

THINK-PLC, LLC

301 Welcome Center Blvd, Lexington, NC 27295

(888) 407-5448

www.Think-PLC.com



<https://think-plc.com/>

MODEL NUMBER

SRMR-KIT-01-CN60-E01

PRODUCT DESCRIPTION

Run-My-Robot, Spindle Control Enclosure

DRAWING NUMBER

D10017

REVISION NUMBER

3

VARIANT NUMBER

N/A

DATE _____

05/30/25

DRAWN BY

bmcnulty

APPROVED BY

bcole

APPROVAL DATE

05/06/25

NUMBER OF PAGES

28

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PROJECT STATUS: Release to manufacturing

REVISION HISTORY:

[illegible]

Table of contents

[illegible]

UNLESS CONFLICTING WITH UL 508A, NFPA 79 2024 TO BE USED AS A GUIDELINE FOR DESIGN AND CONSTRUCTION. GROUNDING: PE - EARTH OR "DIRTY GROUND" FE - FUNCTIONAL GROUND IE - INSTRUMENT GROUND CONDUCTOR TEMPERATURE RATING: ALL CONDUCTORS ARE TO BE RATED 90°C MINIMUM. REDUCING WIRE GAUGE WHEN SUBSTITUTING HIGHER TEMPERATURE RATED CONDUCTORS SHALL NOT BE ALLOWED. CONDUCTOR COLOR CODING: BLACK - ALL UNGROUNDED POWER OR CONTROL CIRCUIT CONDUCTORS OPERATING AT THE SUPPLY VOLTAGE WHITE - GROUNDED AC CURRENT-CARRYING POWER OR CONTROL CIRCUIT CONDUCTOR REGARDLESS OF VOLTAGE RED - UNGROUNDED AC CONTROL CIRCUITS OPERATING AT A VOLTAGE LESS THAN THE SUPPLY VOLTAGE BLUE - UNGROUNDED DC CONTROL CIRCUITS WHITE WITH BLUE STRIPE - GROUNDED DC CURRENT-CARRYING CONTROL CIRCUIT CONDUCTOR YELLOW OR ORANGE - UNGROUNDED CONTROL CIRCUITS OR OTHER WIRING, SUCH AS FOR CABINET LIGHTING, THAT REMAIN ENERGIZED WHEN THE MAIN DISCONNECT IS IN THE OFF POSITION WHITE WITH YELLOW STRIPE OR WHITE WITH ORANGE STRIPE - GROUNDED AC CONTROL CIRCUIT CURRENT-CARRYING CONDUCTOR THAT REMAINS ENERGIZED WHEN MAIN DISCONNECT SWITCH IS IN THE OFF POSITION GREEN WITH YELLOW STRIPE OR YELLOW WITH GREEN STRIPE - EARTHING CONDUCTOR NOTES: ALL COMPONENTS SHALL BE INSTALLED SUCH THAT REPLACEMENT DOES NOT REQUIRE THE REMOVAL OF THE BACKPANEL FROM THE ENCLOSURE. MTW CONDUCTOR INSULATION PREFERENCE IN PANEL CONSTRUCTION. CONDUCTOR AMPACITY TO BE DETERMINED BY RELEVANT NFPA70 AND NFPA79 AMPACITY TABLES. POWER CONDUCTORS TO BE 14AWG MINIMUM UNLESS OTHERWISE NOTED. CONTROL CONDUCTORS TO BE 18 AWG MINIMUM UNLESS OTHERWISE NOTED. POWER PANEL CONDUCTORS TO BE 600V INSULATION MINIMUM. CONTROL PANEL CONDUCTORS TO BE 300V INSULATION MINIMUM. CABLE OUTER SHEATH TO BE TRIMMED BACK MINIMUM 2 INCH. TRIMMED EDGE TO BE COVERED WITH HEAT SHRINK MINIMUM 1 INCH LENGTH WHERE CONDUCTORS AND OUTER SHEATH ARE EQUALLY COVERED. INDIVIDUAL CONDUCTORS TO BE LABELED BOTH ENDS WITH WIRE NUMBER INDICATED ON ELECTRICAL SCHEMATICS. EXCEPTION IS FOR CONDUCTOR LENGTHS 6 INCHES OR LESS WHICH MAY HAVE A SINGLE LABEL IN THE MIDDLE OF THE LENGTH OR AS APPROPRIATE. INDIVIDUAL CABLES TO BE LABELED BOTH ENDS WITH CABLE NUMBER INDICATED ON ELECTRICAL SCHEMATICS. INSTRUMENT CABLE SHIELDS TO BE GROUNDED ONE END ONLY LOCATION AS SHOWN IN THE ELECTRICAL SCHEMATICS. POWER CABLE SHIELDS TO BE GROUNDED BOTH ENDS. REVISION GUIDELINES: RED PEN: ADD THE TEXT AND LINES AS SHOWN GREEN PEN: DELETE TEXT/LINE WORK OR OBJECT BLUE OR BLACK PEN: NOTES, SKETCHES AND DIRECTIONS TO THE CAD DEPARTMENT, (NOT TO BE SHOWN) BUT INSTEAD TO BE ADDRESSED ON THE OUTPUT YELLOW OR BLUE HIGHLIGHTER: CHECKED OUT OK ORANGE OR PINK HIGHLIGHTER: QUESTION THIS AREA (NEEDS CLARITY)

Industrial Control Panel Nameplate: : Part no. L-111-102Q-NAMEPLATE
3" x 7"x 0.20"
Cut from JDS L-111-102Q White/Black Duets Flexible Contours Plastic.
Place one on the outside of the enclosure, on the door, per layout

76 mm[2.99"]

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301 Welcome Center Blvd
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Phone: 888-407-5448

INDUSTRIAL CONTROL PANEL
FOR INDUSTRIAL MACHINERY

<https://think-plc.com/>

PROJECT NUMBER:	N/A	MAX SHORT CIRCUIT CURRENT RATING:	5 kA
MODEL NUMBER:	SRMR-KIT-01-CN60-E01		
DRAWING NUMBER:	D10017	MAIN SUPPLY BREAKER OR FUSE RATING (A):	by others, 6 A
FULL LOAD CURRENT (A):	6 A		
LARGEST MOTOR LOAD (A):	N/A	ENCLOSURE TYPE:	Type 3R
LARGEST HEATER LOAD (A):	N/A	CONDUCTOR TYPE:	UL
VOLTAGE:	24 VDC	LINE SIDE FIELD CONNECTIONS (75 Deg):	M12 connection
PHASES:	N/A		
FREQUENCY:	N/A		

178 mm[7.01"]

Voltage marker label: MySafetyLabel Parts no. LB-0703-C, 1.125" x 4.5"
Place on the outside of the enclosure

Think-PLC Logo tag: 1.7" x 4"

Numbered UL listed label:
place near the Industrial Control Panel nameplate
on the outside of the enclosure

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301 Welcome Center Blvd., Lexington, NC 27295 USA
(888) 407-5448 www.think-plc.com

MODEL NUMBER [SRMR-KIT-01-CN60-E01](#)
[Run-My-Robot, Spindle Control Enclosure](#)

DRAWING No. [D10017](#)

REVISION No. [3](#)

VARIANT No. [N/A](#)

DRAWN BY [bmcnulty](#) [02/16/25](#)

LAST EDITOR [bmcnulty](#) [05/30/25](#)

