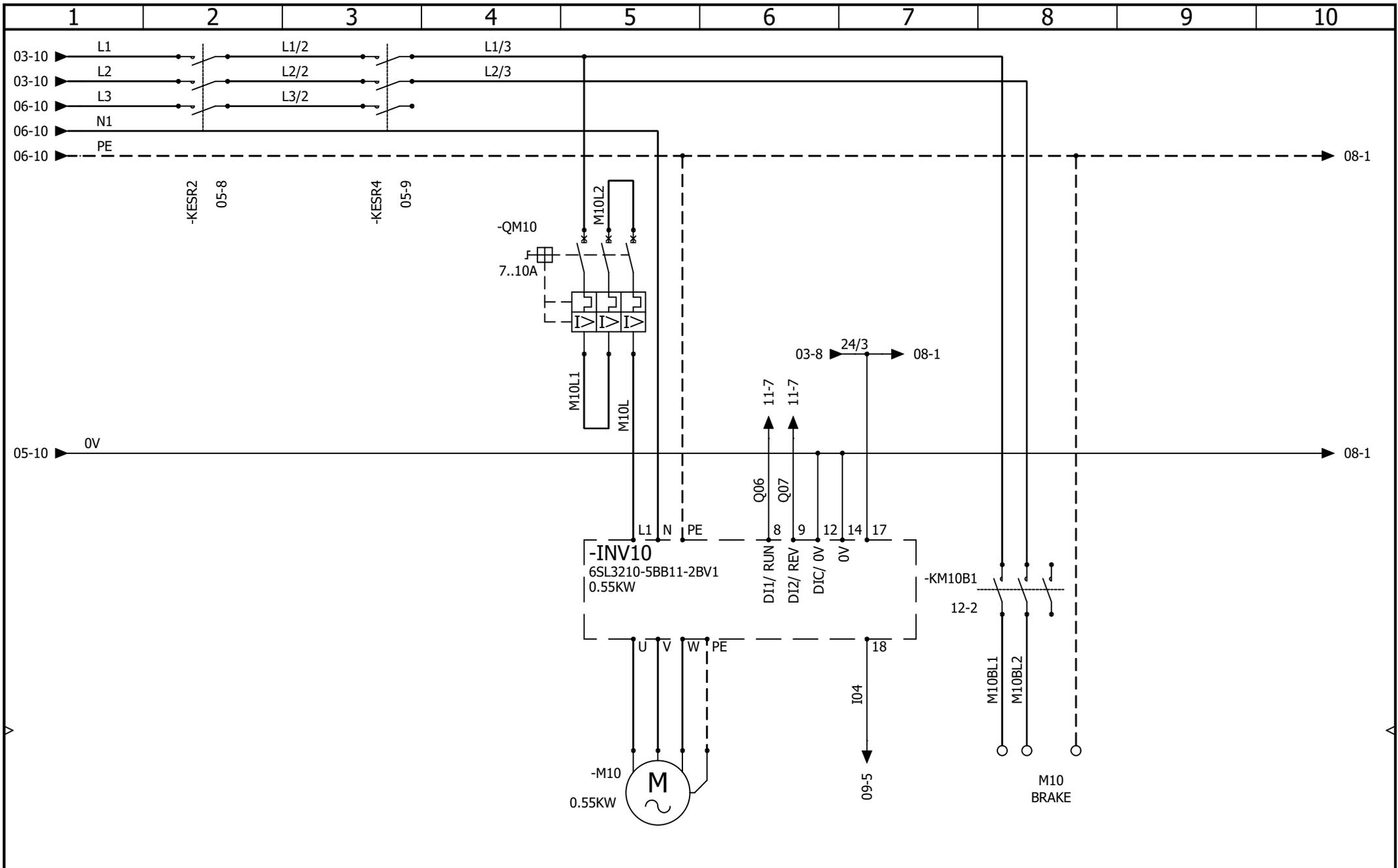
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### CONVEYOR CONTROL DC MOTORS - POWER DISTRIBUTION

				REVISION
				0
0	10/03/2023	TW		SCHEME
REV.	DATE	NAME	CHANGES	06
User data 1			User data 2	

CONTRACT: JD SPORTS - BIRMINGHAM - 2127

LOCATION: +L1 Main electrical closet



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## CONVEYOR CONTROL INVERTER CONTROL

