



Bector Automation RML Ltd

Kuruli, Tal-Khed
 410501 Pune
 Phone. +91 20 30781208

Company / customer	Johnson & Johnson			
Drawing Number	16360-0302			
Project description	Robotic Stacker and Pick & Place System			
Commission	Bector Automation RML			
Manufacturer (company)	Bector Automation RML Ltd			
Project name	16360 J & J_V.1			
Make	RML Engineering Ltd			
Type	Electrical Control System			
Place of installation	Aurgabad			
Responsible for project	Sahana I H			
Part feature				
Edit date	1/21/2024	by (short name) EPLAN	Number of pages	67

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Assignment	Page	Page description	Page type	Date	Edited by
=P&P and Stacker System +00					
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	001	Title page / cover sheet	Title page / cover sheet	8/29/2023	EPLAN
	002	Table of contents : =P&P and Stacker System+00/001 - =P&P and Stacker System+CP0301/218	Table of contents	1/5/2024	EPLAN
	002.a	Table of contents : =P&P and Stacker System+CP0301/220 - =P&P and Stacker System+JB0301/SCARA Assembly +JB0301/1	Table of contents	1/5/2024	EPLAN
	002.b	Table of contents : =P&P and Stacker System+JB0302/1 - =P&P and Stacker System+JB0303/5	Table of contents	1/5/2024	EPLAN
=P&P and Stacker System +CP0301					
Main Control Cabinet					
	001	Title page / cover sheet	Title page / cover sheet	8/29/2023	EPLAN
	003	Technical Information	Overview	8/29/2023	EPLAN
	004	Panel Label	Graphic	8/29/2023	EPLAN
	005	Control Panel Layout	Panel layout	10/23/2023	EPLAN
	006	Control Panel Plinth Layout	Panel layout	10/23/2023	EPLAN
	007	Control Panel Layout	Panel layout	10/23/2023	EPLAN
	008	Control Panel Layout	Panel layout	10/23/2023	EPLAN
	010	Network: Robot WAN Switch	Schematic multi-line	8/29/2023	EPLAN
	100	Power Distribution: 400V Supply	Schematic multi-line	1/3/2024	EPLAN
	101	Power Distribution: 400V & GPO	Schematic multi-line	1/3/2024	EPLAN
	101.a	Power Distribution:Cabinet Fan and Light	Schematic multi-line	10/6/2023	EPLAN
	101.b	Power Distribution:Cabinet Fan and Light	Schematic multi-line	10/6/2023	EPLAN
	102	Power Distribution: 24VDC Power Supply	Schematic multi-line	1/5/2024	EPLAN
	103	Power Distribution: 24VDC Power Supply	Schematic multi-line	1/3/2024	EPLAN
	104	Power Distribution: 24VDC Power Supply	Schematic multi-line	1/3/2024	EPLAN
	109	Power Distribution: MO1701 Main Drive Servo Motor	Schematic multi-line	10/20/2023	EPLAN
	109.a	Power Distribution: MO1801 Infeed Conveyor Servo motor	Schematic multi-line	10/6/2023	EPLAN
	110	Power Distribution: MO3101 Flipping Servo motor	Schematic multi-line	10/6/2023	EPLAN
	210	Control System: PLC and Remote IO Overview	Panel layout	10/6/2023	EPLAN
	213	Controller Connection	Schematic multi-line	10/6/2023	EPLAN
	214	Control System: XC0320:Slot 1 Safety Outputs	Schematic multi-line	1/4/2024	EPLAN
	215	Control System: XC0320:Slot 1 Safety Outputs	Schematic multi-line	10/6/2023	EPLAN
	218	Control System: XC0320:Slot 3 Safety Inputs	Schematic multi-line	1/4/2024	EPLAN

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Designer: Sahana					

Project Desc: Robotic Stacker and Pick & Place System
Page Desc: Table of contents : =P&P and Stacker System+00/001 - =P&P and Stacker System

Mounting Loc: Table of contents	Job No: 1036010302	Area: P&P and Stacker System	Loc: 00
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=P&P and Stacker System +CP0301					
Main Control Cabinet					
	220	Control System: XC0320:Slot 4 Safety Inputs	Schematic multi-line	10/19/2023	EPLAN
	221	Control System: XC0320:Slot 4 Safety Inputs	Schematic multi-line	1/4/2024	EPLAN
	240	Control System: XC0320:Slot 7 Digital Outputs	Schematic multi-line	1/4/2024	EPLAN
	241	Control System: XC0320:Slot 8 Digital Outputs	Schematic multi-line	1/4/2024	EPLAN
	242	Control System:XC0320:Slot 9 Digital Outputs	Schematic multi-line	1/4/2024	EPLAN
	243	Control System:XC0320:Slot 10 Digital Outputs	Schematic multi-line	1/4/2024	EPLAN
	244	Control System:XC0320:Slot 11 Digital Outputs	Schematic multi-line	1/4/2024	EPLAN
	251	Control System: XC0320:Slot 14 Digital Inputs	Schematic multi-line	1/4/2024	EPLAN
	252	Control System: XC0320:Slot 15 Digital Inputs	Schematic multi-line	1/4/2024	EPLAN
	252.a	Control System: XC0320:Slot 16 Digital Inputs	Schematic multi-line	1/4/2024	EPLAN
	252.b	Control System: XC0320:Slot 17 Digital Inputs	Schematic multi-line	1/3/2024	EPLAN
	253	Control System:XC0320:Slot 18 Digital Inputs	Schematic multi-line	1/4/2024	EPLAN
	280	Safety Circuit: Pneumatic Exhaust Valve	Schematic multi-line	1/3/2024	EPLAN
	285	Picking Robot Safety Relays	Schematic multi-line	10/20/2023	EPLAN
	320	Control System: Vision System Camera	Schematic multi-line	1/3/2024	EPLAN
	SLD33		Schematic multi-line	9/4/2023	EPLAN
=P&P and Stacker System +RO4111					
Picking Robot 1					
	1	Title page / cover sheet	Title page / cover sheet	1/4/2024	EPLAN
	001	Panel Label	Graphic	1/3/2024	EPLAN
	2	Panel Label	Graphic	1/4/2024	EPLAN
	002	Control System: RS4-2065102 Controller Overview	Schematic multi-line	1/3/2024	EPLAN
	003	Control System: RS4-2065102 Controller Power	Schematic multi-line	1/3/2024	EPLAN
=P&P and Stacker System +JB0301					
Guards					
	2	Panel Label	Graphic	1/4/2024	EPLAN
	3	Control System: JB Layout	Panel layout	1/5/2024	EPLAN
	4	Control System: SOLENOID Connection	Schematic multi-line	1/5/2024	EPLAN
	5	Control System: JB Connection	Schematic multi-line	1/5/2024	EPLAN
SCARA Assembly +JB0301/1					
		Title page / cover sheet	Title page / cover sheet	1/5/2024	EPLAN

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=P&P and Stacker System +JB0302	Robot Pickhead				
	1	Title page / cover sheet	Title page / cover sheet	1/4/2024	EPLAN
	2	Panel Label	Graphic	1/4/2024	EPLAN
	3	Control System: JB Layout	Panel layout	1/5/2024	EPLAN
	4	Control System: Sensors Connection	Schematic multi-line	1/4/2024	EPLAN
	4.a	Control System: Sensors Connection	Schematic multi-line	1/4/2024	EPLAN
	5	Control System: JB Connection	Schematic multi-line	1/4/2024	EPLAN
=P&P and Stacker System +JB0303	Fliping Assembly				
	1	Title page / cover sheet	Title page / cover sheet	1/4/2024	EPLAN
	2	Panel Label	Graphic	1/4/2024	EPLAN
	3	Control System: JB Layout	Panel layout	1/5/2024	EPLAN
	4	Control System: Plucker Cylinders	Schematic multi-line	1/5/2024	EPLAN
	4.a	Control System: Plucker Cylinders & SOLENOIDS	Schematic multi-line	1/5/2024	EPLAN
	5	Control System: JB Connection	Schematic multi-line	1/5/2024	EPLAN



Bector Automation RML Ltd

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Company / customer Johnson & Johnson
 Job number 16360-0302
 Project description Robotic Stacker and Pick & Place System

Area P&P and Stacker System
 Mounting Loaction CP0301
 Mounting Description Main Control Cabinet

Created on 12/4/2016
 Edit date 1/21/2024 by (short name) EPLAN

Date Printed: 1/21/2024	Rev:	By:	Date:	Modification:	Page Modified Date: 1/20/2024
Designer: Sahana					

Project Desc: Robotic Stacker and Pick & Place System
Page Desc: Title page / cover sheet

Mounting Loc: Main Control Cabinet		
Job No: 16360-0302	Area: P&P and Stacker System	Loc: CP0301

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TECHNICAL INFORMATION

COLOUR MARKING/WIRE IN CONTROL CABINET

COLOUR CODE TABLE (IEC757)

MAIN POWER SUPPLY	400 V AC
CONTROL VOLTAGE	24 VDC
EMERGENCY STOP CIRCUIT	Monitored to CAT4, Electrical Isolation CAT4 Pneumatic Insolation CAT4
INSTALLED CURRENT RATING	32A
CABINET SHORT CIRCUIT CURRENT	6kA
CUSTOMER SUPPLY RATING	40A
TYPE/SECTION POWER SUPPLY CABLE	TBA

CODE	COLOUR
400VAC PHASE	RD/YE/BU
230VAC	RD
NEUTRAL	BK
PE/PEN	GN/YE
CONTROL VOLTAGE 24VDC +	BU
CONTROL VOLTAGE 24VDC: -	WH
PLC OUTPUT - DIGITAL	GY
PLC INPUT - DIGITAL	GY
SAFETY IO	YE

COLOUR	CODE
BLACK	BK
BROWN	BN
RED	RD
ORANGE	OG
YELLOW	YE
GREEN	GN
BLUE	BU
VIOLET	VT
GREY	GY
WHITE	WH
PINK	PK
GOLD	GD
TURQUOISE	TQ
SILVER	SR
GREEN/YELLOW	GNYE

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Designer: Sahana					

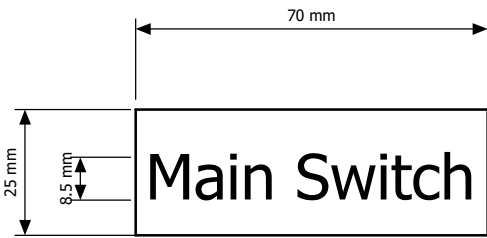
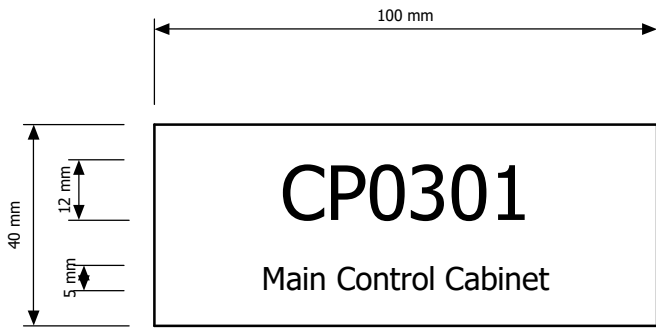
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Page Desc: Technical Information



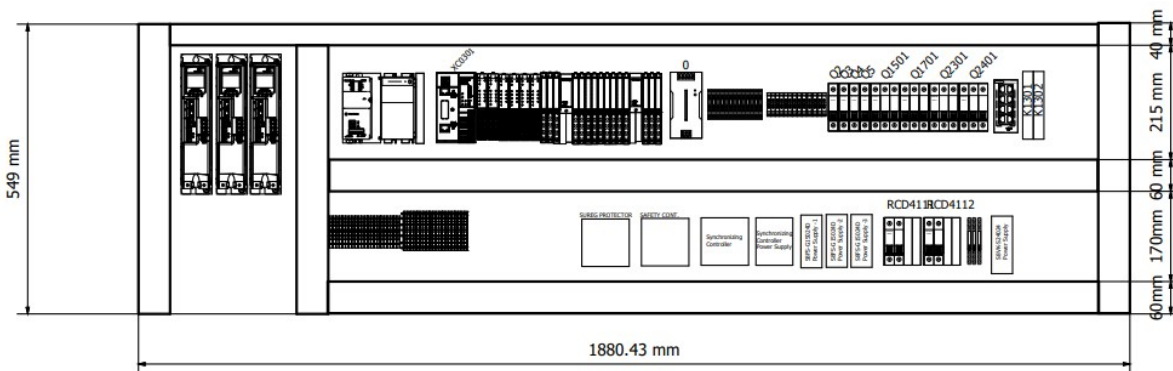
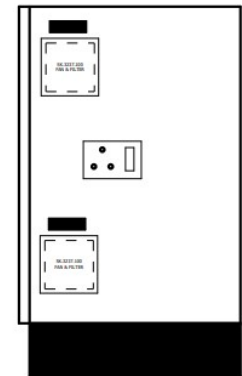
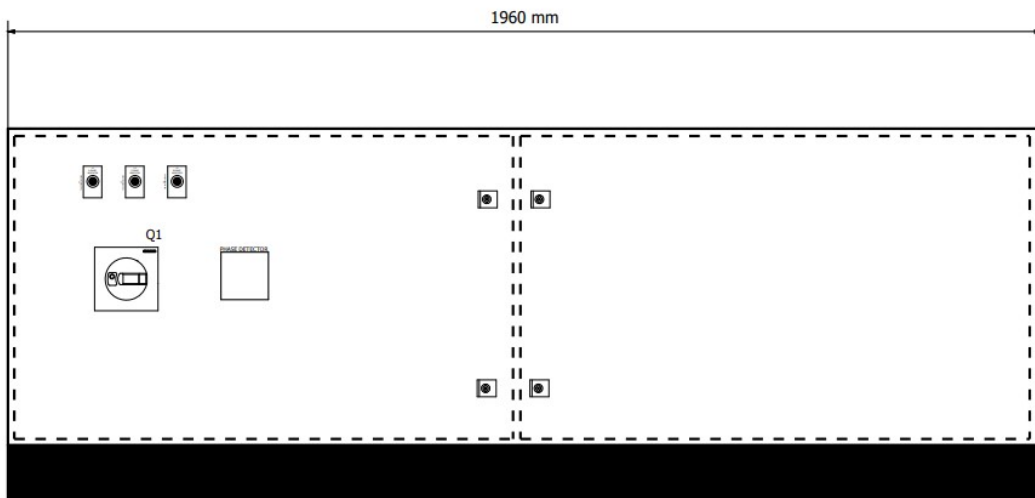
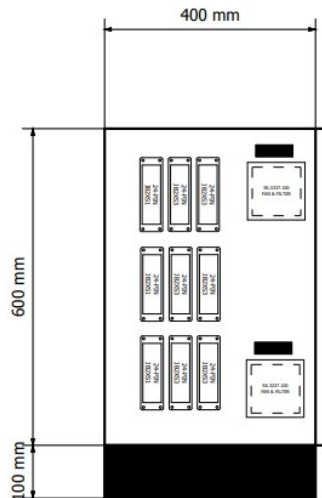
Mounting Loc: Main Control Cabinet	Job No: 16360-0302	Area: P&P and Stacker System	Loc: CP0301
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MATERIAL:- 1.6mm WBW TRAFFOLYTE OR PLASTIC
 (BLACK LETTERS ON A WHITE BACKGROUND)
 REVERSE ENGRAVED
 AND SECURED WITH SILCONE.

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Designer: Sahana						Page Desc: Panel Label	Job No: 16360-0302	Area: P&P and Stacker System
							Loc: CP0301	Next Page: 4



Activate Windows
Go to Settings to activate Windows

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Designer: Sahana					

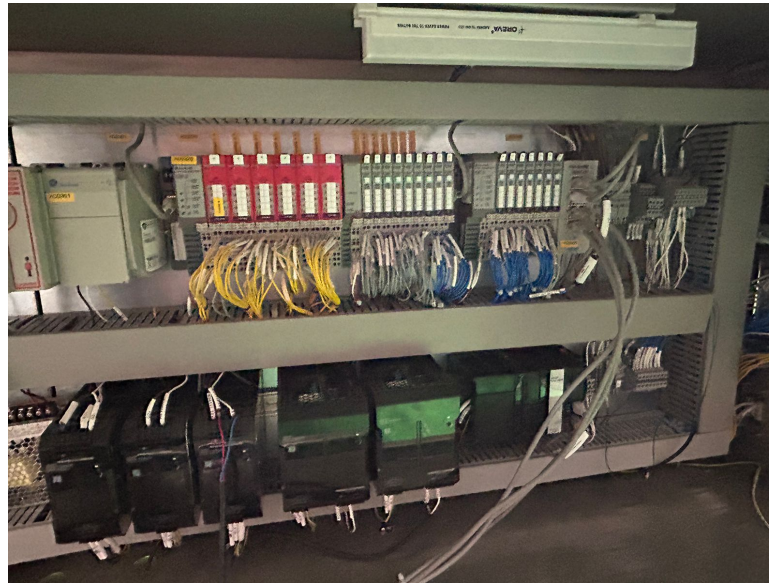
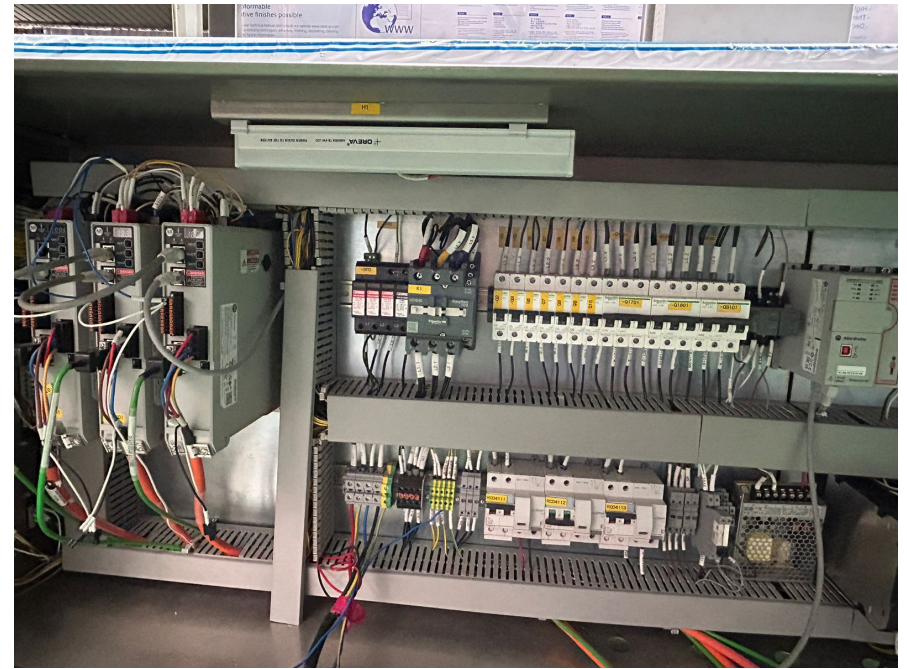
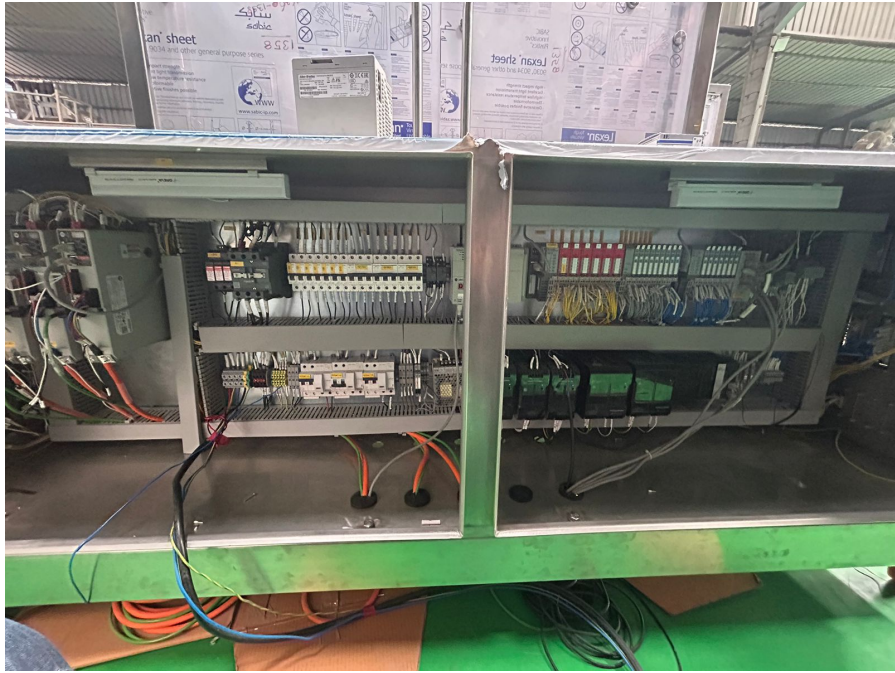
Project Desc:
Robotic Stacker and Pick & Place System

Page Desc:
Control Panel Layout



Mounting Loc: Main Control Cabinet
Job No: 16360-0302
Area: P&P and Stacker System
Loc: CP0301

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Designer: Sahana					

Project Desc:
Robotic Stacker and Pick & Place System

Page Desc:
Control Panel Photo



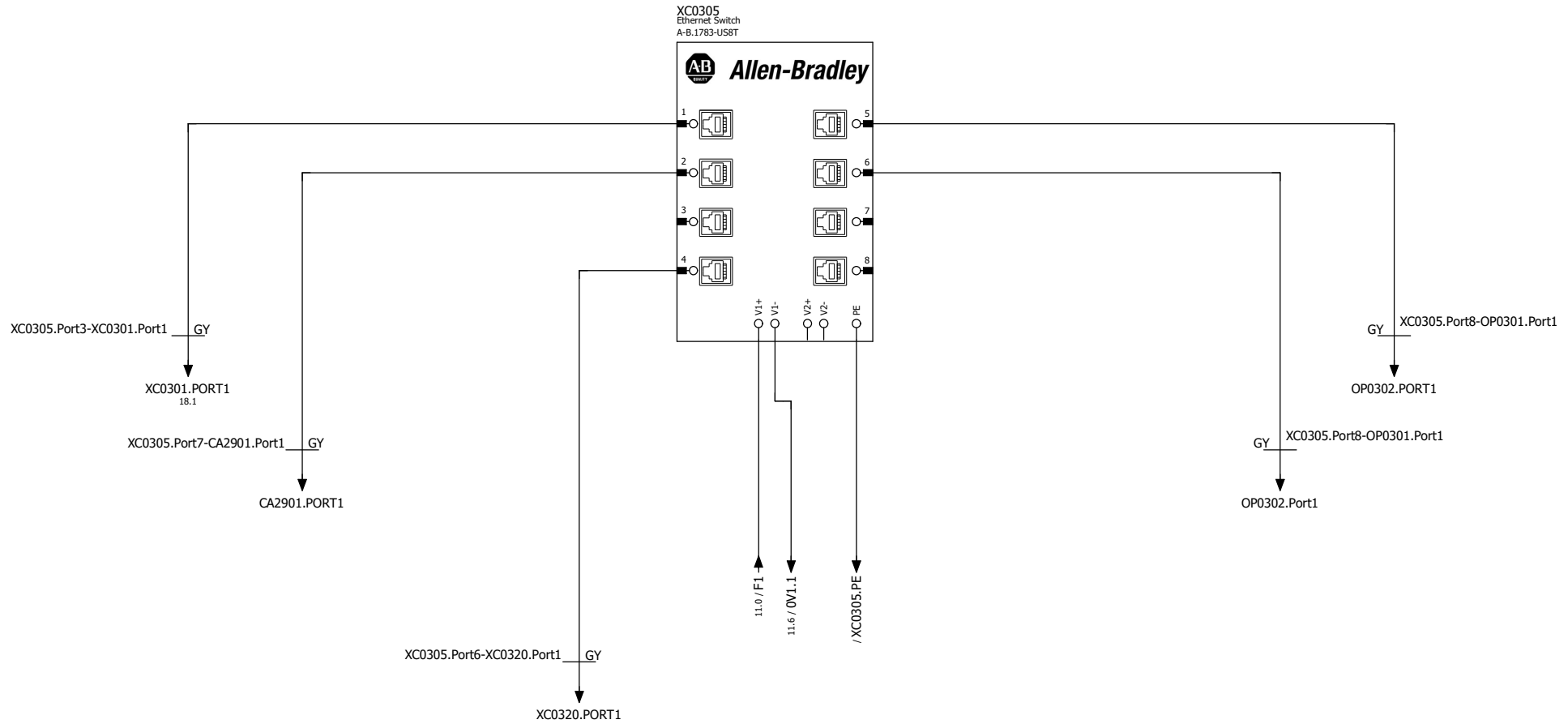
Mounting Loc:
Main Control Cabinet

Job No:
16360-0302

Area:
P&P and Stacker System

Loc:
CP0301

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Project Desc:
Robotic Stacker and Pick & Place System