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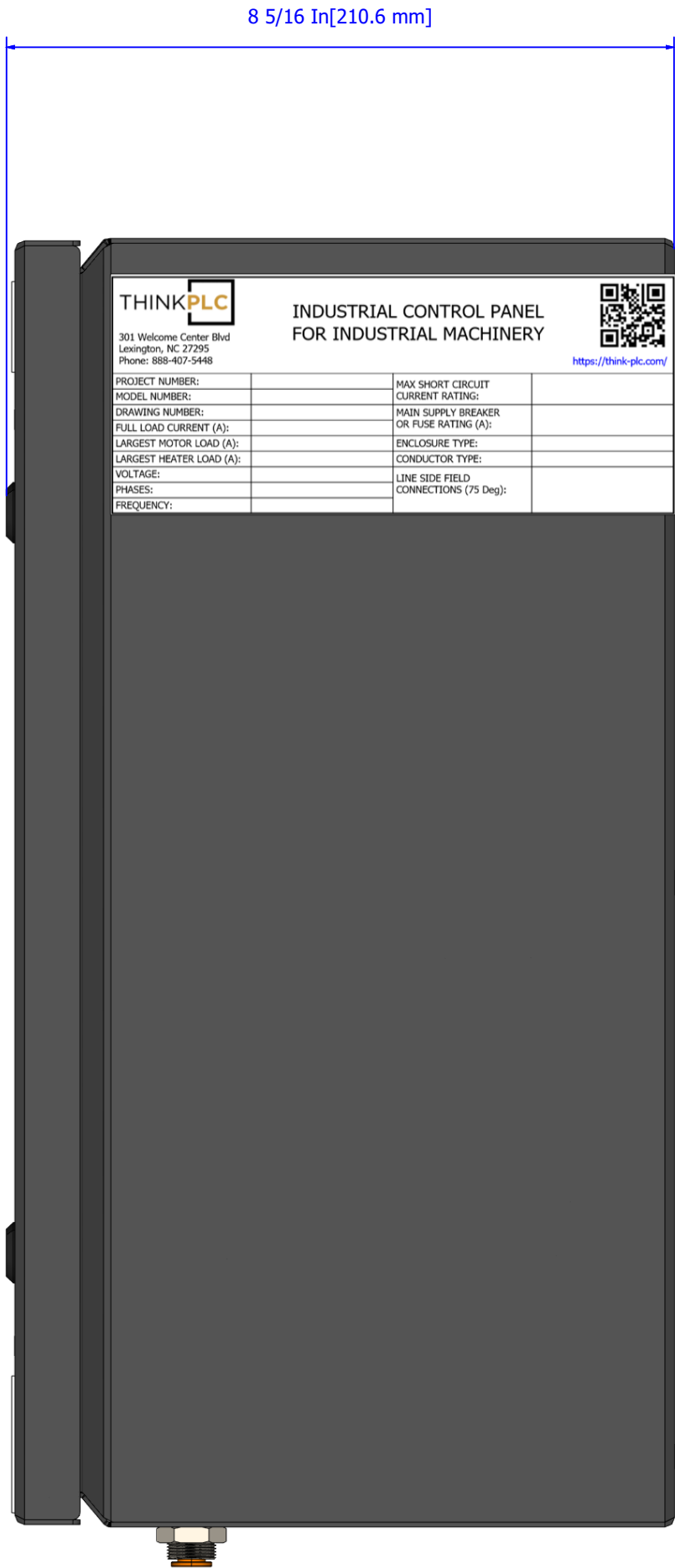
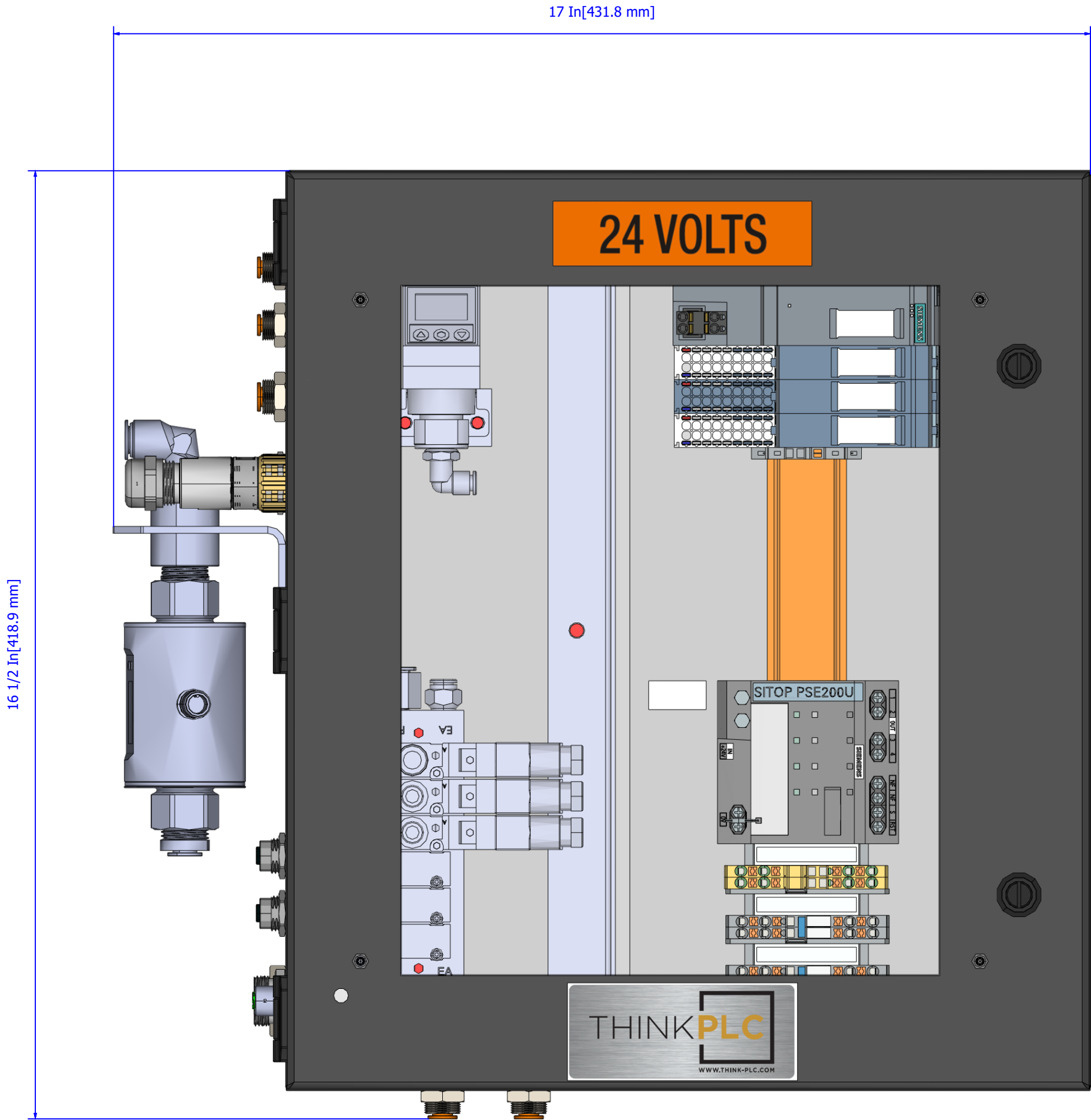
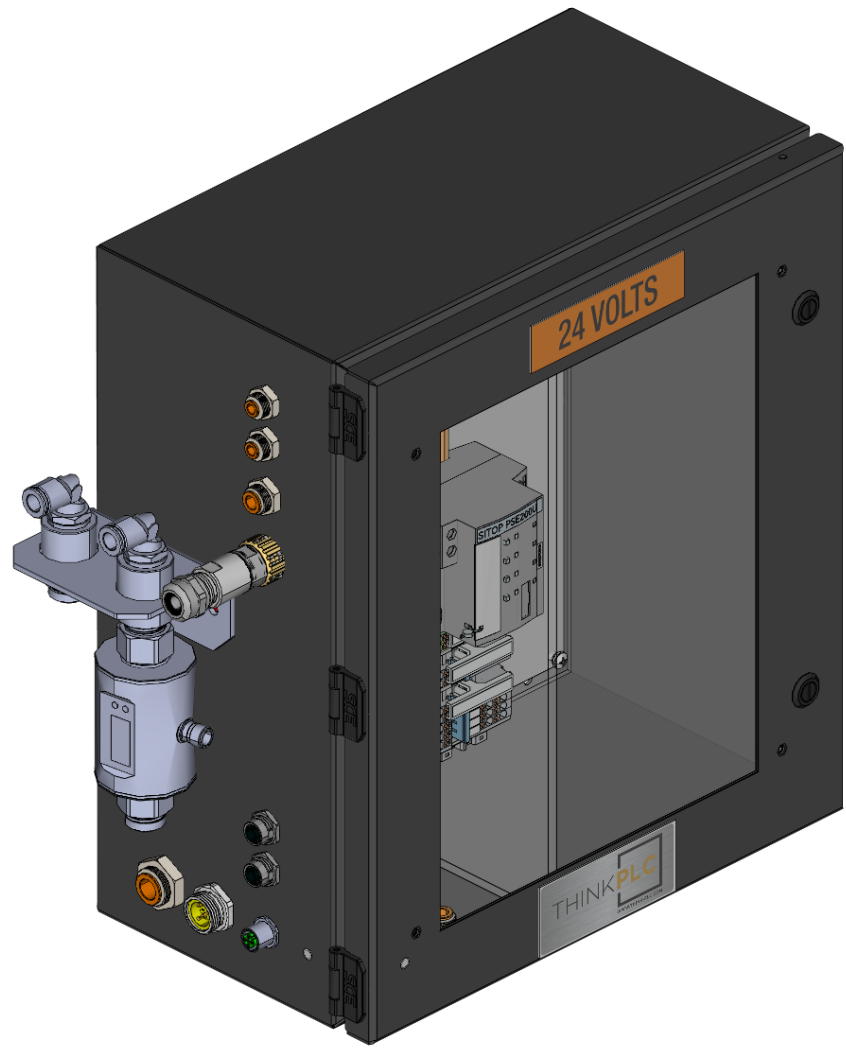
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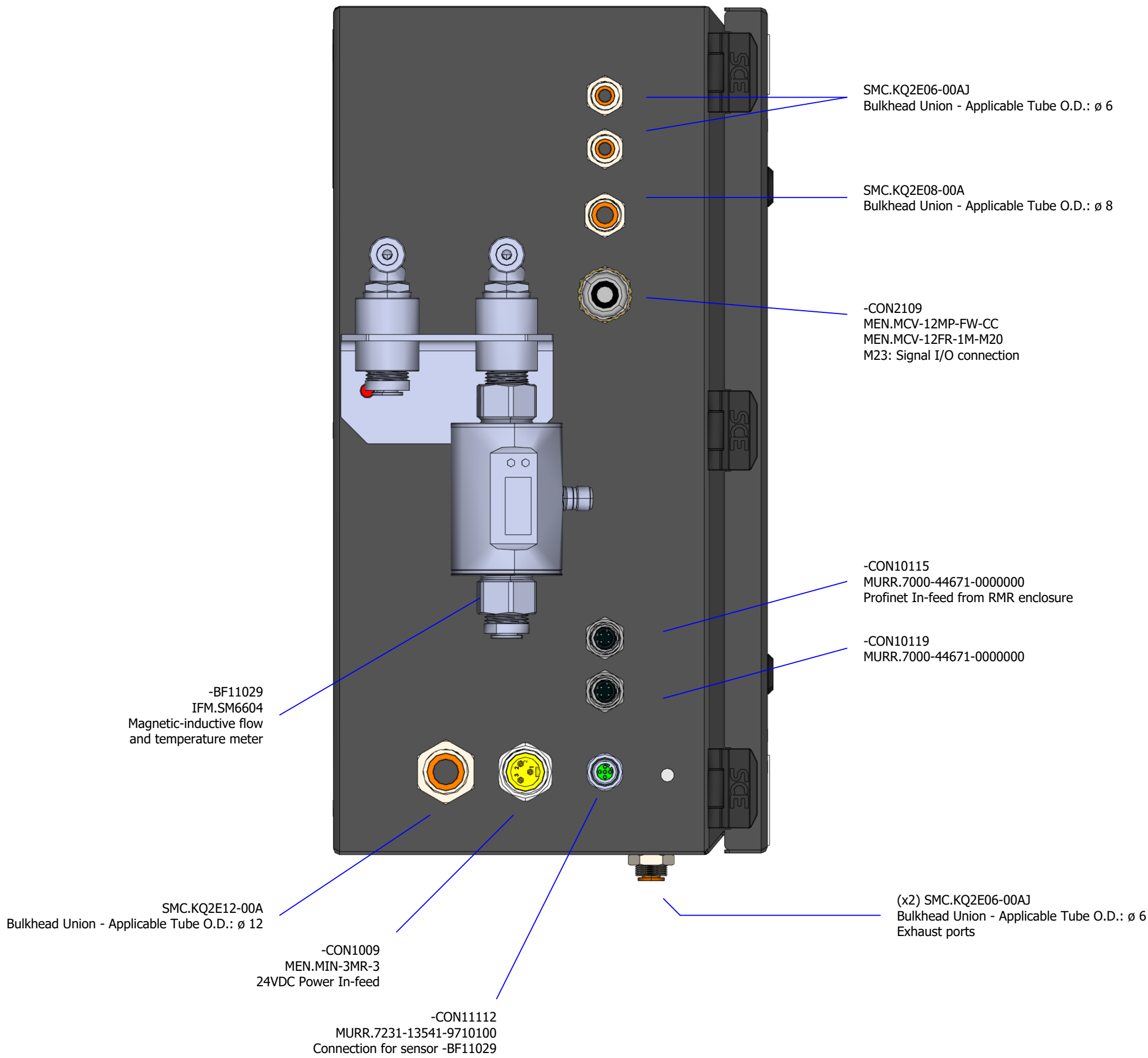