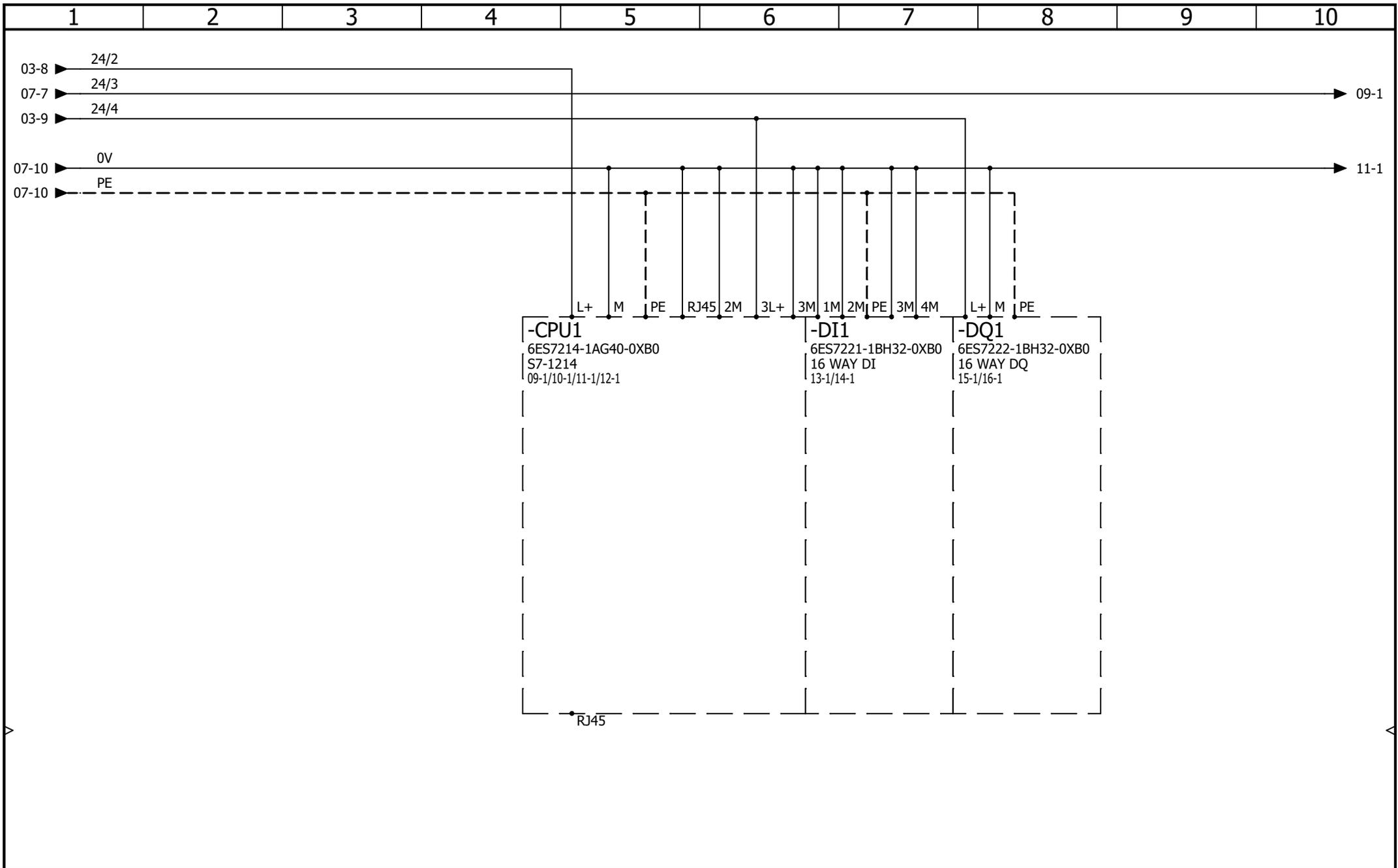
CONTRACT: JD SPORTS - BIRMINGHAM - 2127

LOCATION: +L1

Main electrical closet

REV.	DATE	NAME	CHANGES	REVISION
0	10/03/2023	TW		0
				SCHEME
				07

User data 1  
User data 2



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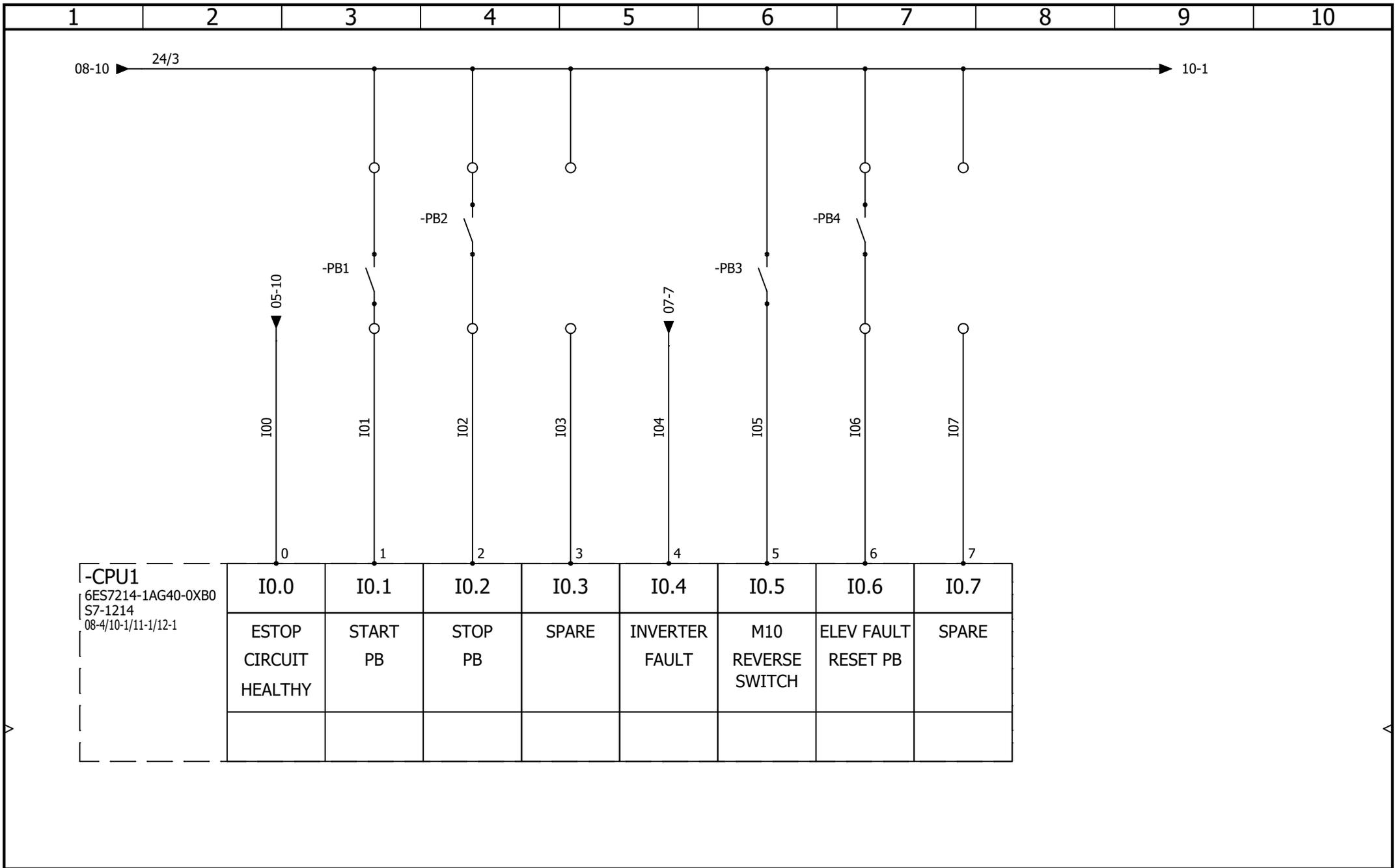
### CONVEYOR CONTROL PLC CONGIFURATION