Page Desc:
Network: Robot WAN Switch

Mounting Loc:
Main Control Cabinet

Job No:
16360-0302

Area:
P&P and Stacker System

Loc:
CP0301

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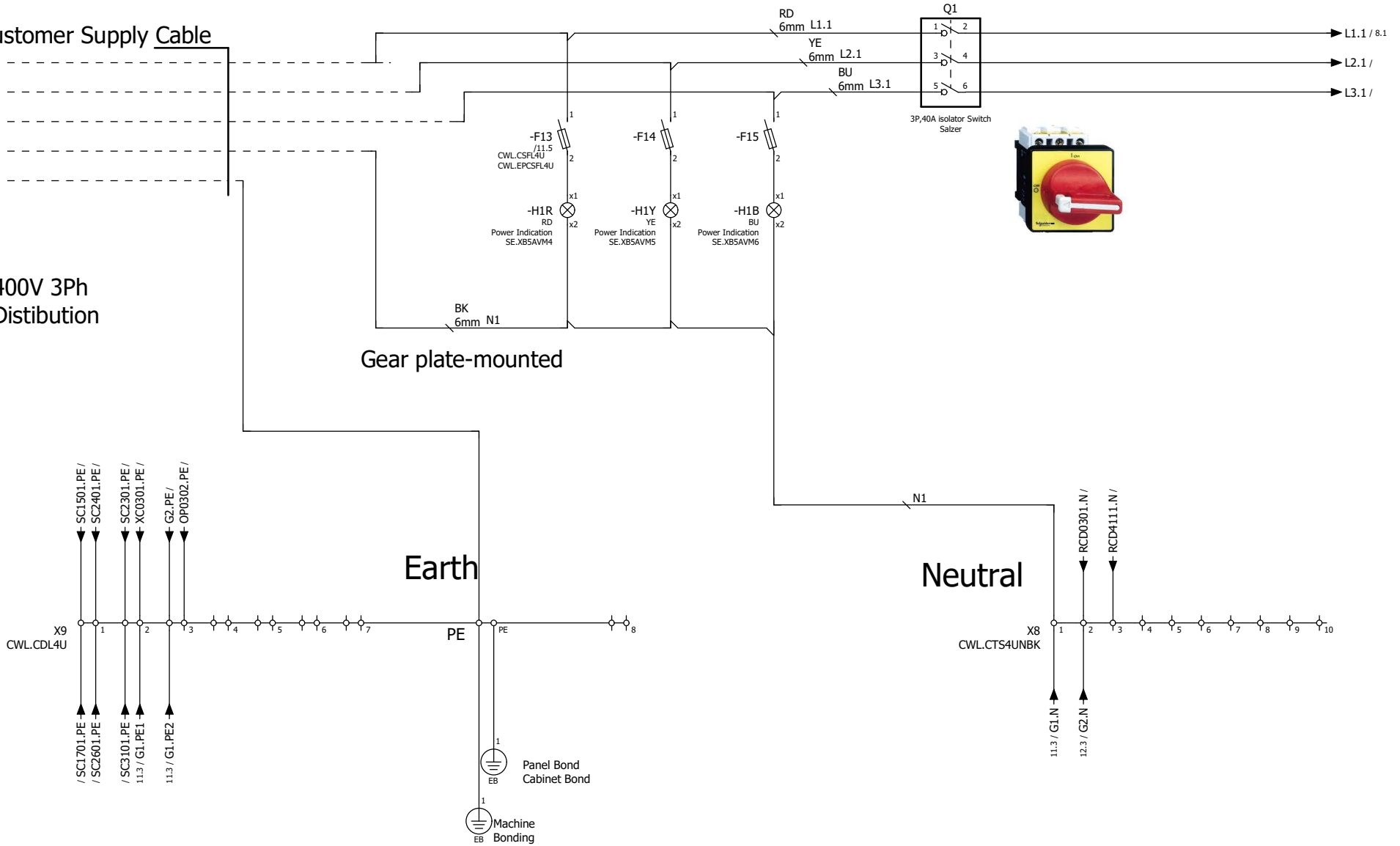
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400V 3Ph Distribution

Gear plate-mounted

Earth

Neutral

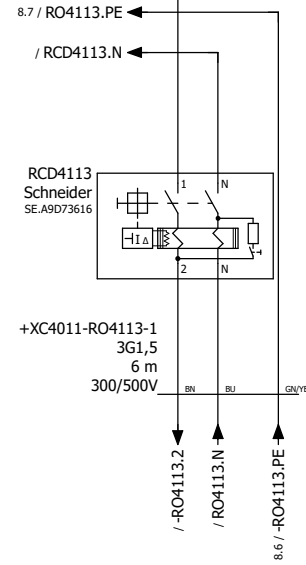


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Designer: Sahana					

Project Desc: Robotic Stacker and Pick & Place System	
Page Desc: Power Distribution: 400V Supply	

Mounting Loc: Main Control Cabinet	Job No: 16360-0302	Area: P&P and Stacker System	Loc: CP0301
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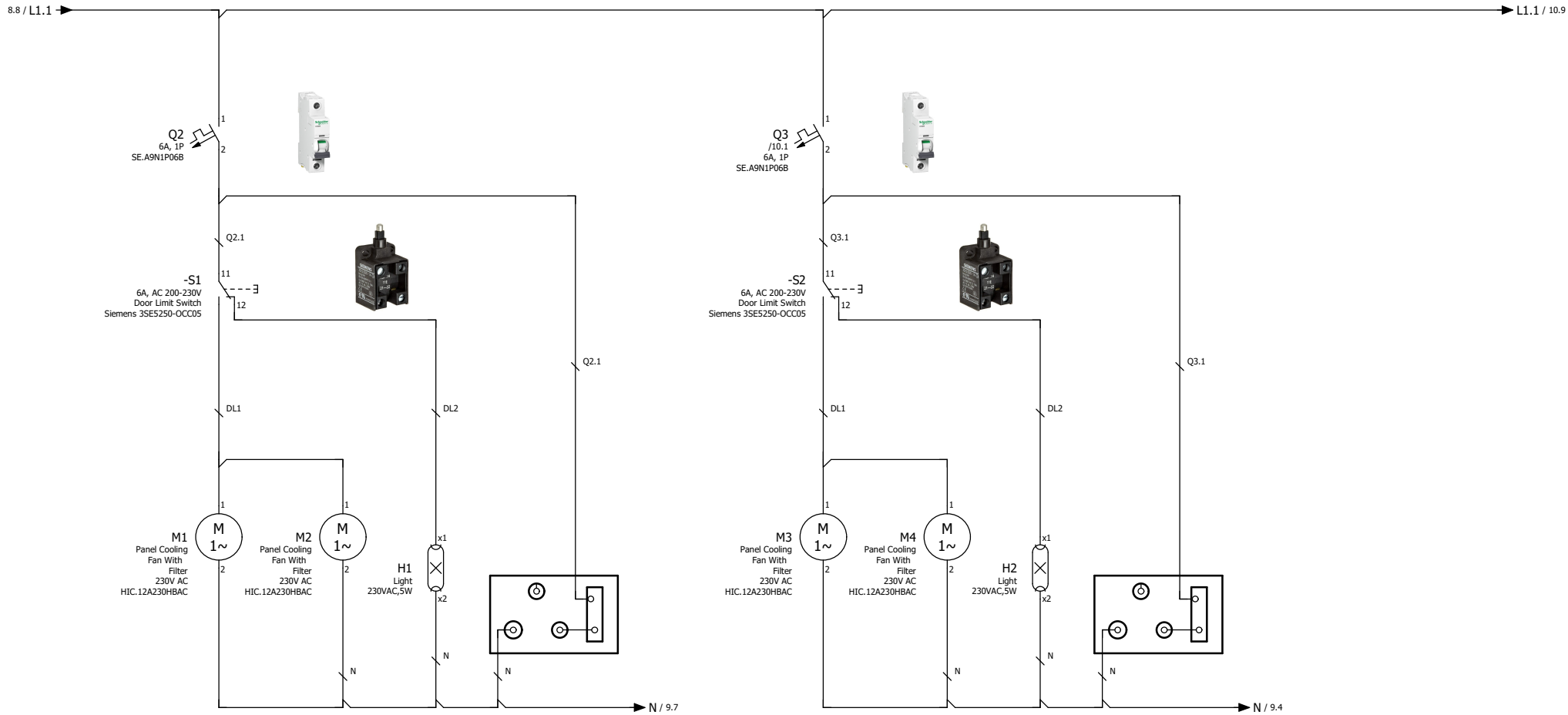
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Designer: Sahana					

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Page Desc: Power Distribution: 400V & GPO

Mounting Loc: Main Control Cabinet
Job No: 16360-0302
Area: P&P and Stacker System
Loc: CP0301

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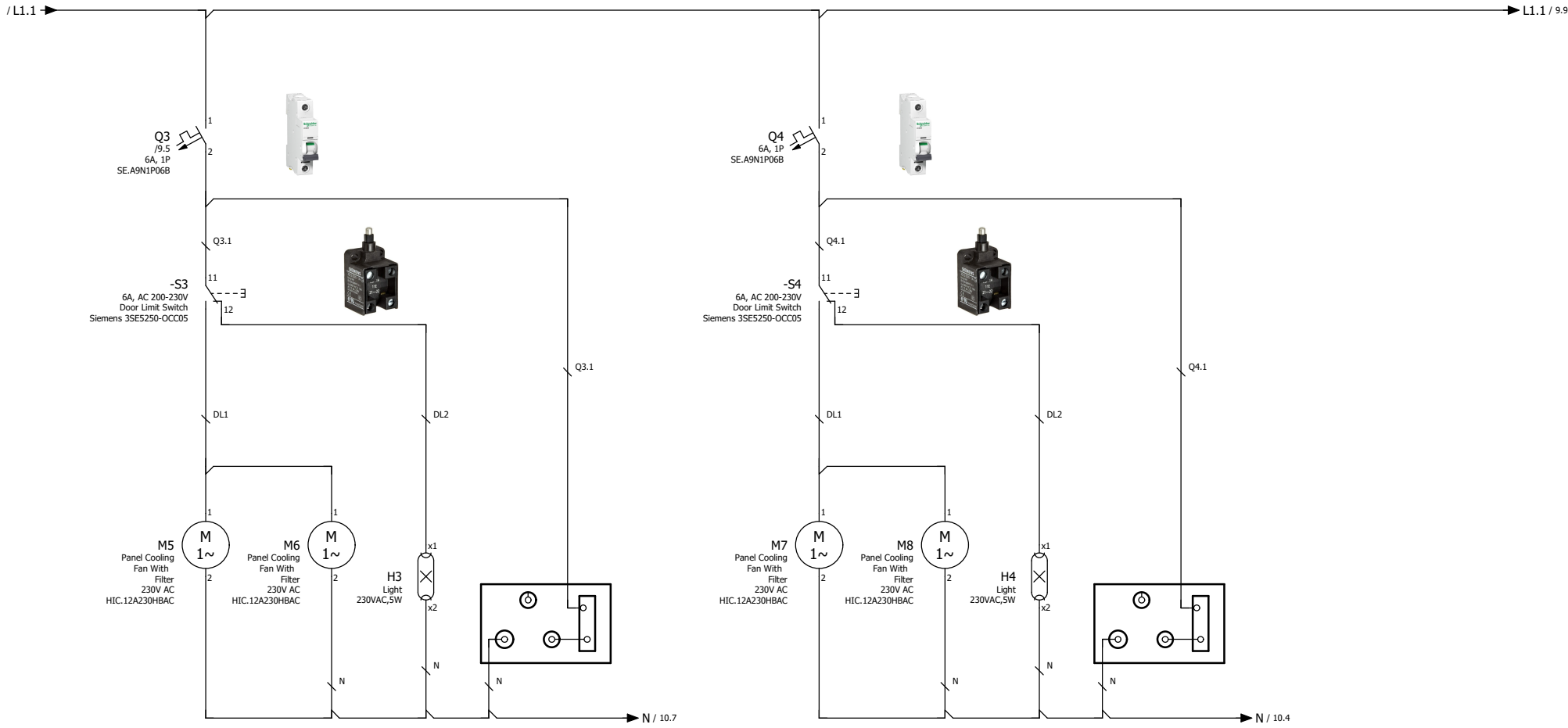


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Designer: Sahana					

Project Desc: Robotic Stacker and Pick & Place System
Page Desc: Power Distribution: Cabinet Fan and Light

Mounting Loc: Main Control Cabinet		
Job No: 16360-0302	Area: P&P and Stacker System	Loc: CP0301

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Page Desc: Power Distribution: Cabinet Fan and Light



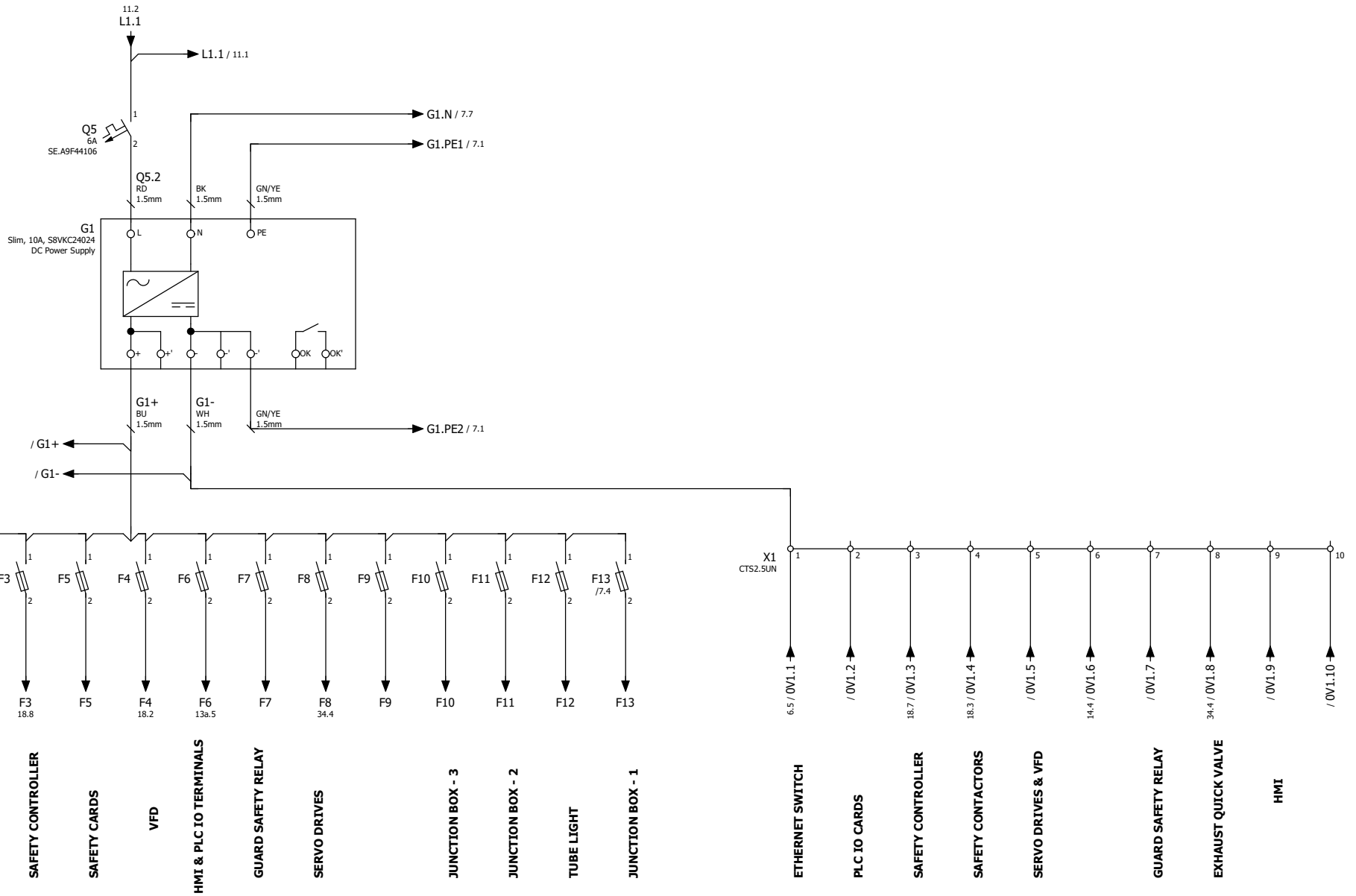
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Job No: 16360-0302

Area: P&P and Stacker System

Loc: CP0301

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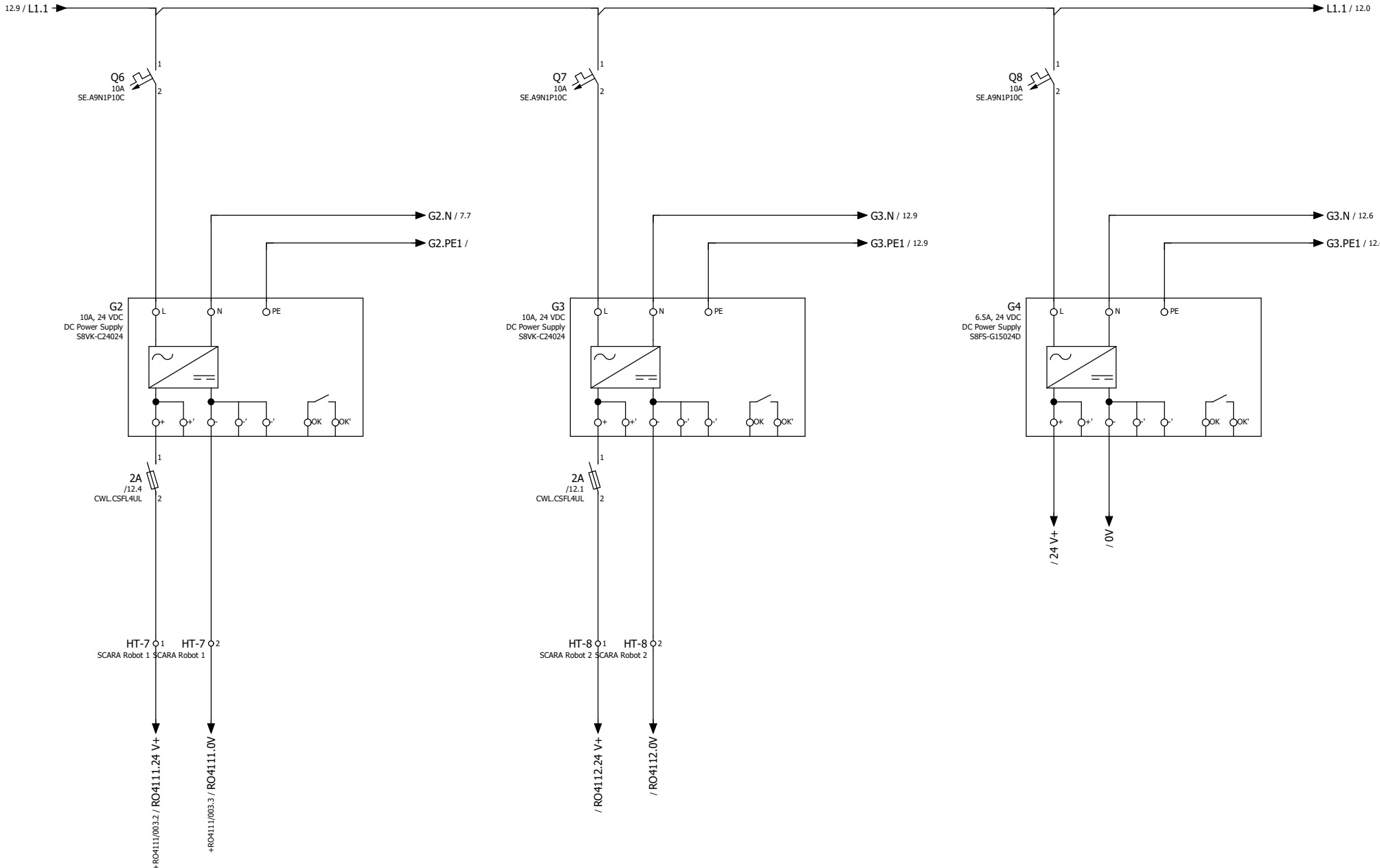
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Designer: Sahana					

Project Desc: **Robotic Stacker and Pick & Place System**

Page Desc: Power Distribution: 24VDC Power Supply



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Loc: CP0301	Next Page: 12

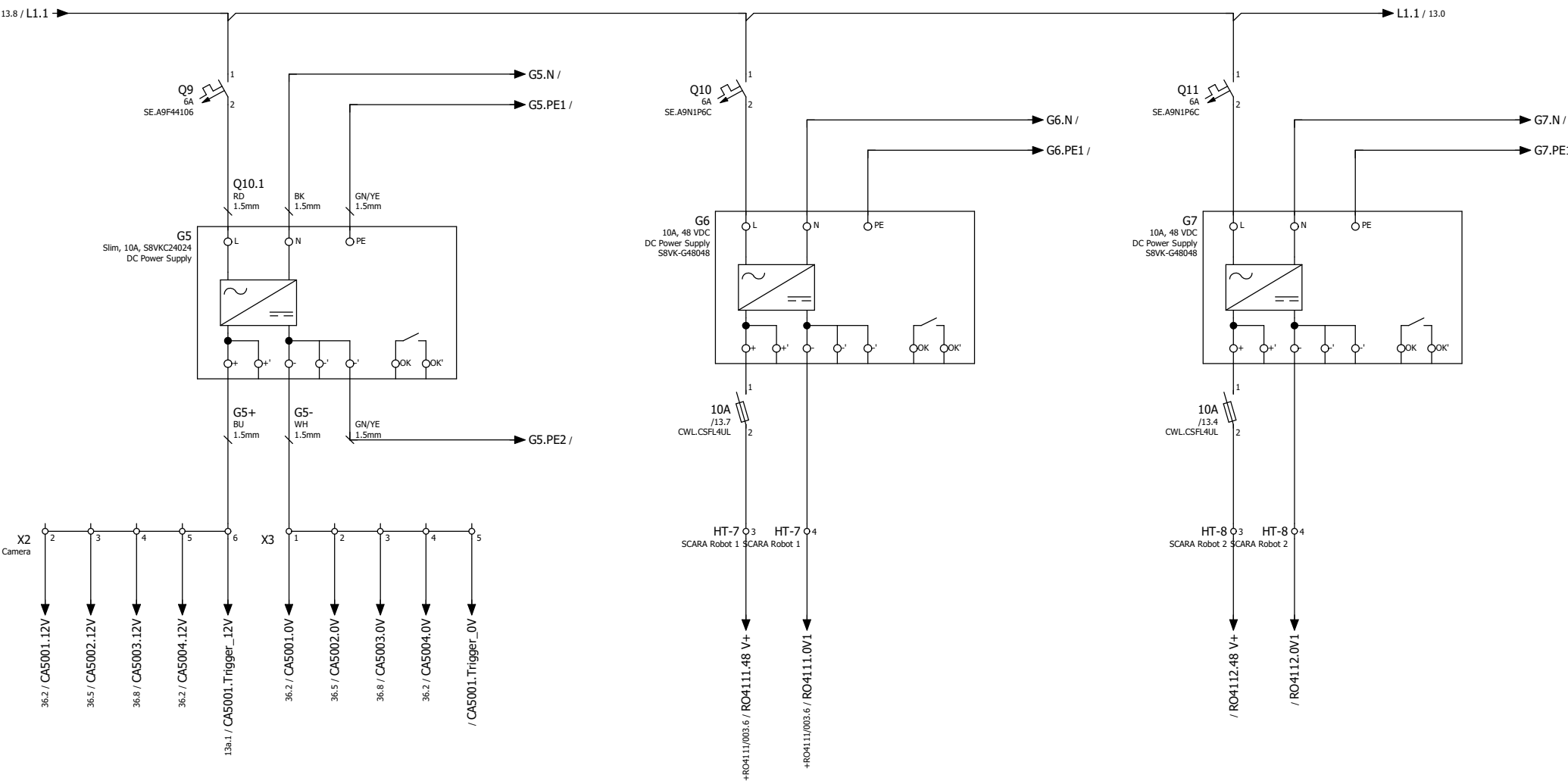


For Scara Robot 1

For Scara Robot 2

Date Printed: 1/21/2024	Rev:	By:	Date:	Modification:	Page Modified Date: 1/20/2024	Project Desc: Robotic Stacker and Pick & Place System	Mounting Loc: Main Control Cabinet	Page: 12
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							Loc: CP0301	Next Page: 13

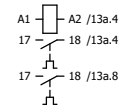
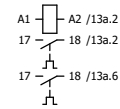
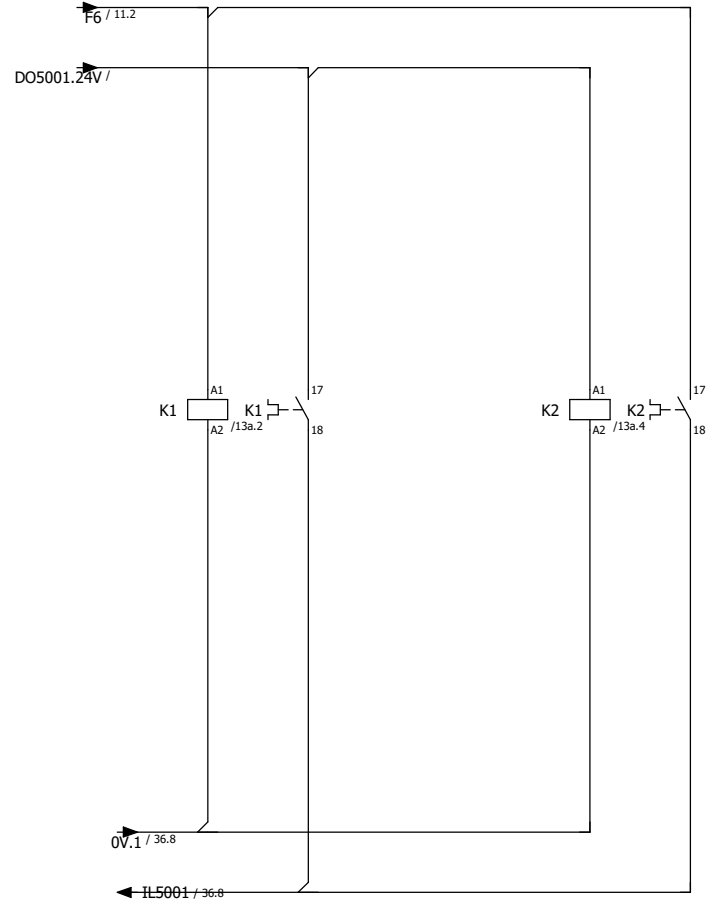
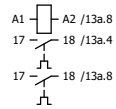
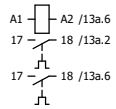
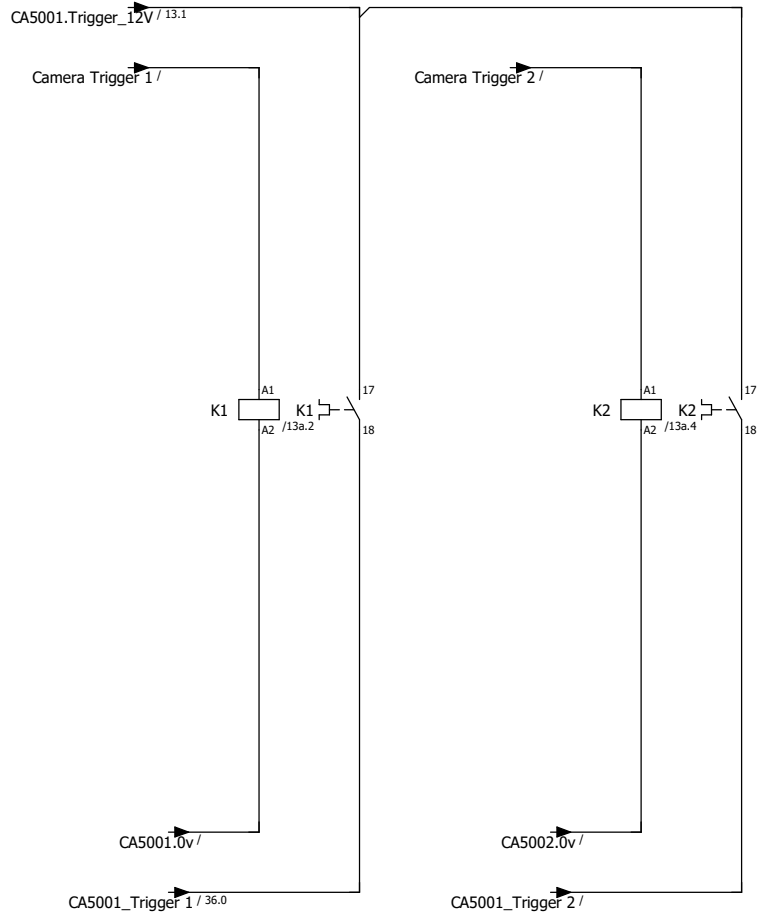