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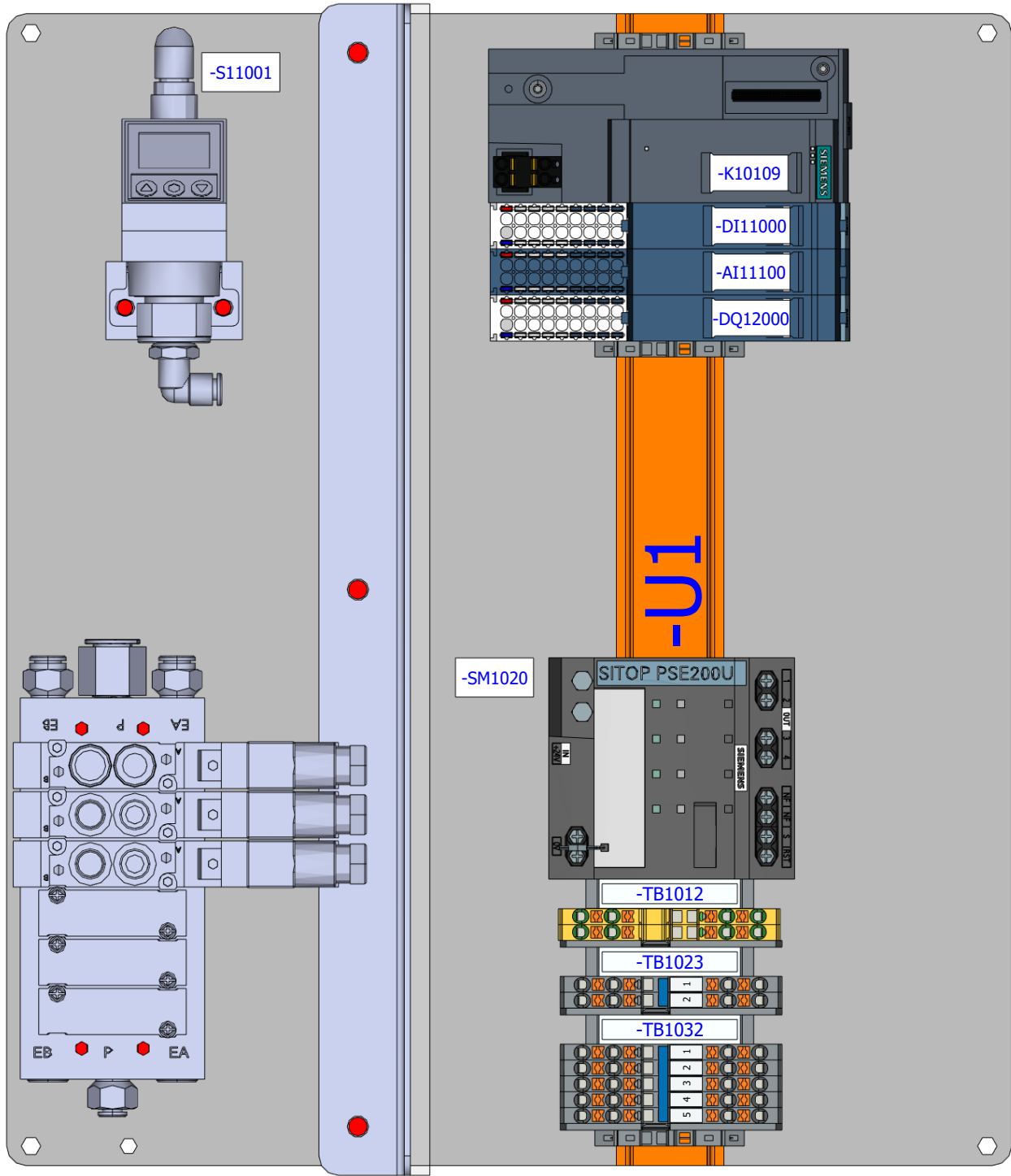
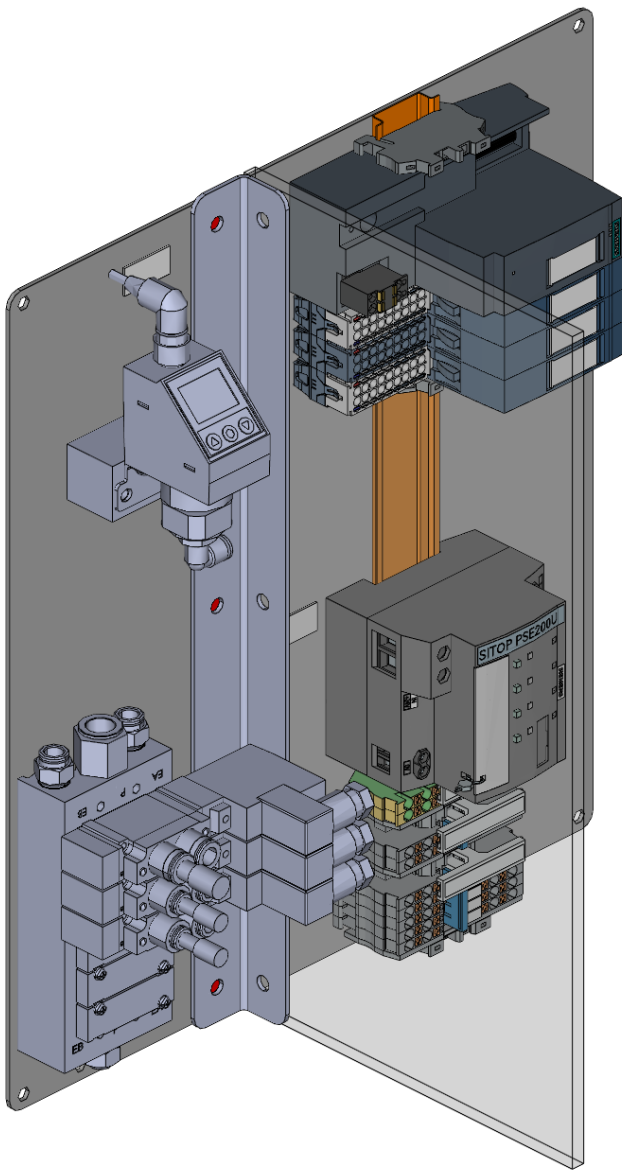
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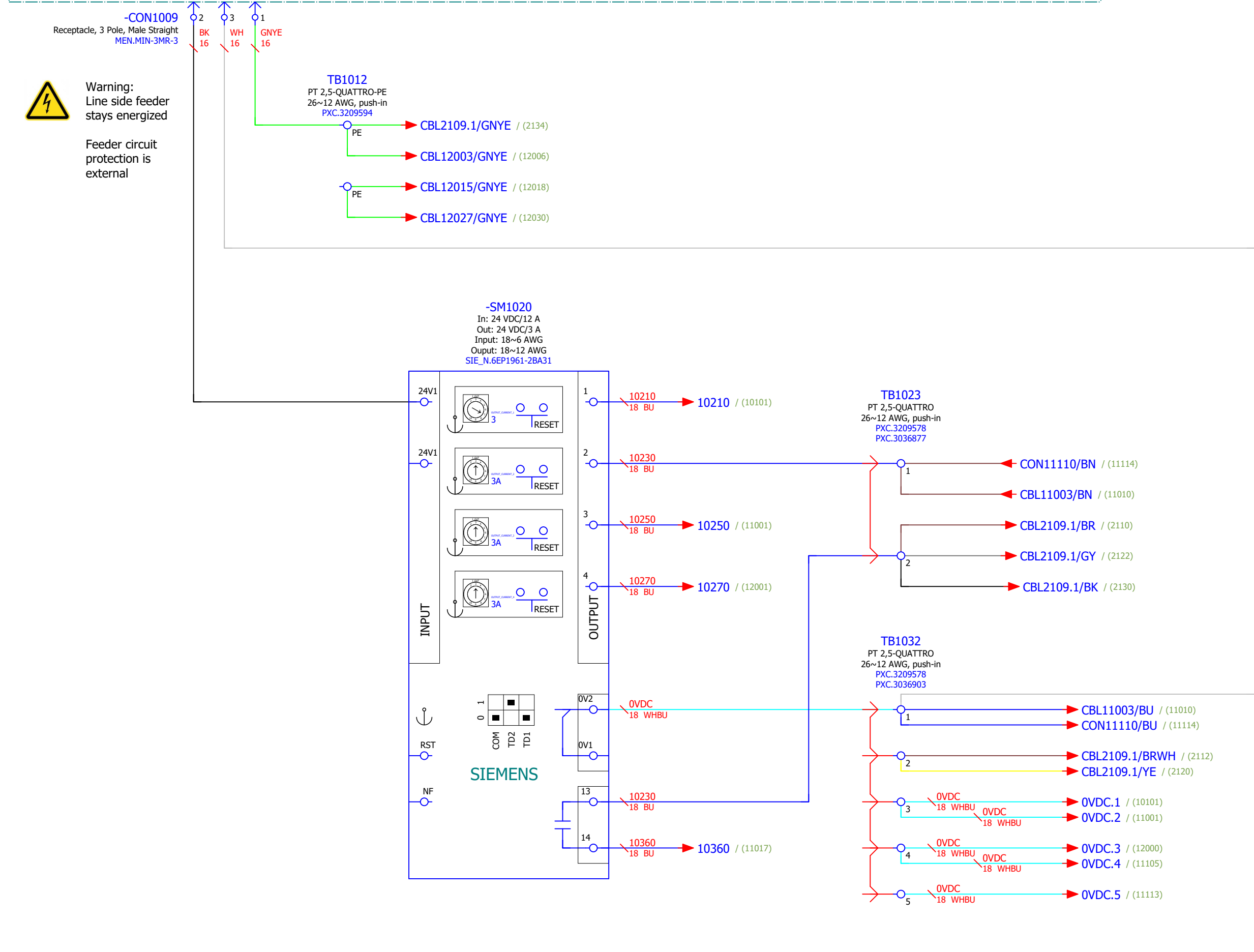
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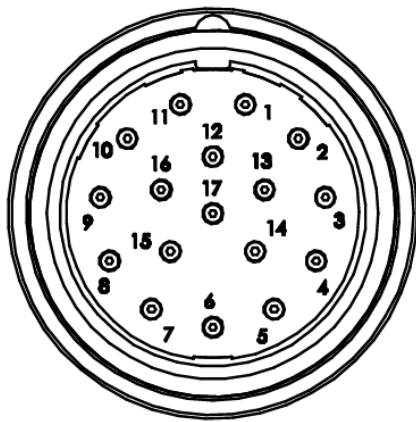