CONTRACT: JD SPORTS - BIRMINGHAM - 2127

LOCATION: +L1

Main electrical closet

				REVISION
				0
0	10/03/2023	TW		
REV.	DATE	NAME	CHANGES	SCHEME
User data 1			User data 2	08



-CPU1  
6ES7214-1AG40-0XB0  
S7-1214  
08-4/10-1/11-1/12-1

	0	1	2	3	4	5	6	7
	I0.0	I0.1	I0.2	I0.3	I0.4	I0.5	I0.6	I0.7
	ESTOP CIRCUIT HEALTHY	START PB	STOP PB	SPARE	INVERTER FAULT	M10 REVERSE SWITCH	ELEV FAULT RESET PB	SPARE



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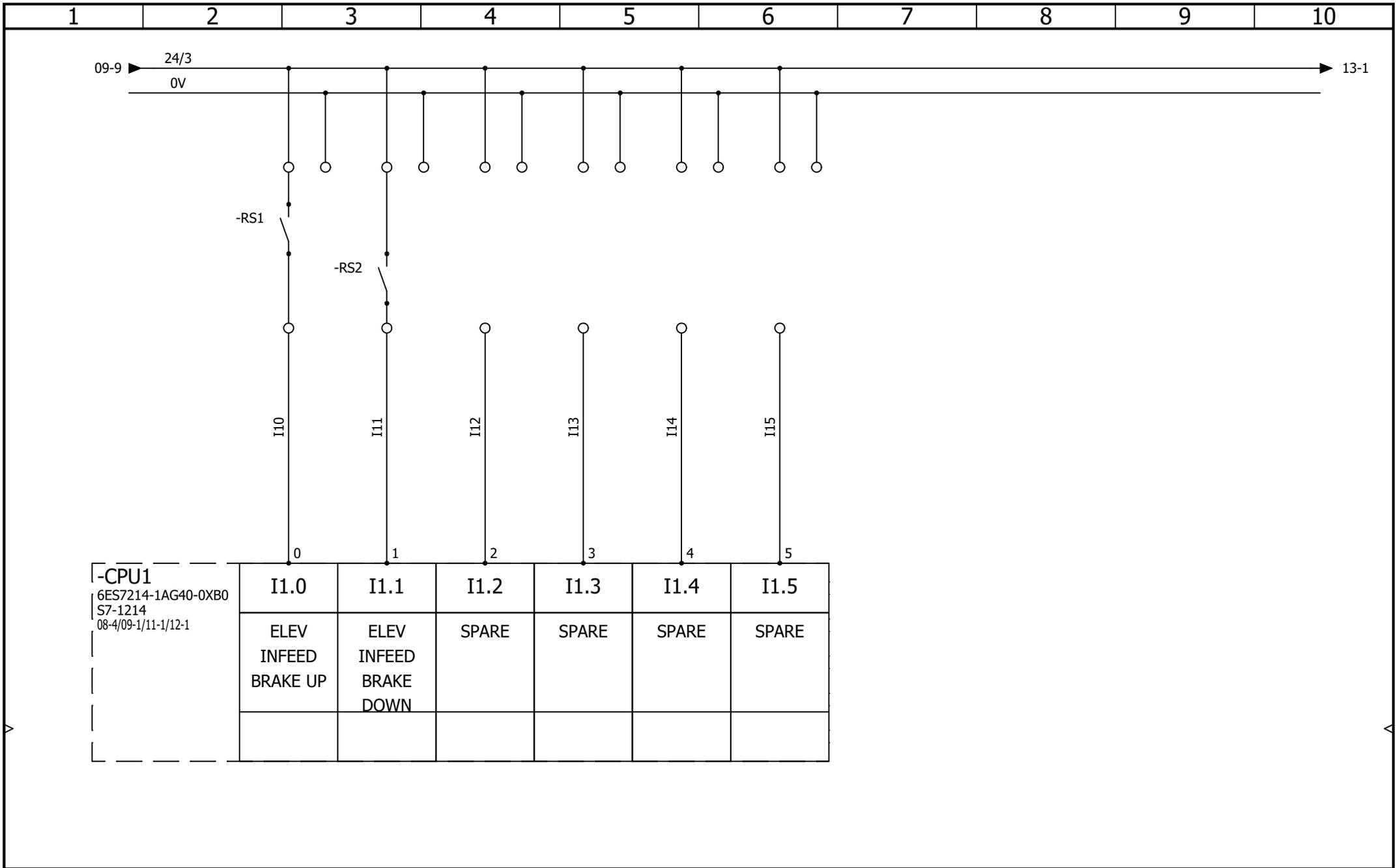
CONVEYOR CONTROL  
CPU DIGITAL INPUTS 1.1