Cameras

For Scara Robot 1

For Scara Robot 2



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Designer: Sahana					

Project Desc: **Robotic Stacker and Pick & Place System**

Page Desc: Camera



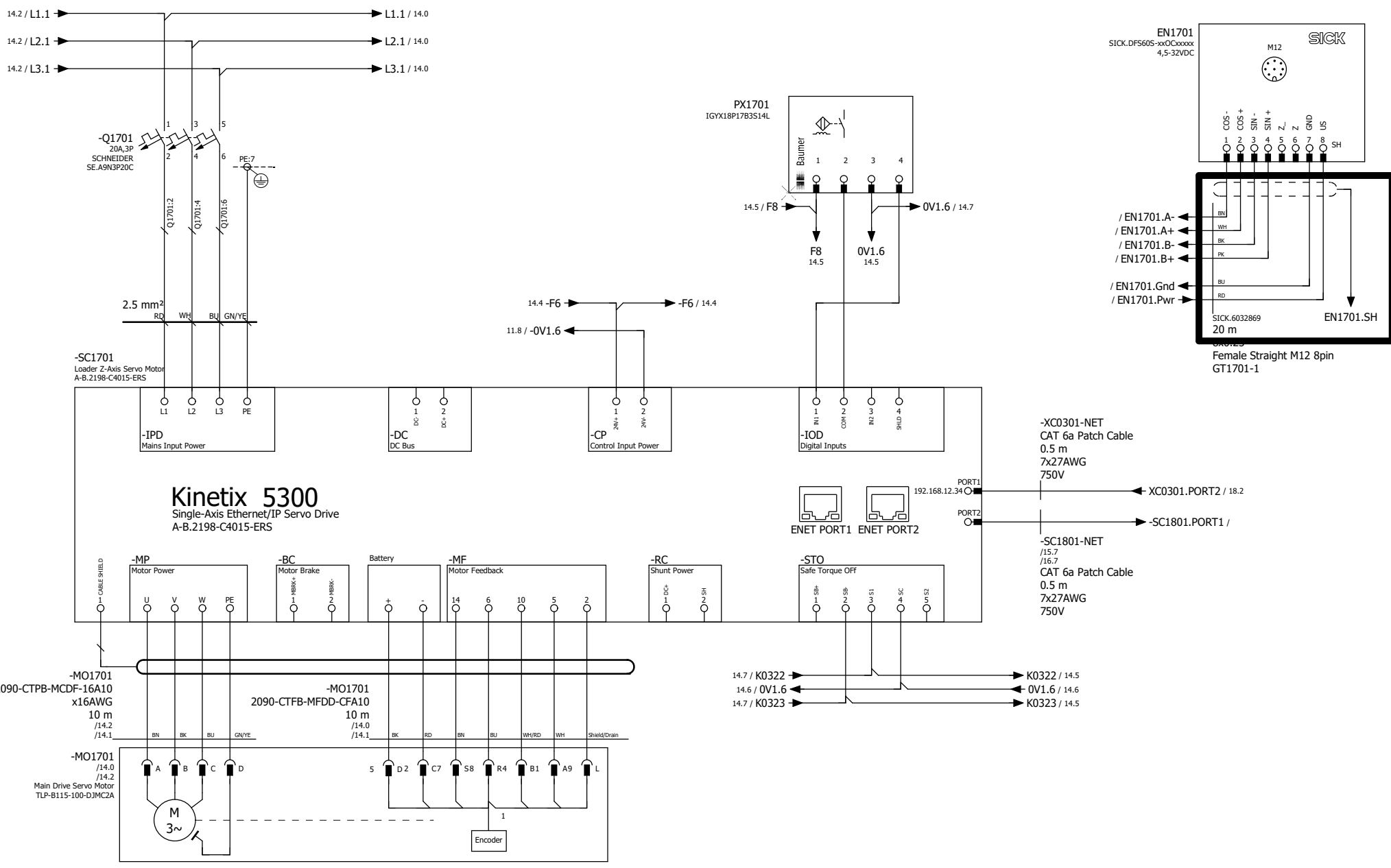
Mounting Loc: **Main Control Cabinet**

Job No: 16360-0302

Area: P&P and Stacker System

Loc: CP0301

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Designer: Sahana					

Project Desc: **Robotic Stacker and Pick & Place System**

Page Desc: **Power Distribution: MO1701 Main Drive Servo Motor**

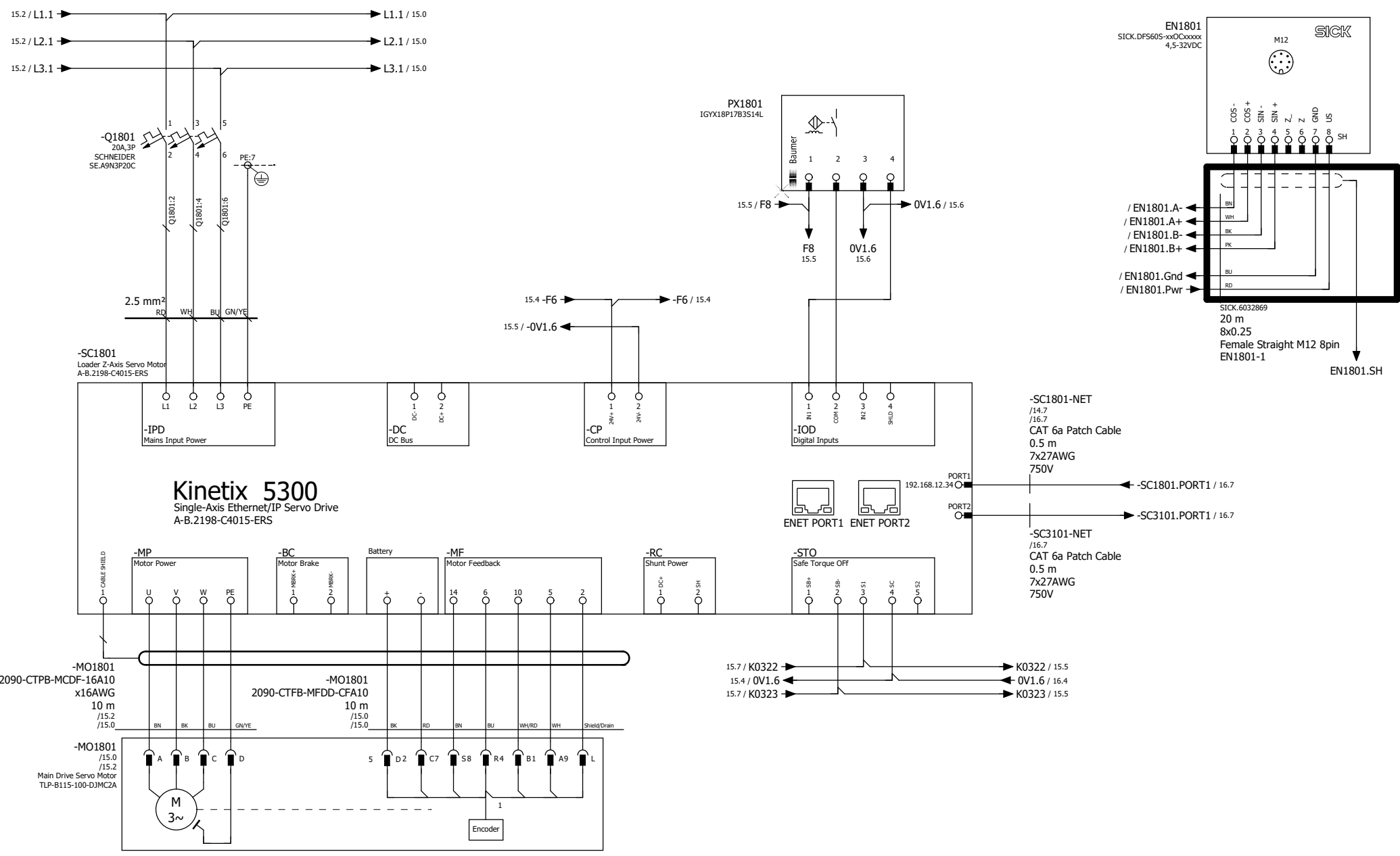
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Job No: **16360-0302**

Area: **P&P and Stacker System**

Loc: **CP0301**

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Designer: Sahana					

Project Desc: **Robotic Stacker and Pick & Place System**

Page Desc: **Power Distribution: MO1801 Infeed Conveyor Servo motor**

Mounting Loc: **Main Control Cabinet**

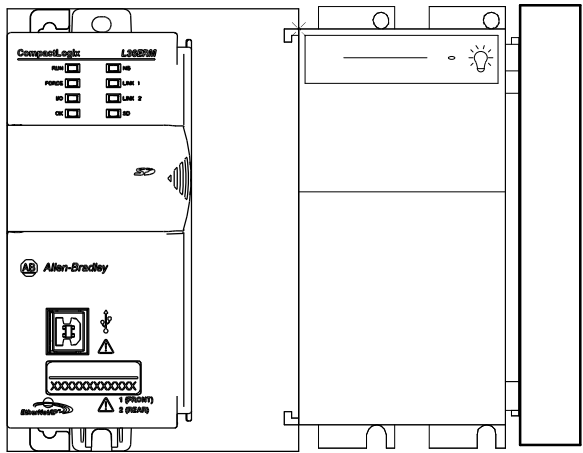
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Area: **P&P and Stacker System**

Loc: **CP0301**

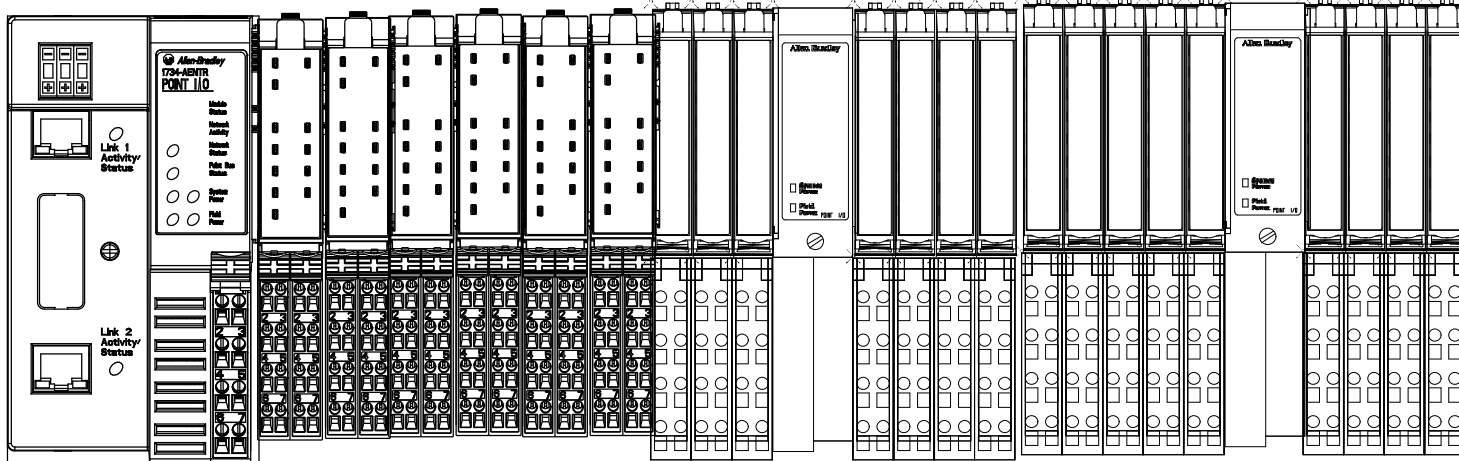
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XC0301



XC0320

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 XC0320:2:0
 XC0320:3:1
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 XC0320:5:1
 XC0320:6:1
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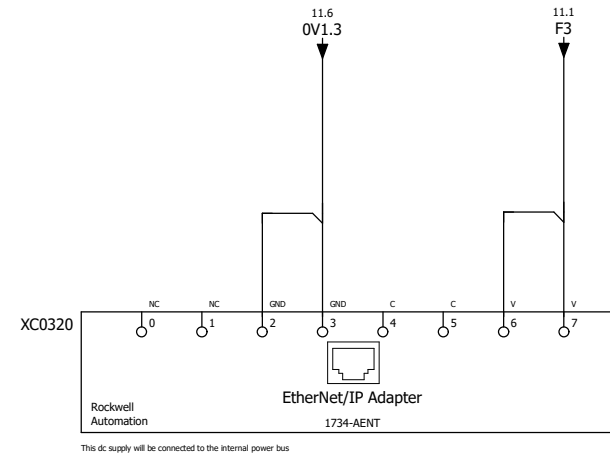
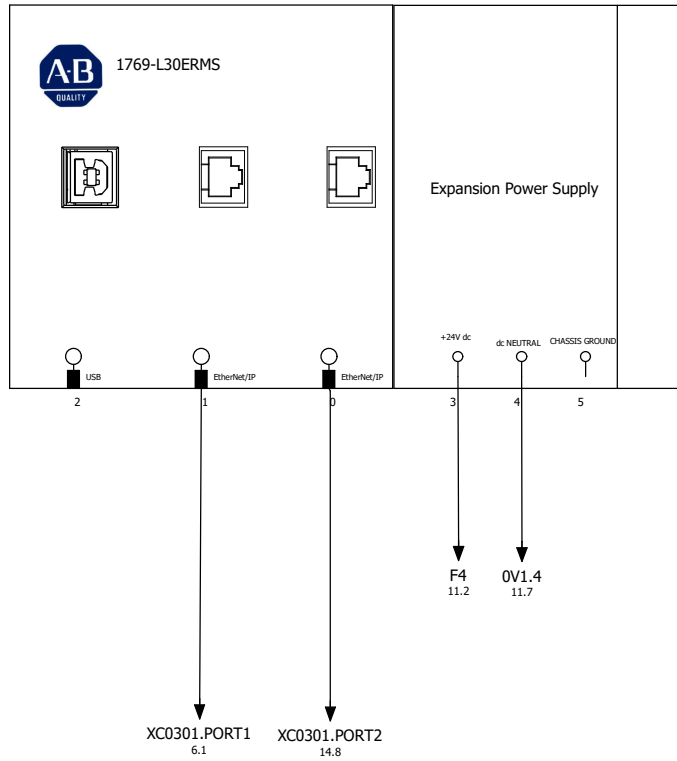
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Designer: Sahana					

Project Desc: Robotic Stacker and Pick & Place System
Page Desc: Control System: PLC and Remote IO Overview

Mounting Loc: Main Control Cabinet		
Job No: 16360-0302	Area: P&P and Stacker System	Loc: CP0301

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XC0301



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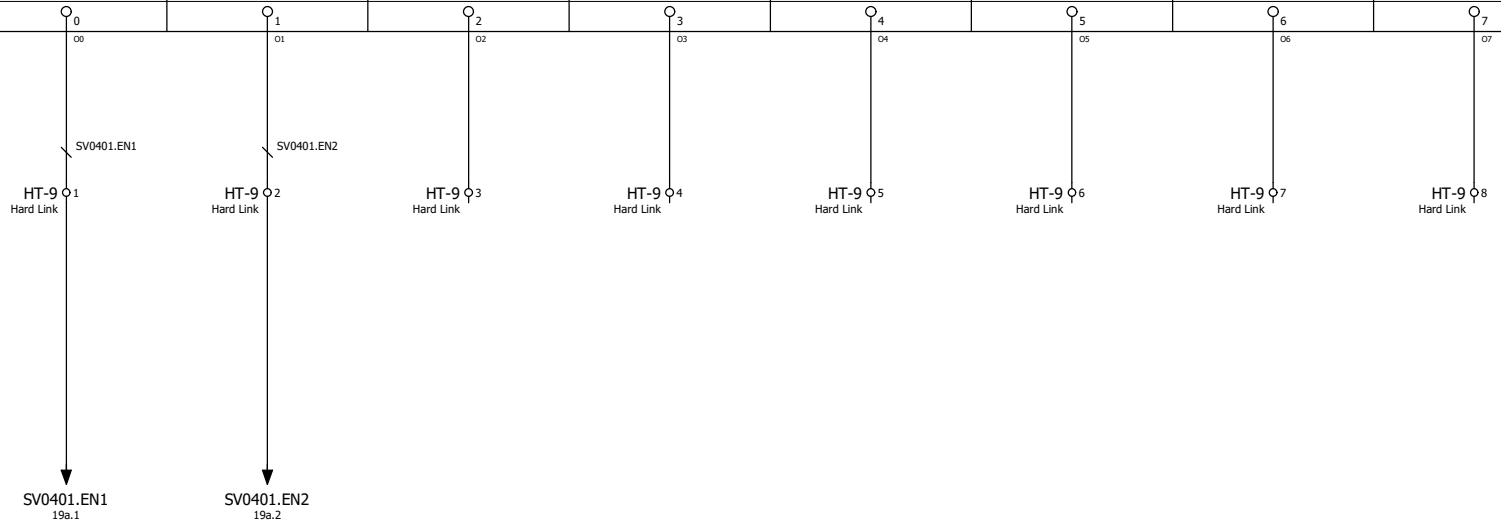
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Page Desc: Controller Connection

Mounting Loc: Main Control Cabinet		
Job No: 16360-0302	Open: P&P and Stacker System	Loc: CP0301

Page: 18
Next Page: 19

XC0320.1
/19a.1
8xDigital Out
1734-OB8S

Allen-Bradley		Byte 0						8xDigital Out		1734
STO Enable 1	STO Enable 2	Spare		Spare		Spare		Spare		
K0322	K0323							SV0401_EN2		
XC0320:1:O.Data.0	XC0320:1:O.Data.1	XC0320:1:O.Data.2	XC0320:1:O.Data.3	XC0320:1:O.Data.4	XC0320:1:O.Data.5	XC0320:1:O.Data.6	XC0320:1:O.Data.7			
0	1	2	3	4	5	6	7			
00	01	02	03	04	05	06	07			



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Designer: Sahana					

Project Desc:
Robotic Stacker and Pick & Place System

Page Desc:
Control System: XC0320:Slot 1 Safety Outputs



Mounting Loc:
Main Control Cabinet

Job No:
16360-0302

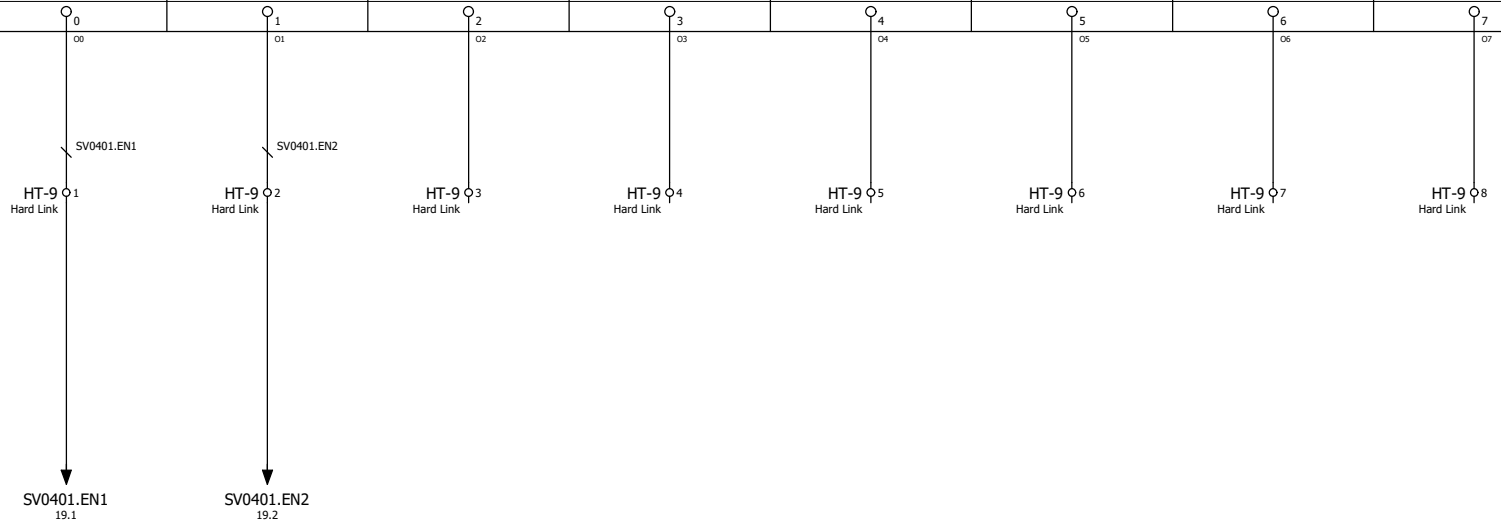
Area:
P&P and Stacker System

Loc:
CP0301

Page:	19
Next Page:	19a

XC0320.1
/19.1
8xDigital Out
1734-OB8S

Allen-Bradley Byte 0 8xDigital Out 1734							
STO Enable 1	STO Enable 2	Spare	Spare	Spare	Spare	Spare	Spare
K0322	K0323						SV0401_EN2
XC0320:1:O.Data.0	XC0320:1:O.Data.1	XC0320:1:O.Data.2	XC0320:1:O.Data.3	XC0320:1:O.Data.4	XC0320:1:O.Data.5	XC0320:1:O.Data.6	XC0320:1:O.Data.7
0	1	2	3	4	5	6	7



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Designer: Sahana					

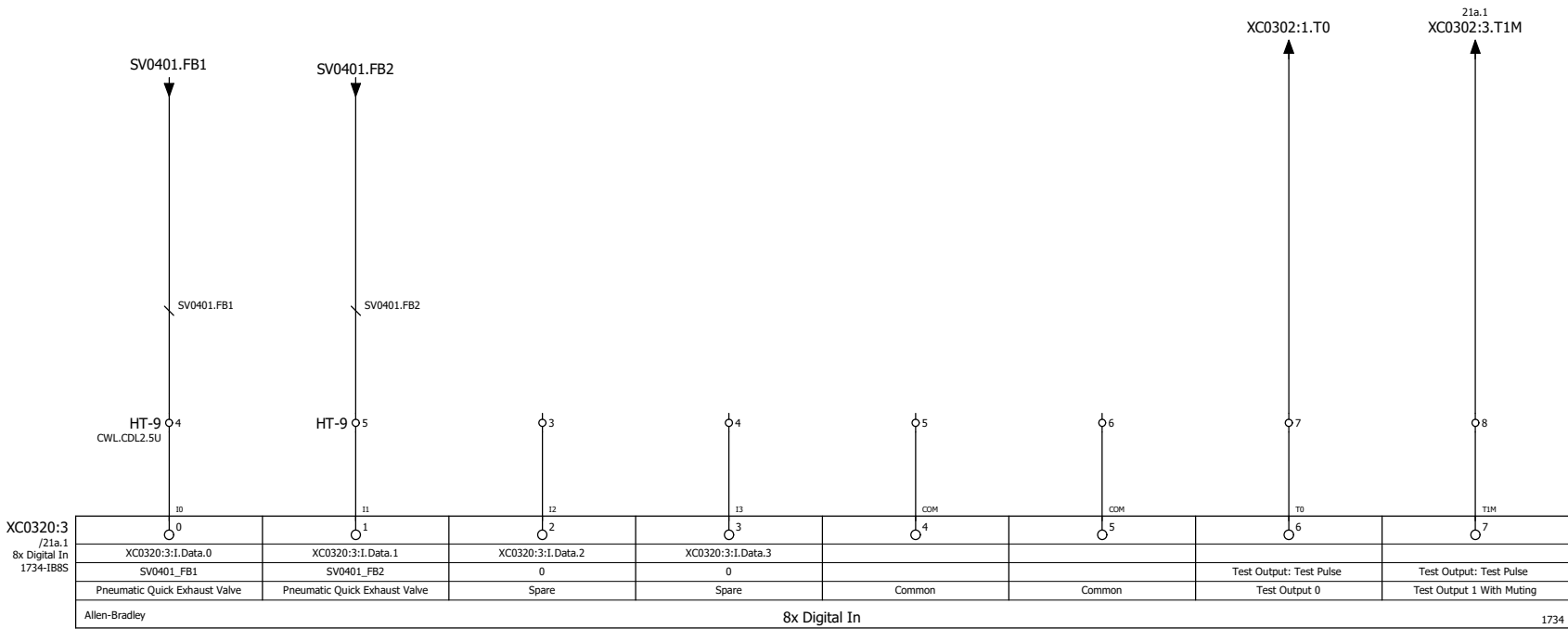
Project Desc:
Robotic Stacker and Pick & Place System

Page Desc:
Control System: XC0320:Slot 1 Safety Outputs



Mounting Loc: Main Control Cabinet	Job No: 16360-0302	Area: P&P and Stacker System	Loc: CP0301
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Page: 19a	Next Page: 21
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Designer: Sahana					