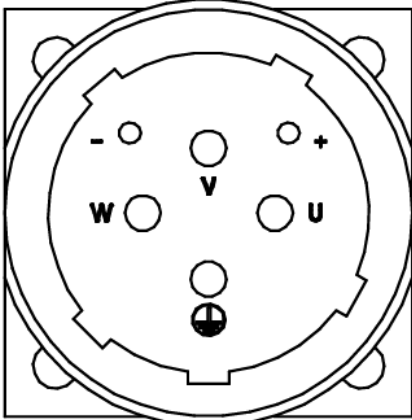


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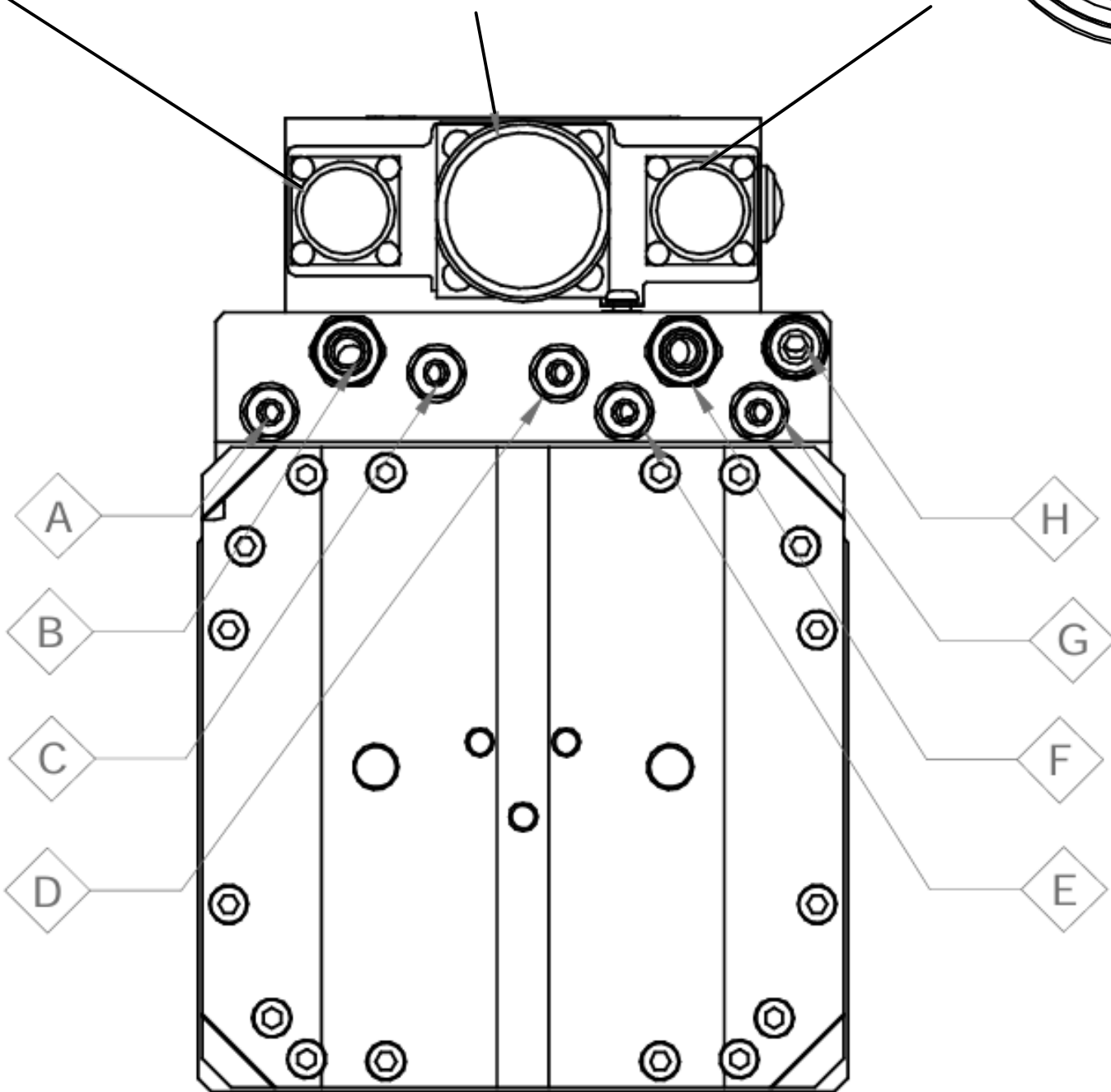
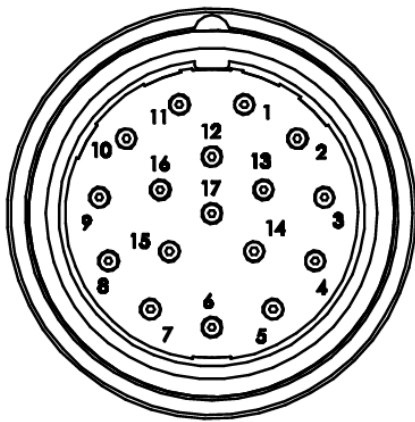
M23: Encoder connection



M40: Power Connection



M23: Signal I/O connection



Ref	Description	Tube size	Pressure/flow
A	AIR/HYDRAULIC INLET 3	6 mm	6 - 6.5 bar
B	IN/OUT LIQUID COOLING ELECTROSPINDLE	10 mm	4.5 l/min
C	AIR/HYDRAULIC INLET 1	6 mm	6 - 6.5 bar
D	AIR/HYDRAULIC INLET 2	6 mm	6 - 6.5 bar
E	AIR/HYDRAULIC INLET 4	6 mm	6 - 6.5 bar
F	IN/OUT LIQUID COOLING ELECTROSPINDLE	10 mm	4.5 l/min
G	TAPER CLEANING / PRESSURIZATION	6 mm	4 - 4.5 bar
H	RELEASE TOOL	8 mm	9.5 - 10.5 bar

M40 Power Connections		PDS cable	
Pin	Description	Color	Size
U	MOTOR PHASE A	Black	12 AWG
V	MOTOR PHASE B	Blue	12 AWG
W	MOTOR PHASE C	Grey	12 AWG
PE	GROUND	Black w/ shield	12 AWG
-	Not Connected	---	---
+	Not Connected	---	---

M23 Signal I/O Connections		PDS cable	
Pin	Description	Color	Size
1	Not Connected	---	---
2	Not Connected	---	---
3	+24 Vcc S3 ALIM supply -supply S3 (+IM SVS)	Blue	26AWG
4	0 Vcc S3 ALIM supply -supply S3 (+IM SVS) + Shield IM SVS	Black w/ shield	26AWG
5	Output S1 - Tool Locked	Brown	26AWG
6	Output S2 - Tool Released	Orange	26AWG
7	Output S2 - Shaft Rotation	Red	26AWG
8	0V - ALIM S1+S2+S5 Supply S1+S2+S5	Green	26AWG
9	+24Vcc - ALIM S1+S2+S5 Supply S1+S2+S5	White	26AWG
10	Output S5 Piston Back	Grey	26AWG
11	Output Thermal Alarm	Yellow	26AWG
12	Not Connected	---	---
13	+24V Temperature Probe T.C. PB, Thermal Alarm, +T.C.	White/Black	26AWG
14	Output T.C. Pushbutton	Orange/White	26AWG
15	IM SVS RS485 RX D-	Gray/Pink	26AWG
16	IM SVS RS485 TX D+	Red/Blue	26AWG
17	IM SVS ALARM	Yellow	26AWG

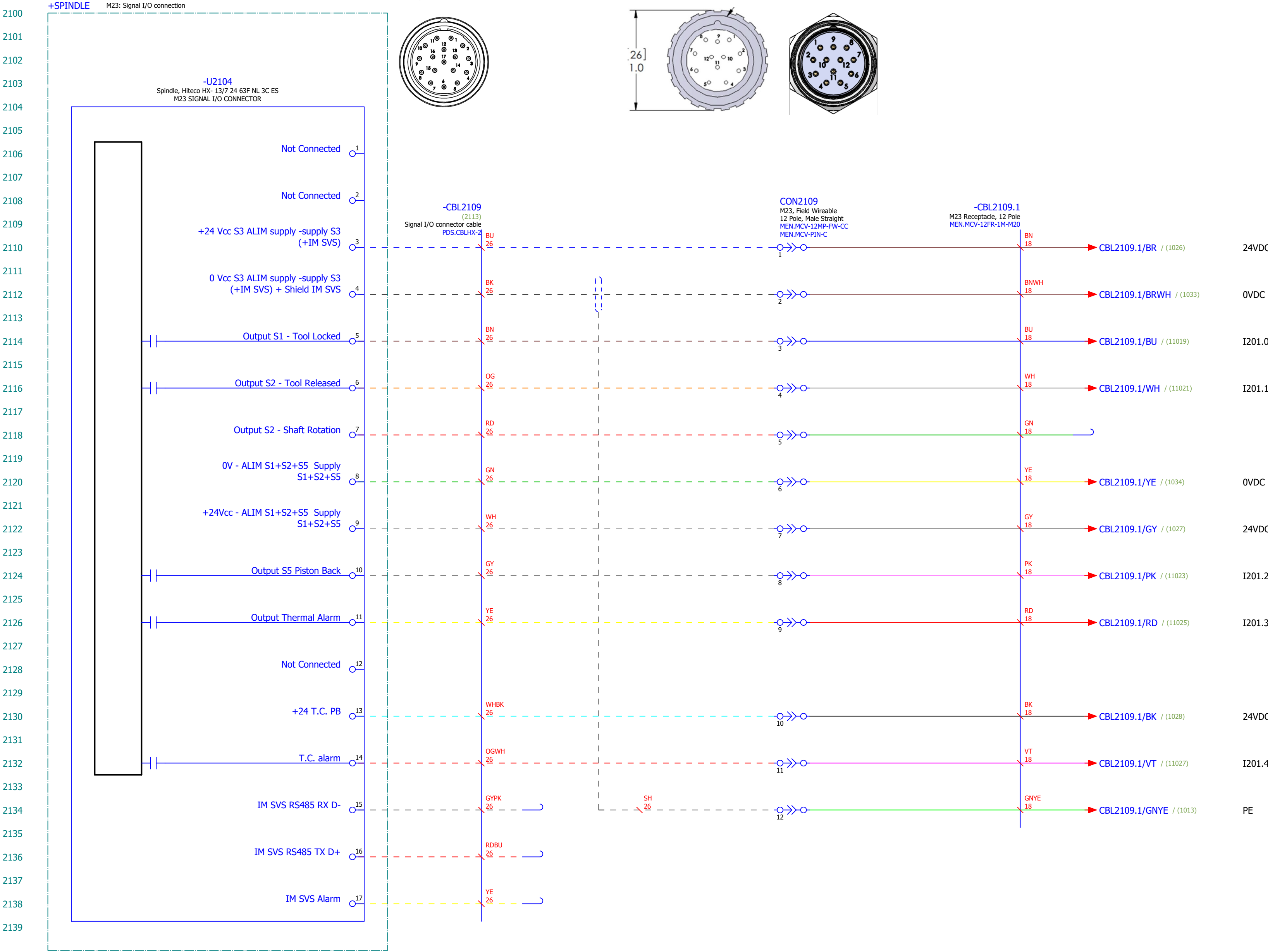
M23 Encoder Connections		Encoder cable
Pin	Description	Color
1	Ua + ENCODER	White
2	Ua - ENCODER	Brown
3	Un + ENCODER	Grey
4	Not Connected	---
5	Not Connected	---
6	Not Connected	---
7	+0 Vcc ALIM. ENCODER	Blue
8	Not Connected	---
9	Not Connected	---
10	+5 Vcc ALIM. ENCODER	Red
11	Ub + ENCODER	Pink
12	Ub - ENCODER	Black
13	Un - ENCODER	Yellow
14	Not Connected	---
15	CONNECTED TO 7	Violet
16	5V SENSE ENCODER	Green
17	Not Connected	---