CONTRACT: JD SPORTS - BIRMINGHAM - 2127

LOCATION: +L1

Main electrical closet

				REVISION
				0
0	10/03/2023	TW		
REV.	DATE	NAME	CHANGES	SCHEME
User data 1			User data 2	09



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### CONVEYOR CONTROL CPU DIGITAL INPUTS 1.2

CONTRACT: JD SPORTS - BIRMINGHAM - 2127

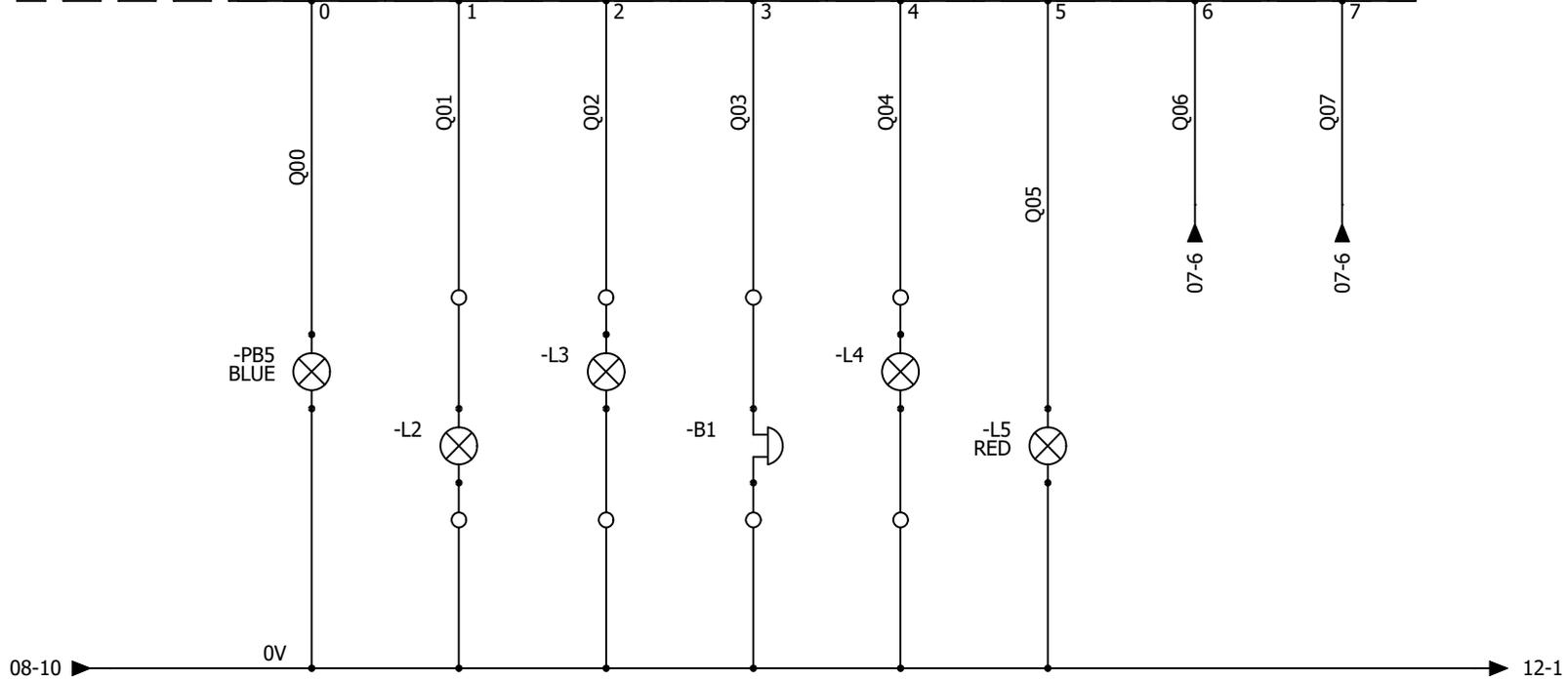
LOCATION: +L1

Main electrical closet

				REVISION
				0
0	10/03/2023	TW		
REV.	DATE	NAME	CHANGES	SCHEME
User data 1			User data 2	10

-CPU1  
6ES7214-1AG40-0XB0  
S7-1214  
08-4/09-1/10-1/12-1

EMERGENCY RESET LAMP	START LAMP	STOP LAMP	SALES FLOOR BUZZER	ELEV RESET PB LAMP	INVERTER FAULT LAMP	M10 FORWARD	M10 REVERSE
Q0.0	Q0.1	Q0.2	Q0.3	Q0.4	Q0.5	Q0.6	Q0.7