Project Desc:
Robotic Stacker and Pick & Place System

Page Desc:
Control System: XC0320:Slot 3 Safety Inputs

Mounting Loc:
Main Control Cabinet

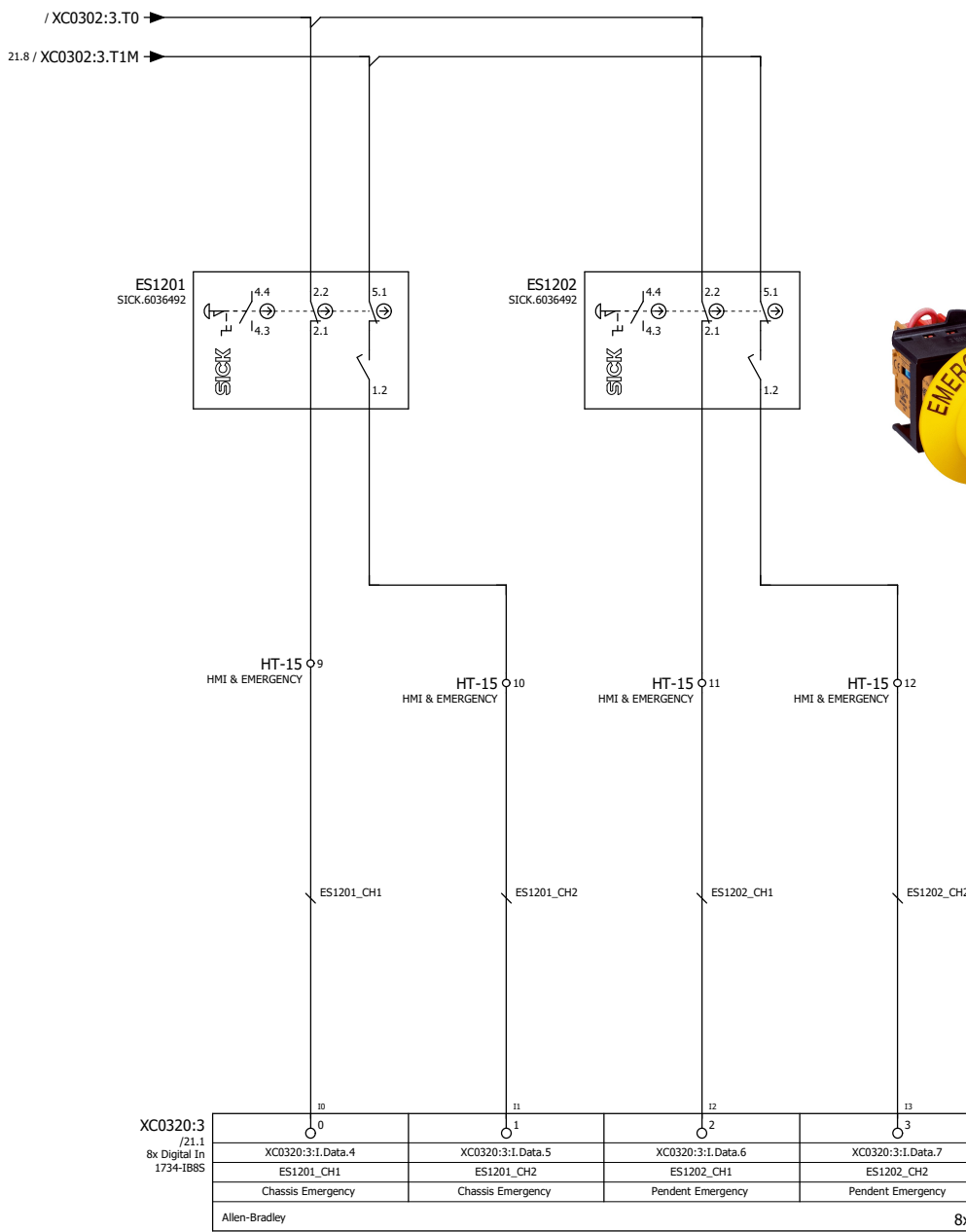
Job No:
16360-0302

Area:
P&P and Stacker System

Loc:
CP0301

Page:
21

Next Page:
21a



XC0320:3 /21.1 8x Digital In 1734-1B8S	0	1	2	3	COM	COM	TD	TIM
	XC0320:3:I.Data.4	XC0320:3:I.Data.5	XC0320:3:I.Data.6	XC0320:3:I.Data.7				
	ES1201_CH1	ES1201_CH2	ES1202_CH1	ES1202_CH2			Test Output: Test Pulse	Test Output: Test Pulse
	Chassis Emergency	Chassis Emergency	Pendent Emergency	Pendent Emergency	Common	Common	Test Output 0	Test Output 1 With Muting
Allen-Bradley 8x Digital In 1734								

Date Printed: 1/21/2024	Rev:	By:	Date:	Modification:	Page Modified Date: 1/20/2024
Designer: Sahana					

Project Desc:
Robotic Stacker and Pick & Place System

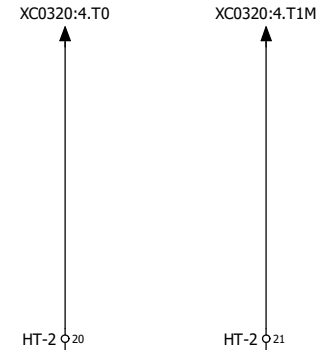
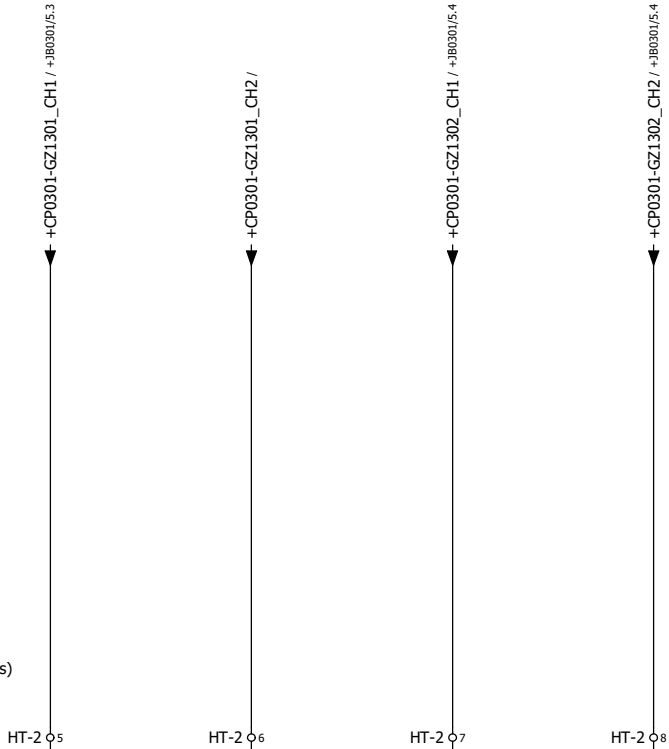
Page Desc:
Control System: XC0320:Slot 3 Safety Inputs



Mounting Loc: Main Control Cabinet	Job No: 16360-0302	Area: P&P and Stacker System	Loc: CP0301
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Page: 21a	Next Page: 22
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HT-2 (1301 Guards Doors)



XC0320:4 8x Digital In 1734-IB8S	8	9	10	11	COM	12	13	14	15
	XC0320:4:I.Data.0	XC0320:4:I.Data.1	XC0320:4:I.Data.2	XC0320:4:I.Data.3					
	ES1201	ES1201	ES1202	ES1202			Test Output: Test Pulse	Test Output: Test Pulse	
	Infeed E-Stop	Infeed E-Stop	Chasis E-Stop	Chasis E-Stop	Common	Common	Test Output 2	Test Output 3 With Muting	
Allen-Bradley 8x Digital In									

Date Printed: 1/21/2024	Rev:	By:	Date:	Modification:	Page Modified Date: 1/20/2024
Designer: Sahana					

Project Desc:
Robotic Stacker and Pick & Place System

Page Desc:
Control System: XC0320:Slot 4 Safety Inputs



Mounting Loc:
Main Control Cabinet

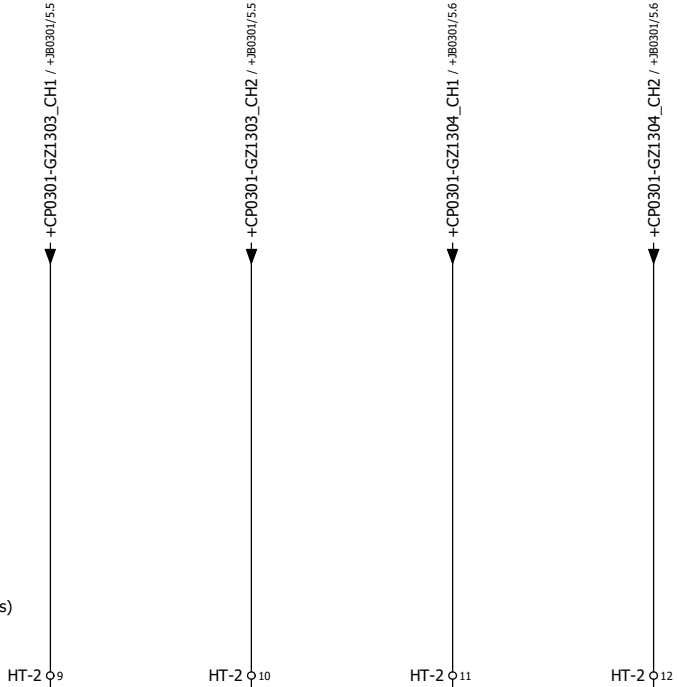
Job No.: 16360-0302

Area: P&P and Stacker System

Loc: CP0301

Page:	22
Next Page:	22a

HT-2 (1301 Guards Doors)



XC0320:4 8x Digital In 1734-IB8S	8	9	10	11	COM	COM	T2	T3M
	XC0320:4:I.Data.0	XC0320:4:I.Data.1	XC0320:4:I.Data.2	XC0320:4:I.Data.3				
	ES1201	ES1201	ES1202	ES1202			Test Output: Test Pulse	Test Output: Test Pulse
	Infeed E-Stop	Infeed E-Stop	Chasis E-Stop	Chasis E-Stop	Common	Common	Test Output 2	Test Output 3 With Muting
Allen-Bradley 8x Digital In								

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Designer: Sahana					

Project Desc:
Robotic Stacker and Pick & Place System

Page Desc:
Control System: XC0320:Slot 4 Safety Inputs



Mounting Loc:
Main Control Cabinet

Job No.: 16360-0302

Area: P&P and Stacker System

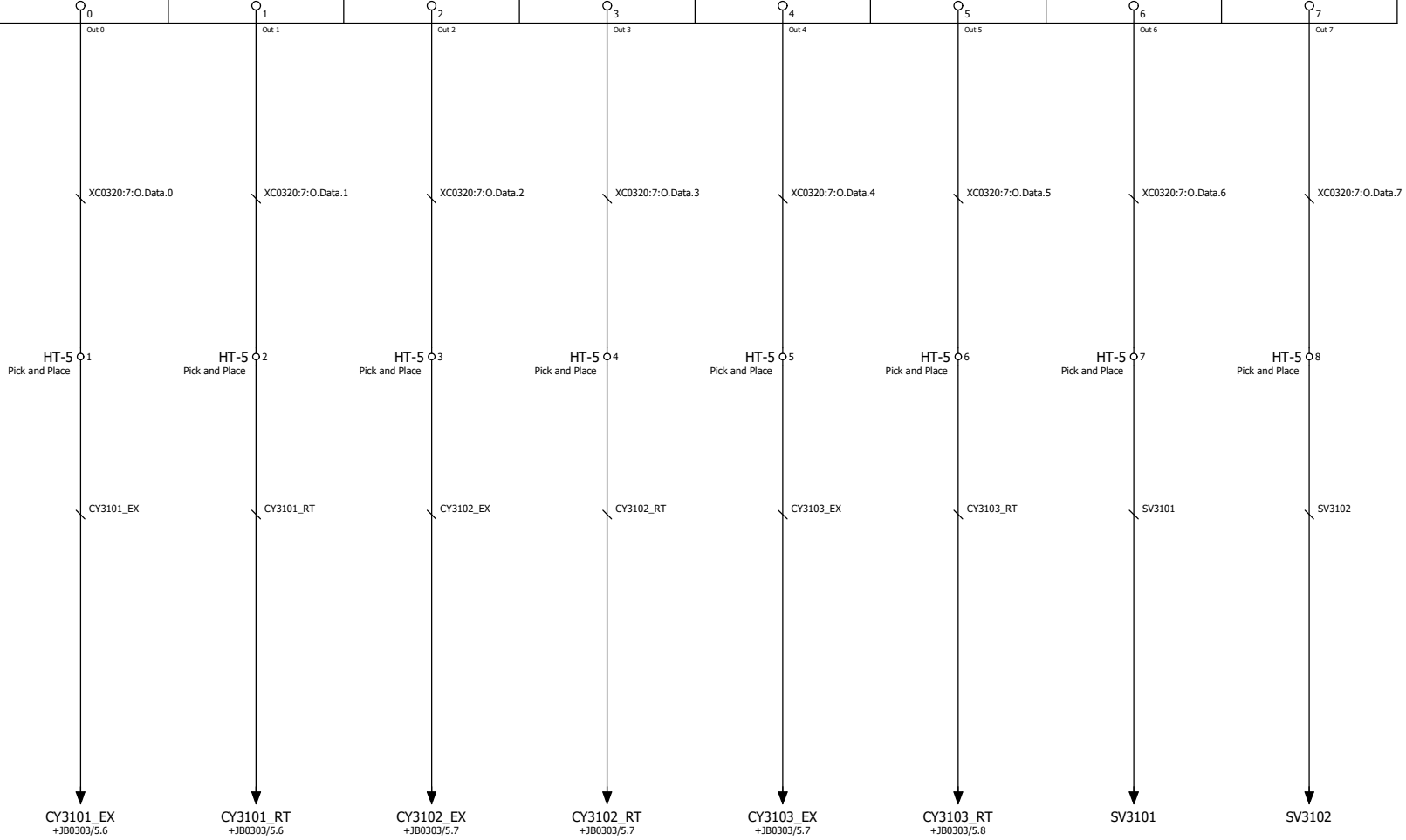
Loc: CP0301

Page: **22a**

Next Page: 24

XC0320:7
1769-0B8
8 Digital Outputs

Rockwell Automation		Byte 0						8x Digital Out		1734-0B8
Fliping Assembly Cyl 1	Fliping Assembly Cyl 1	Rotary actuator Cylinder	Rotary actuator Cylinder	Bottom Plate actuate Cylinder	Bottom Plate actuate Cylinder	Fliping Vacuum Solenoid 1	Fliping Vacuum Solenoid 2			
CY3101_EX	CY3101_RT	CY3102_EX	CY3102_RT	CY3103_EX	CY3103_RT	SV3101	SV3102			
XC0320:7:O.Data.0	XC0320:7:O.Data.1	XC0320:7:O.Data.2	XC0320:7:O.Data.3	XC0320:7:O.Data.4	XC0320:7:O.Data.5	XC0320:7:O.Data.6	XC0320:7:O.Data.7			
Out 0	Out 1	Out 2	Out 3	Out 4	Out 5	Out 6	Out 7			



Date Printed: 1/21/2024	Rev:	By:	Date:	Modification:	Page Modified Date: 1/20/2024
Designer: Sahana					

Project Desc:
Robotic Stacker and Pick & Place System

Page Desc:
Control System: XC0320:Slot 7 Digital Outputs



Mounting Loc:
Main Control Cabinet

Job No:
16360-0302

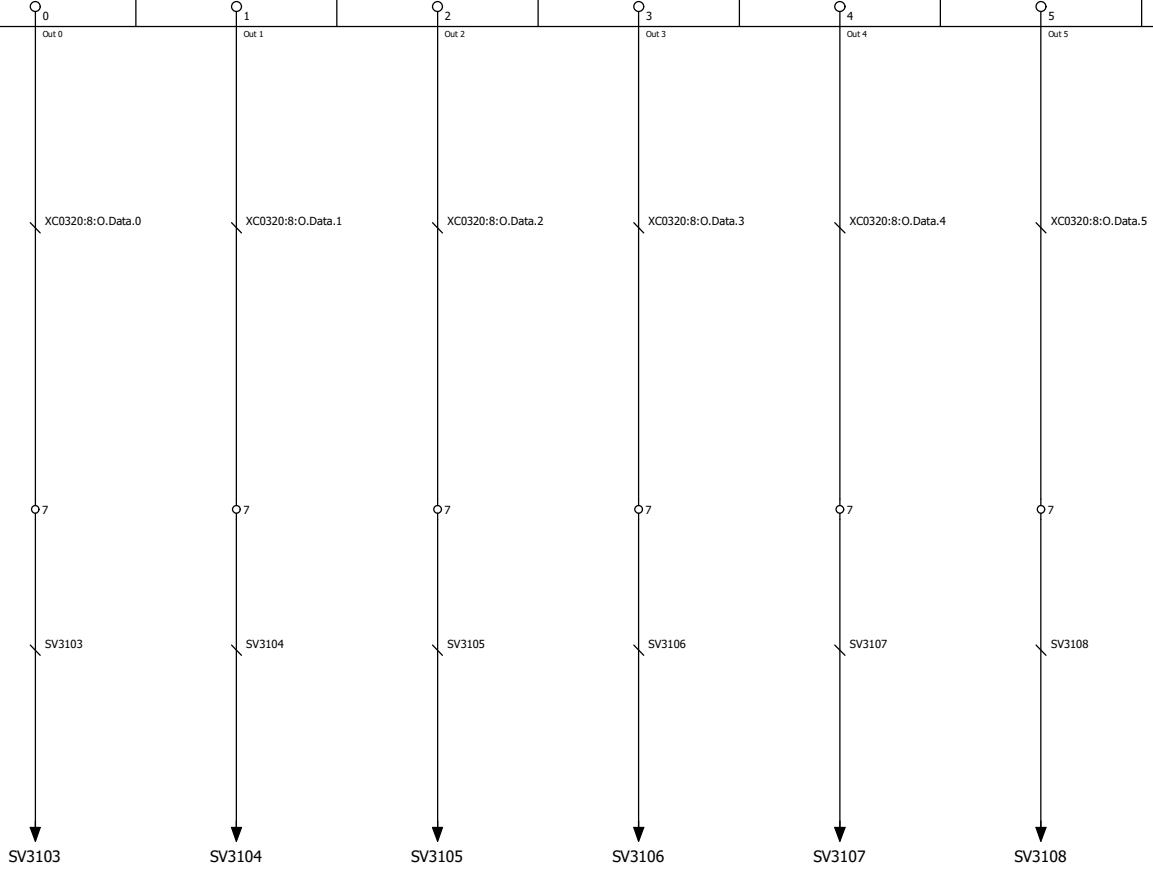
Area:
P&P and Stacker System

Loc:
CP0301

Page:	24
Next Page:	25

XC0320:8
1769-088

Rockwell Automation		Byte 0		8x Digital Out			
Flipping Vacuum Solenoid 3	Flipping Vacuum Solenoid 4	Flipping Vacuum Solenoid 5	Flipping Vacuum Solenoid 6	Flipping Vacuum Solenoid 7	Flipping Vacuum Solenoid 8	Flipping Vacuum Solenoid 9	Scara Robot 2 CYL 2 Retract Solenoid
SV3103	SV3104	SV3105	SV3106	SV3107	SV3108	SV3109	CY2524_RT
XC0320:8:O.Data.0	XC0320:8:O.Data.1	XC0320:8:O.Data.2	XC0320:8:O.Data.3	XC0320:8:O.Data.4	XC0320:8:O.Data.5	XC0320:8:O.Data.6	XC0320:8:O.Data.7
0	1	2	3	4	5	6	7



Date Printed: 1/21/2024	Rev:	By:	Date:	Modification:	Page Modified Date: 1/20/2024
Designer: Sahana					

Project Desc:
Robotic Stacker and Pick & Place System

Page Desc:
Control System: XC0320:Slot 8 Digital Outputs

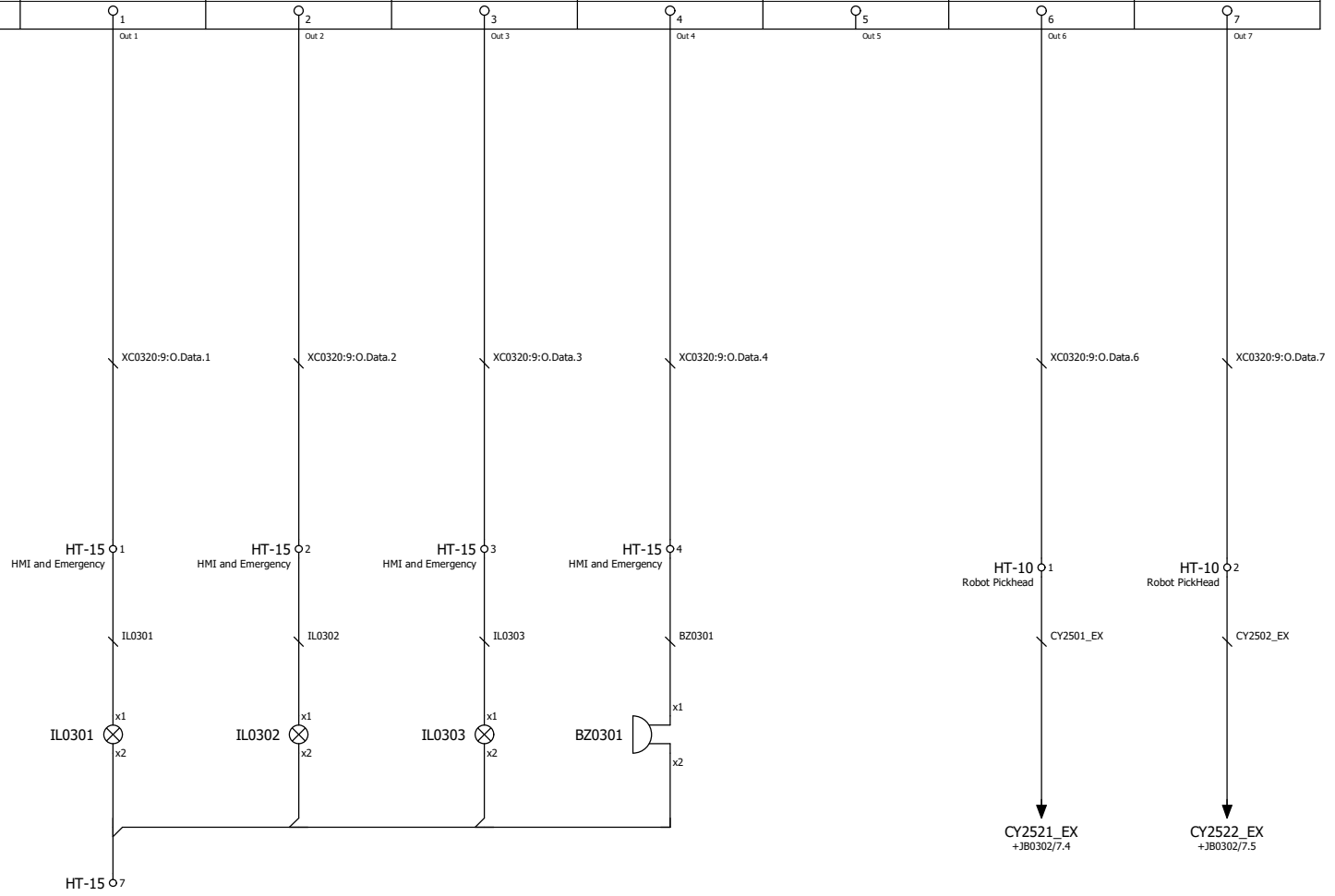


Mounting Loc: Main Control Cabinet	Job No: 16360-0302	Area: P&P and Stacker System	Loc: CP0301
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Page:	25
Next Page:	26

XC0320:9
1734-0B8

Rockwell Automation		Byte 0				8x Digital Out		1734-0B8
Spare	Tower Lamp	Tower Lamp	Tower Lamp	Buzzer	Spare	SCARA Robot Cyl 1	SCARA Robot Cyl 2	
	IL0301	IL0302	IL0303	BZ0301		CY2501_EX	CY2501_EX	
XC0320:9:O.Data.0	XC0320:9:O.Data.1	XC0320:9:O.Data.2	XC0320:9:O.Data.3	XC0320:9:O.Data.4	XC0320:9:O.Data.5	XC0320:9:O.Data.6	XC0320:9:O.Data.7	
0 Out 0	1 Out 1	2 Out 2	3 Out 3	4 Out 4	5 Out 5	6 Out 6	7 Out 7	



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Designer: Sahana					

Project Desc:
Robotic Stacker and Pick & Place System

Page Desc:
Control System:XC0320:Slot 9 Digital Outputs



Mounting Loc:
Main Control Cabinet

Job No:
16360-0302

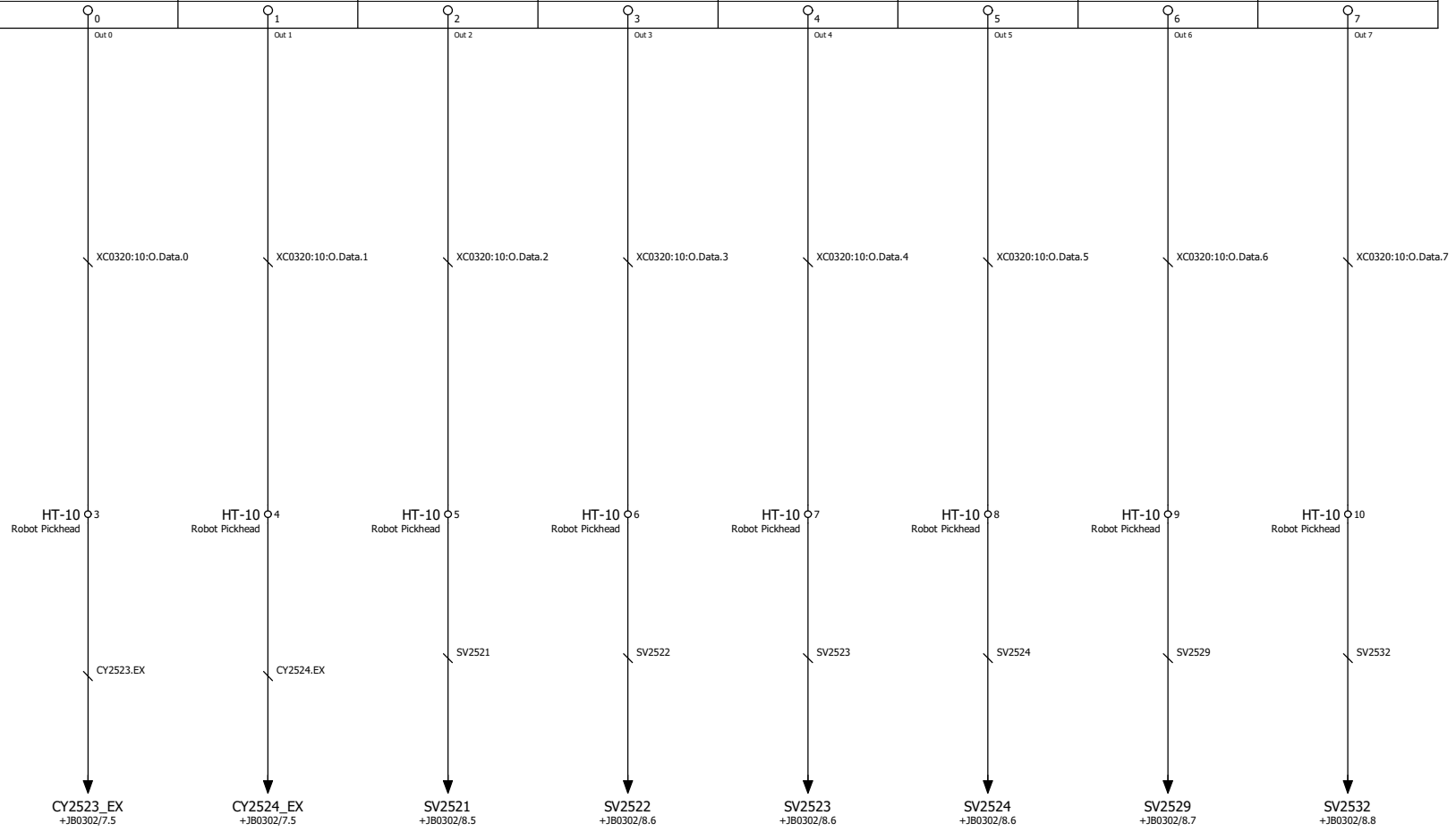
Area:
P&P and Stacker System

Loc:
CP0301

Page:	26
Next Page:	27

XC0320:10
1734-088

Rockwell Automation		Byte 0		8x Digital Out			
Scara Robot 2 CYL 1	Scara Robot 2 CYL 2	Scara Robot Vacuum Solenoid 1	Scara Robot Vacuum Solenoid 2	Scara Robot Vacuum Solenoid 3	Scara Robot Vacuum Solenoid 4	Scara Robot Purging Solenoid 1	Scara Robot Purging Solenoid 4
CY2523.EX	CY2524.EX	SV2521	SV2522	SV2523	SV2524	SV2529	SV2532
XC0320:10:O.Data.0	XC0320:10:O.Data.1	XC0320:10:O.Data.2	XC0320:10:O.Data.3	XC0320:10:O.Data.4	XC0320:10:O.Data.5	XC0320:10:O.Data.6	XC0320:10:O.Data.7
0	1	2	3	4	5	6	7