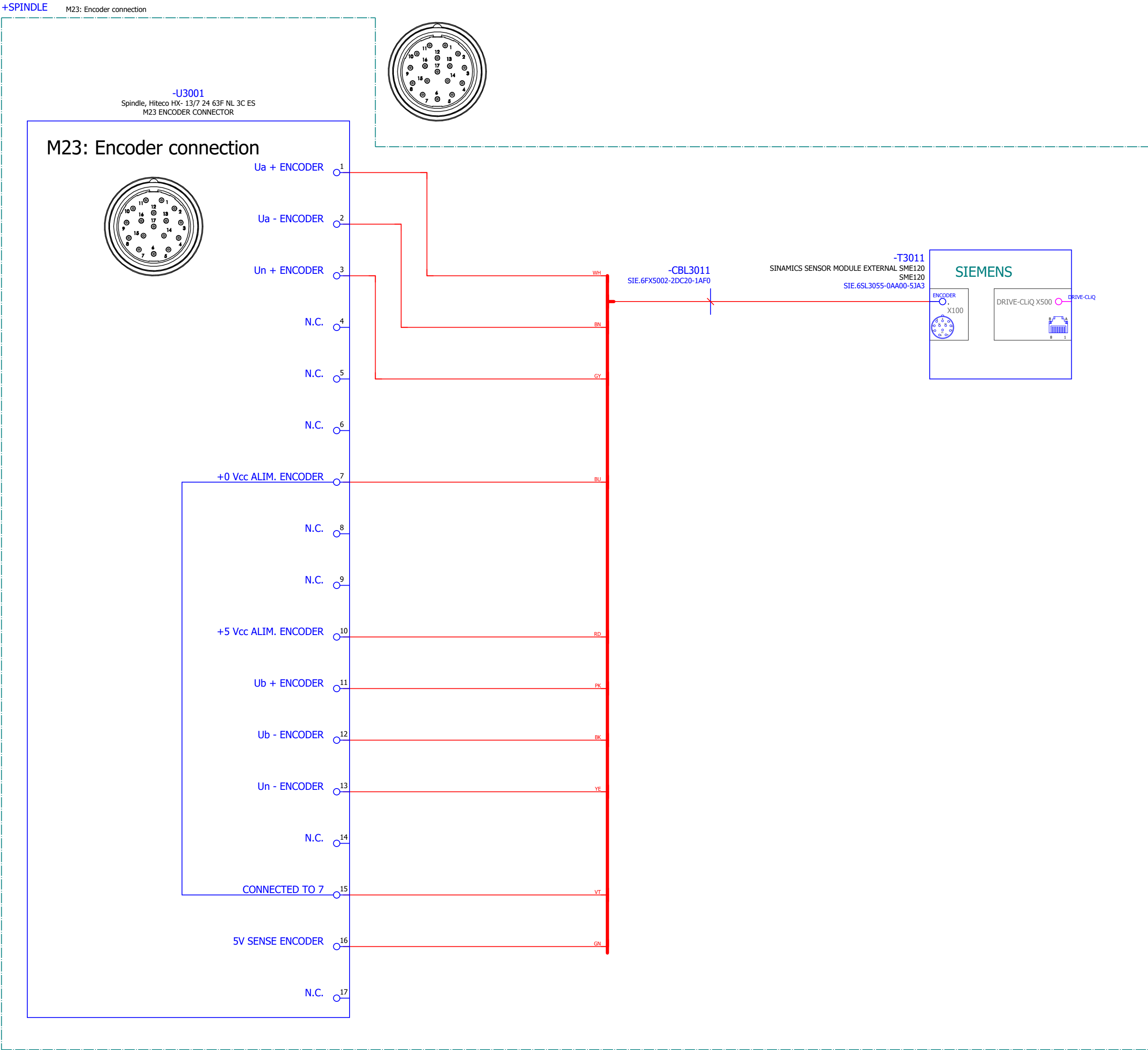
M23: Signal I/O connection

M23: Field Wirable

M23: Bulkhead connector

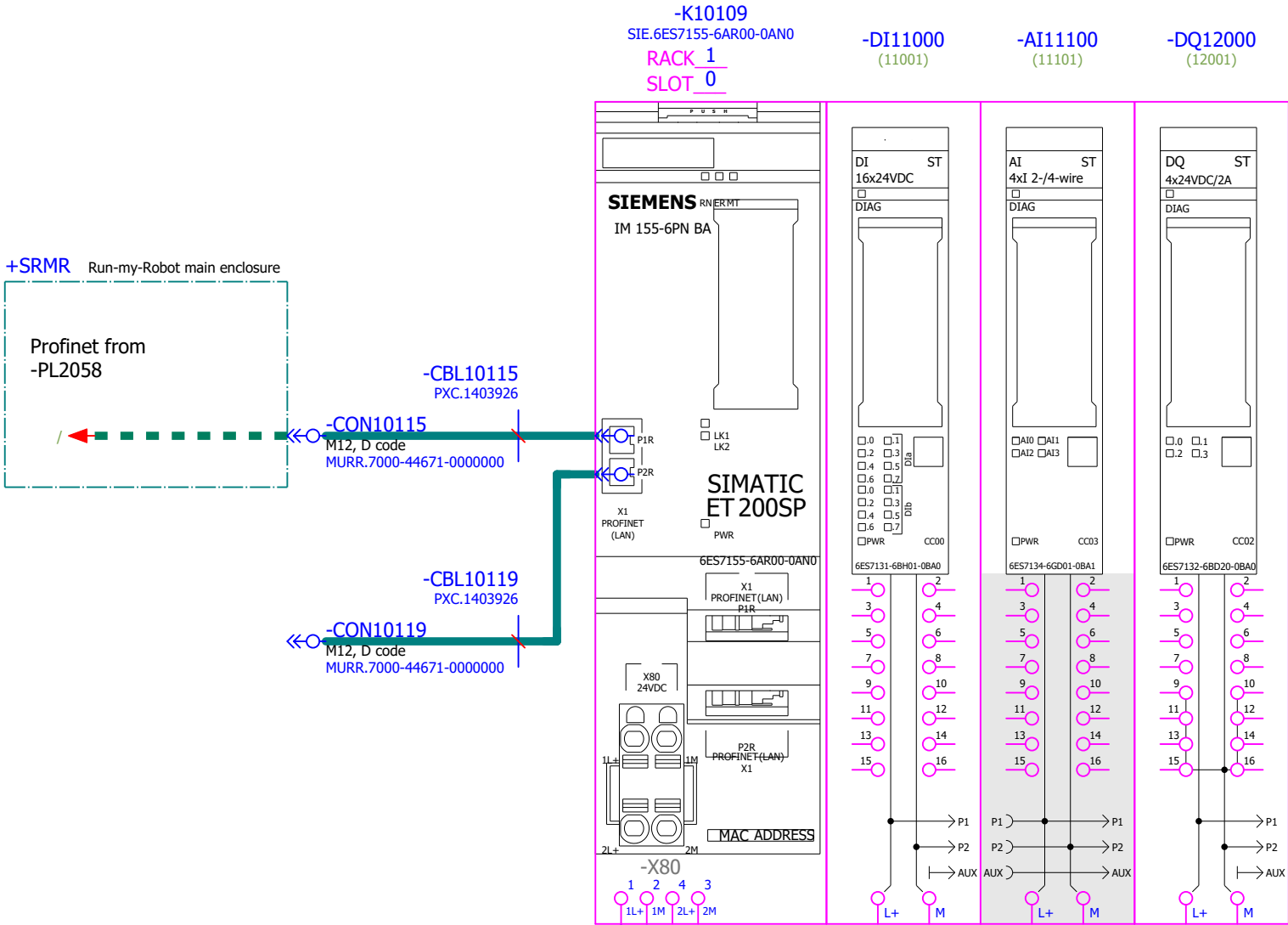


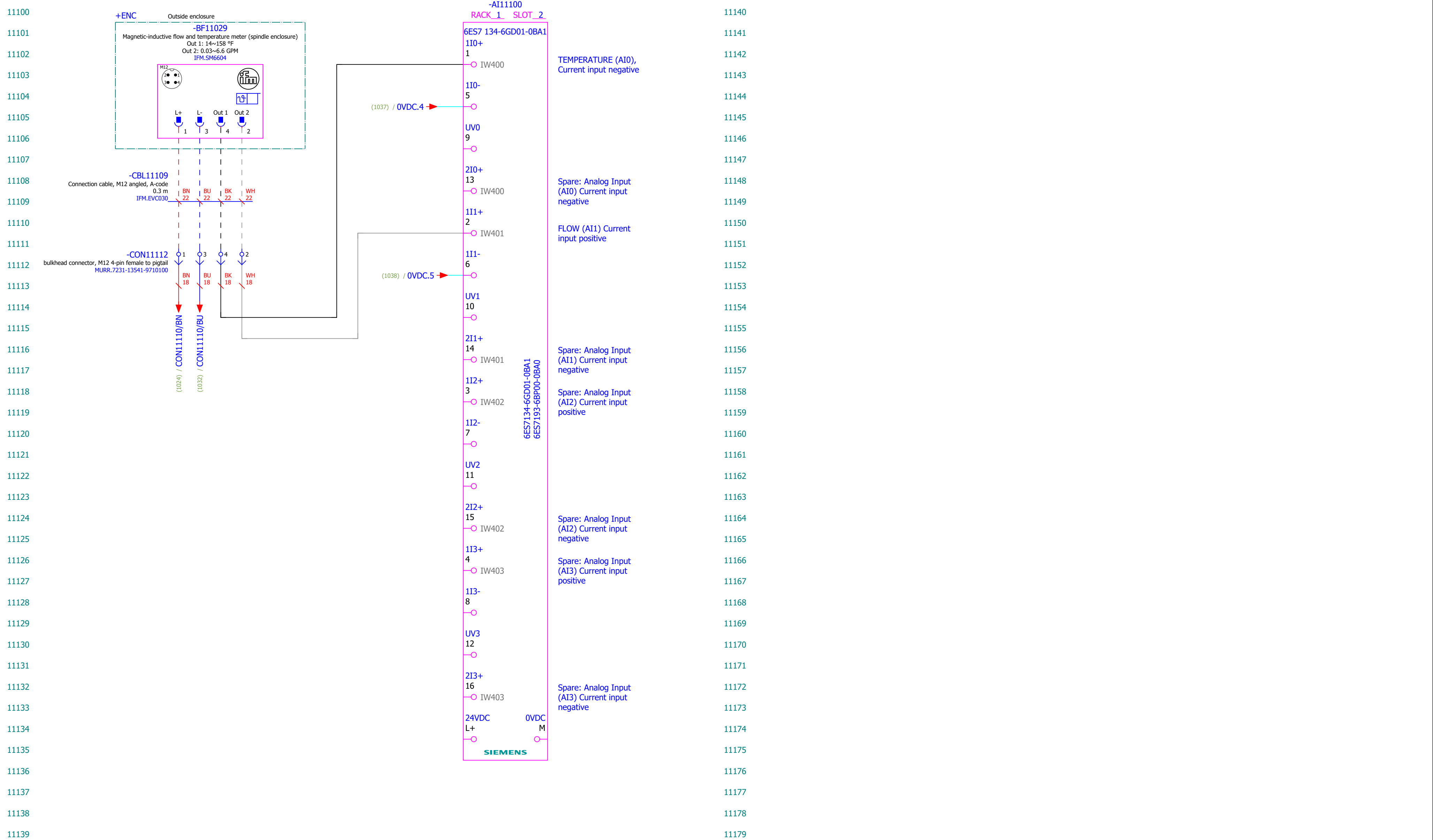
M23: Encoder connection

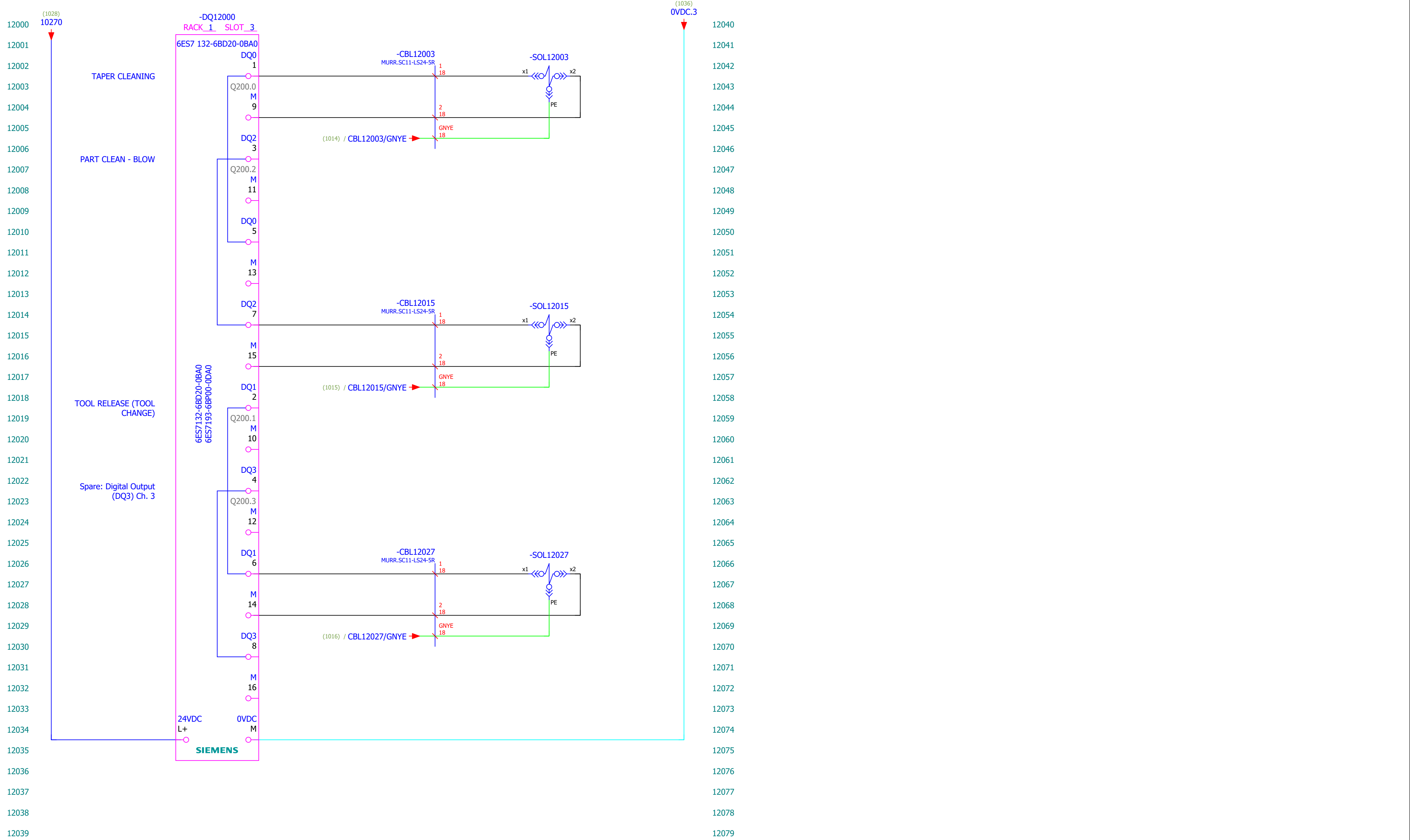


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Bill of Material

Think PLC_F02_001-RMR_R3

Part Number	Quantity	Description	Manufacturer	DT (Device Tags)
1605-871	1	THINK-PLC Dometag	Dometag	-0000.3
EVC601	1	Connecting cable with socket	ifm electronic	-CBL11006
EVC030	1	Connection cable, M12 angled, A-code	ifm electronic	-CBL11109
SM6604	1	Magnetic-inductive flow and temperature meter (spindle enclosure)	ifm electronic	+ENC-BF11029
MCV-12FR-1M-M20	1	M23 Receptacle, 12 Pole	MENCOM	-CBL2109.1
MIN-3MR-3	1	Receptacle, 3 Pole, Male Straight	MENCOM	-CON1009
MCV-12MP-FW-CC	1	M23, Field Wireable, 12 Pole, Male Straight	MENCOM	-CON2109
MCV-PIN-C	12	MCV, Male Contact Pin	MENCOM	-CON2109
LB-0703-B	1	Label, 24 Volt, 1.125in. x 4.5in.	My Safety Label	-0000
SC11-LS24-5R	3	solenoid valve cable, 111mm reverse DIN style molded connector to flying lead	Murrelektronik	-CBL12003;-CBL12015;-CBL12027
7000-44671-0000000	2	bulkhead connector, M12 D-coded female 4-pin to RJ45 female 8-pin	Murrelektronik	-CON10115;-CON10119
7231-13541-9710100	1	bulkhead connector, M12 4-pin female to pigtail	Murrelektronik	-CON11112
C100X050APT	6	Label, panel component, 0.5" x 1", White	Panduit	-AI11100;-DI11000;-DQ12000;-K10109;-S11001;-SM1020
CBLHX-2	1	Signal I/O connector cable	Presision Drive Systems	-CBL2109
3022276	3	End bracket for terminal block	Phoenix Contact	-.1;-.2;-.9
3022218	3	End bracket for terminal block	Phoenix Contact	-.3;-.5;-.6
3030514	3	End and partition plate for terminal block	Phoenix Contact	-.4;-.7;-.8
1004348	3	Carrier for marking accessories	Phoenix Contact	-0000.5...-0000.7
0819275	3	Marker for marker carrier	Phoenix Contact	-TB1012;-TB1023;-TB1032
0801733	1	Think Stocked DIN rail	Phoenix Contact	-U1
1403926	2	Network cable	Phoenix Contact	-CBL10115;-CBL10119
3209594	2	Ground terminal block, PT 2,5-PE	Phoenix Contact	-TB1012
0828734	9	Labeling for terminal block	Phoenix Contact	-TB1012;-TB1023;-TB1032
3209578	7	Feed-through terminal block, PT 2,5	Phoenix Contact	-TB1023;-TB1032
3036877	1	Cross-connector for terminal block, Blue, 5.2 mm, 2-pin	Phoenix Contact	-TB1023
3036903	1	Cross-connector for terminal block, Blue, 5.2 mm, 5-pin	Phoenix Contact	-TB1032
16148ELJW-132228	1	ELJ Enclosure W/Viewing Window, powder coated RAL9011 sand texture BLACK inside and out	Saginaw	-2
16P14	1	Subpanel	Saginaw	-3
6ES7134-6GD01-0BA1	1	SIMATIC ET 200SP AI 4xI 2-/4-wire ST	Siemens	-AI11100
6ES7193-6BP00-0BA0	1	SIMATIC ET 200SP BU type A0 BU15-P16+A0+2B	Siemens	-AI11100
6ES7131-6BH01-0BA0	1	SIMATIC ET 200SP DI 16x 24V DC ST, PU 1	Siemens	-DI11000
6ES7193-6BP00-0DA0	2	SIMATIC ET 200SP BU type A0 BU15-P16+A0+2D	Siemens	-DI11000;-DQ12000
6ES7132-6BD20-0BA0	1	SIMATIC ET 200SP DQ 4x24 V DC/2 A ST	Siemens	-DQ12000
6ES7155-6AR00-0AN0	1	ET 200SP, IM155-6PN BASIC	Siemens	-K10109
6FX5002-2DC20-1AF0	1	MOTION-CONNECT DRIVE-CLIQ	Siemens	+SPINDLE-CBL3011
6SL3055-0AA00-5JA3	1	SINAMICS SENSOR MODULE EXTERNAL SME120	Siemens	+SPINDLE-T3011
6EP1961-2BA31	1	Selectivity module	Siemens (NFPA Data)	-SM1020

Bill of Material

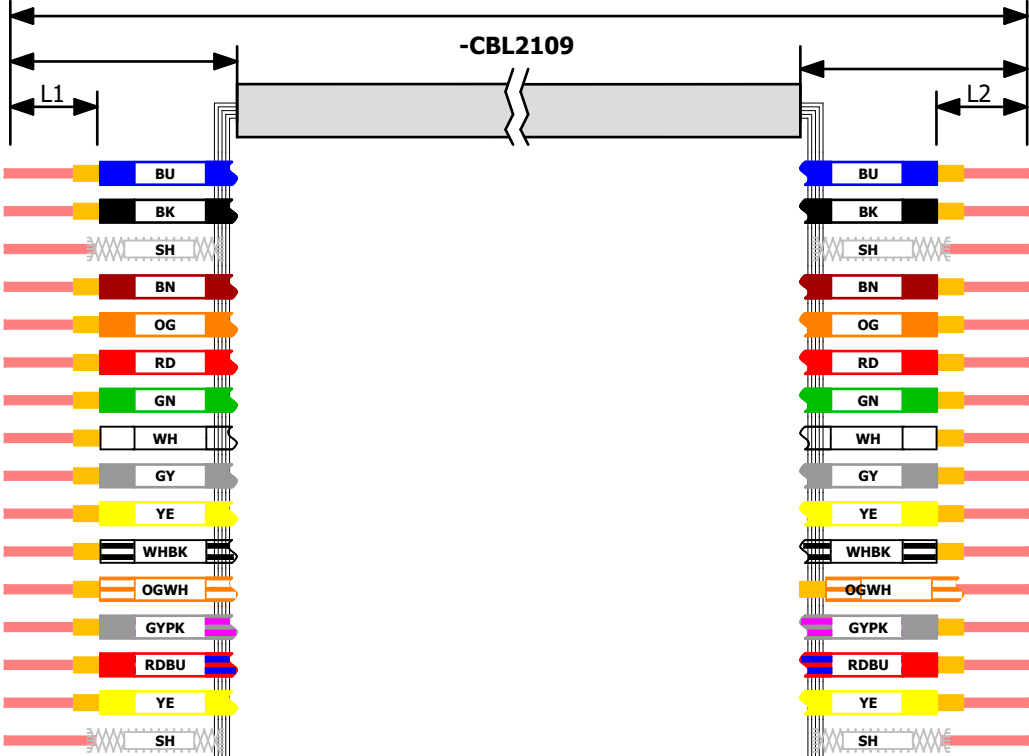
Part Number	Quantity	Description	Manufacturer	DT (Device Tags)
KQ2E06-00AJ	2	Bulkhead Union - Applicable Tube O.D.: ø 6	SMC	-?1
KQ2E08-00A	3	Bulkhead Union - Applicable Tube O.D.: ø 8	SMC	-?1
KQ2E12-00A	1	Bulkhead Union - KQ2E*-00	SMC	-?1
ISE70-F02-L2-L	1	ISE70/71, 3-Screen Display Digital Pressure Switch for Air	SMC	-S11001
L-111-102Q-NAMEPLATE	1	Label, UL required nameplate	THINK-PLC	-0000.1
UL-LABEL	1	Label, UL listed enclosed industrial control panel	THINK-PLC	-0000.4

Connection list-Wiring

[illegible][illegible]

Cable name +CN60-CBL2109
Cable type
Free conductoits

Location designation	Source	Function text source	Stopper	L1 [mm]	Part number
Spindle Enclosure	-CON2109:1	M23, Field Wireable 12 Pole, Male			
Spindle Enclosure	-CON2109:2	0 Vcc S3 ALIM supply -supply S3 (+IM			
Spindle Enclosure	-CON2109:3	Output S1 - Tool Locked			
Spindle Enclosure	-CON2109:4	Output S2 - Tool Released			
Spindle Enclosure	-CON2109:5	Output S2 - Shaft Rotation			
Spindle Enclosure	-CON2109:6	0V - ALIM S1+S2+S5 Supply			
Spindle Enclosure	-CON2109:7	+24Vcc - ALIM S1+S2+S5 Supply			
Spindle Enclosure	-CON2109:8	Output S5 Piston Back			
Spindle Enclosure	-CON2109:9	Output Thermal Alarm			
Spindle Enclosure	-CON2109:10	+24 T.C. PB			
Spindle Enclosure	-CON2109:11	T.C. alarm			
Spindle Enclosure		IM SVS RS485 RX D-			
Spindle Enclosure		IM SVS RS485 TX D+			
Spindle Enclosure		IM SVS Alarm			
Spindle Enclosure	-CON2109:12	IM SVS RS485 RX D-			

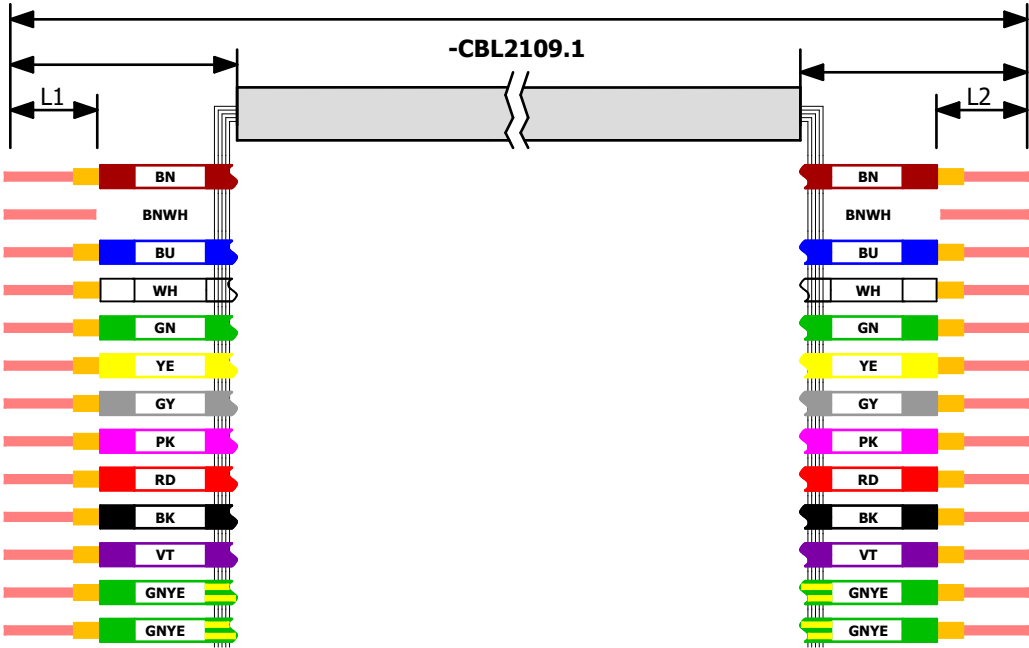


Cable parts PDS.CBLHX-2
Order number CBLHX-2

Part number	L2 [mm]	Stopper	Function text target	Target	Location designation
			+24 Vcc S3 ALIM supply -supply S3	+SPINDLE-U2104:3	
			0 Vcc S3 ALIM supply -supply S3 (+IM	+SPINDLE-U2104:4	
			Output S1 - Tool Locked	+SPINDLE-U2104:5	
			Output S2 - Tool Released	+SPINDLE-U2104:6	
			Output S2 - Shaft Rotation	+SPINDLE-U2104:7	
			0V - ALIM S1+S2+S5 Supply	+SPINDLE-U2104:8	
			+24Vcc - ALIM S1+S2+S5 Supply	+SPINDLE-U2104:9	
			Output S5 Piston Back	+SPINDLE-U2104:10	
			Output Thermal Alarm	+SPINDLE-U2104:11	
			+24 T.C. PB	+SPINDLE-U2104:13	
			T.C. alarm	+SPINDLE-U2104:14	
			IM SVS RS485 RX D-	+SPINDLE-U2104:15	
			IM SVS RS485 TX D+	+SPINDLE-U2104:16	
			IM SVS Alarm	+SPINDLE-U2104:17	
			+24 Vcc S3 ALIM supply -supply S3	-CBL2109	Spindle Enclosure

Cable name +CN60-CBL2109.1
Cable type
Free conductoits

Location designation	Source	Function text source	Stopper	L1 [mm]	Part number
Spindle Enclosure	-CON2109:1	M23, Field Wireable 12 Pole, Male			
Spindle Enclosure	-CON2109:2	0 Vcc S3 ALIM supply -supply S3 (+IM			
Spindle Enclosure	-CON2109:3	Output S1 - Tool Locked			
Spindle Enclosure	-CON2109:4	Output S2 - Tool Released			
Spindle Enclosure	-CON2109:5	Output S2 - Shaft Rotation			
Spindle Enclosure	-CON2109:6	0V - ALIM S1+S2+S5 Supply			
Spindle Enclosure	-CON2109:7	+24Vcc - ALIM S1+S2+S5 Supply			
Spindle Enclosure	-CON2109:8	Output S5 Piston Back			
Spindle Enclosure	-CON2109:9	Output Thermal Alarm			
Spindle Enclosure	-CON2109:10	+24 T.C. PB			
Spindle Enclosure	-CON2109:11	T.C. alarm			
Spindle Enclosure	-CON2109:12	IM SVS RS485 RX D-			



Cable parts MEN.MCV-12FR-1M-M20
Order number MCV-12FR-1M-M20

Part number	L2 [mm]	Stopper	Function text target	Target	Location designation
				-TB1023:2:b	Spindle Enclosure
				-TB1032:2:c	Spindle Enclosure
			TOOL LOCKED S1	-DI11000:9	Spindle Enclosure
			TOOL RELEASED S2	-DI11000:10	Spindle Enclosure
			Output S2 - Shaft Rotation		Spindle Enclosure
				-TB1032:2:d	Spindle Enclosure
				-TB1023:2:c	Spindle Enclosure
			PISTON BACK S5	-DI11000:11	Spindle Enclosure
			THERMAL ALARM	-DI11000:12	Spindle Enclosure
				-TB1023:2:d	Spindle Enclosure
			T.C. BUTTON	-DI11000:13	Spindle Enclosure
				-TB1012:PE:c	Spindle Enclosure



Cable name

+CN60-CBL12003

Cable type

3x

Free conductoßs

Location designation	Source	Function text source	Stopper	L1 [mm]	Part number
Spindle Enclosure	-DQ12000:9				
Spindle Enclosure	-TB1012:PE:d				

5 m

L1

L2

-CBL12003

2

GNYE

Part number	L2 [mm]	Stopper	Function text target	Target	Location designation
			TAPER CLEANING	-SOL12003:x2	Spindle Enclosure
			=	-SOL12003:PE	Spindle Enclosure

Think-PLC_CableDiagram_UFP_A_mmls04

Cable name

+CN60-CBL12015

Cable type

3x

Free conductoßs

Location designation	Source	Function text source	Stopper	L1 [mm]	Part number
Spindle Enclosure	-DQ12000:15				
Spindle Enclosure	-TB1012:PE:c				

5 m

L1

L2

-CBL12015

2

GNYE

Part number	L2 [mm]	Stopper	Function text target	Target	Location designation
				-SOL12015:x2	Spindle Enclosure
				-SOL12015:PE	Spindle Enclosure

Cable name

+CN60-CBL12027

Cable type

3x

Free conductors

Location designation	Source	Function text source	Stopper	L1 [mm]	Part number
Spindle Enclosure	-DQ12000:14				
Spindle Enclosure	-TB1012:PE:d				

5 m

-CBL12027

L1

2

GNYE

L2

2

GNYE

Part number	L2 [mm]	Stopper	Function text target	Target	Location designation
				-SOL12027:x2	Spindle Enclosure
				-SOL12027:PE	Spindle Enclosure

Think-PLC CableDiagram_00P_A_mmlsaw4

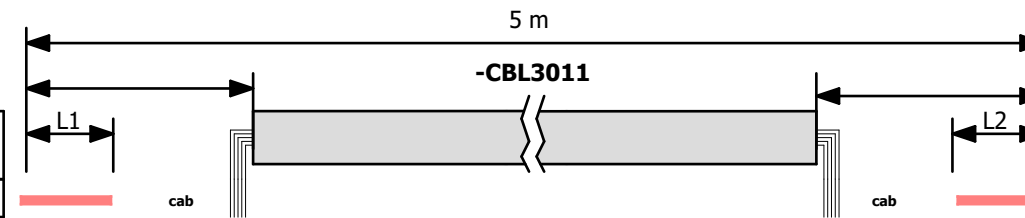
PLC address overview

Think-F48_001

No.	PLC address	Function text
1	I200.0	PS OUTPUT 1
2	I200.1	PS OUTPUT 2
3	I200.2	Spare: Digital Input (DI) 2
4	I200.3	Spare: Digital Input (DI) 3
5	I200.4	Spare: Digital Input (DI) 4
6	I200.5	Spare: Digital Input (DI) 5
7	I200.6	Spare: Digital Input (DI) 6
8	I200.7	DC CIRCUITS OK
9	I201.0	TOOL LOCKED S1
10	I201.1	TOOL RELEASED S2
11	I201.2	PISTON BACK S5
12	I201.3	THERMAL ALARM
13	I201.4	T.C. BUTTON
14	I201.5	Spare: Digital Input (DI) 13
15	I201.6	Spare: Digital Input (DI) 14
16	I201.7	Spare: Digital Input (DI) 15
17	IW400	TEMPERATURE (AI0), Current input negative
18	IW400	Spare: Analog Input (AI0) Current input negative
19	IW401	Spare: Analog Input (AI1) Current input negative
20	IW401	FLOW (AI1) Current input positive
21	IW402	Spare: Analog Input (AI2) Current input positive
22	IW402	Spare: Analog Input (AI2) Current input negative
23	IW403	Spare: Analog Input (AI3) Current input negative
24	IW403	Spare: Analog Input (AI3) Current input positive
25	Q200.0	TAPER CLEANING
26	Q200.1	TOOL RELEASE (TOOL CHANGE)
27	Q200.2	PART CLEAN - BLOW
28	Q200.3	Spare: Digital Output (DQ3) Ch. 3

Cable parts	SIE.6FX5002-2DC20-1AF0
Order number	6FX5002-2DC20-1AF0

Location designation	Source	Function text source	Stopper	L1 [mm]	Part number



Part number	L2 [mm]	Stopper	Function text target	Target	Location designation

Think-PLC_CableDiagram_NFPA_mm-Rev4