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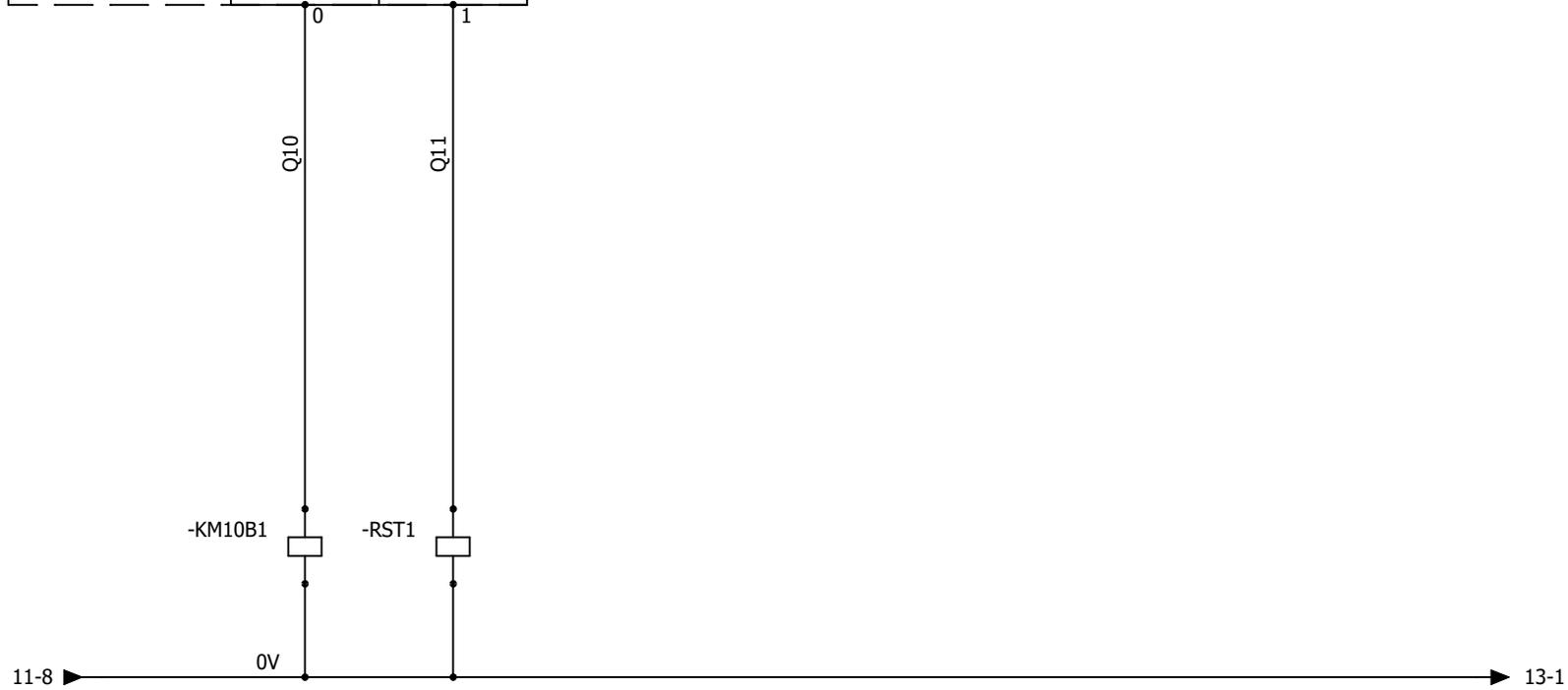
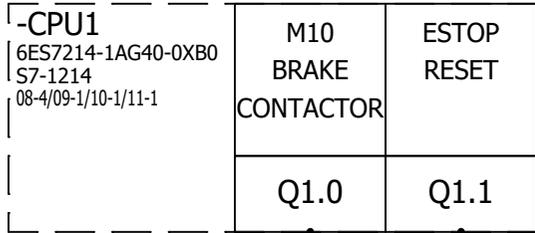
CONVEYOR CONTROL  
CPU DIGITAL OUTPUTS 1.1

CONTRACT: JD SPORTS - BIRMINGHAM - 2127

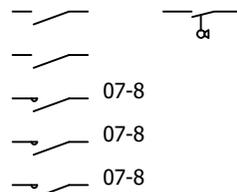
LOCATION: +L1

Main electrical closet

				REVISION
				0
0	10/03/2023	TW		
REV.	DATE	NAME	CHANGES	SCHEME
User data 1			User data 2	11