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Designer: Sahana					

Project Desc:
Robotic Stacker and Pick & Place System

Page Desc:
Control System:XC0320:Slot 10 Digital Outputs



Mounting Loc:
Main Control Cabinet

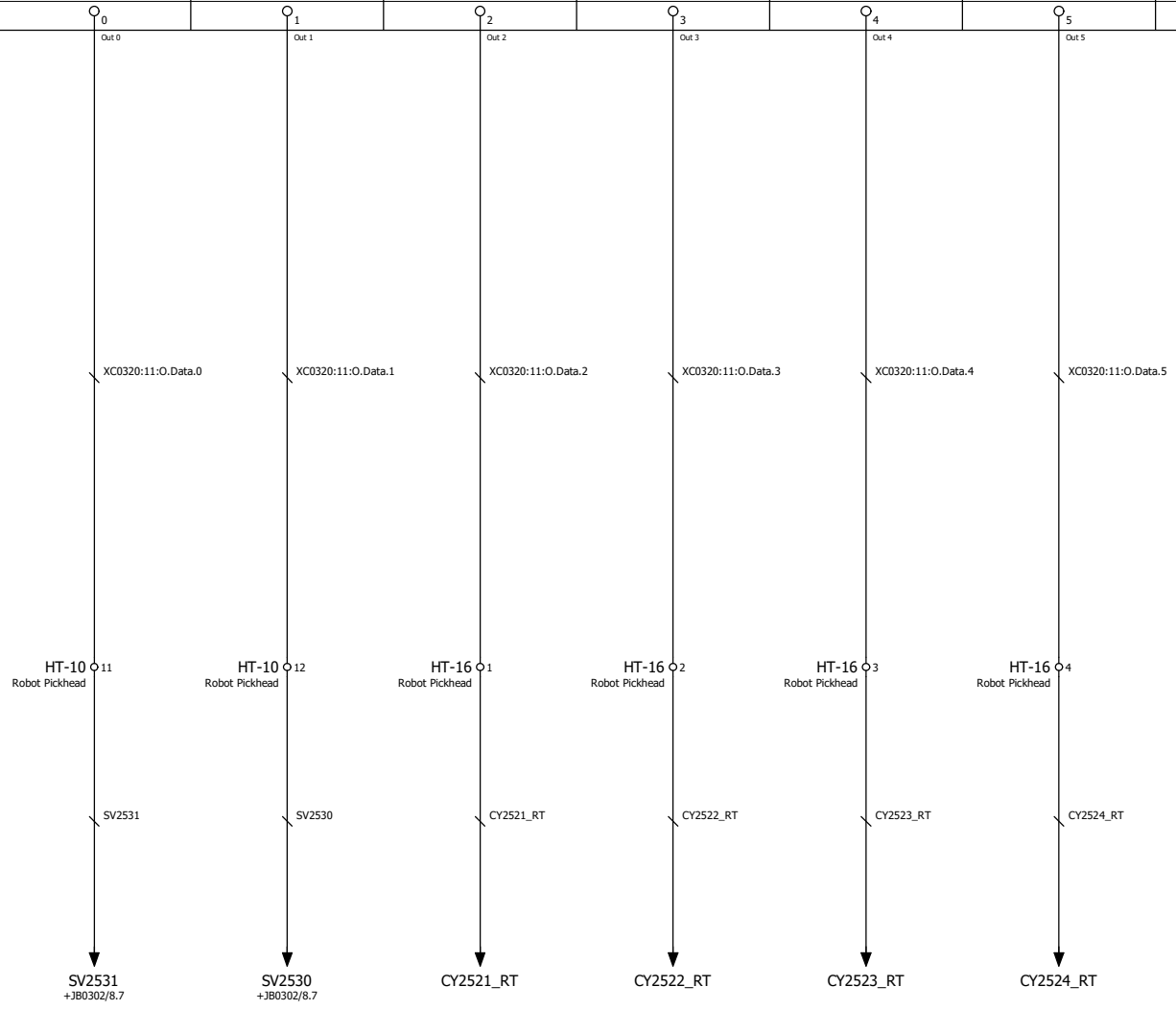
Job No:
16360-0302

Area:
P&P and Stacker System

Loc:
CP0301

XC0320:11
1734-088

Rockwell Automation		Byte 0		8x Digital Out			
Scara Robot Purging Solenoid 3	Scara Robot Purging Solenoid 2	SCARA Robot Cyl 1	SCARA Robot Cyl 2	SCARA Robot Cyl 3	SCARA Robot Cyl 4	Flipping Vacuum Solenoid 7	Flipping Vacuum Solenoid 8
SV2531	SV2530	CY2501_EX	CY2502_RT	CY2503_RT	CY2504_RT	SV3107	SV3108
XC0320:11:O.Data.0	XC0320:11:O.Data.1	XC0320:11:O.Data.2	XC0320:11:O.Data.3	XC0320:11:O.Data.4	XC0320:11:O.Data.5	XC0320:11:O.Data.6	XC0320:11:O.Data.7
0	1	2	3	4	5	6	7



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Designer: Sahana					

Project Desc:
Robotic Stacker and Pick & Place System

Page Desc:
Control System:XC0320:Slot 11 Digital Outputs



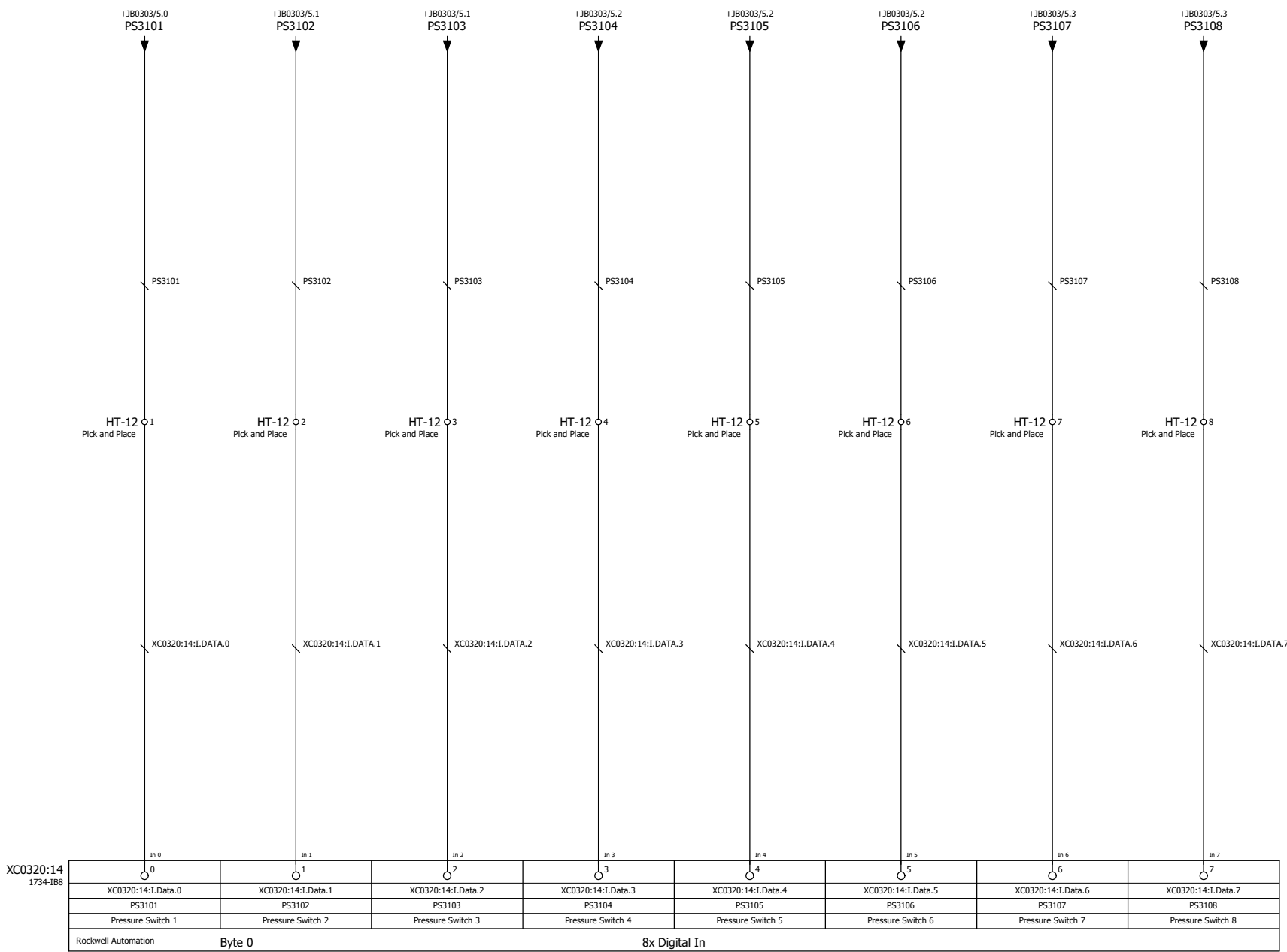
Mounting Loc:
Main Control Cabinet

Job No.: 16360-0302

Area: P&P and Stacker System

Loc: CP0301

Page:	28
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Date Printed: 1/21/2024	Rev:	By:	Date:	Modification:	Page Modified Date: 1/21/2024
Designer: Sahana					

Project Desc:
Robotic Stacker and Pick & Place System

Page Desc:
Control System: XC0320:Slot 14 Digital Inputs



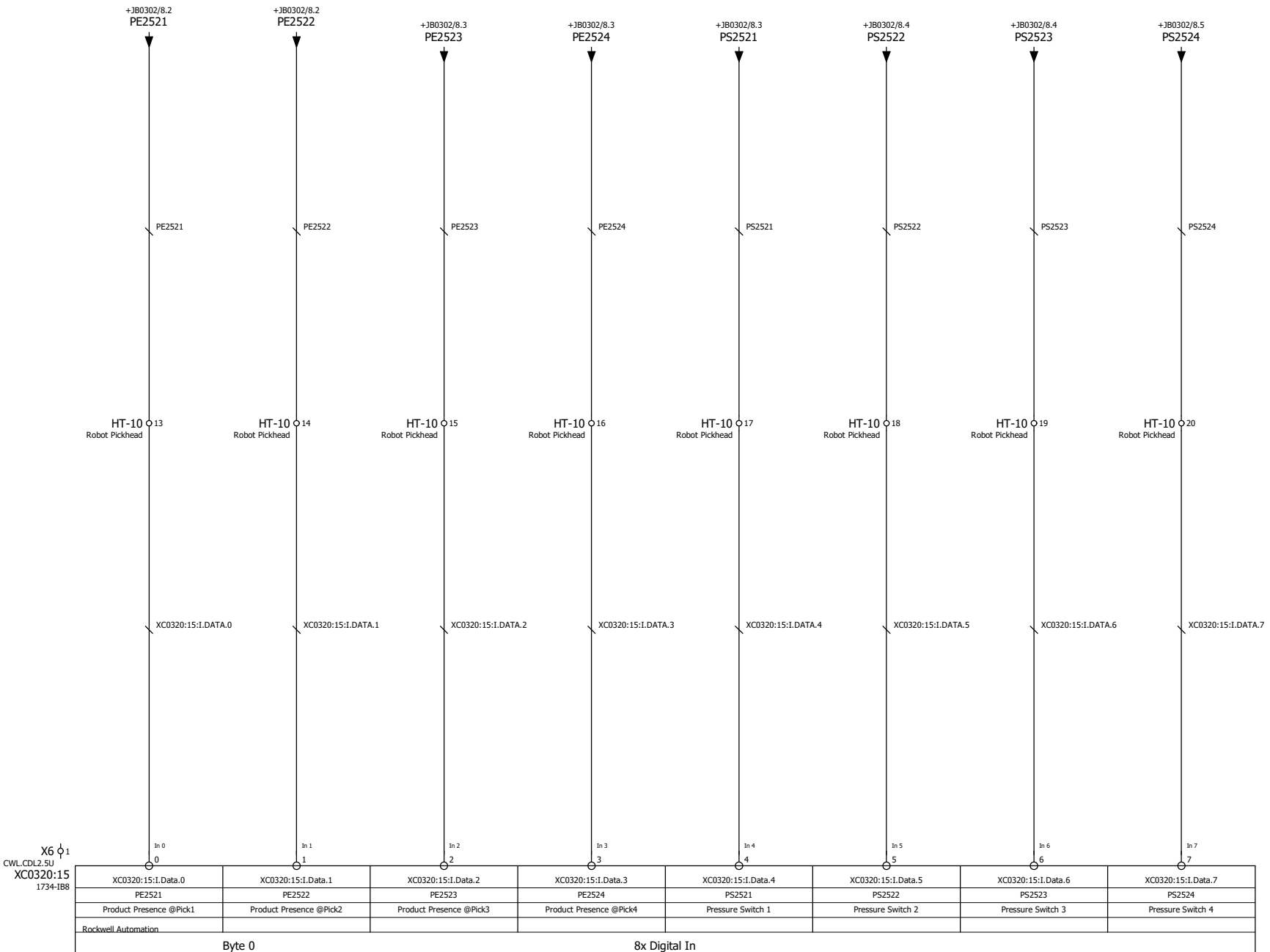
Mounting Loc:
Main Control Cabinet

Job No.: 16360-0302

Area: P&P and Stacker System

Loc: CP0301

Page:	29
Next Page:	30

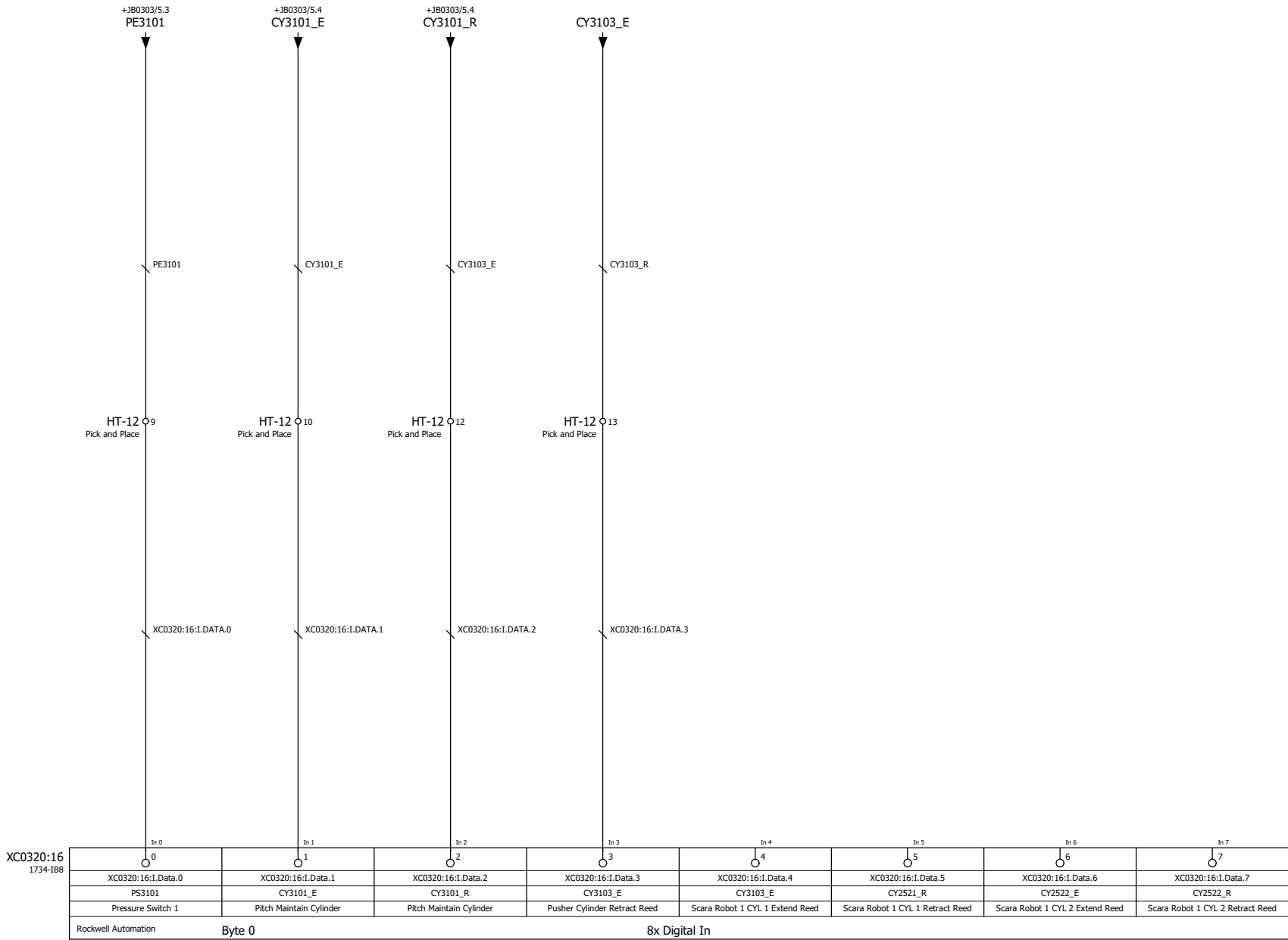


X6 ϕ 1
CWL.CDL2.5U
XC0320:15
1734-1B8

XC0320:15:I.Data.0	XC0320:15:I.Data.1	XC0320:15:I.Data.2	XC0320:15:I.Data.3	XC0320:15:I.Data.4	XC0320:15:I.Data.5	XC0320:15:I.Data.6	XC0320:15:I.Data.7
PE2521	PE2522	PE2523	PE2524	PS2521	PS2522	PS2523	PS2524
Product Presence @Pick1	Product Presence @Pick2	Product Presence @Pick3	Product Presence @Pick4	Pressure Switch 1	Pressure Switch 2	Pressure Switch 3	Pressure Switch 4
Rockwell Automation							

Byte 0

8x Digital In



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Designer: Sahana					

Project Desc:
Robotic Stacker and Pick & Place System

Page Desc:
Control System: XC0320:Slot 16 Digital Inputs



Mounting Loc:
Main Control Cabinet

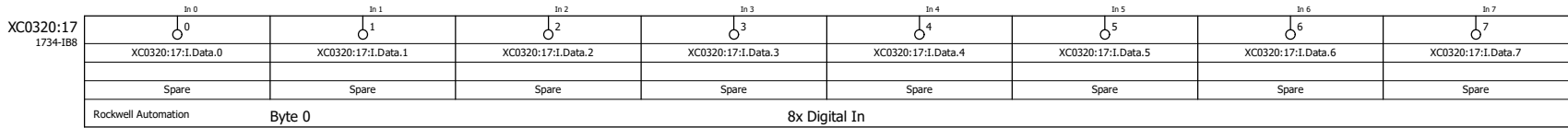
Job No.: 16360-0302

Area: P&P and Stacker System

Loc: CP0301

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0 1 2 3 4 5 6 7 8 9



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Designer: Sahana					

Project Desc:
Robotic Stacker and Pick & Place System

Page Desc:
Control System: XC0320:Slot 17 Digital Inputs



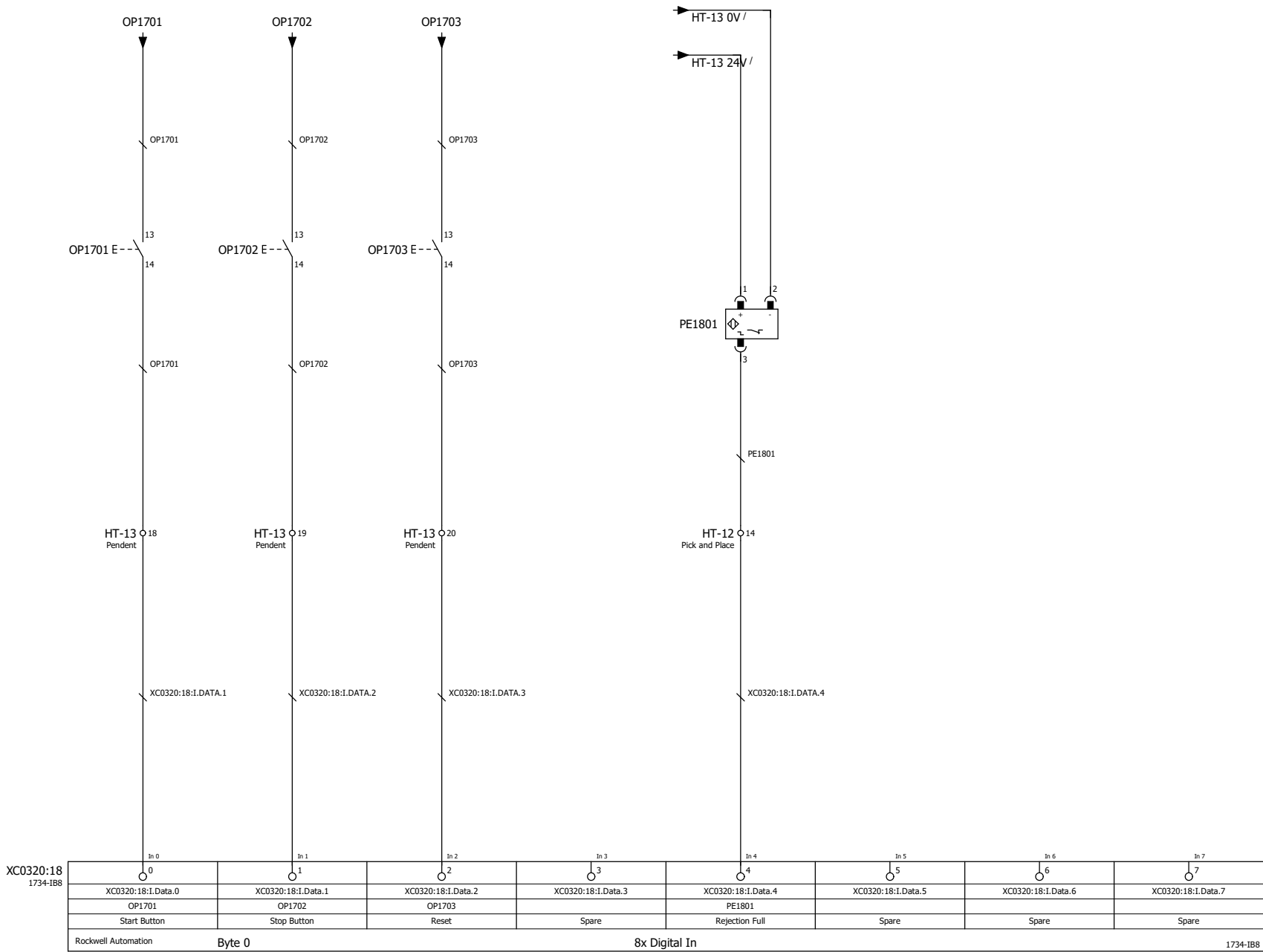
Mounting Loc:
Main Control Cabinet

Job No.: 16360-0302

Area: P&P and Stacker System

Loc: CP0301

Page:	32
Next Page:	33



XC0320:18 1734-1B8	In 0	In 1	In 2	In 3	In 4	In 5	In 6	In 7
	XC0320:18:I.Data.0	XC0320:18:I.Data.1	XC0320:18:I.Data.2	XC0320:18:I.Data.3	XC0320:18:I.Data.4	XC0320:18:I.Data.5	XC0320:18:I.Data.6	XC0320:18:I.Data.7
	OP1701	OP1702	OP1703	Spare	PE1801	Spare	Spare	Spare
	Start Button	Stop Button	Reset		Rejection Full	Spare	Spare	Spare
Rockwell Automation		Byte 0		8x Digital In				1734-1B8

Date Printed: 1/21/2024	Rev:	By:	Date:	Modification:	Page Modified Date: 1/20/2024
Designer: Sahana					

Project Desc:
Robotic Stacker and Pick & Place System

Page Desc:
Control System:XC0320:Slot 18 Digital Inputs



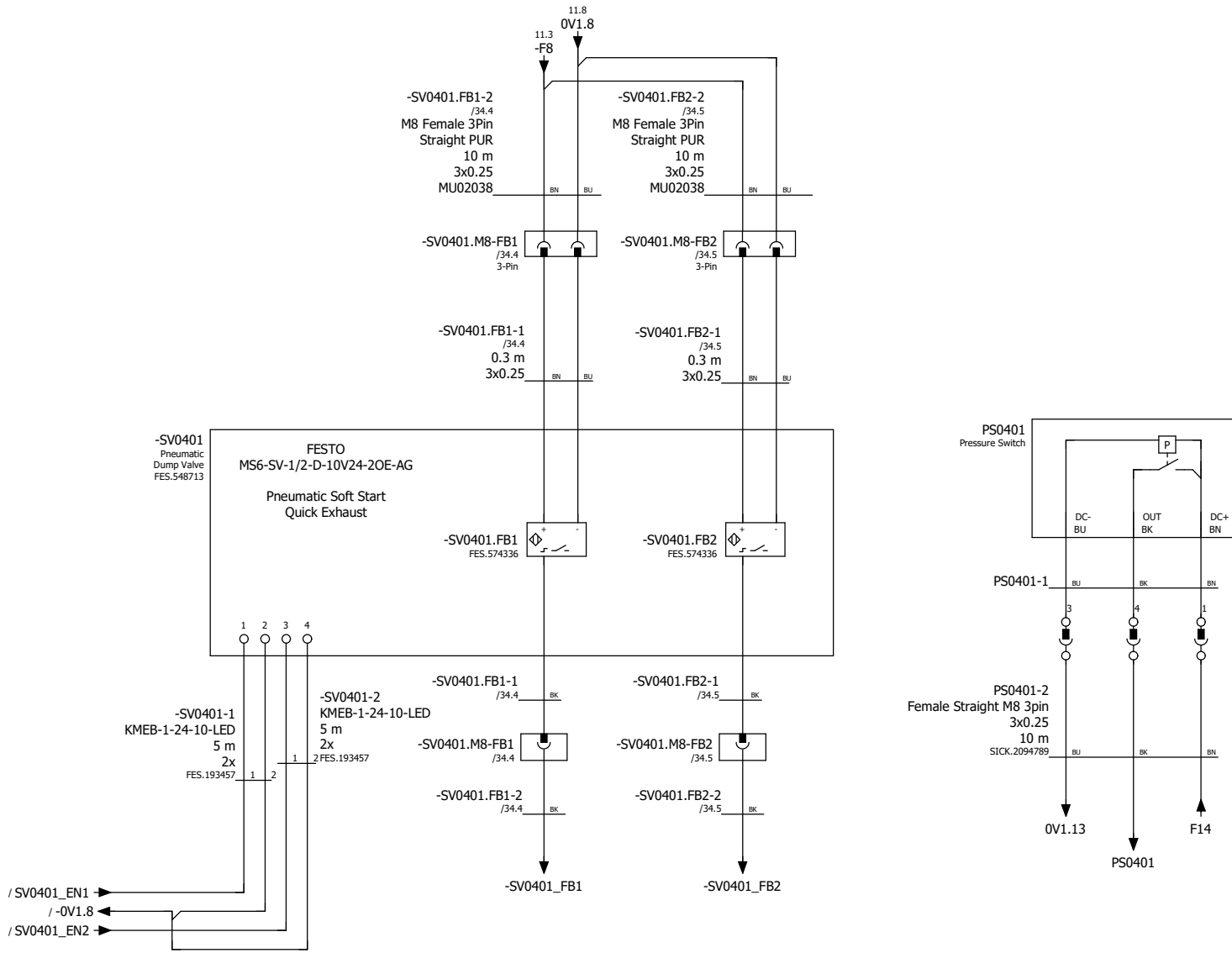
Mounting Loc:
Main Control Cabinet

Job No.: 16360-0302

Area: P&P and Stacker System

Loc: CP0301

Page:	33
Next Page:	34



Date Printed: 1/21/2024	Rev:	By:	Date:	Modification:	Page Modified Date: 1/20/2024
Designer: Sahana					

Project Desc:
Robotic Stacker and Pick & Place System

Page Desc:
Safety Circuit: Pneumatic Exhaust Valve

Mounting Loc:
Main Control Cabinet

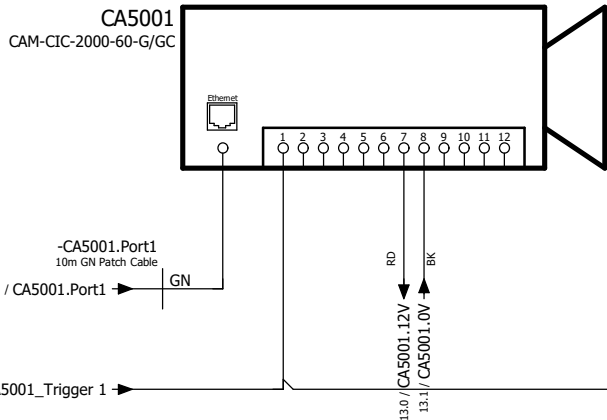
Job No:
16360-0302

Area:
P&P and Stacker System

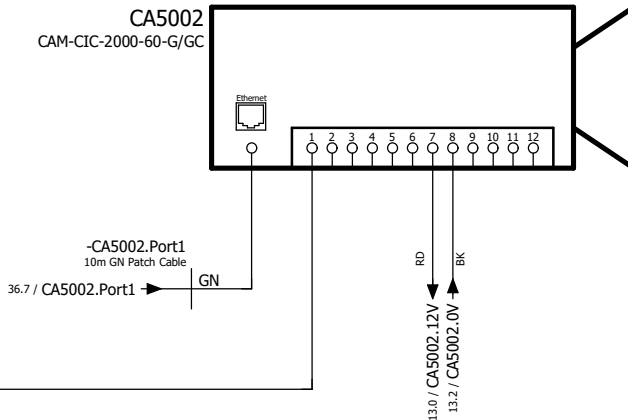
Loc:
CP0301

Page: 34
Next Page: 36

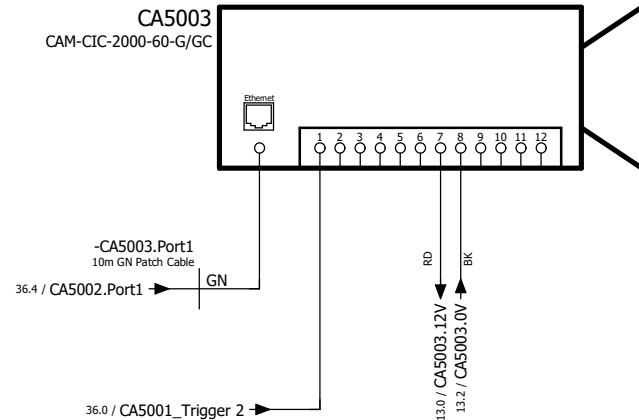
Vision Camera 1



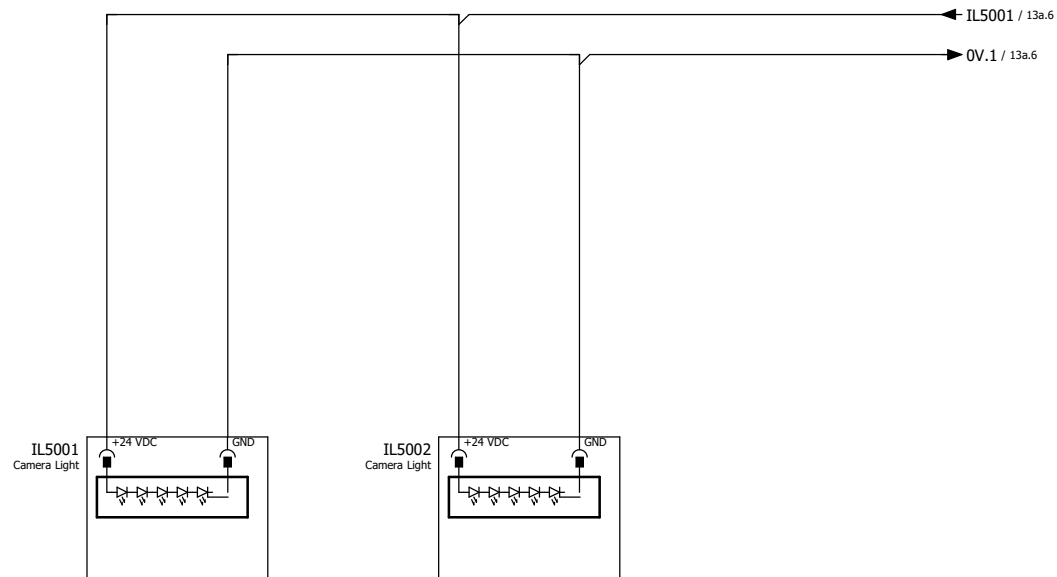
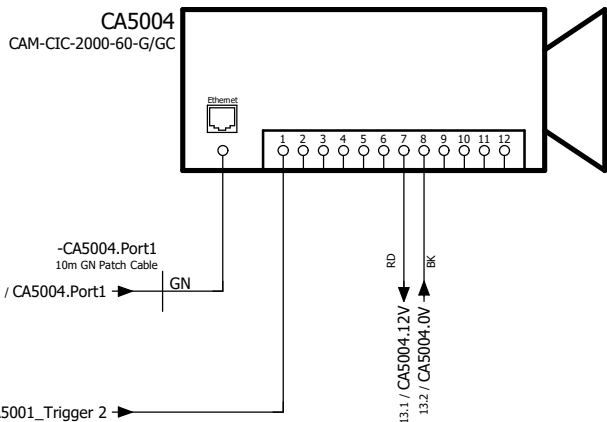
Vision Camera 2



Vision Camera 3



Vision Camera 4



Date Printed: 1/21/2024	Rev:	By:	Date:	Modification:	Page Modified Date: 1/20/2024
Designer: Sahana					

Project Desc:
Robotic Stacker and Pick & Place System

Page Desc:
Control System: Vision System Camera

Mounting Loc:
Main Control Cabinet

Job No.: 16360-0302

Area: P&P and Stacker System

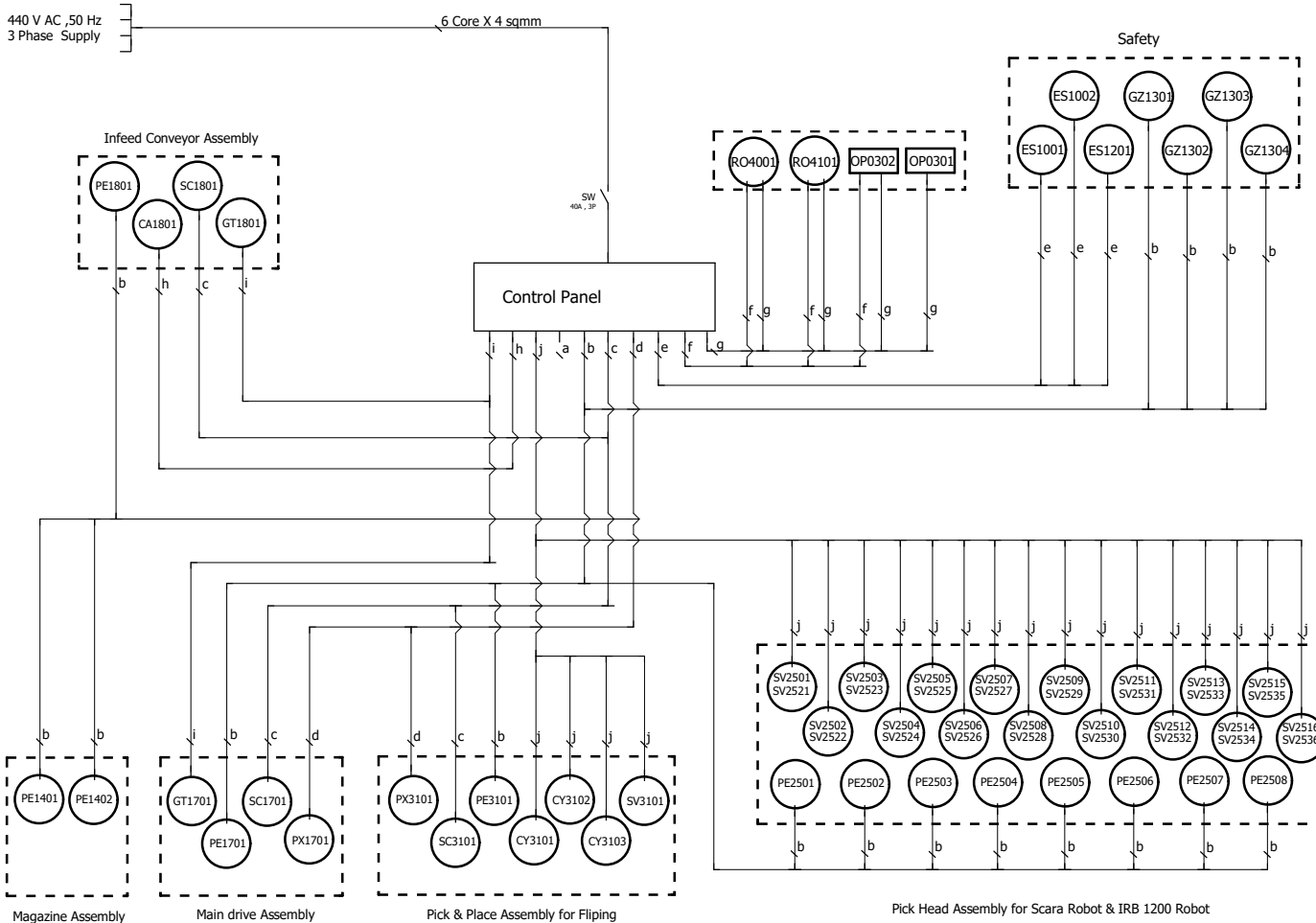
Loc: CP0301

Page:	36
Next Page:	SLD33

16360 SLD (Single Line Diagram)

Objective :-

- SLD shows the rating & capacity of electrical equipment & Protection device.
- SLD is Blue Print for Electrical system Analysis.
- To Ensure a safer & more reliable operatoin of the facility.
- Positions of electrical components & co-relate to BOM.
- Co-relate SLD to GA Drawing & detailed Drawing.



Legend:

(M)	Motor	CY3101	Pitch Maintain Cylinder
(PE)	Photoelectric Sensor	CY3102	Rotary actuator Cylinder
(GZ)	Guard Door Switch	CY3103	Bottom Plate actuate Cylinder
(ES)	Emergency Switch	SV2501 to SV2508	IRB Robot Vaccum Solenoid 1 to IRB Robot Vaccum Solenoid 8
(SC)	Servo Motor	SV2509 to SV2516	IRB Robot Purging Solenoid 1 to IRB Robot Purging Solenoid 8
(PX)	Proximity sensor	SV2521 to SV2528	Scara Robot Vaccum Solenoid1 to Scara Robot Vaccum Solenoid8
(GT)	Encoder	SV2529 to SV2536	Scara Robot Purging Solenoid1 to Scara Robot Purging Solenoid8
SW	Isolation Switch	PE2521	Product Presence @Pick1
R	Robot	PE2522	Product Presence @Pick2
a	4 Core X 2.5 sqmm	PE2523	Product Presence @Pick3
b	M8 4pin connector 10 m	PE2524	Product Presence @Pick4
c	18 Or 14 Gauge Servo Cabel	PE2525	Product Presence @Pick5
d	M12 4pin connector 10m	PE2526	Product Presence @Pick6
e	4 Core X 1.5 sqmm	PE2527	Product Presence @Pick7
f	3 Core X 1.5 sqmm (230V supply)	PE2528	Product Presence @Pick8
g	RJ45 Ethernet Cable	GT1701	Encoder for Main Drive
h	24 V DC Supply	GT1801	Encoder For Infeed Conveyor
i	M12 8 Pin Connector	RO4001	IRB 1200 ABB Robot
j	2 Core X 0.5 sqmm cable	RO4101	Scara Robot
SC1701	Main Drive Servo Motor	OP0301	HMI
SC1801	Infeed Conveyor Servo Motor	OP0302	IPC FOR ROBOT
SC3101	Pick and Place Servo Motor	ES1001	Control Panel E-Stop
PE1701	Main Drive Latch Eye	ES1002	HMI E-Stop
PE1801	Rejection Bin Eye	ES1201	Chassis E-Stop
PE1401	Low Level Detect Reflector	ES1202	Chassis E-Stop
PE3101	Customer Conv. Presence	GZ1301	Guard Door - 1
PX1701	Main Drive Hoimg Proxy	GZ1302	Guard Door - 2
PE3101	Servo Homing Proxy	GZ1303	Guard Door - 3
CY1401	Product Pusher Cyl 1	GZ1304	Guard Door - 4
CY1402	Product Pusher Cyl 1	GZ1304	Guard Door - 4
CY1403	Product Pusher Cyl 3	CA2301	Camera
CY1404	Product Pusher Cyl 4		
CY1405	Product Pusher Cyl 5		
CY1406	Product Pusher Cyl 6		
CY1407	Product Pusher Cyl 7		
CY1408	Product Pusher Cyl 8		
CY2501	Robot Pick Cyl 1		
CY2502	Robot Pick Cyl 2		
CY2503	Robot Pick Cyl 3		
CY2504	Robot Pick Cyl 4		

Date Printed: 1/21/2024	Rev:	By:	Date:	Modification:	Page Modified Date: 9/4/2023
Designer: Sahana					

Project Desc: **Robotic Stacker and Pick & Place System**

Page Desc:

Mounting Loc: Main Control Cabinet
Job No: 16360-0302
Area: P&P and Stacker System
Loc: CP0301

Page: SLD33
Next Page: +RO4111/1



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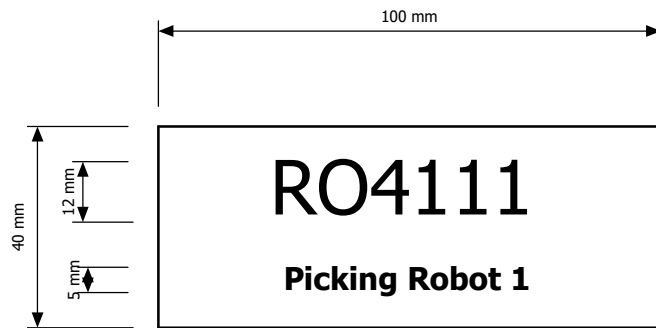
Kuruli, Tal-Khed
410501 Pune
Phone. +91 20 30781208

Company / customer	Johnson & Johnson
Job number	16360-0302
Project description	Robotic Stacker and Pick & Place System

Area	P&P and Stacker System
Mounting Loaction	RO4111
Mounting Description	Picking Robot 1

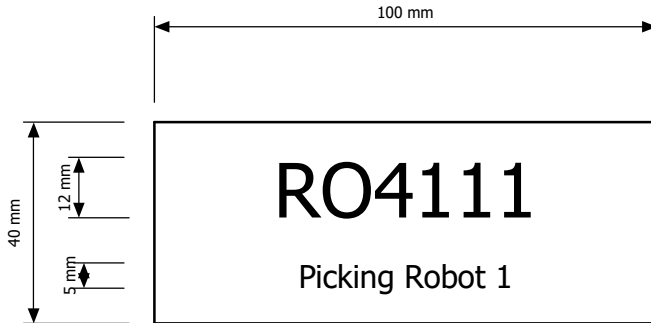
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Designer: Sahana						Page Desc: Panel Label	Job No: 16360-0302	Area: P&P and Stacker System
							Loc: RO4111	Next Page: 2



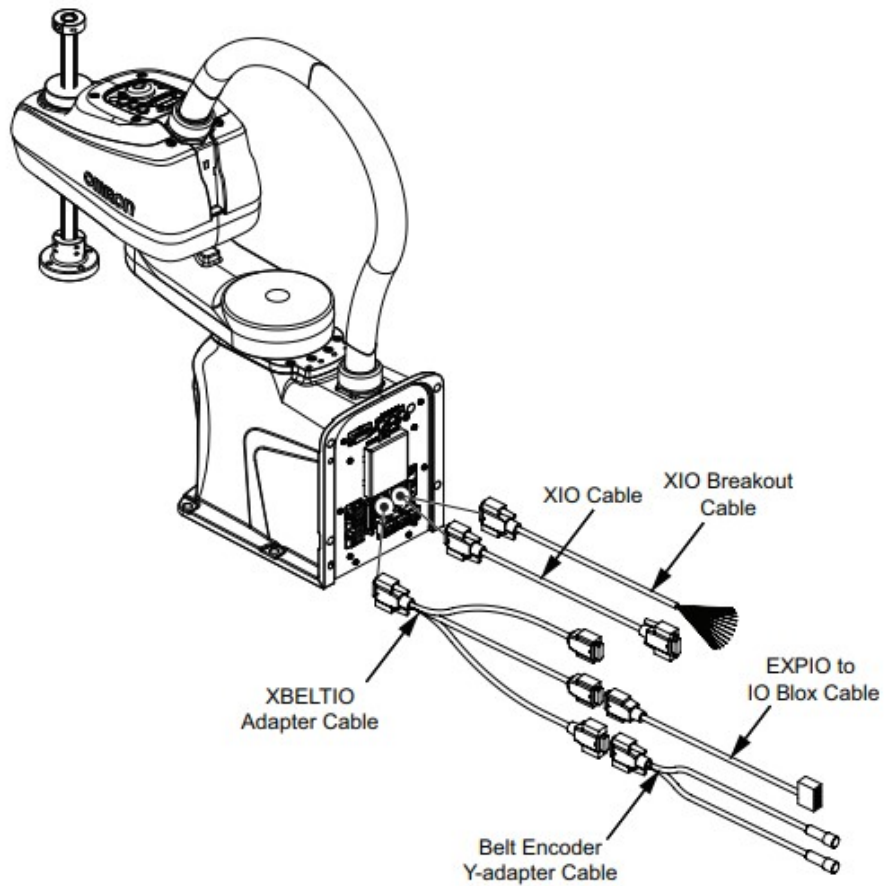
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Designer: Sahana					

Project Desc: Robotic Stacker and Pick & Place System	
Page Desc: Panel Label	

Mounting Loc: Picking Robot 1	Area: P&P and Stacker System	Loc: RO4111
Job No: 16360-0302		

Page: 2	Next Page: 002
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XBELTIO Cable

— adds a belt encoder, EXPIO, (which supports either IO BLOX or an Intelligent Force sensor), and an RS-232 interface. Requires optional eAIB XBELT IO Adapter cable. The belt encoder can be split for two belts with a Y-adapter

Date Printed: 1/21/2024	Rev:	By:	Date:	Modification:	Page Modified Date: 1/3/2024
Designer: Sahana					

Project Desc: Robotic Stacker and Pick & Place System
Page Desc: Control System: RS4-2065102 Controller Overview



Mounting Loc: Picking Robot 1
Job No.: 16360-0302
Area: P&P and Stacker System
Loc: RO4111

Page: 002
Next Page: 003

XC4111



24V±: 1

0V±: 1

48 VDC: 2

0V: 3



+CP0301/12.1 / +CP0301-RO4111.24 V+



+CP0301/12.1 / +CP0301-RO4111.0V



+CP0301/13.4 / +CP0301-RO4111.48 V+



+CP0301/13.5 / +CP0301-RO4111.0V1

Date Printed: 1/21/2024	Rev:	By:	Date:	Modification:	Page Modified Date: 1/20/2024
Designer: Sahana					

Project Desc:
Robotic Stacker and Pick & Place System

Page Desc:
Control System: RS4-2065102 Controller Power



Mounting Loc:
Picking Robot 1

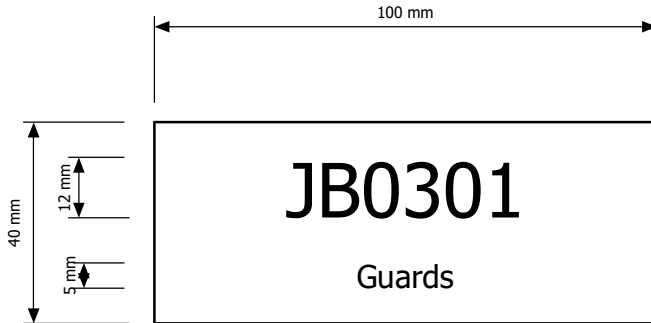
Job No.: 16360-0302

Area: P&P and Stacker System

Loc: RO4111


Page: 003

Next Page: +JB0301/2



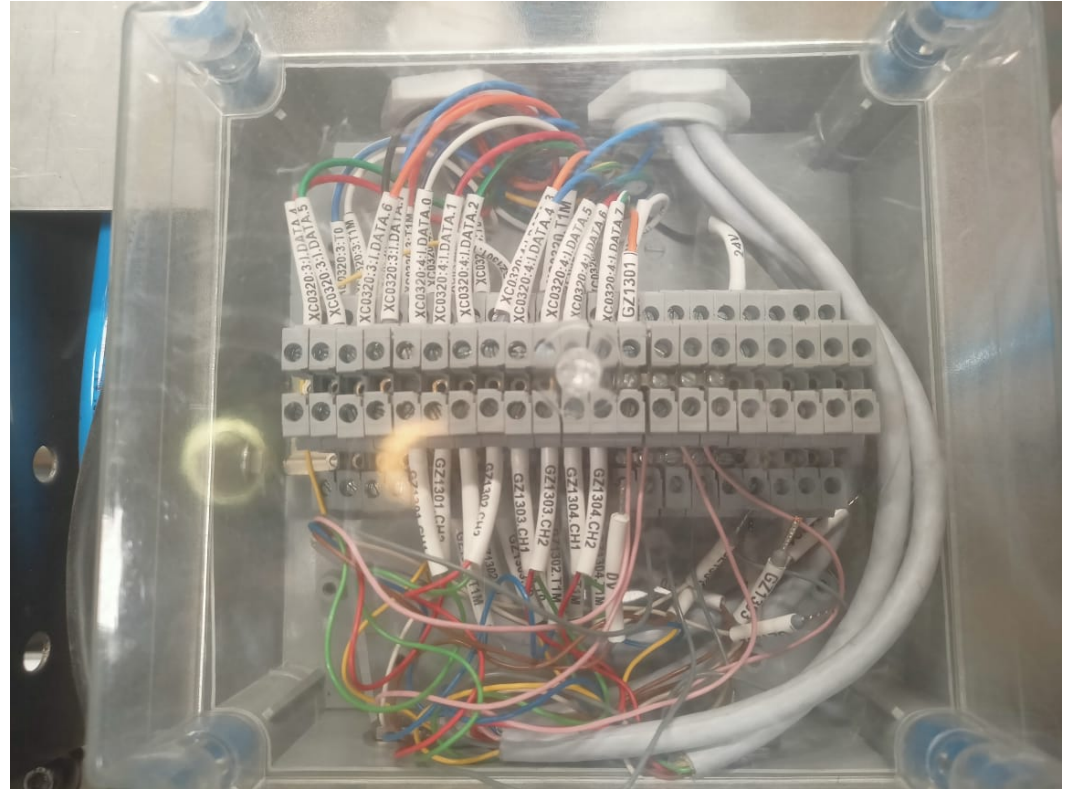
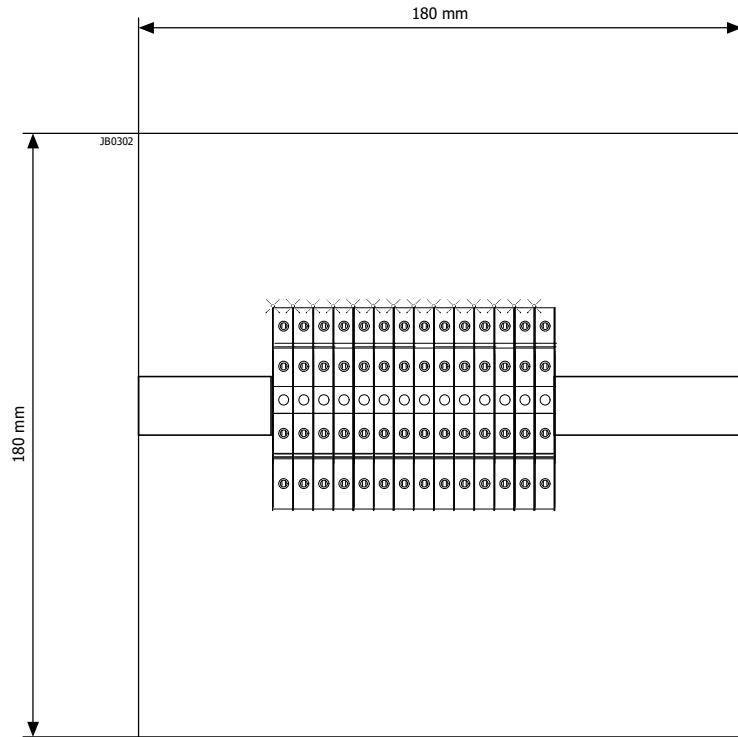
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Designer: Sahana					