-KM10B1    -RST1



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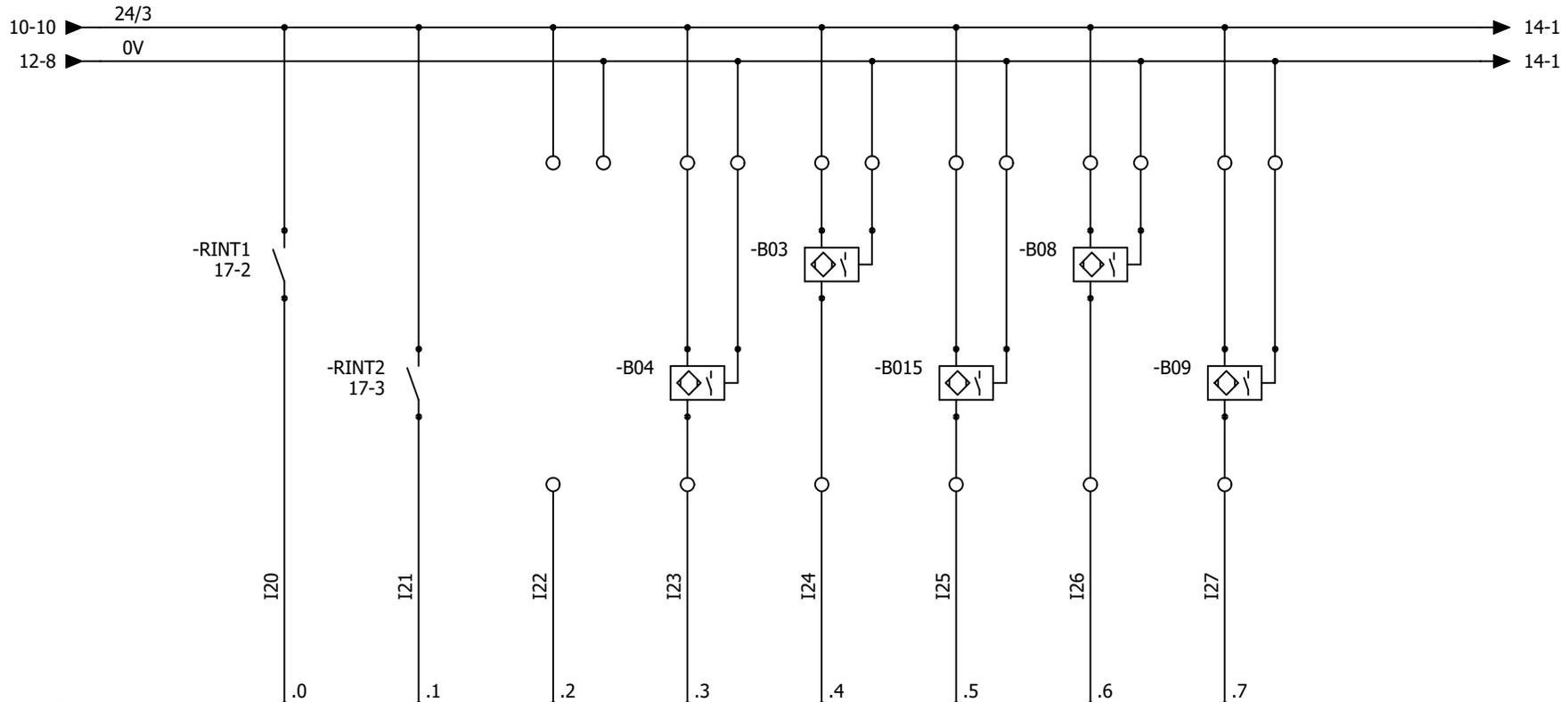
CONVEYOR CONTROL  
 CPU DIGITAL OUTPUTS 1.2

				REVISION
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0	10/03/2023	TW		SCHEME
REV.	DATE	NAME	CHANGES	
User data 1			User data 2	12

CONTRACT: JD SPORTS - BIRMINGHAM - 2127

LOCATION: +L1

Main electrical closet



-DI1  
6ES7221-1BH32-0XB0  
16 WAY DI  
08-6/14-1

I2.0	I2.1	I2.2	I2.3	I2.4	I2.5	I2.6	I2.7
BOX AT INFEED Z2	BOX ON OUTFEED CONV Z4	SPARE	B04 PRODUCT RELEASE SENSOR	B03	B015 END OF INFEED CONVEYOR SENSOR	B08 BOX ON EXIT ROLLER	B09 OUTFEED CHECK SENSOR



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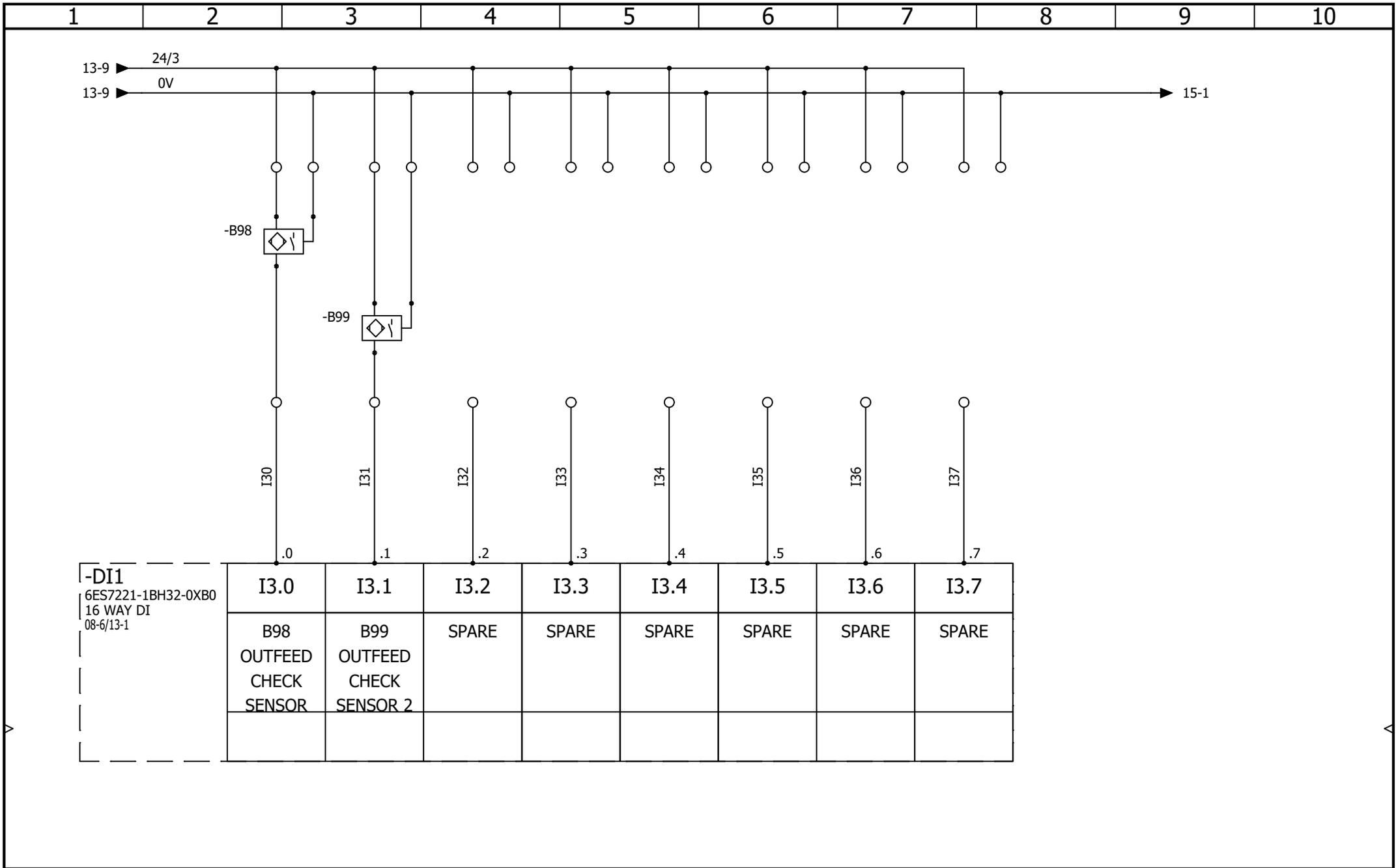
CONVEYOR CONTROL  
DI1 DIGITAL INPUTS 1.1

CONTRACT: JD SPORTS - BIRMINGHAM - 2127

LOCATION: +L1

Main electrical closet

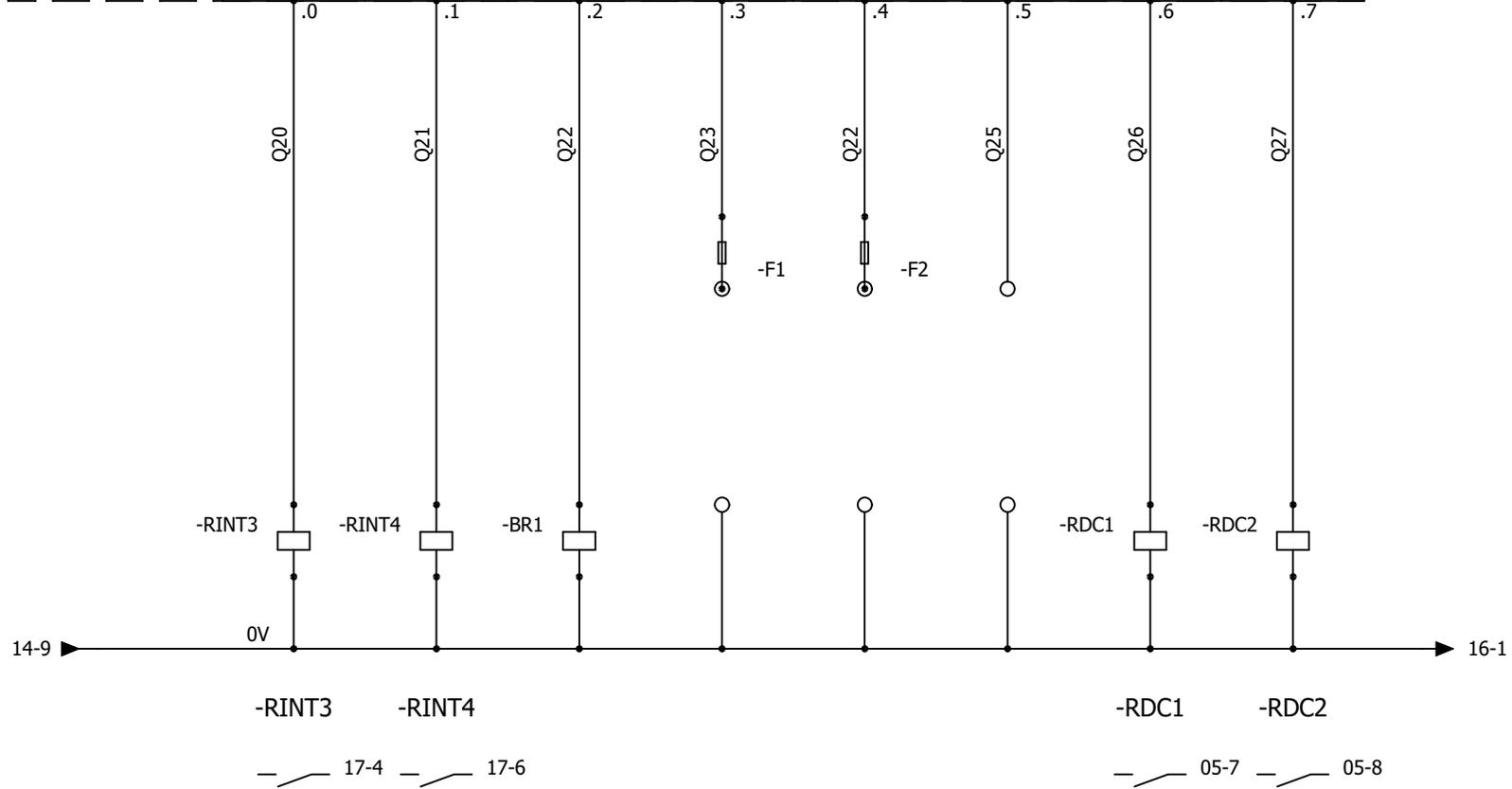
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				0
0	10/03/2023	TW		
REV.	DATE	NAME	CHANGES	SCHEME
User data 1			User data 2	13



	Kensal House, President Way, Luton, Beds. LU2 9NR Tel: 01582 425777 sales@kensal.com	<b>CONVEYOR CONTROL</b> <b>DI1 DIGITAL INPUTS 1.2</b>				REVISION	0				
		CONTRACT: JD SPORTS - BIRMINGHAM - 2127	LOCATION: +L1	Main electrical closet		REV.	DATE	NAME	CHANGES	SCHEME	14
						0	10/03/2023	TW			
					User data 1	User data 2					

-DQ1  
6ES7222-1BH32-0XB0  
16 WAY DQ  
16-1/08-7

INT 1 OUT FWD	INT 2 OUT FWD	ELEV INFEED BRAKE UP	RUN RDCM3	RUN RDCM4	SPARE	DC ROLLERS ENABLE 1	DC ROLLERS ENABLE 2
Q2.0	Q2.1	Q2.2	Q2.3	Q2.4	Q2.5	Q2.6	Q2.7



BR1  
BOX STOPPED  
AT INFEED



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CONVEYOR CONTROL  
DQ1 DIGITAL OUTPUTS 1.1

				REVISION
				0
0	10/03/2023	TW		
REV.	DATE	NAME	CHANGES	SCHEME
				15

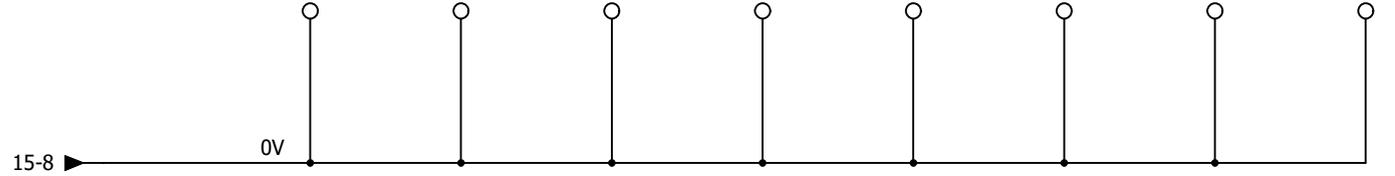
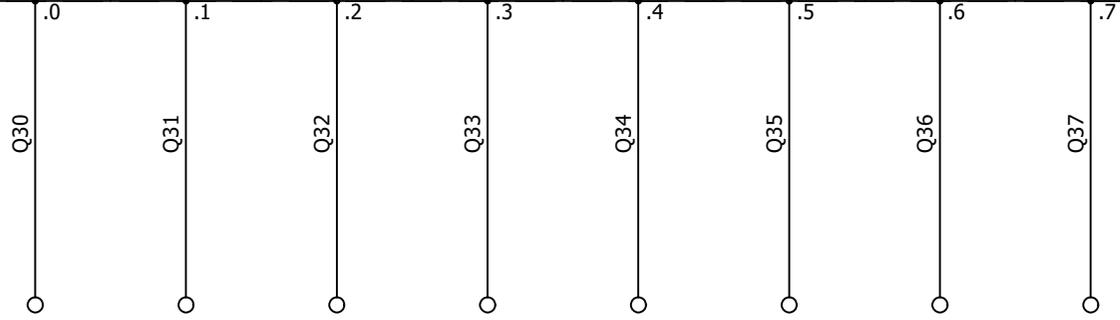
CONTRACT: JD SPORTS - BIRMINGHAM - 2127

LOCATION: +L1 Main electrical closet

User data 1 User data 2

-DQ1  
6ES7222-1BH32-0XB0  
16 WAY DQ  
15-1/08-7

SPARE								
Q3.0	Q3.1	Q3.2	Q3.3	Q3.4	Q3.5	Q3.6	Q3.7	



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CONVEYOR CONTROL  
DQ1 DIGITAL OUTPUTS 1.2

CONTRACT: JD SPORTS - BIRMINGHAM - 2127

LOCATION: +L1 Main electrical closet

				REVISION
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0	10/03/2023	TW		
REV.	DATE	NAME	CHANGES	SCHEME
User data 1			User data 2	16

1

2

3

4

5

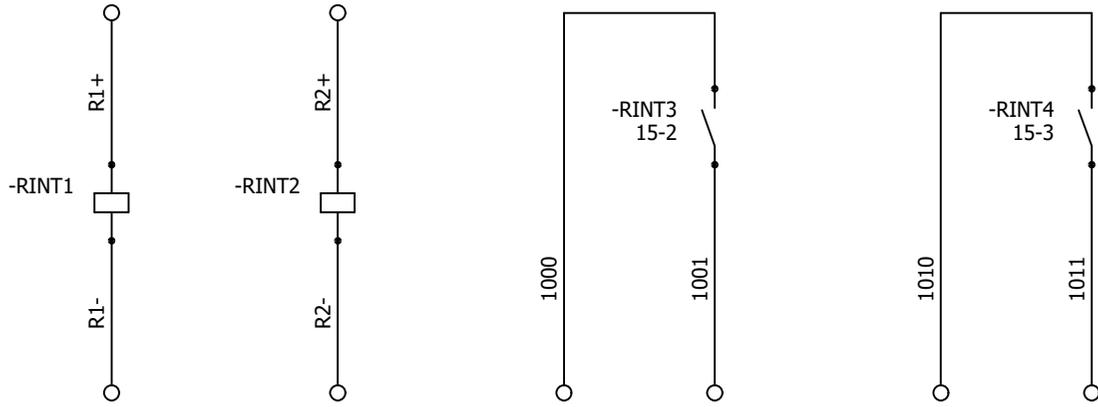
6

7

8

9

10



-RINT1

-RINT2

13-2

13-3



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### CONVEYOR CONTROL INTERFACE RELAY

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				REVISION
				0
0	10/03/2023	TW		SCHEME
REV.	DATE	NAME	CHANGES	
User data 1			User data 2	17