Project Desc: Robotic Stacker and Pick & Place System	
Page Desc: Panel Label	

Mounting Loc: Guards
Job No: 16360-0302
Area: P&P and Stacker System
Loc: JB0301

Page: 2
Next Page: 3



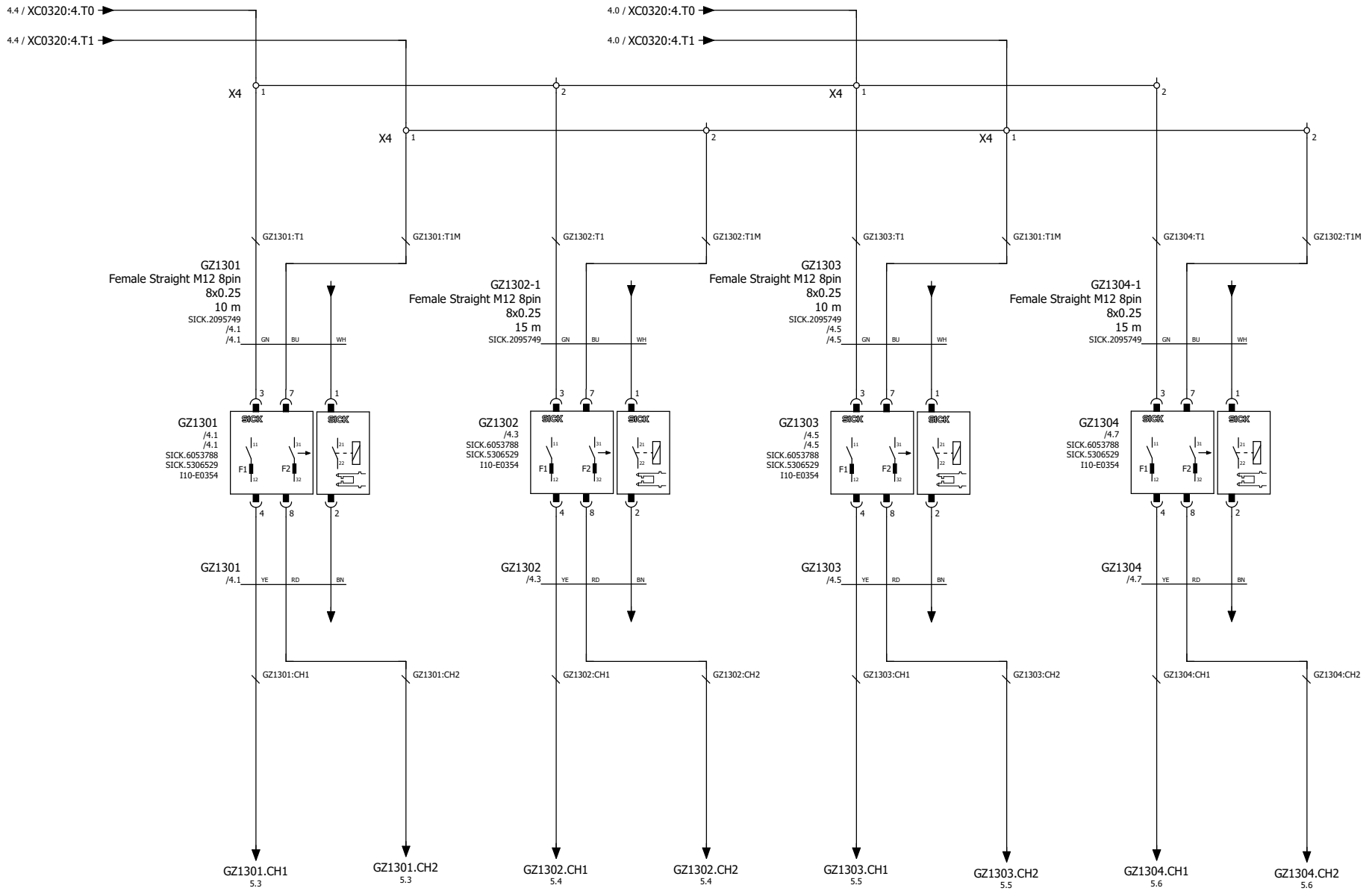
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Designer: Sahana					

Project Desc: Robotic Stacker and Pick & Place System
Page Desc: Control System: JB Layout

Mounting Loc: Guards
Job No: 16360-0302
Open: P&P and Stacker System
Loc: JB0301

Page: 3
Next Page: 4



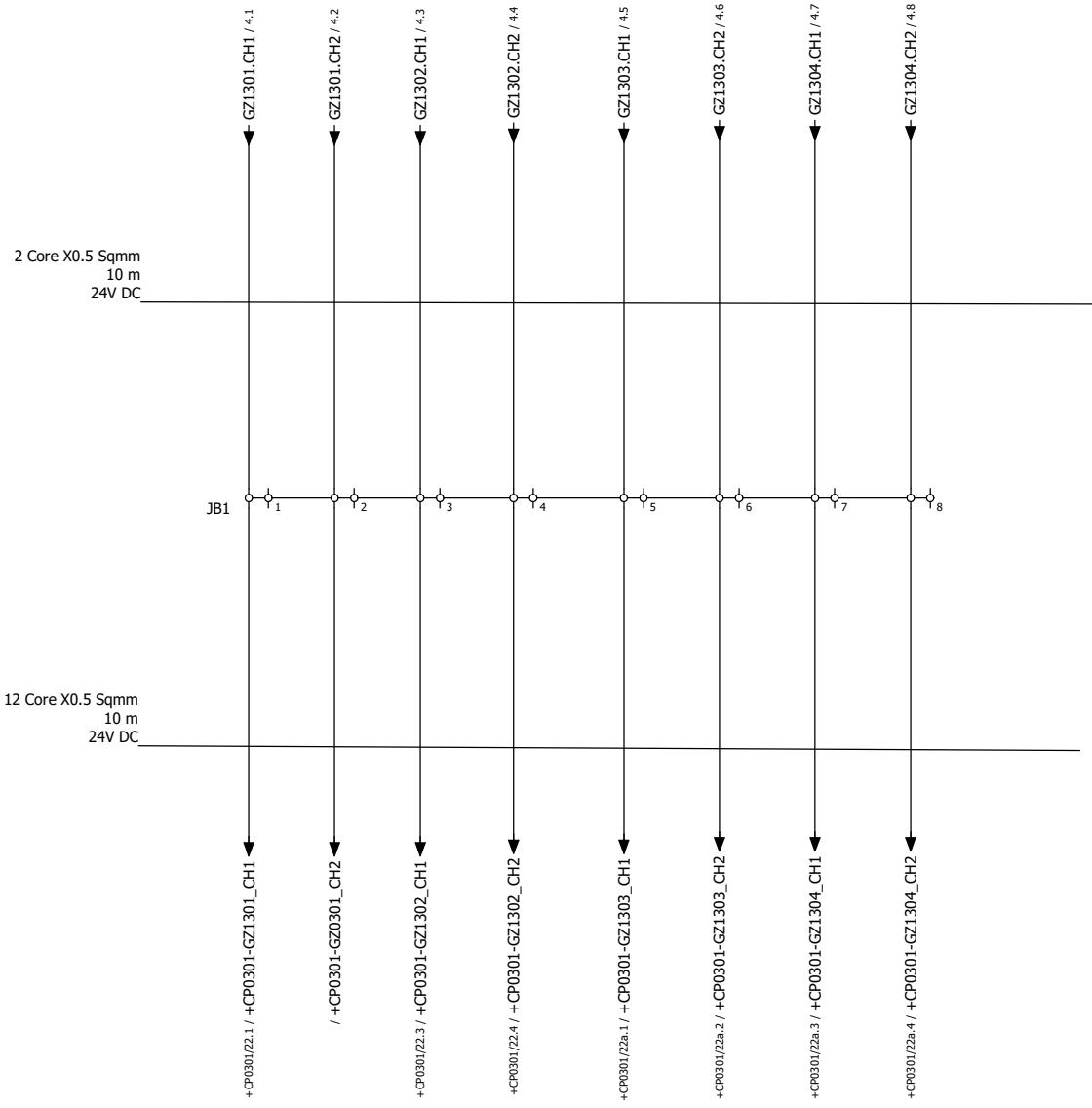
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Project Desc: **Robotic Stacker and Pick & Place System**
 Page Desc: Control System: SOLENOID Connection

Mounting Loc: **Guards**
 Job No: 16360-0302
 P&P and Stacker System
 Loc: JB0301

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 Next Page: 5



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Project Desc: **Robotic Stacker and Pick & Place System**

Page Desc: Control System: JB Connection

Mounting Loc: **Guards**

Job No: **16360-0302** Open: **P&P and Stacker System** Loc: **JB0301**

Page: **5**

Next Page: **SCARA Asmby +JB0301/3**



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Company / customer	Johnson & Johnson
Job number	16360-0302
Project description	Robotic Stacker and Pick & Place System

Area	P&P and Stacker System
Mounting Location	JB0301
Mounting Description	Guards

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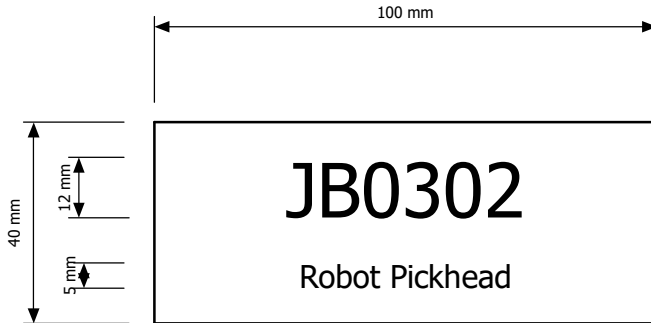
Kuruli, Tal-Khed
410501 Pune
Phone. +91 20 30781208

Company / customer	Johnson & Johnson
Job number	16360-0302
Project description	Robotic Stacker and Pick & Place System

Area	P&P and Stacker System
Mounting Loaction	JB0302
Mounting Description	Robot Pickhead

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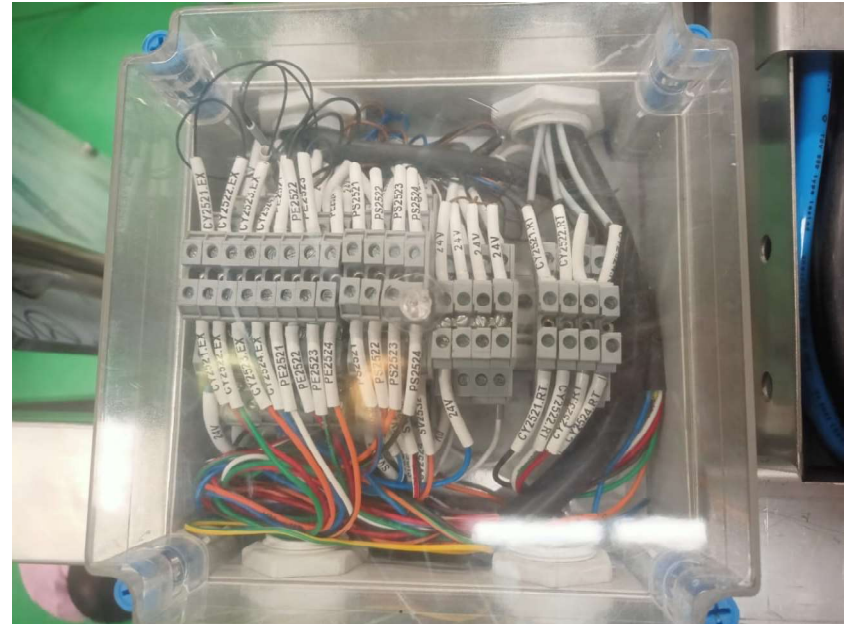
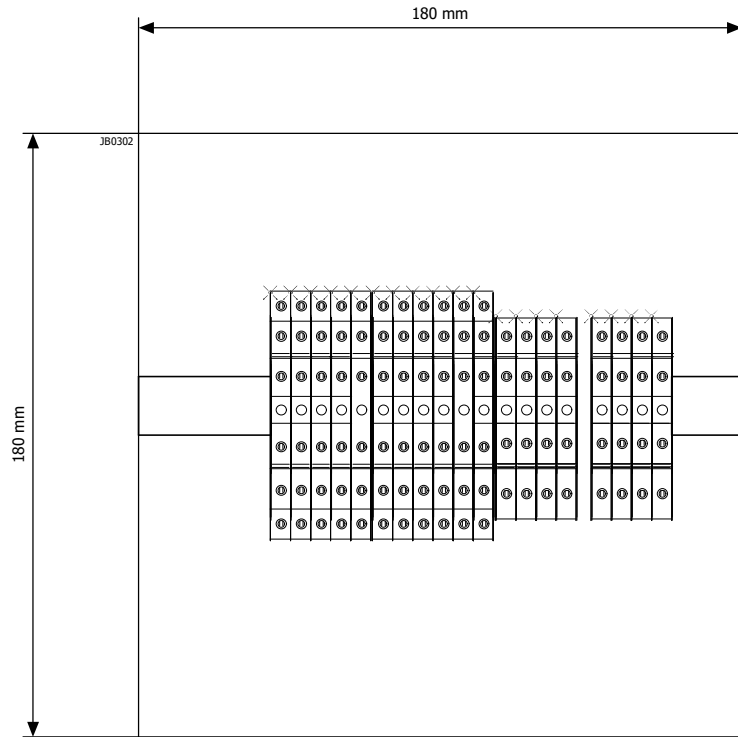
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Project Desc: Robotic Stacker and Pick & Place System
Page Desc: Panel Label

Mounting Loc: Robot Pickhead
Job No: 16360-0302
Area: P&P and Stacker System
Loc: JB0302

Page: 2
Next Page: 3



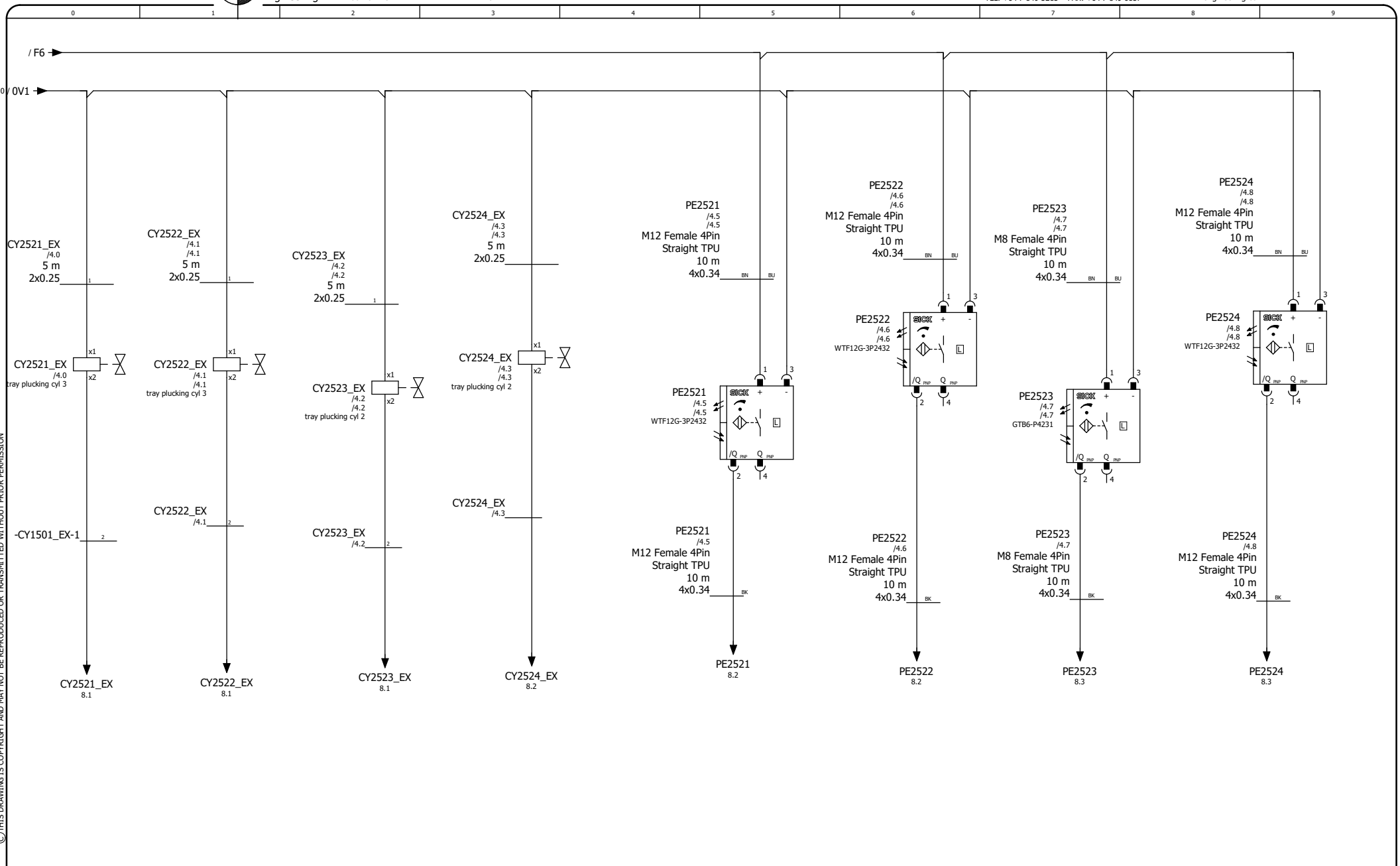
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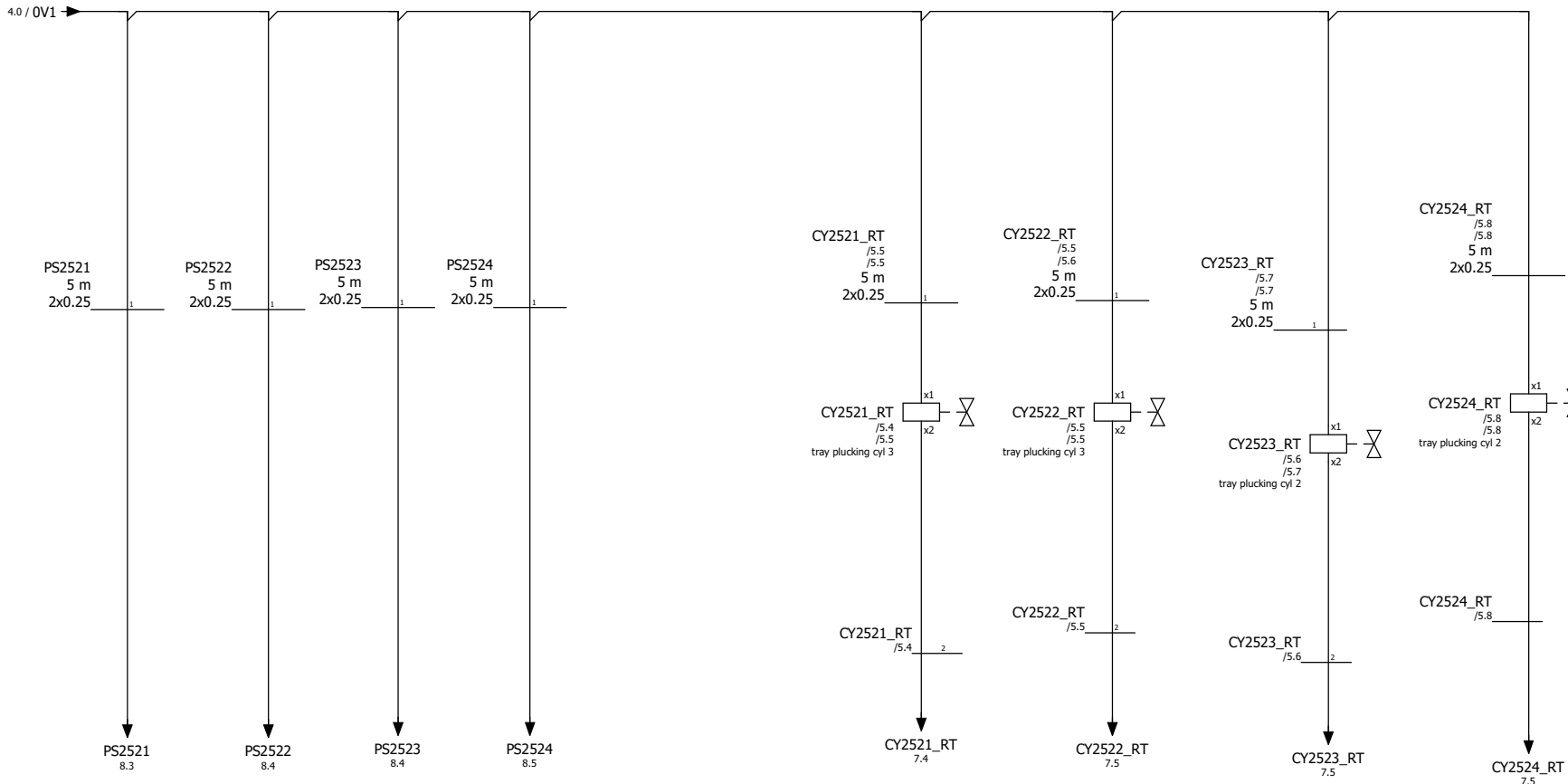
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Page Desc: Control System: JB Layout

Mounting Loc: Robot Pickhead		
Job No: 16360-0302	Page: P&P and Stacker System	Loc: JB0302

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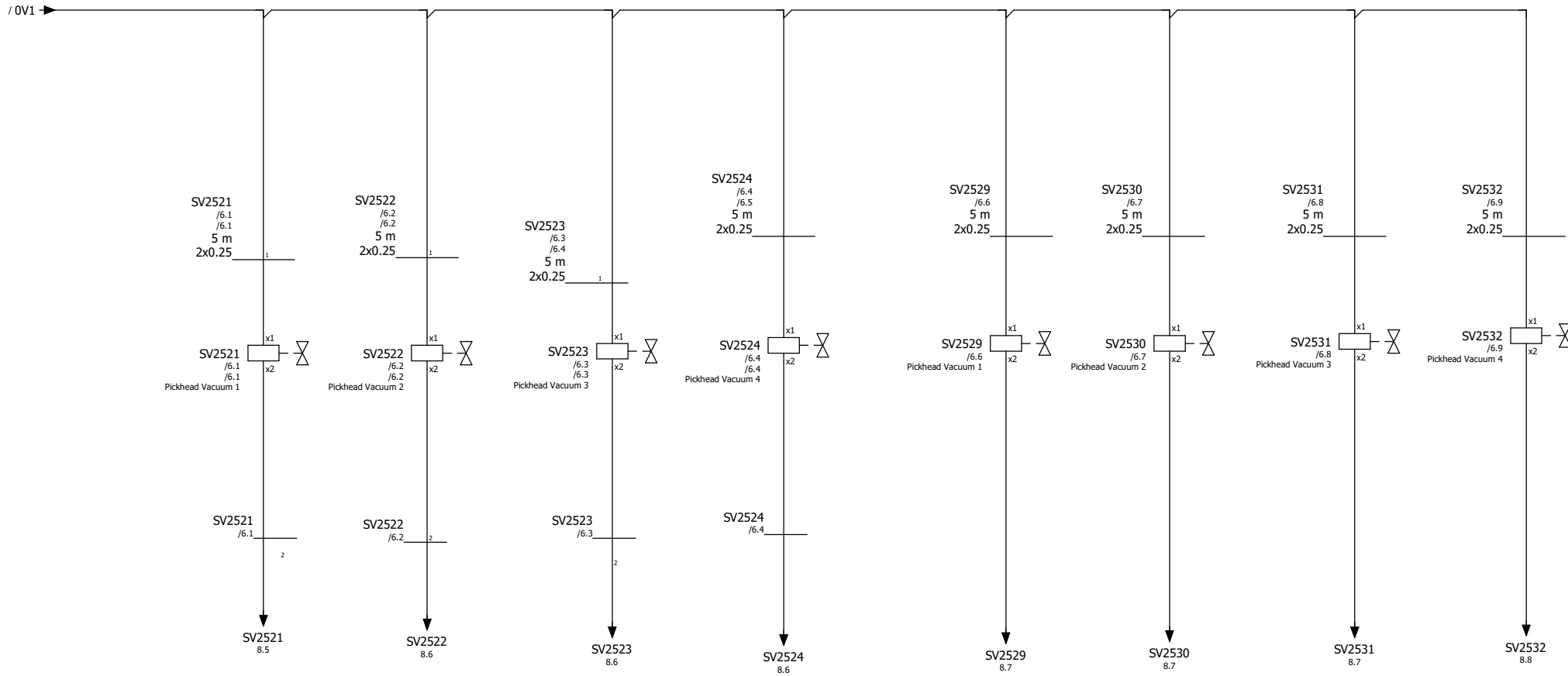
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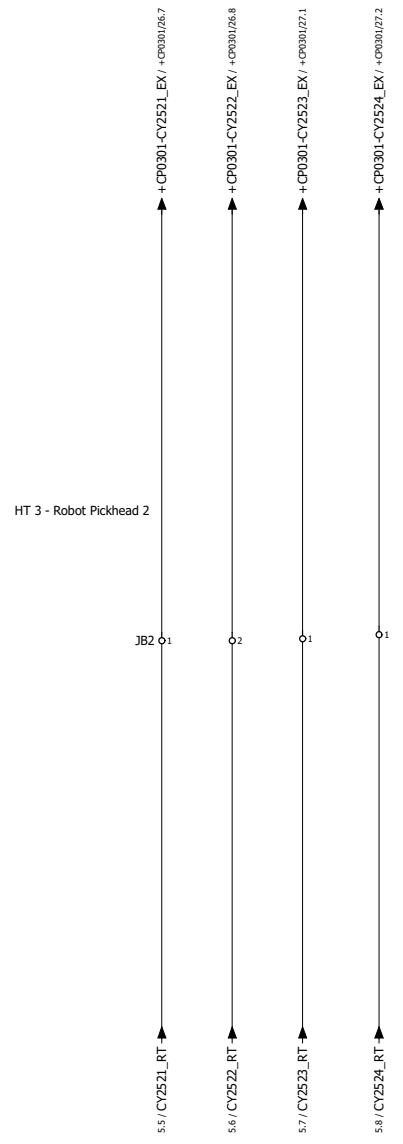
Project Desc: Robotic Stacker and Pick & Place System
Page Desc: Control System: Sensors Connection

Mounting Loc: Robot Pickhead
Job No: 16360-0302
Loc: P&P and Stacker System JB0302

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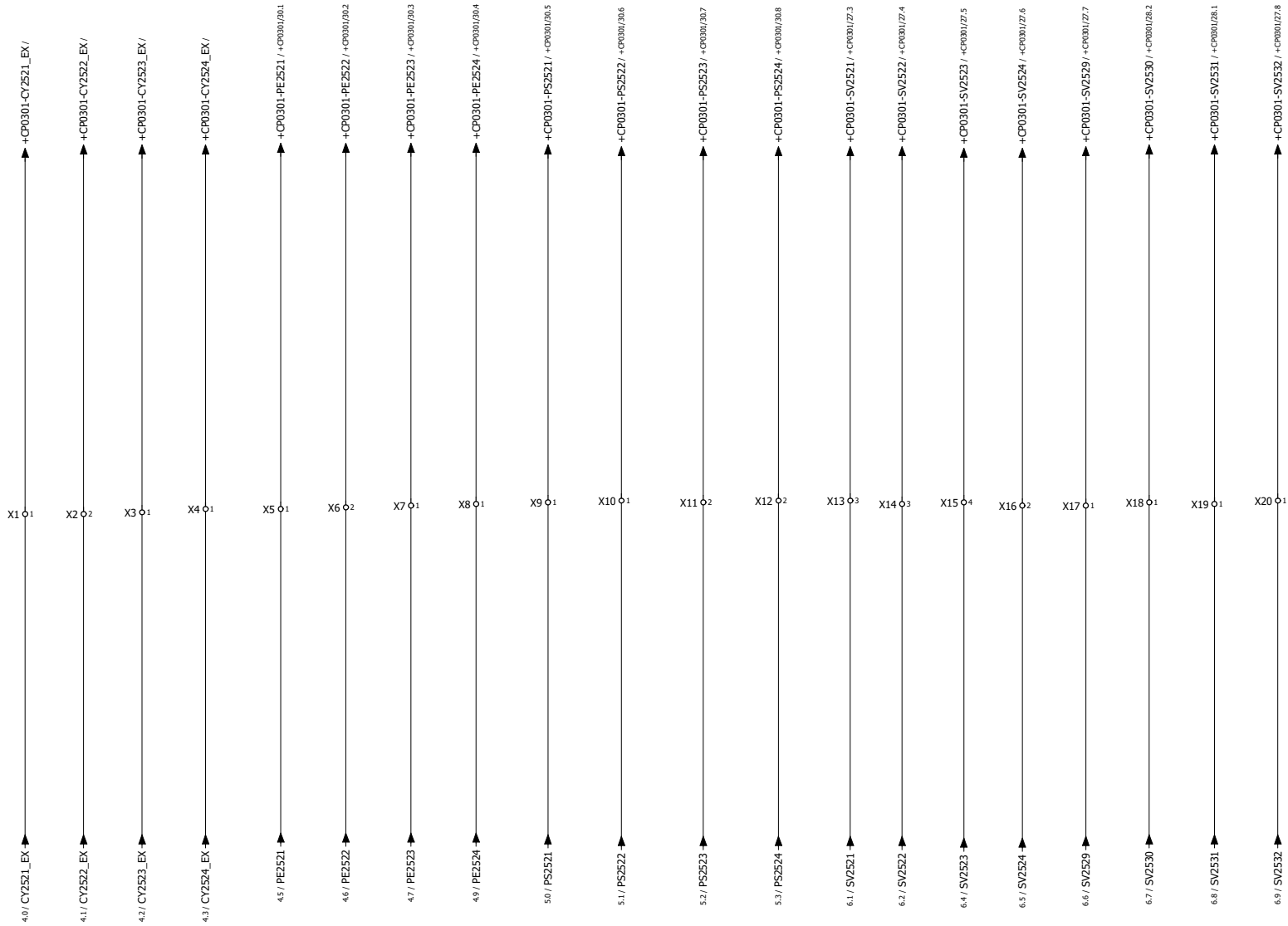
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Project Desc: Robotic Stacker and Pick & Place System
Page Desc: Control System: JB Connection

Mounting Loc: Robot Pickhead		
Job No: 16360-0302	System: P&P and Stacker System	Loc: JB0302

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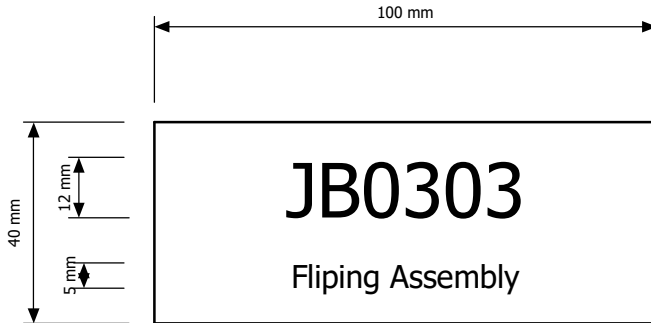
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 410501 Pune
 Phone. +91 20 30781208

Company / customer Johnson & Johnson
 Job number 16360-0302
 Project description Robotic Stacker and Pick & Place System

Area P&P and Stacker System
 Mounting Loaction JB0303
 Mounting Description Flipping Assembly

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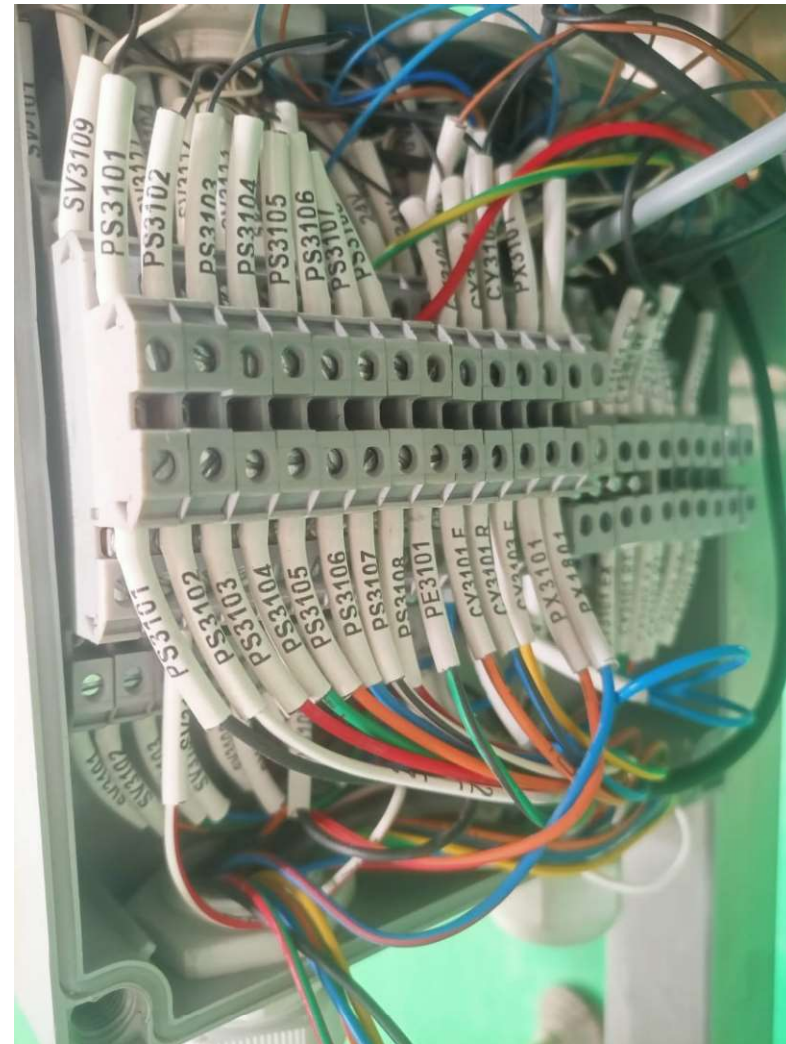
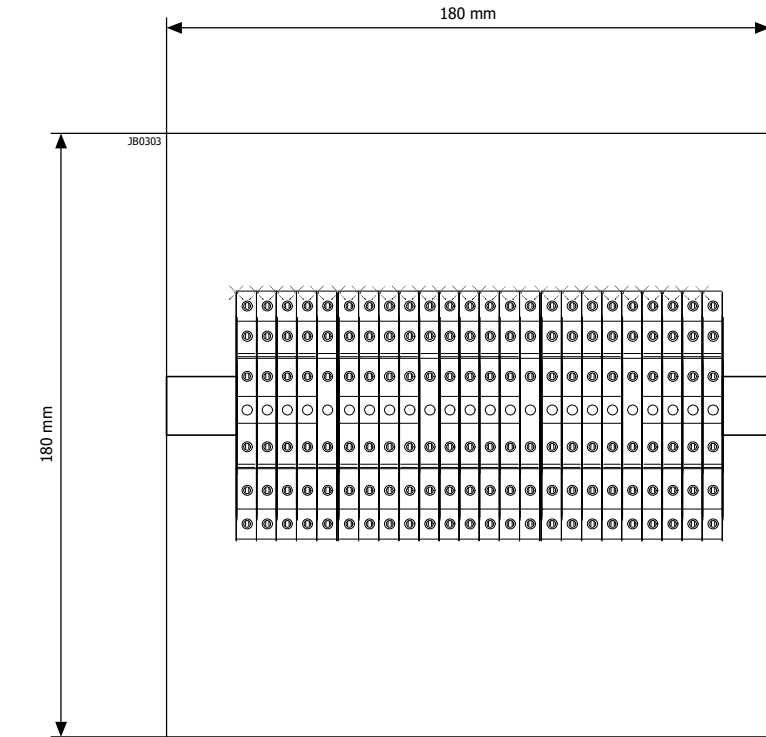
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Designer: Sahana					

Project Desc: Robotic Stacker and Pick & Place System
Page Desc: Panel Label

Mounting Loc: Fliping Assembly		
Job No: 16360-0302	Area: P&P and Stacker System	Loc: JB0303

Page: 2
Next Page: 3



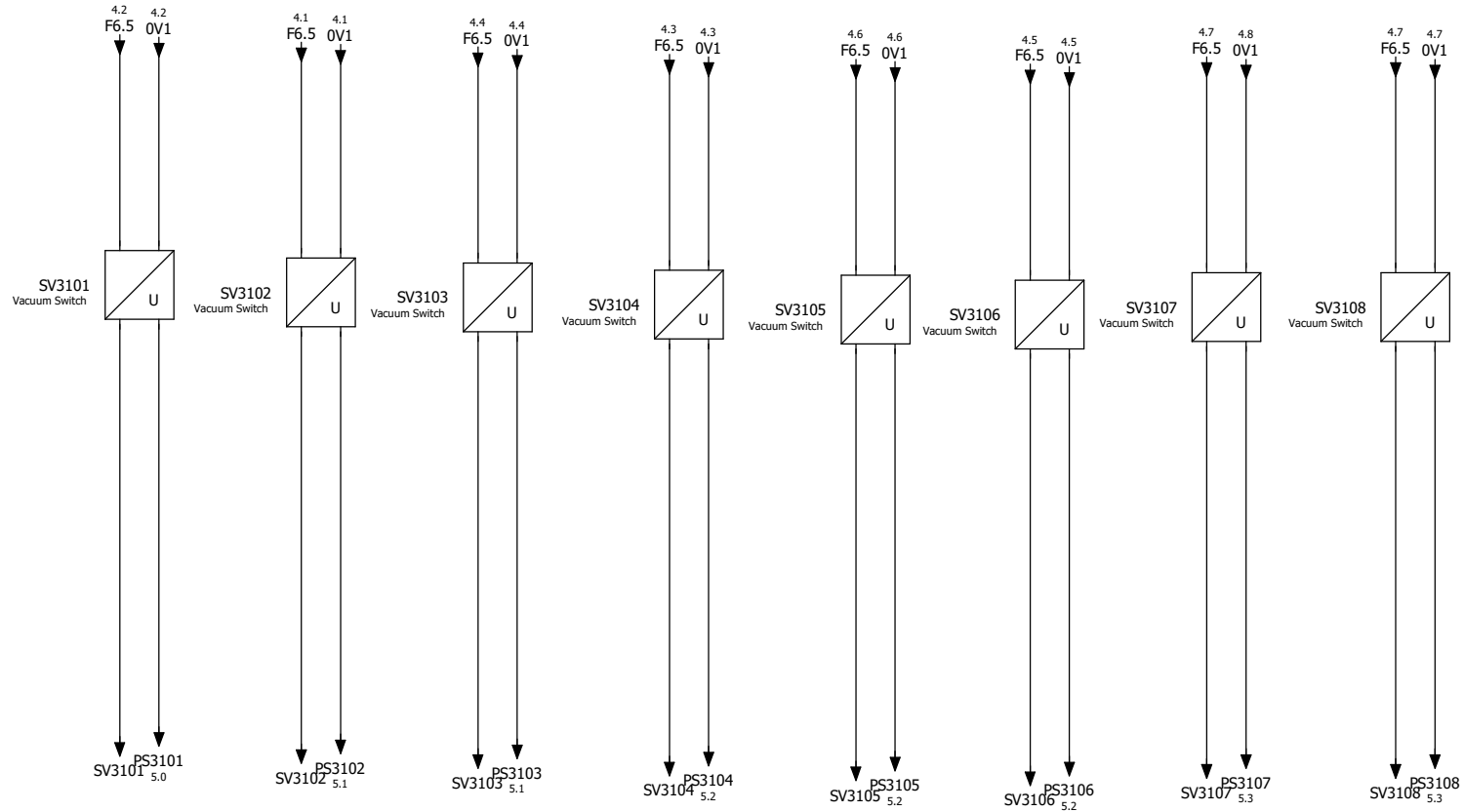
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Designer: Sahana					

Project Desc: Robotic Stacker and Pick & Place System
Page Desc: Control System: JB Layout

Mounting Loc: Flipping Assembly		
Job No: 16360-0302	Page: P&P and Stacker System	Loc: JB0303

Page: 3
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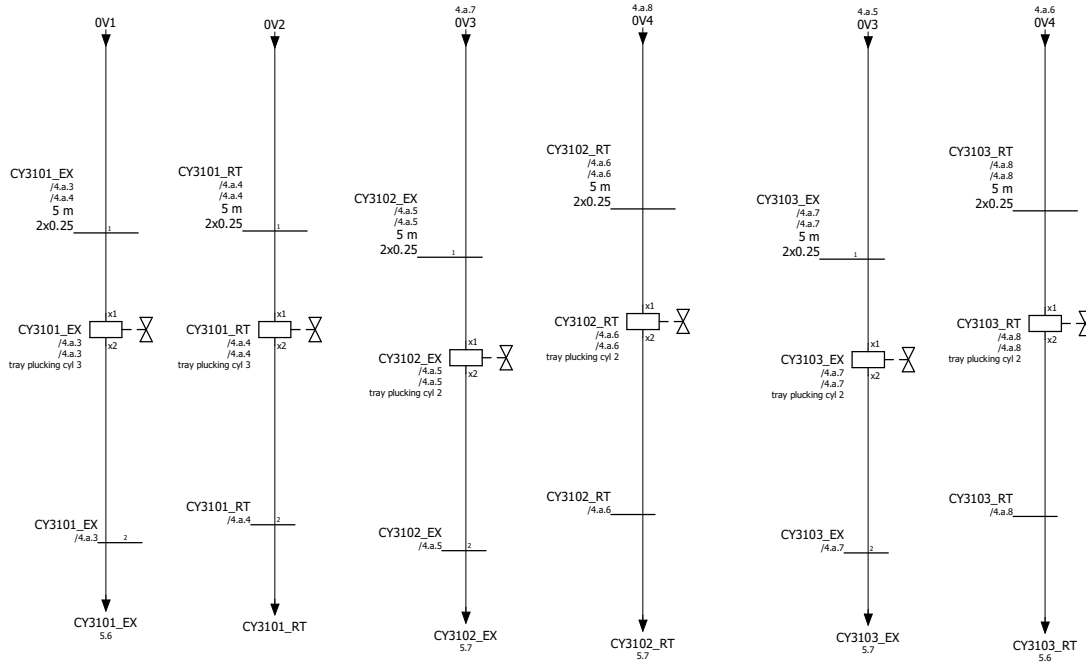
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Designer: Sahana					

Project Desc: **Robotic Stacker and Pick & Place System**
 Page Desc: Control System: Plucker Cylinders

Mounting Loc: **Flipping Assembly**
 Job No: **16360-0302** / **P&P and Stacker System**
 Loc: **JB0303**

Page: **4**
 Next Page: **4.a**



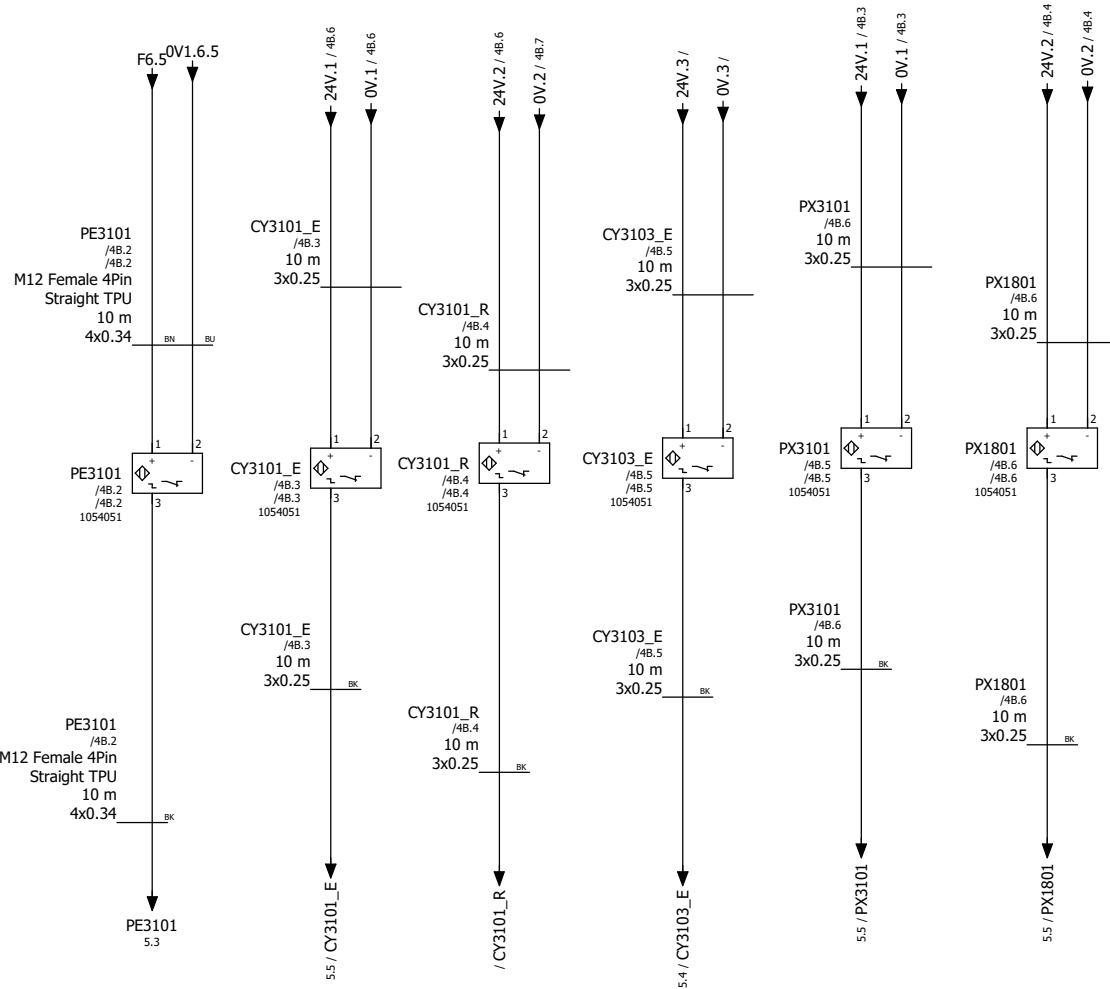
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Designer: Sahana					

Project Desc: Robotic Stacker and Pick & Place System
Page Desc: Control System: Plucker Cylinders & SOLENOIDS

Mounting Loc: Flipping Assembly
Job No: 16360-0302
App: P&P and Stacker System
Loc: JB0303

Page: 4.a
Next Page: 4B



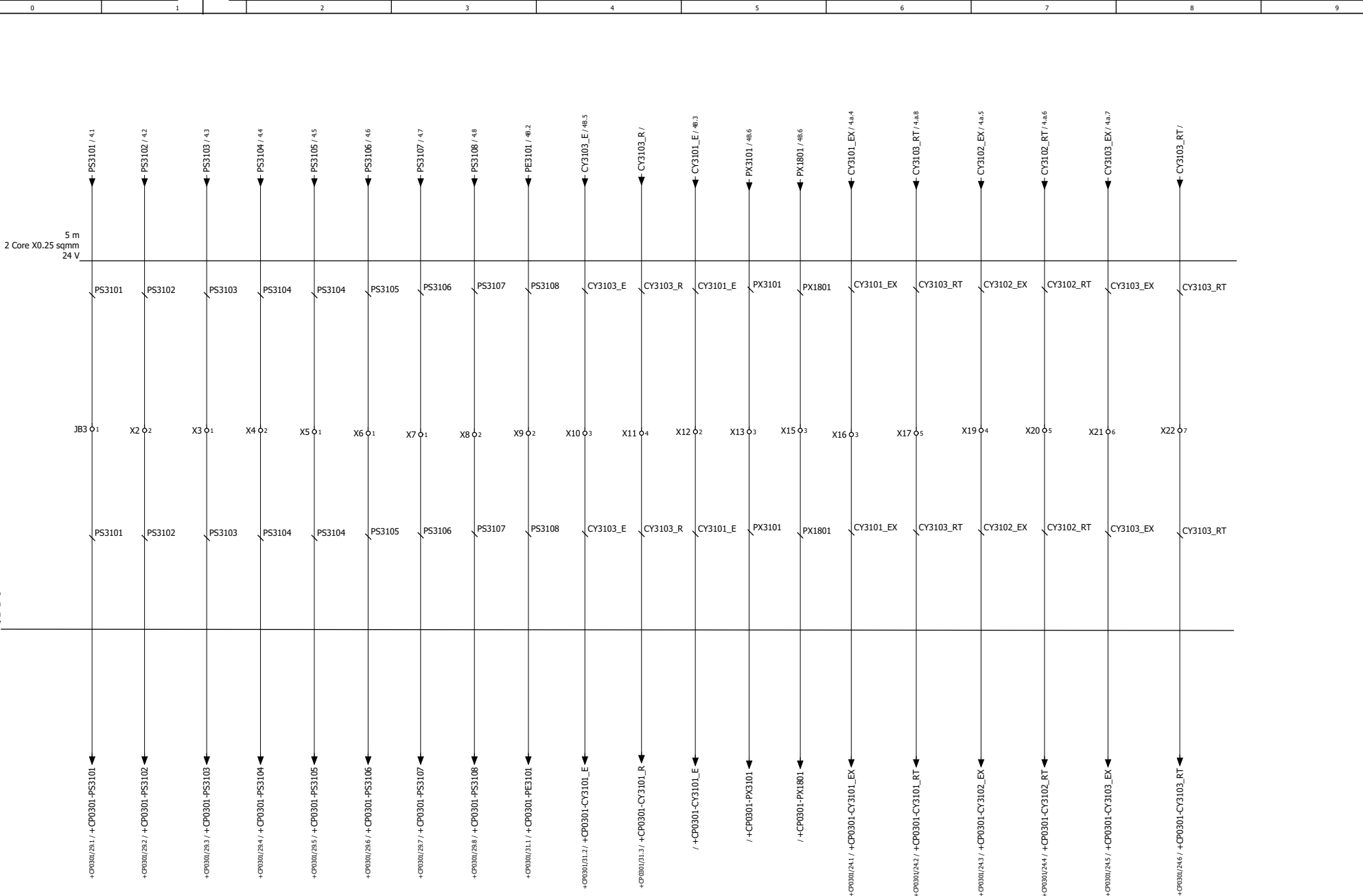
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Designer: Sahana					

Project Desc: Robotic Stacker and Pick & Place System
Page Desc: Control System: Plucker Cylinders

Mounting Loc: Flipping Assembly
Job No: 16360-0302
Page: P&P and Stacker System
Loc: JB0303

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Designer: Sahana					

Project Desc: **Robotic Stacker and Pick & Place System**
 Page Desc: Control System: JB Connection

Mounting Loc: **Flipping Assembly**
 Job No: **16360-0302** Page: **P&P and Stacker System** Loc: **JB0303**

Page: **5**
 Next Page: