

# Drawing List

No.	Drawing Title
1	DRAWING LIST 1
2	Outline Drawing
3	Inside Layout Drawing
4	POWER DISTRIBUTION DRAWING 1
5	POWER DISTRIBUTION DRAWING 2
6	POWER DISTRIBUTION DRAWING 3
7	POWER DISTRIBUTION DRAWING 4
8	PLC CONFIGURATION DRAWING 1
9	PLC I/O DRAWING 1
10	PLC I/O DRAWING 2
11	PLC I/O DRAWING 3
12	PLC I/O DRAWING 4
13	PLC I/O DRAWING 5
14	PLC I/O DRAWING 6
15	PLC I/O DRAWING 7
16	INTERNAL CIRCUIT DIAGRAM 1
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No.	Drawing Title
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39	INTERNAL PARTS LIST 1
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WIRE COLOR CODE (IEC 60757)

BK : BLACK  
 BN : BROWN  
 RD : RED  
 OG : ORANGE  
 GN : GREEN  
 BU : DARK BLUE  
 LB : LIGHT BLUE  
 GY : GREY  
 WH : WHITE  
 GNYE : GREEN AND YELLOW  
 SH : SCREENING METAL

IDENTIFICATION OF WIRING

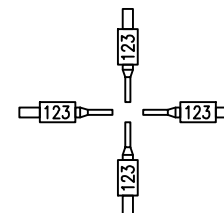
AC POWER CIRCUITS: BROWN (L) AND LIGHT BLUE (N)  
 AC CONTROL CIRCUITS: BROWN (L) AND LIGHT BLUE (N)  
 DC POWER CIRCUITS: DARK BLUE  
 DC CONTROL CIRCUITS: DARK BLUE  
 DRY CONTACT CIRCUITS: ORANGE  
 PROTECTIVE EARTH: YELLOW/GREEN  
 INSTRUMENT EARTH: GREEN  
 INTRINSIC SAFETY EARCH: GREEN

MINIMUM CROSS SECTION OF CABLE AND WIRES

POWER CIRCUITS :  $\leq 4.0\text{mm}^2$   
 CONTROL CIRCUITS (DRY CONTACT) :  $1.0\text{mm}^2$   
 CONTROL CIRCUITS :  $1.0\text{mm}^2$   
 PLC/I/O CIRCUITS:  $0.75\text{mm}^2$   
 ANALOG CIRCUITS:  $0.75\text{mm}^2$

WIRE TERMINAL & MARKER

ALL WIRING SHALL USE CRIMP TERMINALS  
 THE SHAPE OF THE CRIMP TERMINAL SHALL BE SUITABLE FOR TERMINAL  
 NO MORE THAN TWO WIRES CONNECTED TO ANY ONE TERMINAL  
 ALL CONTROL CIRCUITS SHALL BE MARKED ON EACH END  
 WITH PERMANENTLY-EMBOSSED WIRE MARKERS AS FOLLOWS:  
 WHITE HEAT SHRINK TYPE WITH BLACK LETTERS



REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED	COMPANY
0	6/01/25	First issue	SV	-	-	-

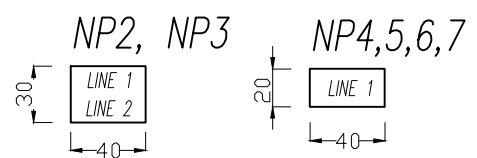
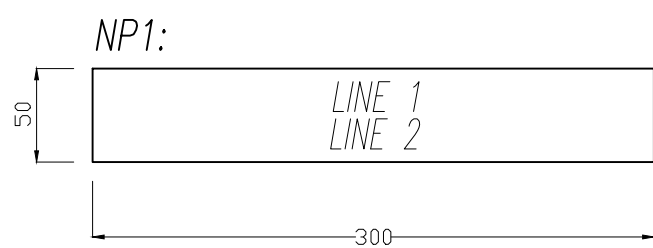
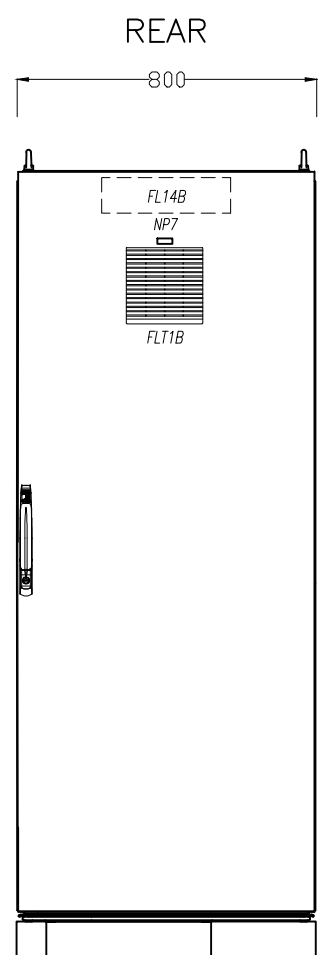
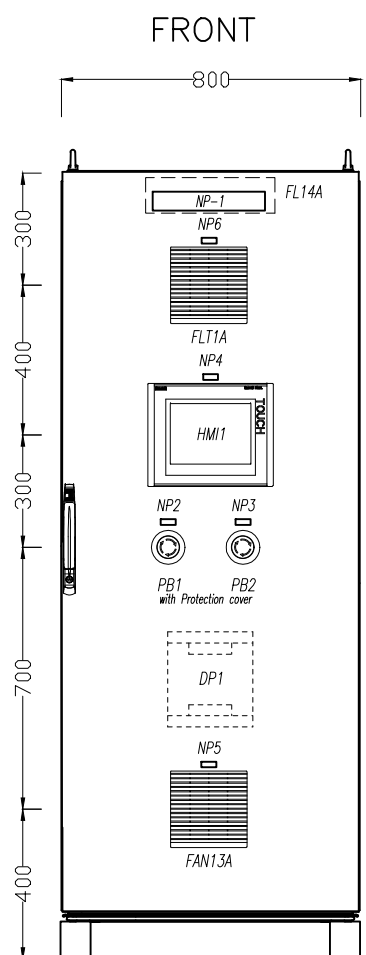
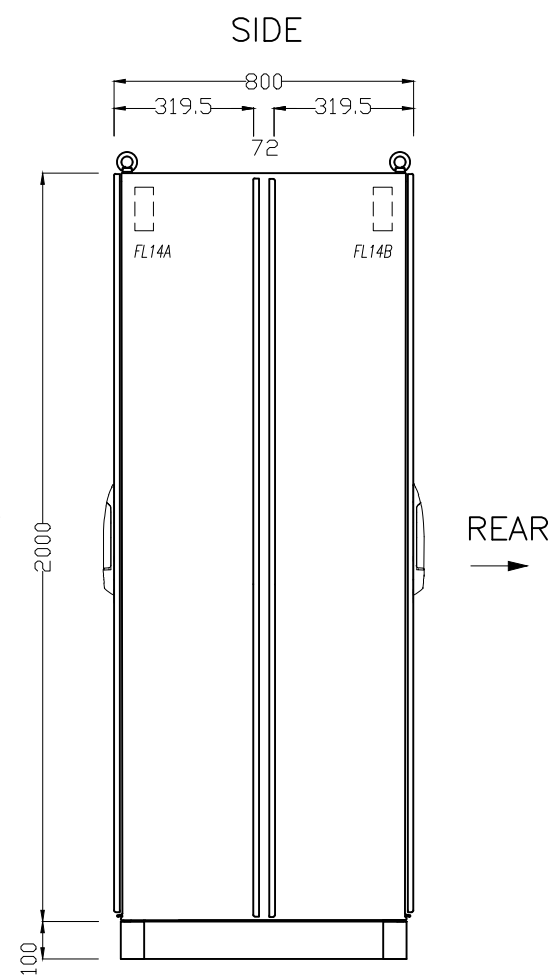
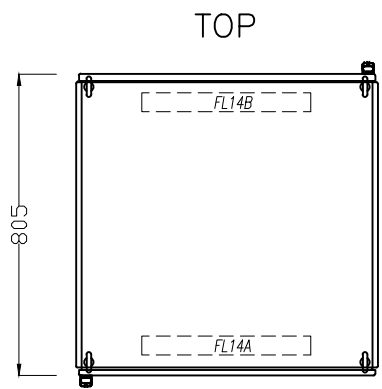
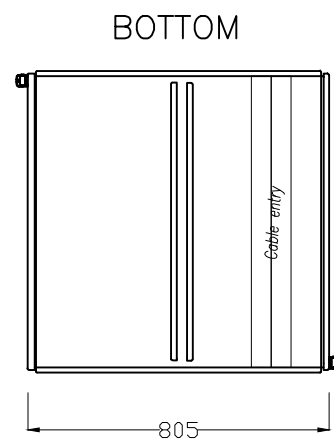
CLIENT: \_\_\_\_\_ CONSULTING ENGINEER: \_\_\_\_\_

VENDOR: \_\_\_\_\_

PROJECT: **PR200**

DRAWING TITLE: **PLC Wiring and Layout Drawing**

DRAWING NO.	REV.	SIZE	SCALE	SHEET
E1027-HSE-VD-IN-DIG-008	RO	A3	NA	1 / 40



Name plate comment (1'st set)

TAG	Name Plate Description	
	LINE 1	LINE 2
NP-1	UCP-RU0001	REFRIGERATION PACKAGE
NP-2	EMERGENCY STOP	ESD-RU0001A-01
NP-3	EMERGENCY STOP	ESD-RU0001B-01
NP-4	HMI	
NP-5	FAN	
NP-6	FILTER	
NP-7	FILTER	
NP-8		
NP-9		
NP-10		

GENERAL NOTES

**ENCLOSURE**

MODEL: RITTAL VX 8808.000/ VX 8108.245  
 2nd mounting plate VX 5051.043 + 5051.045  
 BASE: RITTAL VX 8660.003/ VX 8660.034  
 Door Lock: RITTAL VX 8618.200/ TS 8611.180  
 COLOR: CABINET: RAL 7035  
 BASE: RAL 7022  
 PRO.CLASS: IP54  
 CABLE ENTRY: VX 8618.8111 x1 (REAR / Bottom)

FILTER: SK 3239.300 x2 (FLT1A/FLT1B)  
 FAN: SK 3239.700 x1 (FAN13A)  
 DOC. POCKET: SZ 2514.000 (A4) x1 (DP1)  
 PANEL LIGHT: SZ 2500.310 x2 (FL14A/FL14B)

**NAME PLATE**

MATERIAL: LAMINATED PLASTIC  
 PLATE COLOR: WHITE  
 LETTER COLOR: BLACK  
 FIXING: SELF ADHESIVE

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PROJECT: **PR200**

DRAWING TITLE: **PLC Wiring and Layout Drawing**

DRAWING NO.	REV.	SIZE	SCALE	SHEET
EI027-HSE-VD-IN-DIG-008	RO	A3	NA	2 / 40

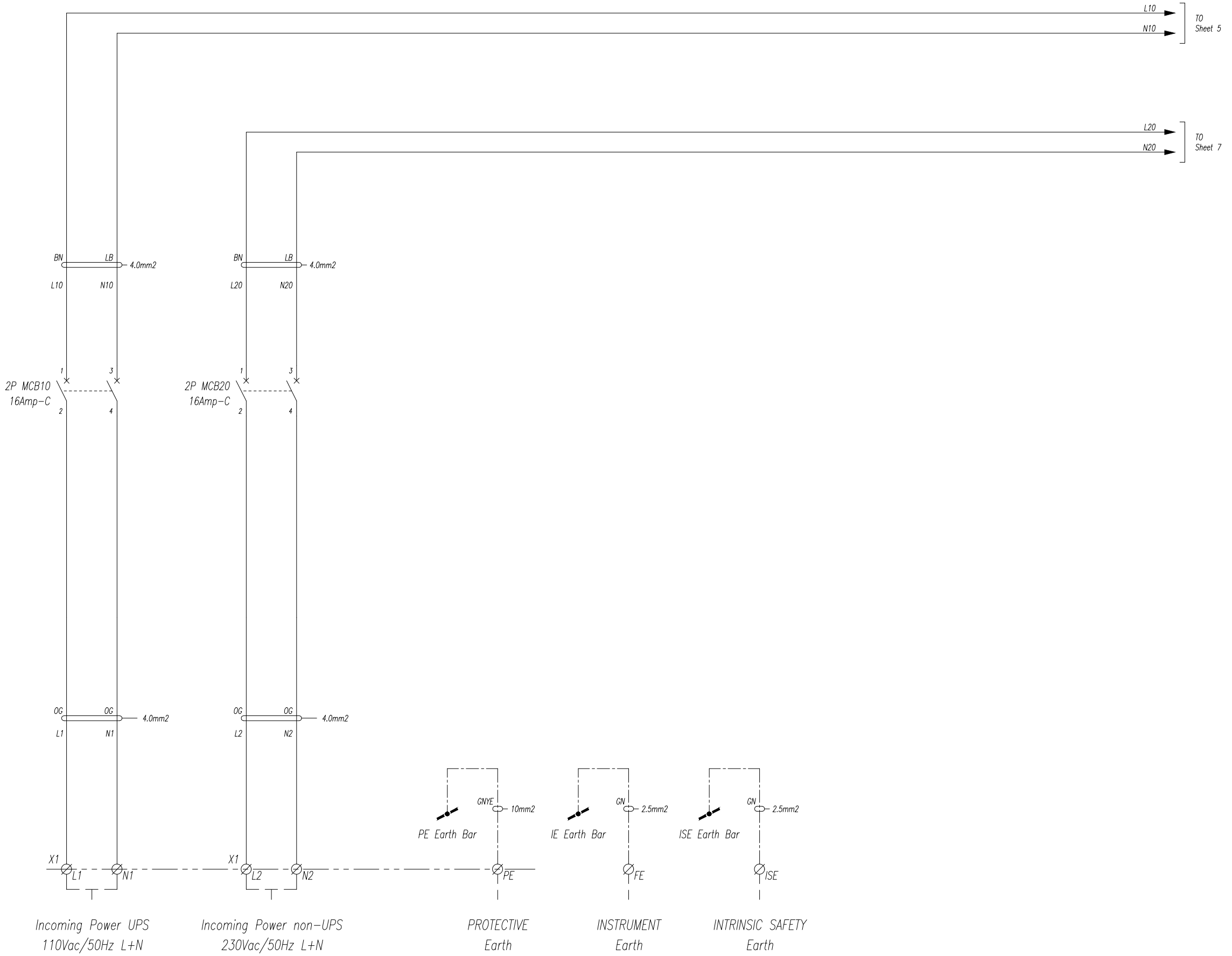


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WIRE MARKER

White heat shrink type with Black letter



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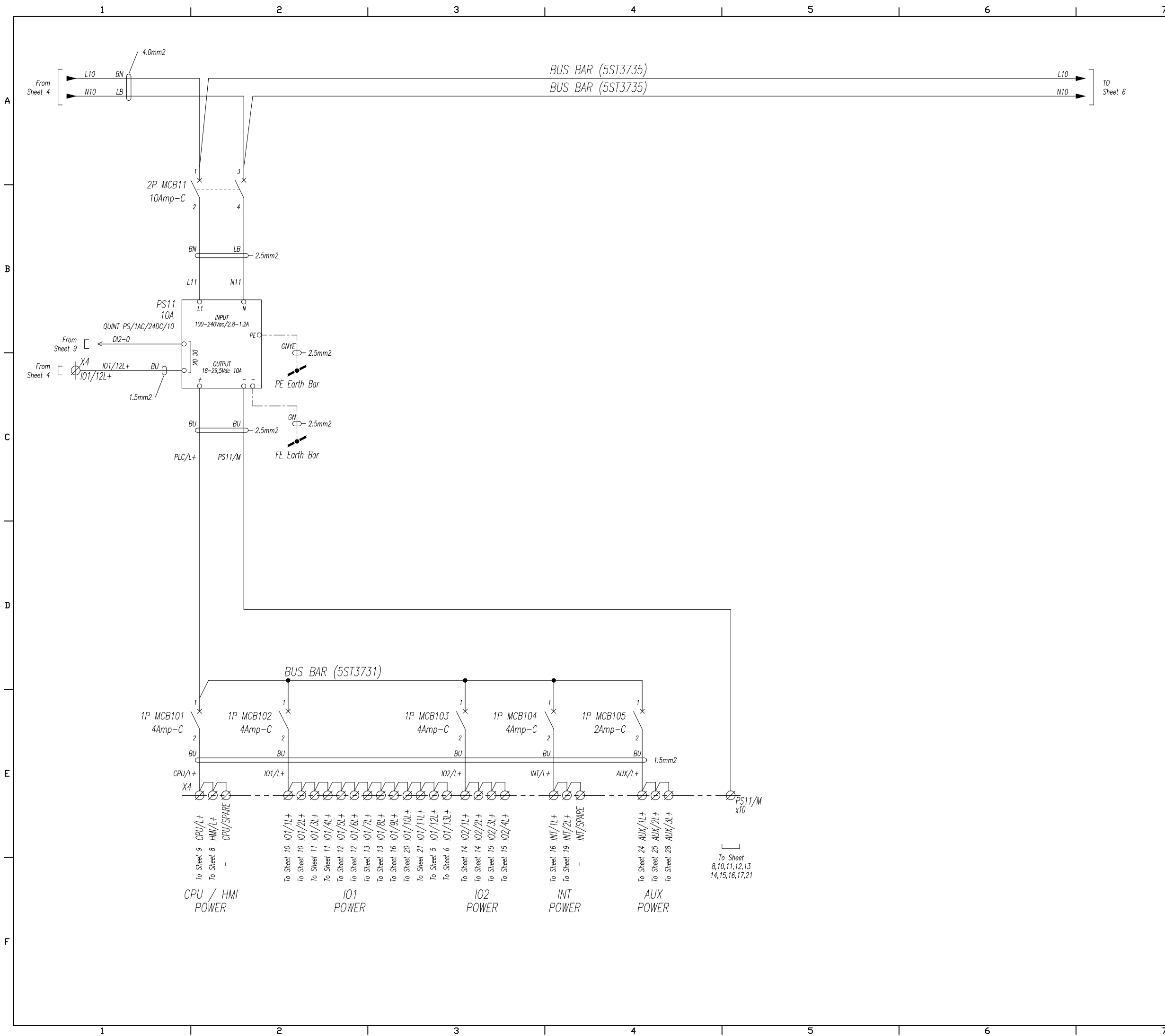
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VENDOR: \_\_\_\_\_

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DRAWING TITLE: **PLC Wiring and Layout Drawing**

DRAWING NO.	REV.	SIZE	SCALE	SHEET
E1027-HSE-VD-IN-DIG-008	RO	A3	NA	4 / 40



GENERAL NOTES

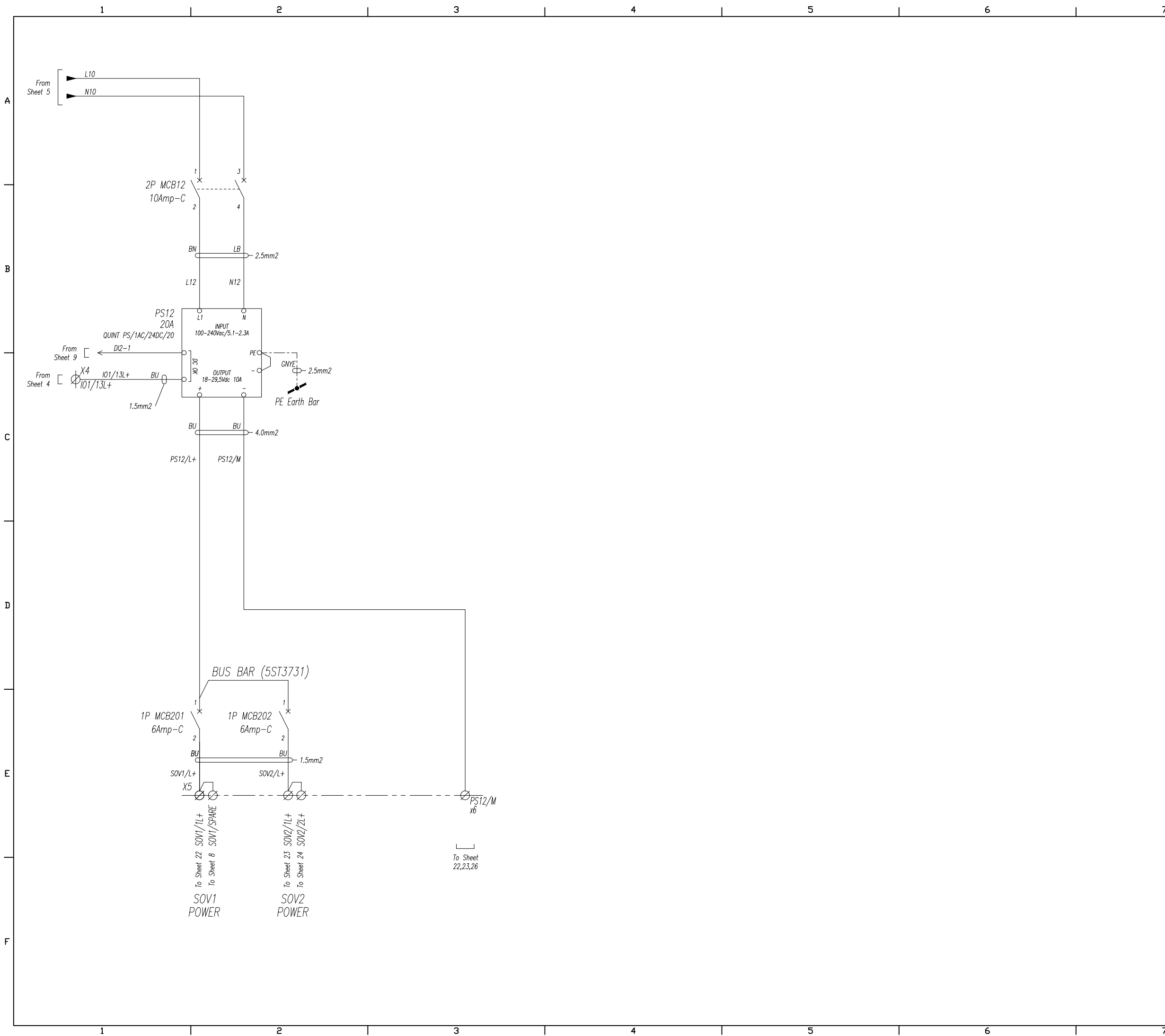
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PROJECT: <b>PR200</b>					
DRAWING TITLE: <b>PLC Wiring and Layout Drawing</b>					
DRAWING NO.		REV.	SIZE	SCALE	SHEET
E1027-HSE-VD-IN-DIG-008		RO	A3	NA	5 / 40



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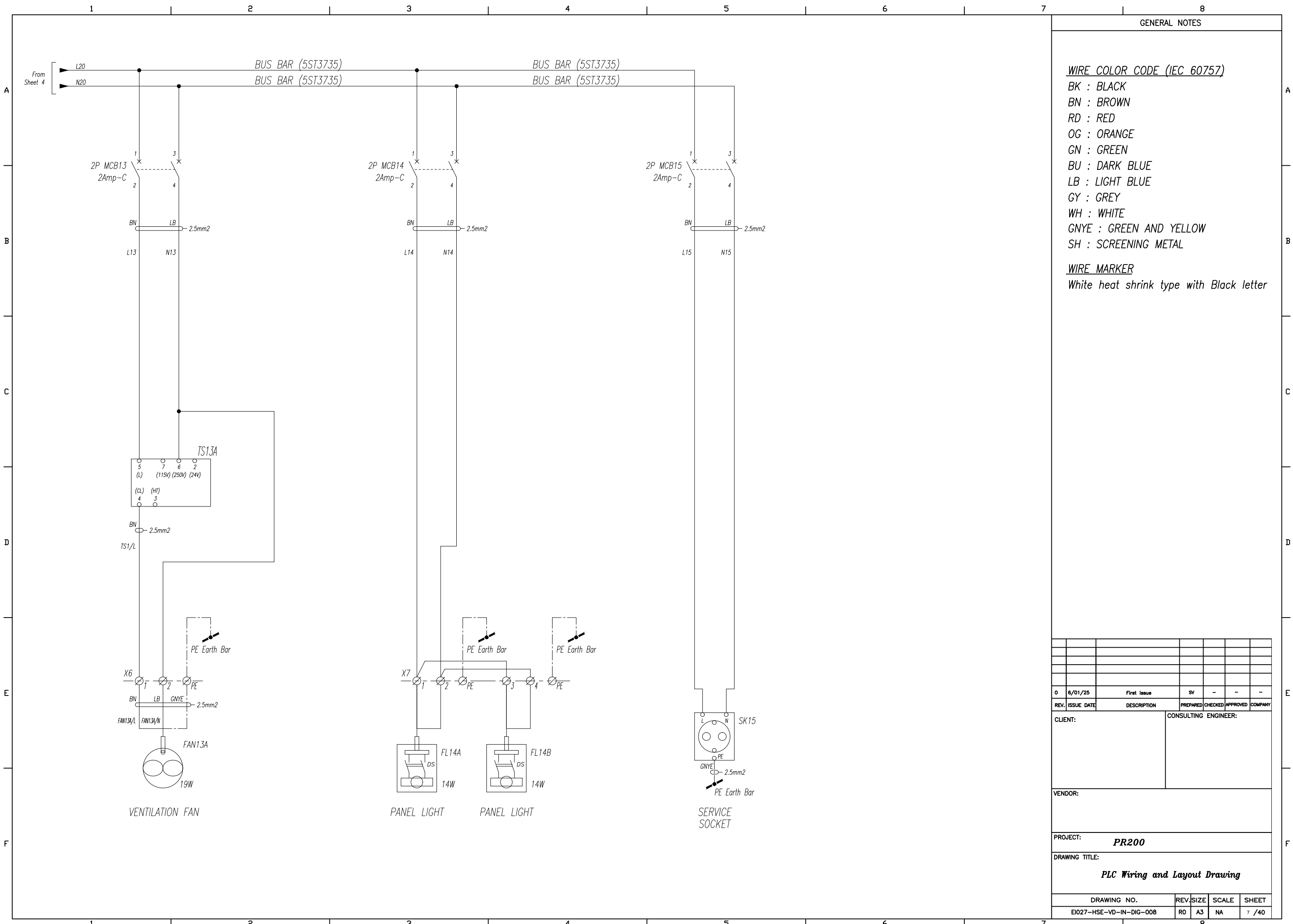
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VENDOR: \_\_\_\_\_

PROJECT: **PR200**

DRAWING TITLE: **PLC Wiring and Layout Drawing**

DRAWING NO.	REV.	SIZE	SCALE	SHEET
EI027-HSE-VD-IN-DIG-008	RO	A3	NA	6 / 40



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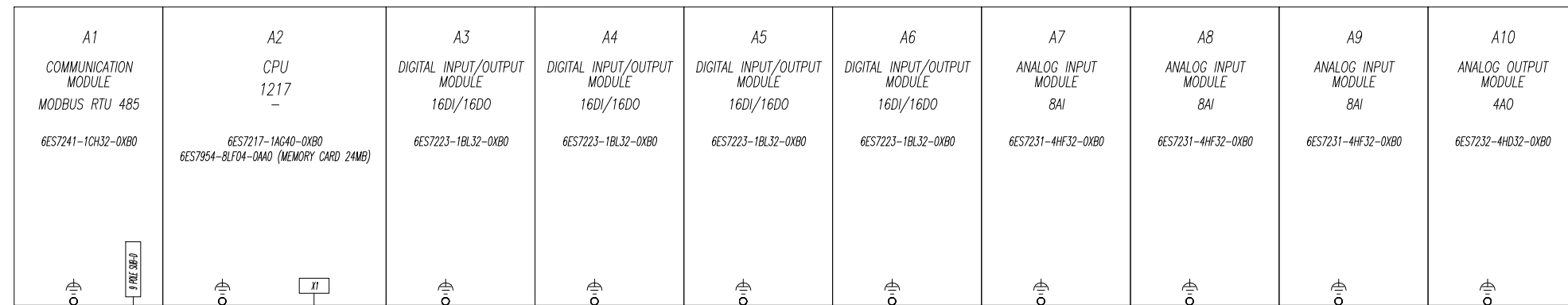
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VENDOR: \_\_\_\_\_

PROJECT: **PR200**

DRAWING TITLE: **PLC Wiring and Layout Drawing**

DRAWING NO.	REV.	SIZE	SCALE	SHEET
EI027-HSE-VD-IN-DIG-008	RO	A3	NA	7 / 40

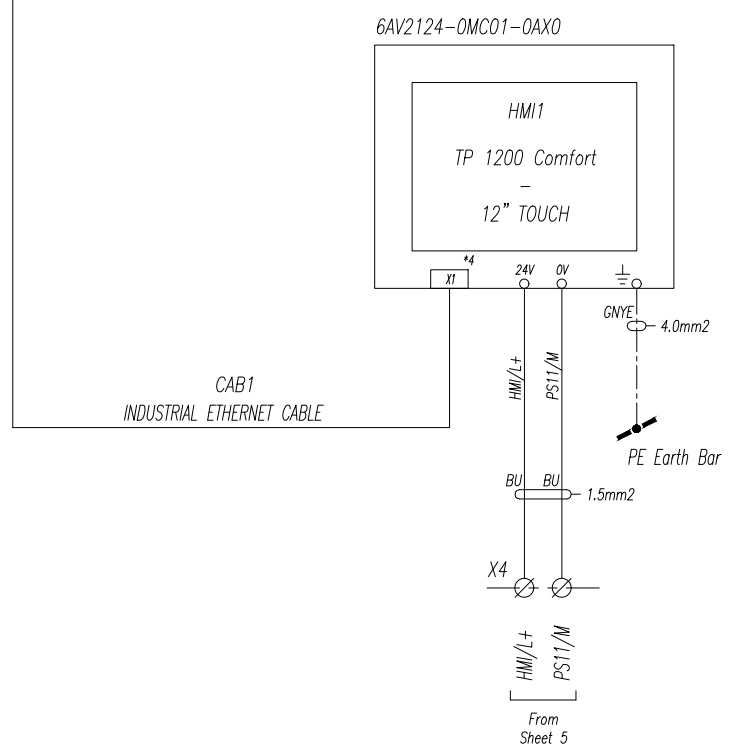


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MODBUS RTU  
FROM DCS  
9 POLE D-SUB SOCKET

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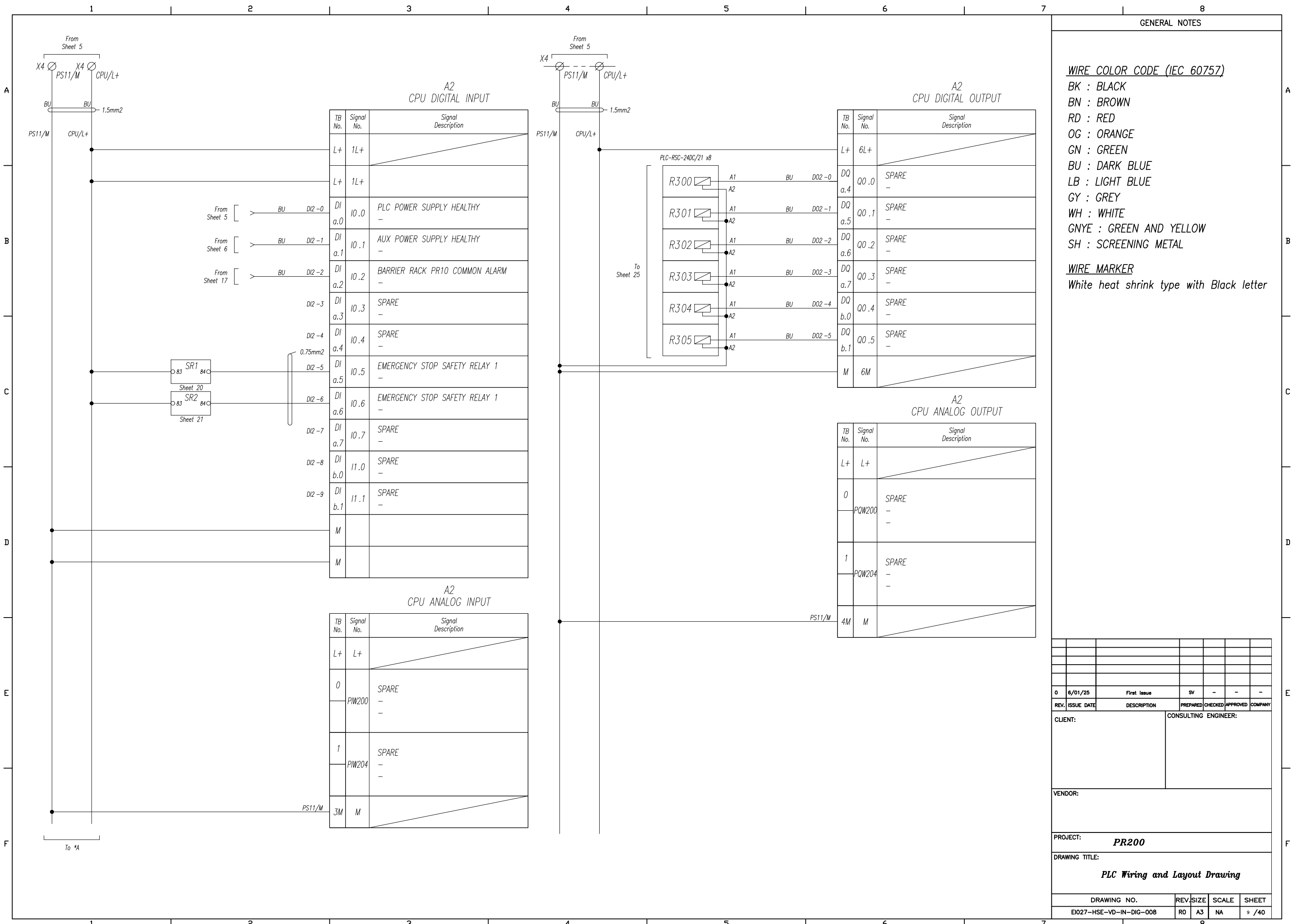
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PROJECT: **PR200**

DRAWING TITLE:  
**PLC Wiring and Layout Drawing**

DRAWING NO.	REV.	SIZE	SCALE	SHEET
EI027-HSE-VD-IN-DIG-008	RO	A3	NA	8 / 40



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**A2  
CPU DIGITAL INPUT**

TB No.	Signal No.	Signal Description
L+	1L+	
L+	1L+	
DI a.0	10.0	PLC POWER SUPPLY HEALTHY
DI a.1	10.1	AUX POWER SUPPLY HEALTHY
DI a.2	10.2	BARRIER RACK PR10 COMMON ALARM
DI a.3	10.3	SPARE
DI a.4	10.4	SPARE
DI a.5	10.5	EMERGENCY STOP SAFETY RELAY 1
DI a.6	10.6	EMERGENCY STOP SAFETY RELAY 1
DI a.7	10.7	SPARE
DI b.0	11.0	SPARE
DI b.1	11.1	SPARE
M		
M		

**A2  
CPU ANALOG INPUT**

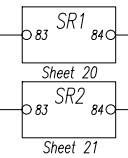
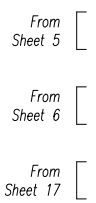
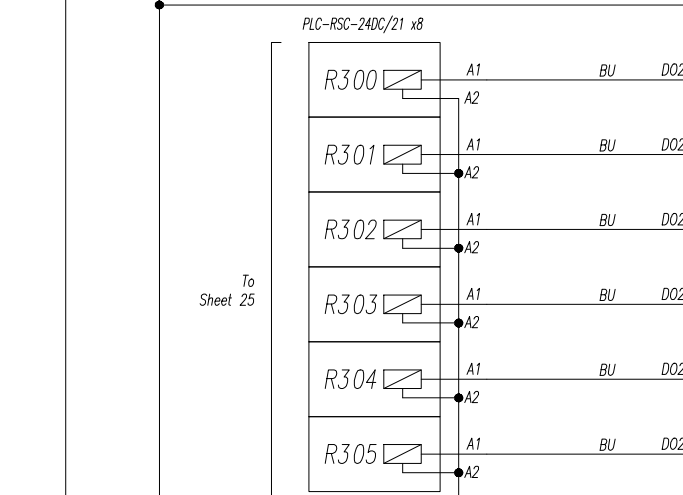
TB No.	Signal No.	Signal Description
L+	L+	
0	PIW200	SPARE
1	PIW204	SPARE
3M	M	

**A2  
CPU DIGITAL OUTPUT**

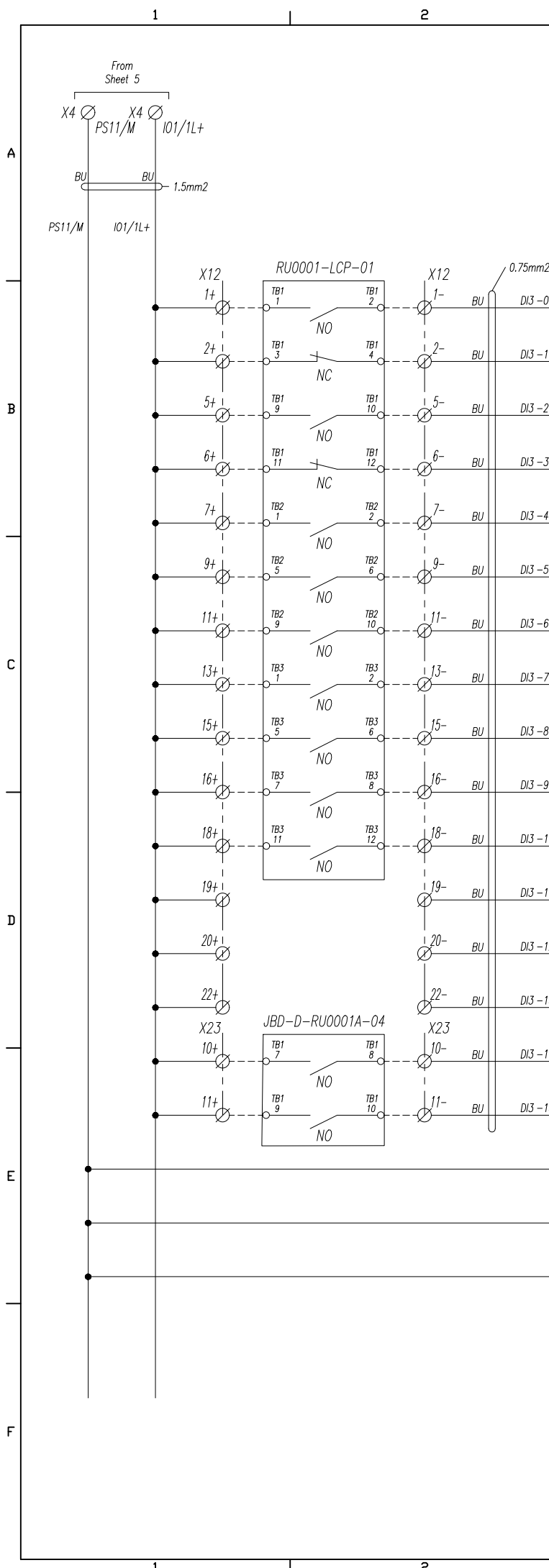
TB No.	Signal No.	Signal Description
L+	6L+	
DQ a.4	Q0.0	SPARE
DQ a.5	Q0.1	SPARE
DQ a.6	Q0.2	SPARE
DQ a.7	Q0.3	SPARE
DQ b.0	Q0.4	SPARE
DQ b.1	Q0.5	SPARE
M	6M	

**A2  
CPU ANALOG OUTPUT**

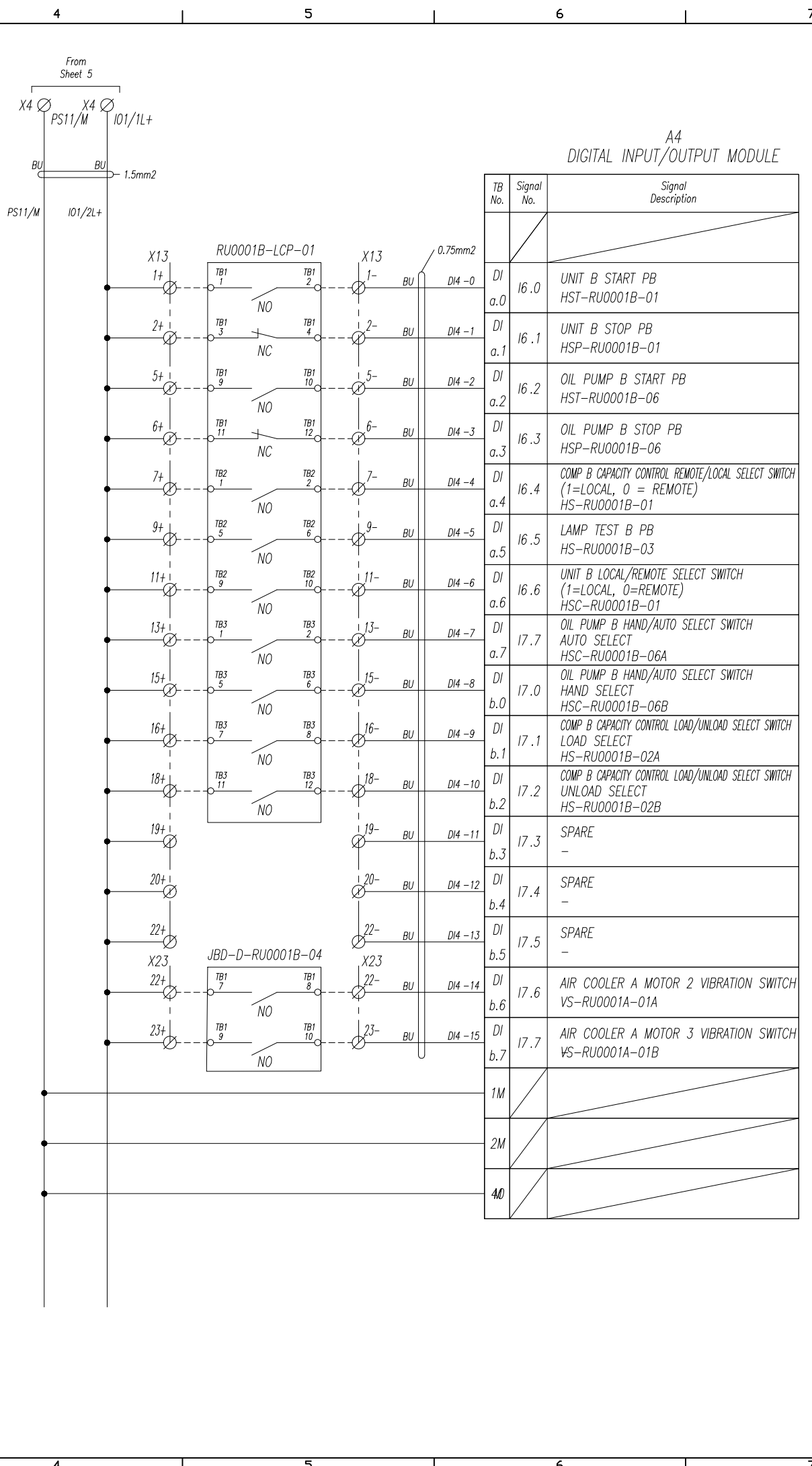
TB No.	Signal No.	Signal Description
L+	L+	
0	PQW200	SPARE
1	PQW204	SPARE
4M	M	



0	6/01/25	First Issue	SV	-	-
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PROJECT: <b>PR200</b>					
DRAWING TITLE: <b>PLC Wiring and Layout Drawing</b>					
DRAWING NO.		REV.	SIZE	SCALE	SHEET
E1027-HSE-VD-IN-DIG-008		RO	A3	NA	9 / 40



TB No.	Signal No.	Signal Description
DI a.0	14.0	UNIT A START PB HST-RU0001A-01
DI a.1	14.1	UNIT A STOP PB HSP-RU0001A-01
DI a.2	14.2	OIL PUMP START PB HST-RU0001A-06
DI a.3	14.3	OIL PUMP STOP PB HSP-RU0001A-06
DI a.4	14.4	COMP CAPACITY CONTROL REMOTE/LOCAL SELECT SWITCH (1=LOCAL, 0 = REMOTE) HS-RU0001A-01
DI a.5	14.5	LAMP TEST PB HS-RU0001A-03
DI a.6	14.6	UNIT A LOCAL/REMOTE SELECT SWITCH (1=LOCAL, 0=REMOTE) HSC-RU0001A-01
DI a.7	14.7	OIL PUMP HAND/AUTO SELECT SWITCH AUTO SELECT HSC-RU0001A-06A
DI b.0	15.0	OIL PUMP HAND/AUTO SELECT SWITCH HAND SELECT HSC-RU0001A-06B
DI b.1	15.1	COMP CAPACITY CONTROL LOAD/UNLOAD SELECT SWITCH LOAD SELECT HS-RU0001A-02A
DI b.2	15.2	COMP CAPACITY CONTROL LOAD/UNLOAD SELECT SWITCH UNLOAD SELECT HS-RU0001A-02B
DI b.3	15.3	SPARE
DI b.4	15.4	SPARE
DI b.5	15.5	SPARE
DI b.6	15.6	AIR COOLER A MOTOR 2 VIBRATION SWITCH VS-RU0001A-01A
DI b.7	15.7	AIR COOLER A MOTOR 3 VIBRATION SWITCH VS-RU0001A-01B
1M		
2M		
M		



TB No.	Signal No.	Signal Description
DI a.0	16.0	UNIT B START PB HST-RU0001B-01
DI a.1	16.1	UNIT B STOP PB HSP-RU0001B-01
DI a.2	16.2	OIL PUMP B START PB HST-RU0001B-06
DI a.3	16.3	OIL PUMP B STOP PB HSP-RU0001B-06
DI a.4	16.4	COMP B CAPACITY CONTROL REMOTE/LOCAL SELECT SWITCH (1=LOCAL, 0 = REMOTE) HS-RU0001B-01
DI a.5	16.5	LAMP TEST B PB HS-RU0001B-03
DI a.6	16.6	UNIT B LOCAL/REMOTE SELECT SWITCH (1=LOCAL, 0=REMOTE) HSC-RU0001B-01
DI a.7	17.7	OIL PUMP B HAND/AUTO SELECT SWITCH AUTO SELECT HSC-RU0001B-06A
DI b.0	17.0	OIL PUMP B HAND/AUTO SELECT SWITCH HAND SELECT HSC-RU0001B-06B
DI b.1	17.1	COMP B CAPACITY CONTROL LOAD/UNLOAD SELECT SWITCH LOAD SELECT HS-RU0001B-02A
DI b.2	17.2	COMP B CAPACITY CONTROL LOAD/UNLOAD SELECT SWITCH UNLOAD SELECT HS-RU0001B-02B
DI b.3	17.3	SPARE
DI b.4	17.4	SPARE
DI b.5	17.5	SPARE
DI b.6	17.6	AIR COOLER A MOTOR 2 VIBRATION SWITCH VS-RU0001A-01A
DI b.7	17.7	AIR COOLER A MOTOR 3 VIBRATION SWITCH VS-RU0001A-01B
1M		
2M		
40		

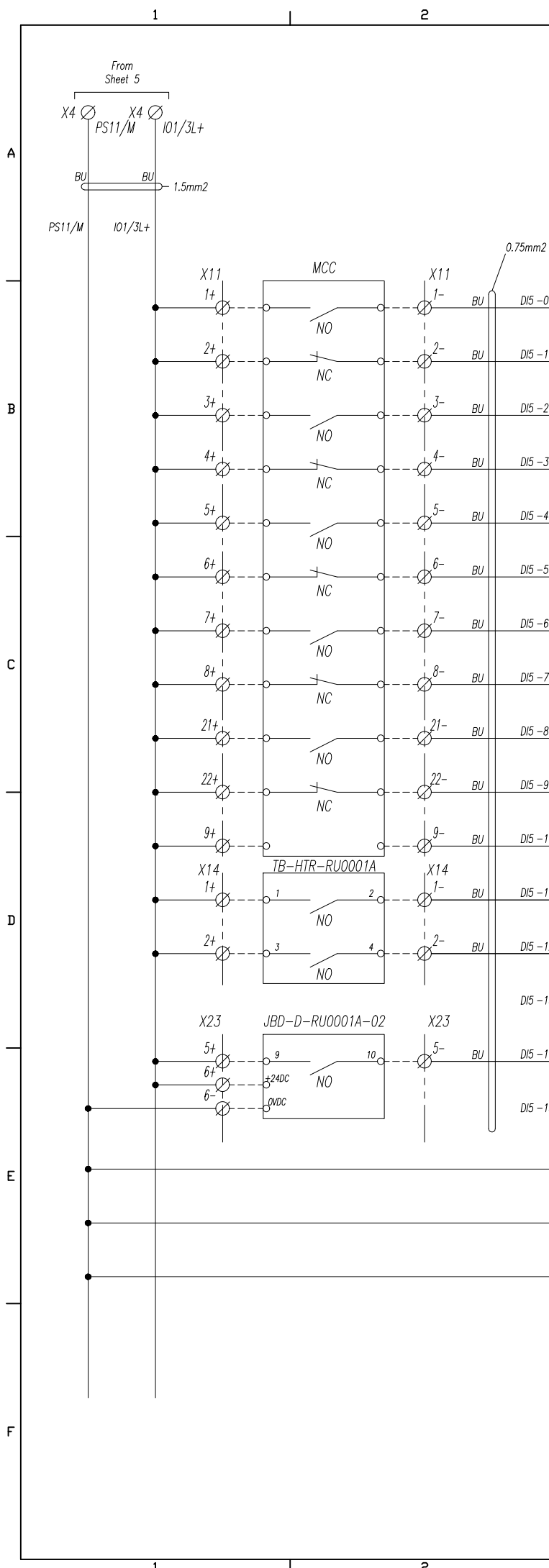
**GENERAL NOTES**

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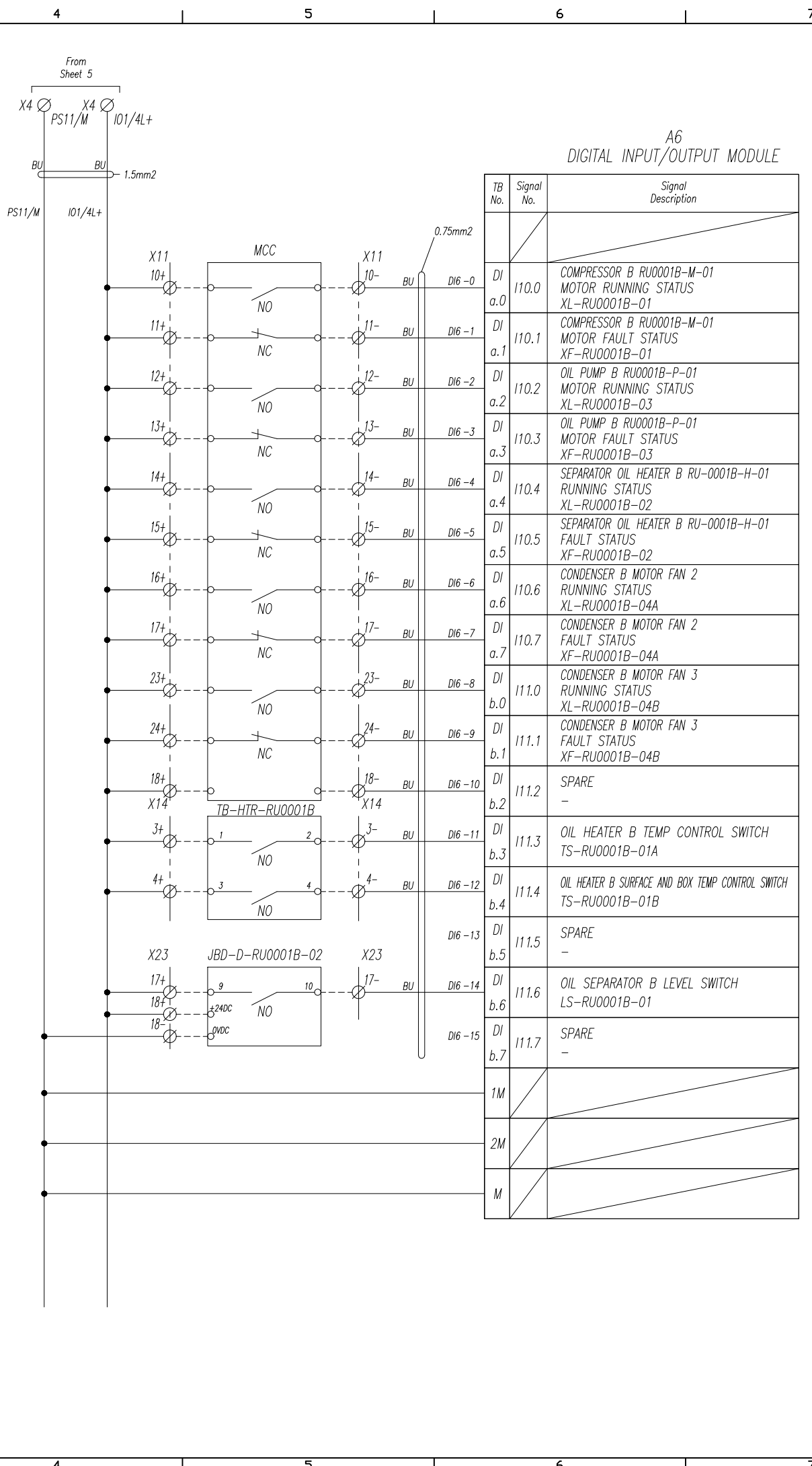
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REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED
CLIENT:			CONSULTING ENGINEER:		
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PROJECT: <b>PR200</b>					
DRAWING TITLE: <b>PLC Wiring and Layout Drawing</b>					
DRAWING NO. E1027-HSE-VD-IN-DIG-008		REV. R0	SIZE A3	SCALE NA	SHEET 10/40



TB No.	Signal No.	Signal Description
DI a.0	18.0	COMPRESSOR A RU0001A-M-01 MOTOR RUNNING STATUS XL-RU0001A-01
DI a.1	18.1	COMPRESSOR A RU0001A-M-01 MOTOR FAULT STATUS XF-RU0001A-01
DI a.2	18.2	OIL PUMP A RU0001A-P-01 MOTOR RUNNING STATUS XL-RU0001A-03
DI a.3	18.3	OIL PUMP A RU0001A-P-01 MOTOR FAULT STATUS XF-RU0001A-03
DI a.4	18.4	SEPARATOR OIL HEATER A RU-0001A-H-01 RUNNING STATUS XL-RU0001A-02
DI a.5	18.5	SEPARATOR OIL HEATER A RU-0001A-H-01 FAULT STATUS XF-RU0001A-02
DI a.6	18.6	CONDENSER A MOTOR FAN 2 RUNNING STATUS XL-RU0001A-04A
DI a.7	18.7	CONDENSER A MOTOR FAN 2 FAULT STATUS XF-RU0001A-04A
DI b.0	19.0	CONDENSER A MOTOR FAN 3 RUNNING STATUS XL-RU0001A-04B
DI b.1	19.1	CONDENSER A MOTOR FAN 3 FAULT STATUS XF-RU0001A-04B
DI b.2	19.2	SPARE -
DI b.3	19.3	OIL HEATER A TEMP CONTROL SWITCH TS-RU0001A-01A
DI b.4	19.4	OIL HEATER A SURFACE AND BOX TEMP CONTROL SWITCH TS-RU0001A-01B
DI b.5	19.5	SPARE -
DI b.6	19.6	OIL SEPARATOR A LEVEL SWITCH LS-RU0001A-01
DI b.7	19.7	SPARE -
1M		
2M		
M		



TB No.	Signal No.	Signal Description
DI a.0	110.0	COMPRESSOR B RU0001B-M-01 MOTOR RUNNING STATUS XL-RU0001B-01
DI a.1	110.1	COMPRESSOR B RU0001B-M-01 MOTOR FAULT STATUS XF-RU0001B-01
DI a.2	110.2	OIL PUMP B RU0001B-P-01 MOTOR RUNNING STATUS XL-RU0001B-03
DI a.3	110.3	OIL PUMP B RU0001B-P-01 MOTOR FAULT STATUS XF-RU0001B-03
DI a.4	110.4	SEPARATOR OIL HEATER B RU-0001B-H-01 RUNNING STATUS XL-RU0001B-02
DI a.5	110.5	SEPARATOR OIL HEATER B RU-0001B-H-01 FAULT STATUS XF-RU0001B-02
DI a.6	110.6	CONDENSER B MOTOR FAN 2 RUNNING STATUS XL-RU0001B-04A
DI a.7	110.7	CONDENSER B MOTOR FAN 2 FAULT STATUS XF-RU0001B-04A
DI b.0	111.0	CONDENSER B MOTOR FAN 3 RUNNING STATUS XL-RU0001B-04B
DI b.1	111.1	CONDENSER B MOTOR FAN 3 FAULT STATUS XF-RU0001B-04B
DI b.2	111.2	SPARE -
DI b.3	111.3	OIL HEATER B TEMP CONTROL SWITCH TS-RU0001B-01A
DI b.4	111.4	OIL HEATER B SURFACE AND BOX TEMP CONTROL SWITCH TS-RU0001B-01B
DI b.5	111.5	SPARE -
DI b.6	111.6	OIL SEPARATOR B LEVEL SWITCH LS-RU0001B-01
DI b.7	111.7	SPARE -
1M		
2M		
M		

GENERAL NOTES

WIRE COLOR CODE (IEC 60757)

- BK : BLACK
- BN : BROWN
- RD : RED
- OG : ORANGE
- GN : GREEN
- BU : DARK BLUE
- LB : LIGHT BLUE
- GY : GREY
- WH : WHITE
- GNYE : GREEN AND YELLOW
- SH : SCREENING METAL

WIRE MARKER

White heat shrink type with Black letter

REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED	COMPANY
0	6/01/25	First Issue	SV	-	-	-

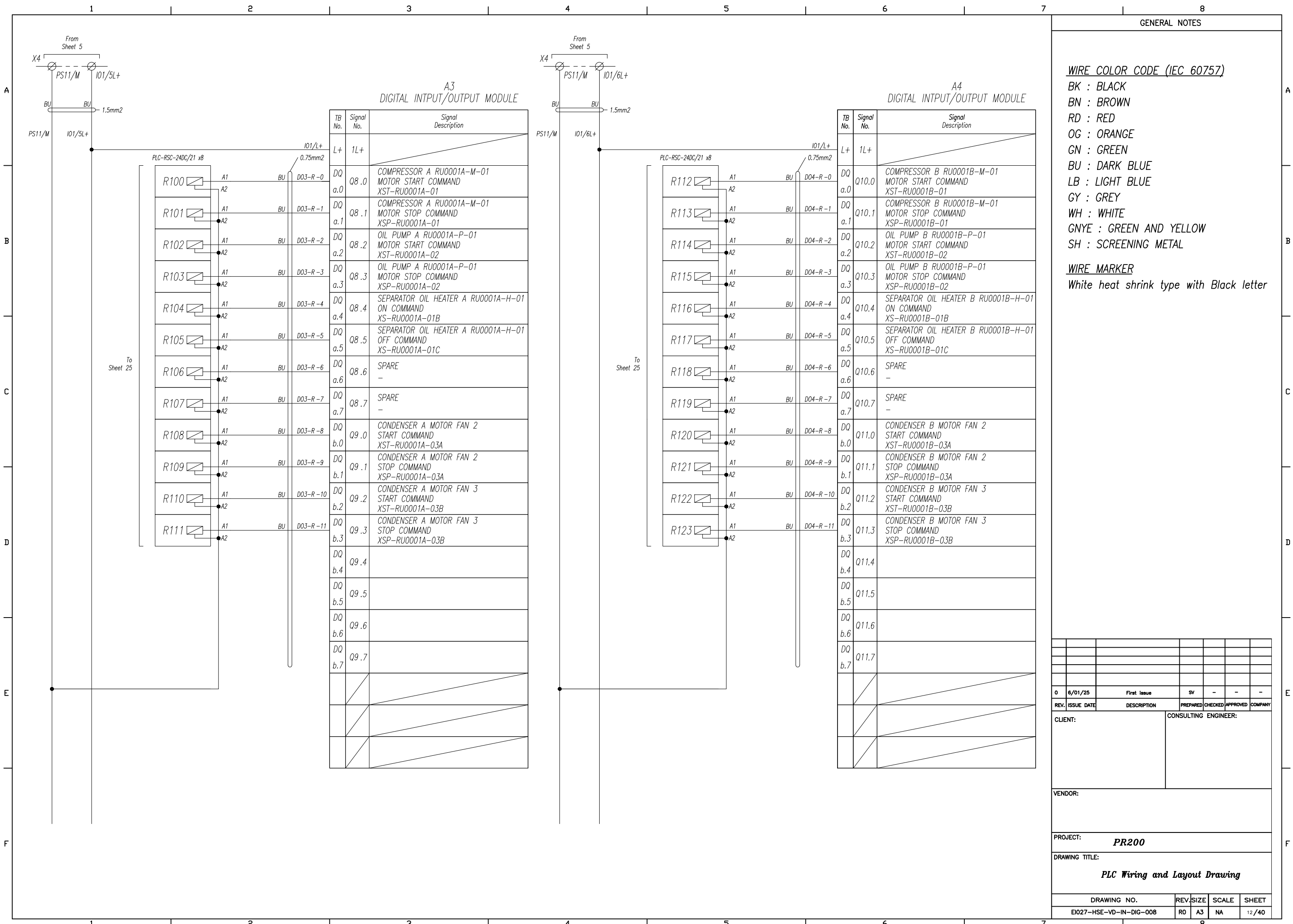
CLIENT: \_\_\_\_\_ CONSULTING ENGINEER: \_\_\_\_\_

VENDOR: \_\_\_\_\_

PROJECT: **PR200**

DRAWING TITLE: **PLC Wiring and Layout Drawing**

DRAWING NO.	REV.	SIZE	SCALE	SHEET
EI027-HSE-VD-IN-DIG-008	RO	A3	NA	11/40



GENERAL NOTES

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WIRE MARKER

White heat shrink type with Black letter

0	6/01/25	First Issue	SV	-	-	-
REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED	COMPANY

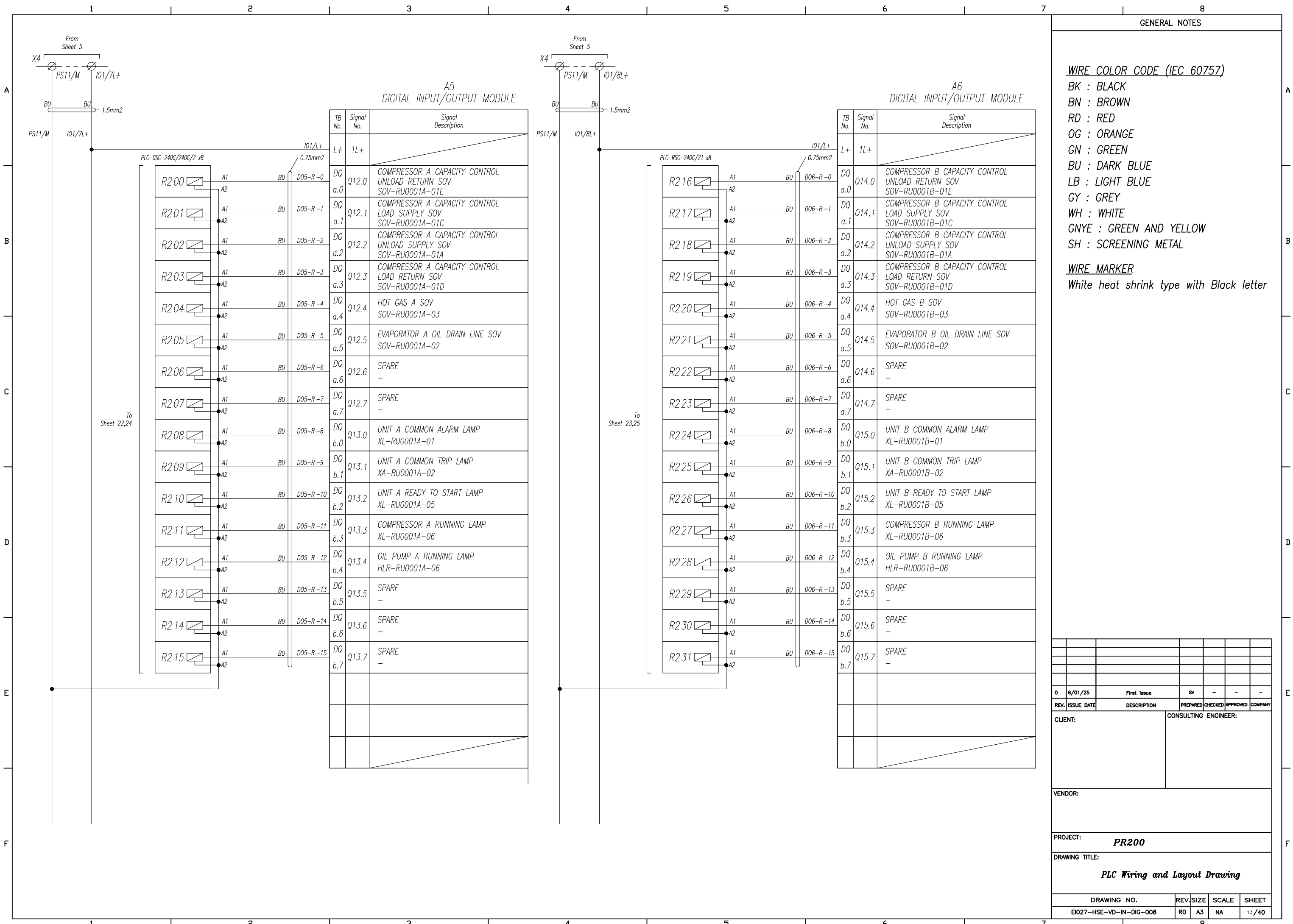
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VENDOR: \_\_\_\_\_

PROJECT: **PR200**

DRAWING TITLE: **PLC Wiring and Layout Drawing**

DRAWING NO.	REV.	SIZE	SCALE	SHEET
EI027-HSE-VD-IN-DIG-008	RO	A3	NA	12/40



GENERAL NOTES

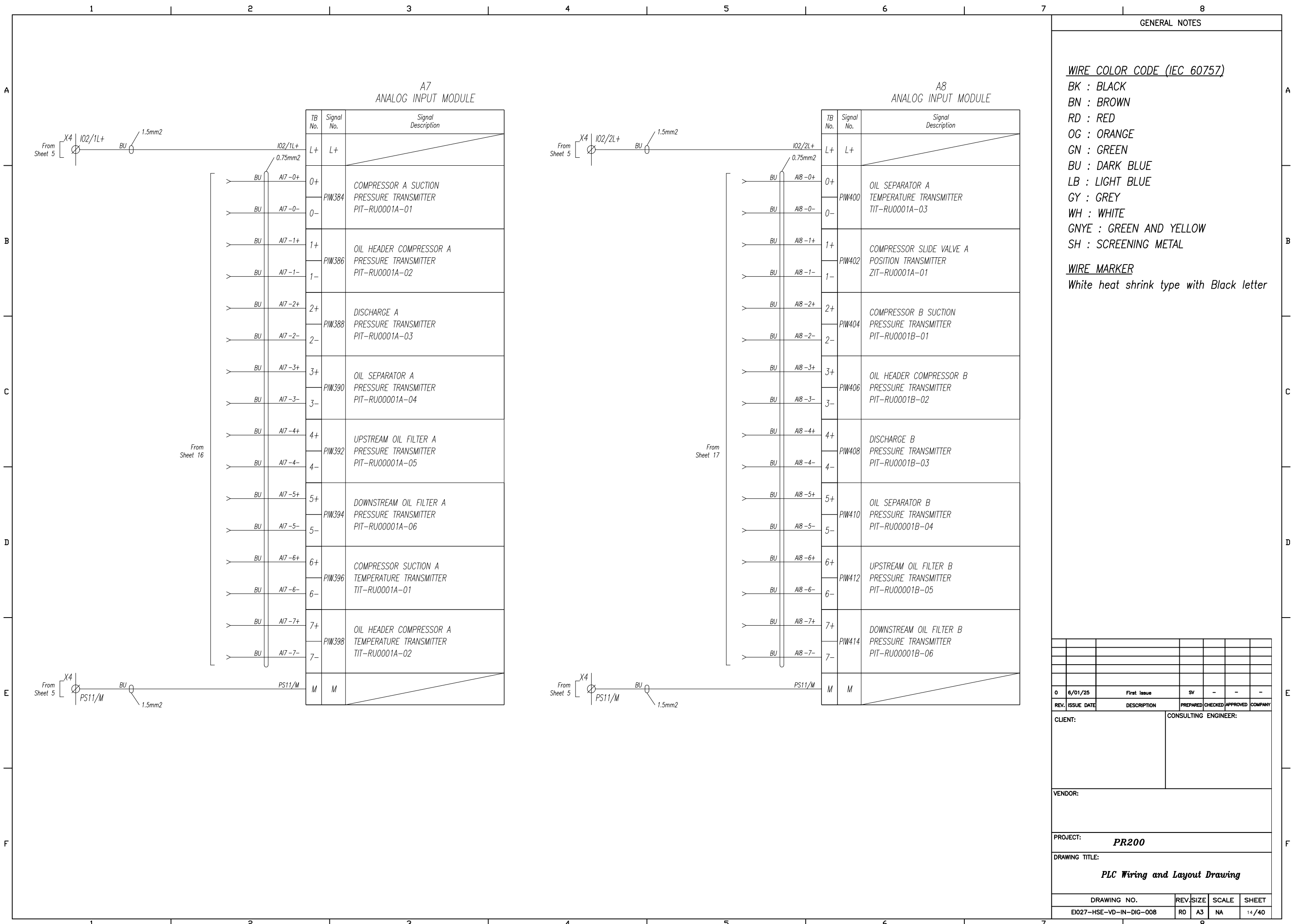
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WIRE MARKER

White heat shrink type with Black letter

0	6/01/25	First Issue	SV	-	-
REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED
CLIENT:			CONSULTING ENGINEER:		
VENDOR:					
PROJECT: <b>PR200</b>					
DRAWING TITLE: <b>PLC Wiring and Layout Drawing</b>					
DRAWING NO.		REV.	SIZE	SCALE	SHEET
E1027-HSE-VD-IN-DIG-008		RO	A3	NA	13/40



GENERAL NOTES

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WIRE MARKER

White heat shrink type with Black letter

REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED	COMPANY
0	6/01/25	First issue	SV	-	-	-

CLIENT: \_\_\_\_\_ CONSULTING ENGINEER: \_\_\_\_\_

VENDOR: \_\_\_\_\_

PROJECT: **PR200**

DRAWING TITLE: **PLC Wiring and Layout Drawing**

DRAWING NO.	REV.	SIZE	SCALE	SHEET
EI027-HSE-VD-IN-DIG-008	RO	A3	NA	14/40

A9  
ANALOG INPUT MODULE

TB No.	Signal No.	Signal Description
L+	L+	
0+	PIW416	COMPRESSOR SUCTION B TEMPERATURE TRANSMITTER TIT-RU0001B-01
0-		
1+	PIW418	OIL HEADER COMPRESSOR B TEMPERATURE TRANSMITTER TIT-RU0001B-02
1-		
2+	PIW420	OIL SEPARATOR B TEMPERATURE TRANSMITTER TIT-RU0001B-03
2-		
3+	PIW422	COMPRESSOR SLIDE VALVE B POSITION TRANSMITTER ZIT-RU0001B-01
3-		
4+	PIW424	CHILLER A LIQUID LEVEL TRANSMITTER LIT-RU0001A-01
4-		
5+	PIW426	CHILLER B LIQUID LEVEL TRANSMITTER LIT-RU0001B-01
5-		
6+	PIW428	COMPRESSOR A MOTOR AMPERAGE II-RU0001A-01
6-		
7+	PIW430	COMPRESSOR B MOTOR AMPERAGE II-RU0001B-01
7-		
M	M	

A10  
ANALOG OUTPUT MODULE

TB No.	Signal No.	Signal Description
L+	L+	
0	PQW448	CHILLER A LEVEL CONTROL VALVE POSITION ORDER LV-RU0001A-01
0M		
1	PQW450	CHILLER B LEVEL CONTROL VALVE POSITION ORDER LV-RU0001B-01
1M		
2	PQW452	CONDENSER A VFD CONTROL - PIC-RU0001A-04
2M		
3	PQW454	CONDENSER B VFD CONTROL - PIC-RU0001B-04
3M		
M	M	

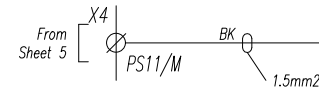
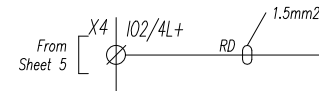
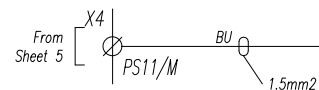
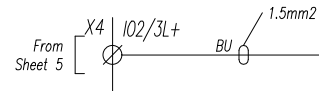
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WIRE MARKER

White heat shrink type with Black letter



REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED	COMPANY
0	6/01/25	First Issue	SV	-	-	-

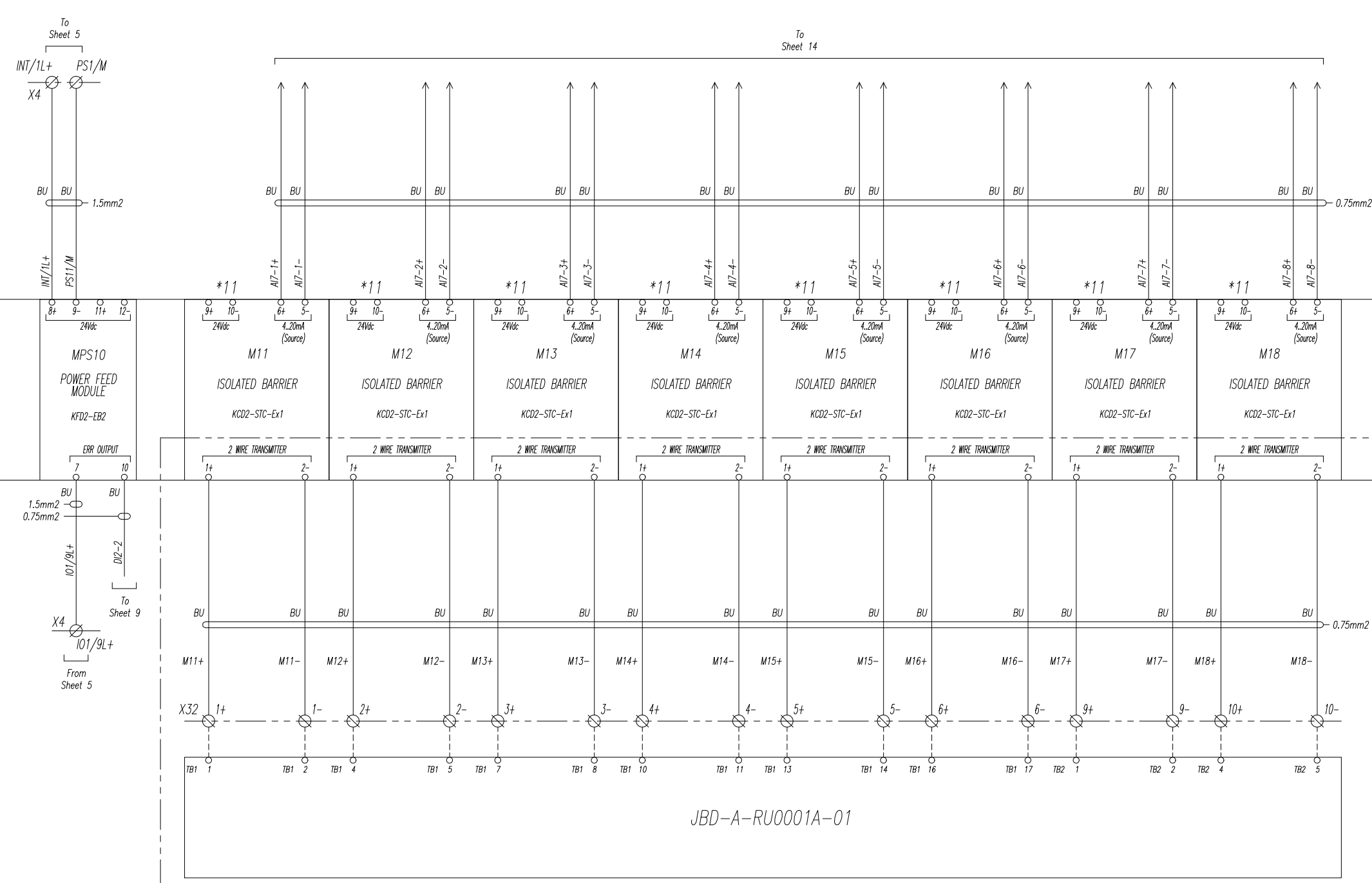
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VENDOR: \_\_\_\_\_

PROJECT: **PR200**

DRAWING TITLE: **PLC Wiring and Layout Drawing**

DRAWING NO.	REV.	SIZE	SCALE	SHEET
EI027-HSE-VD-IN-DIG-008	RO	A3	NA	15/40



JBD-A-RU0001A-01

- COMPRESSOR SUCTION  
PRESSURE TRANSMITTER  
PIT-RU0001A-01
- DISCHARGE  
PRESSURE TRANSMITTER  
PIT-RU0001A-03
- UPSTREAM OIL FILTER  
PRESSURE TRANSMITTER  
PIT-RU00001A-05
- COMPRESSOR SUCTION  
TEMPERATURE TRANSMITTER  
TIT-RU0001A-01
- OIL HEADER COMPRESSOR  
PRESSURE TRANSMITTER  
PIT-RU0001A-02
- OIL SEPARATOR  
PRESSURE TRANSMITTER  
PIT-RU00001A-04
- DOWNSTREAM OIL FILTER  
PRESSURE TRANSMITTER  
PIT-RU00001A-06
- OIL HEADER COMPRESSOR  
TEMPERATURE TRANSMITTER  
TIT-RU0001A-02

NON-IS. CIRCUIT  
IS CIRCUIT

GENERAL NOTES

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WIRE MARKER

White heat shrink type with Black letter

0	6/01/25	First Issue	SV	-	-	-			
REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED	COMPANY			

CLIENT: \_\_\_\_\_ CONSULTING ENGINEER: \_\_\_\_\_

VENDOR: \_\_\_\_\_

PROJECT: **PR200**

DRAWING TITLE: **PLC Wiring and Layout Drawing**

DRAWING NO.	REV.	SIZE	SCALE	SHEET
EI027-HSE-VD-IN-DIG-008	RO	A3	NA	16/40

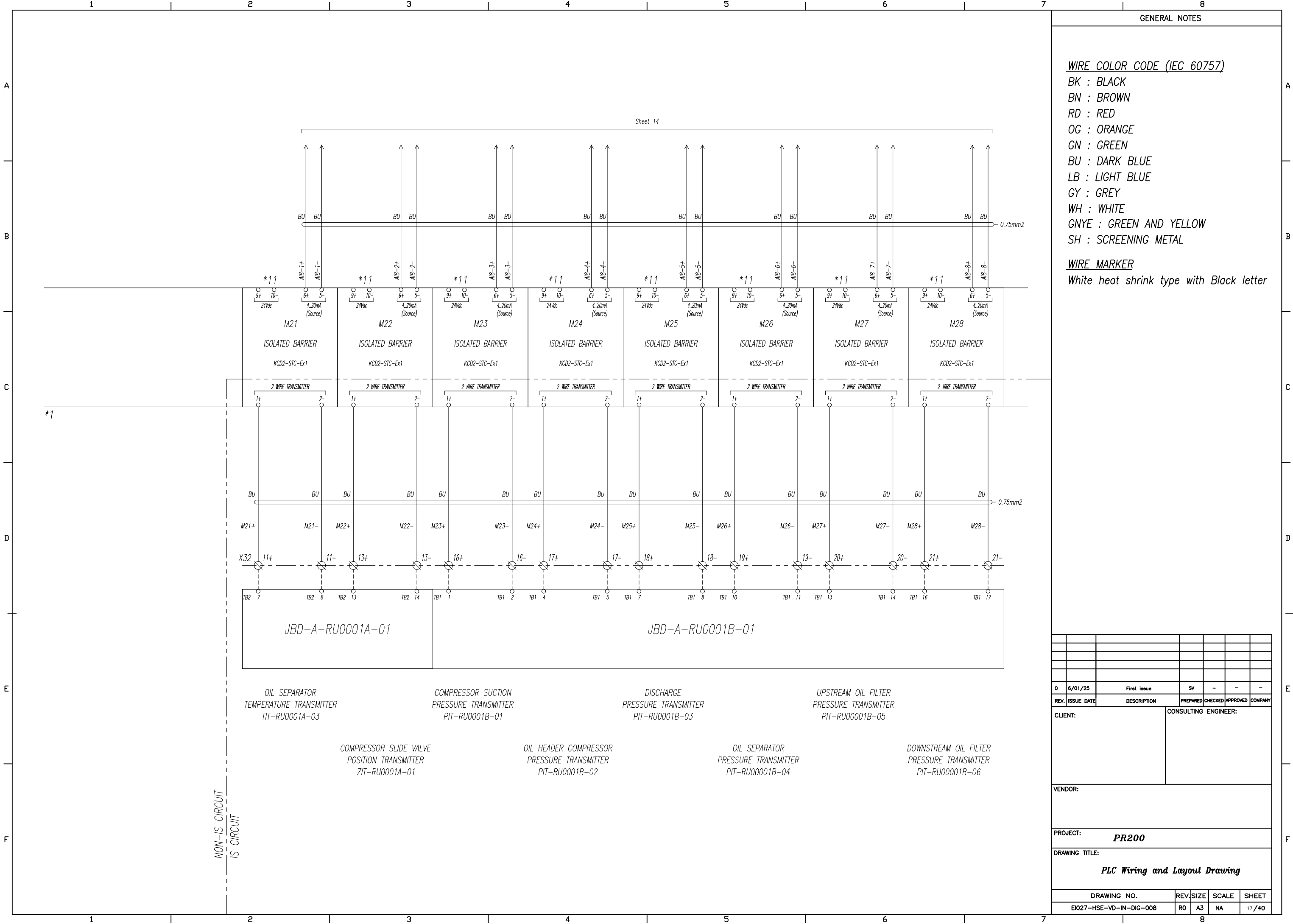
GENERAL NOTES

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WIRE MARKER

White heat shrink type with Black letter



REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED	COMPANY
0	6/01/25	First issue	SV	-	-	-

CLIENT: \_\_\_\_\_ CONSULTING ENGINEER: \_\_\_\_\_

VENDOR: \_\_\_\_\_

PROJECT: **PR200**

DRAWING TITLE: **PLC Wiring and Layout Drawing**

DRAWING NO.	REV.	SIZE	SCALE	SHEET
EI027-HSE-VD-IN-DIG-008	RO	A3	NA	17/40



WIRE COLOR CODE (IEC 60757)

BK : BLACK

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GY : GREY

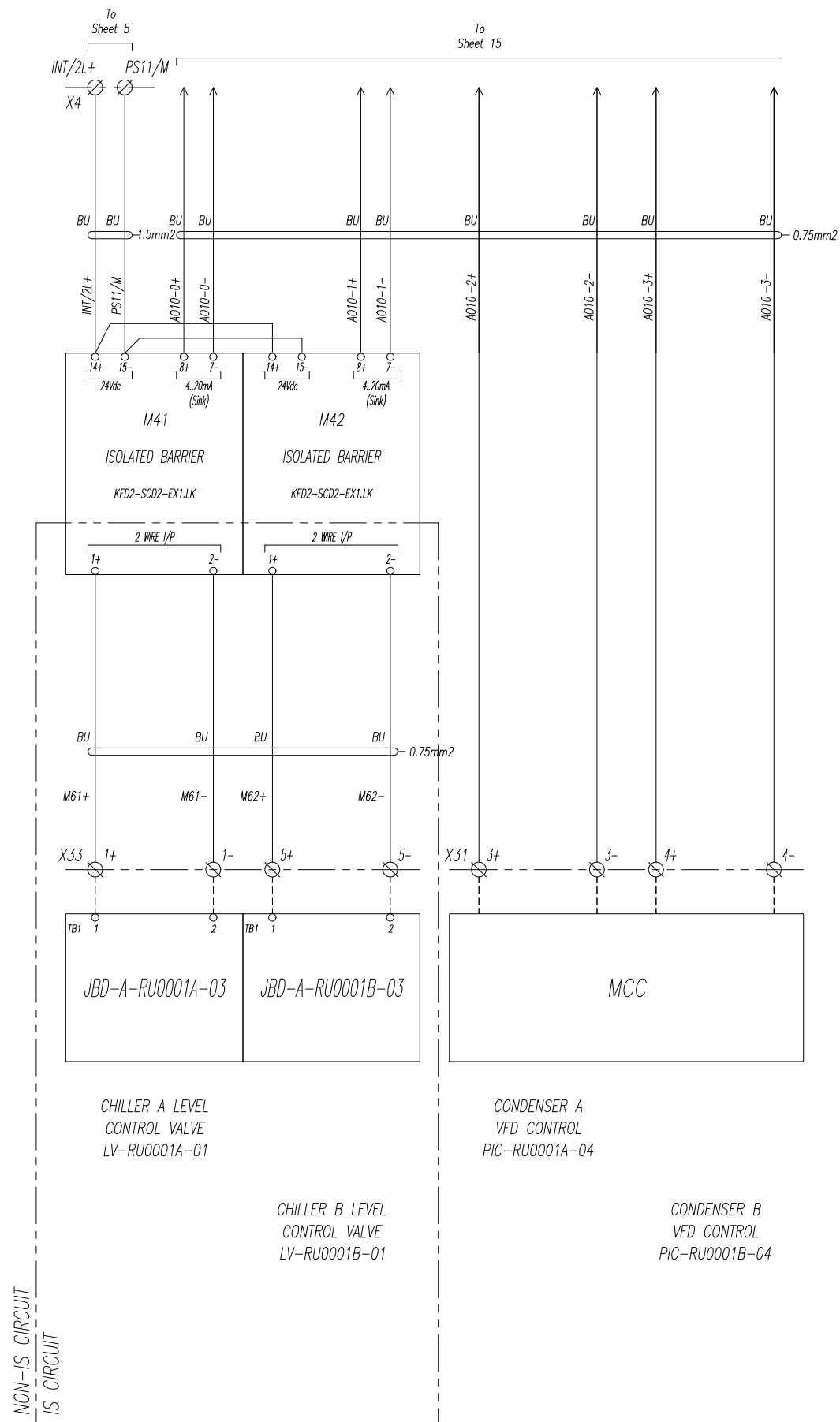
WH : WHITE

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WIRE MARKER

White heat shrink type with Black letter



REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED	COMPANY
0	6/01/25	First issue	SV	-	-	-

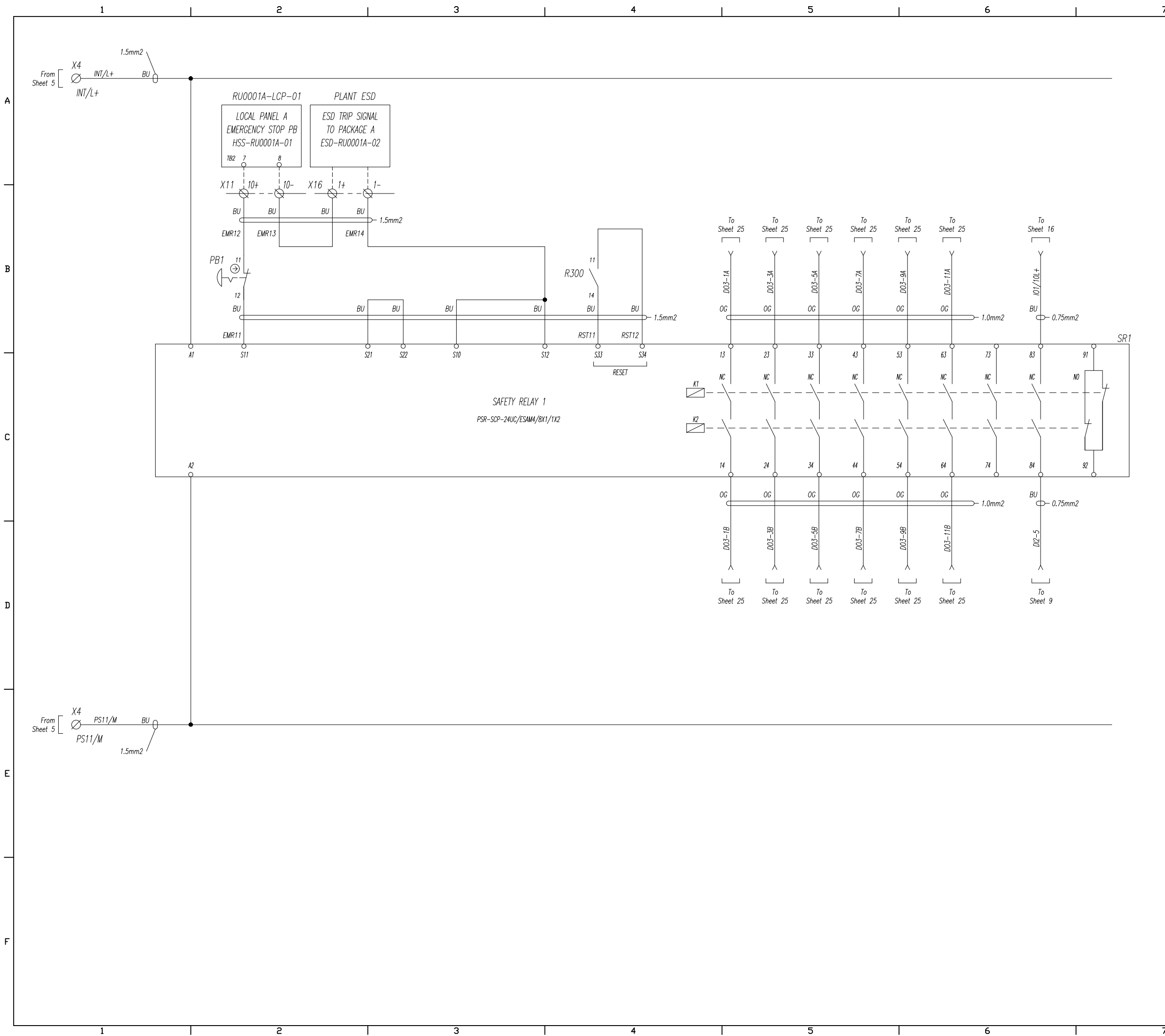
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VENDOR: \_\_\_\_\_

PROJECT: **PR200**

DRAWING TITLE: **PLC Wiring and Layout Drawing**

DRAWING NO.	REV.	SIZE	SCALE	SHEET
EI027-HSE-VD-IN-DIG-008	RO	A3	NA	19/40



GENERAL NOTES

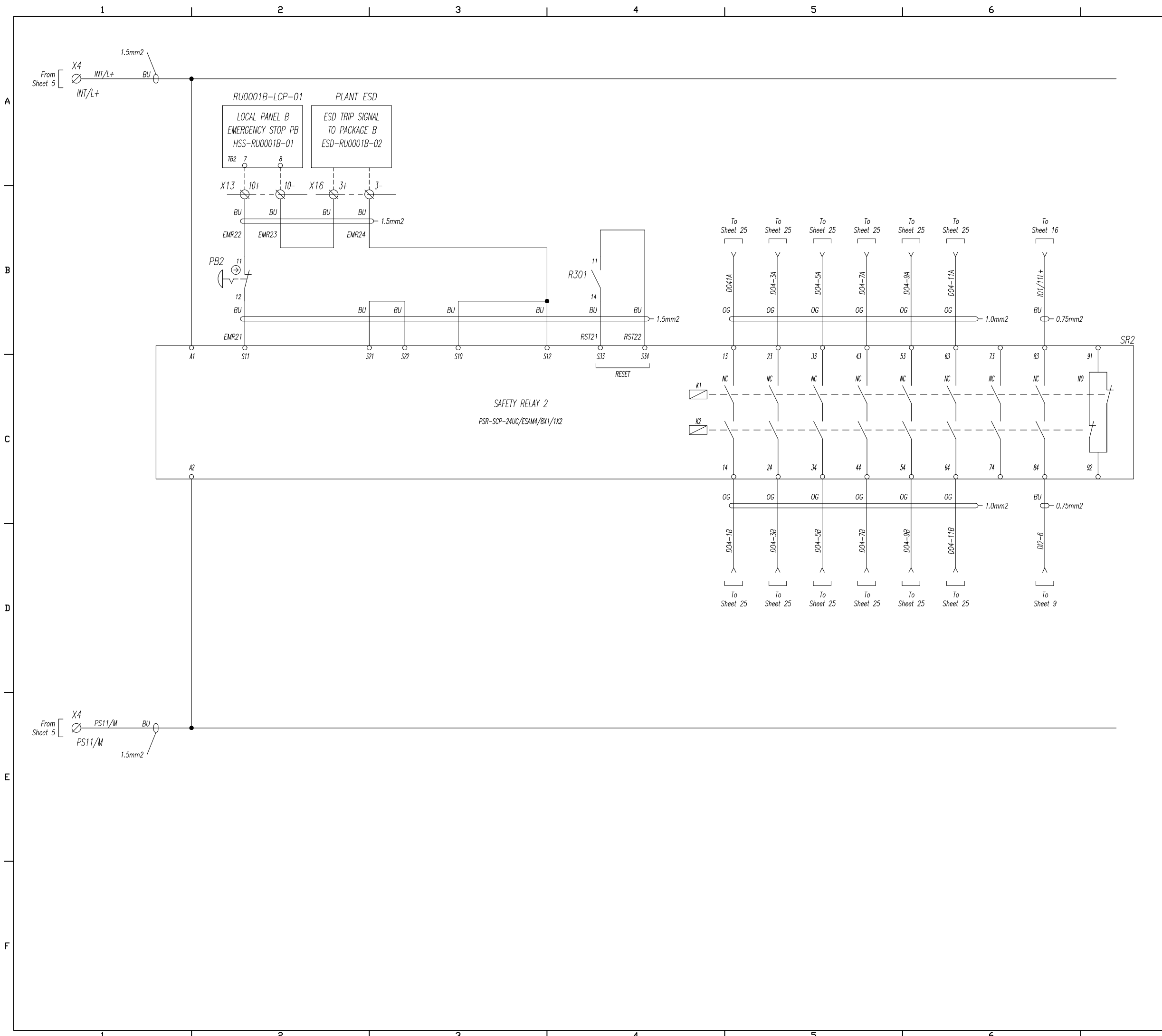
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WIRE MARKER

White heat shrink type with Black letter

0	6/01/25	First issue	SV	-	-
REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED
CLIENT:			CONSULTING ENGINEER:		
VENDOR:					
PROJECT: <b>PR200</b>					
DRAWING TITLE: <b>PLC Wiring and Layout Drawing</b>					
DRAWING NO.		REV.	SIZE	SCALE	SHEET
E1027-HSE-VD-IN-DIG-008		R0	A3	NA	20/40



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WIRE MARKER

White heat shrink type with Black letter

0	6/01/25	First issue	SV	-	-	-
REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED	COMPANY

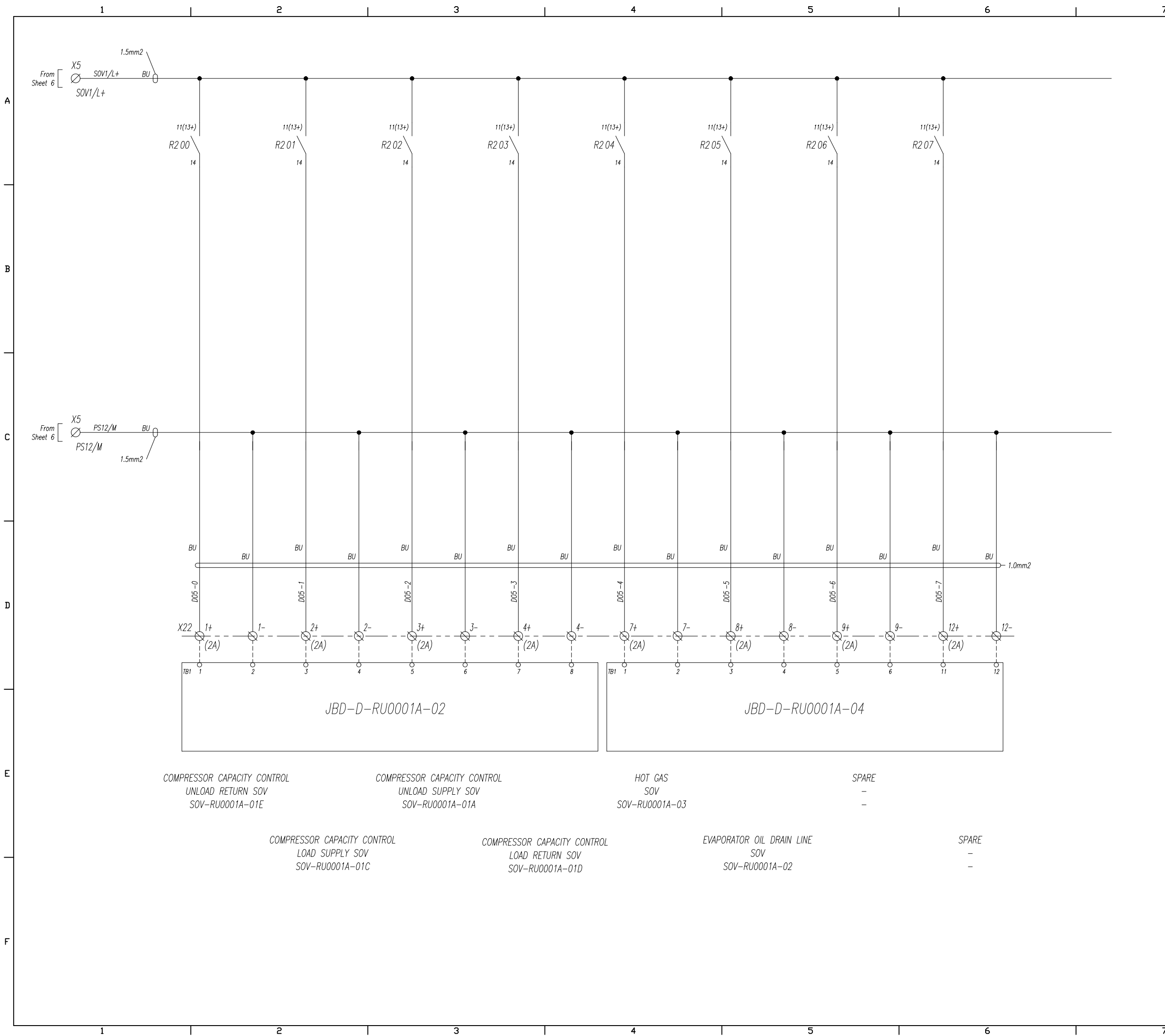
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VENDOR: \_\_\_\_\_

PROJECT: **PR200**

DRAWING TITLE:  
**PLC Wiring and Layout Drawing**

DRAWING NO.	REV.	SIZE	SCALE	SHEET
EI027-HSE-VD-IN-DIG-008	R0	A3	NA	21/40



GENERAL NOTES

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WIRE MARKER

White heat shrink type with Black letter

COMPRESSOR CAPACITY CONTROL  
UNLOAD RETURN SOV  
SOV-RU0001A-01E

COMPRESSOR CAPACITY CONTROL  
UNLOAD SUPPLY SOV  
SOV-RU0001A-01A

HOT GAS  
SOV  
SOV-RU0001A-03

SPARE  
-  
-

COMPRESSOR CAPACITY CONTROL  
LOAD SUPPLY SOV  
SOV-RU0001A-01C

COMPRESSOR CAPACITY CONTROL  
LOAD RETURN SOV  
SOV-RU0001A-01D

EVAPORATOR OIL DRAIN LINE  
SOV  
SOV-RU0001A-02

SPARE  
-  
-

0	6/01/25	First issue	SV	-	-	-
REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED	COMPANY

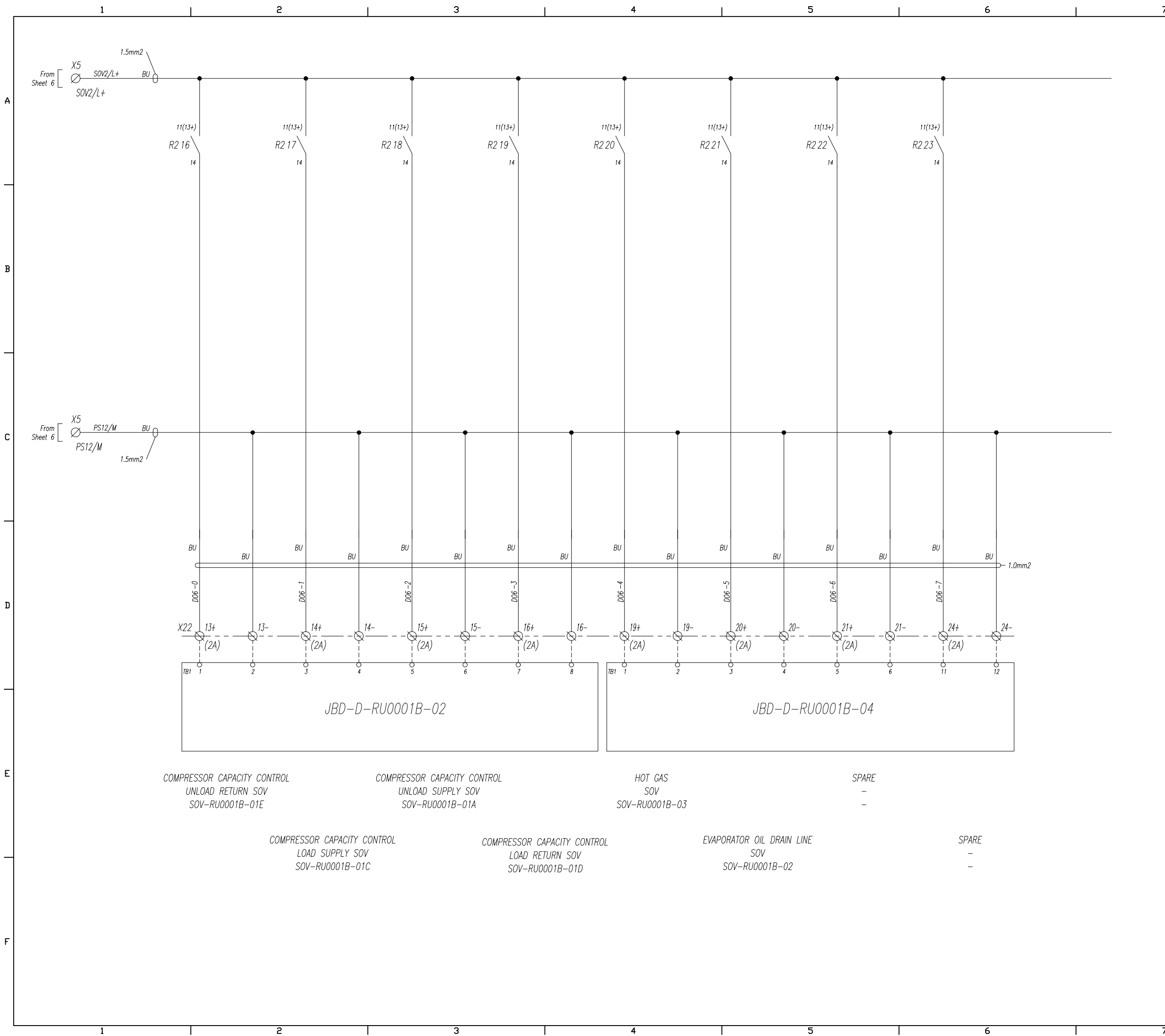
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VENDOR: \_\_\_\_\_

PROJECT: **PR200**

DRAWING TITLE:  
**PLC Wiring and Layout Drawing**

DRAWING NO.	REV.	SIZE	SCALE	SHEET
EI027-HSE-VD-IN-DIG-008	RO	A3	NA	22/40



GENERAL NOTES

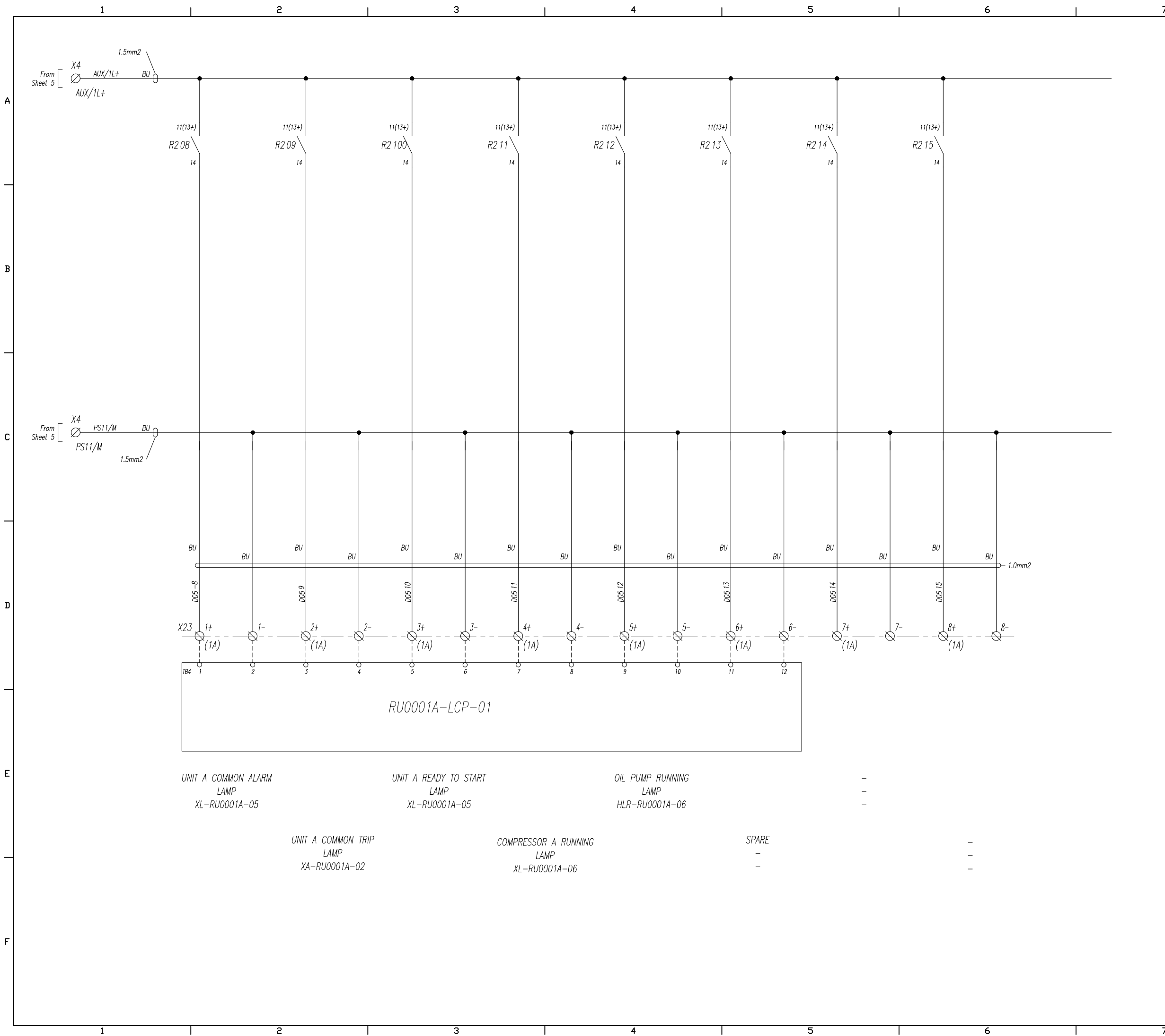
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WIRE MARKER

White heat shrink type with Black letter

0	6/01/25	First issue	SV	-	-
REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED
CLIENT:			CONSULTING ENGINEER:		
VENDOR:					
PROJECT: <b>PR200</b>					
DRAWING TITLE: <b>PLC Wiring and Layout Drawing</b>					
DRAWING NO.		REV.	SIZE	SCALE	SHEET
E1027-HSE-VD-IN-DIG-008		RO	A3	NA	23/40



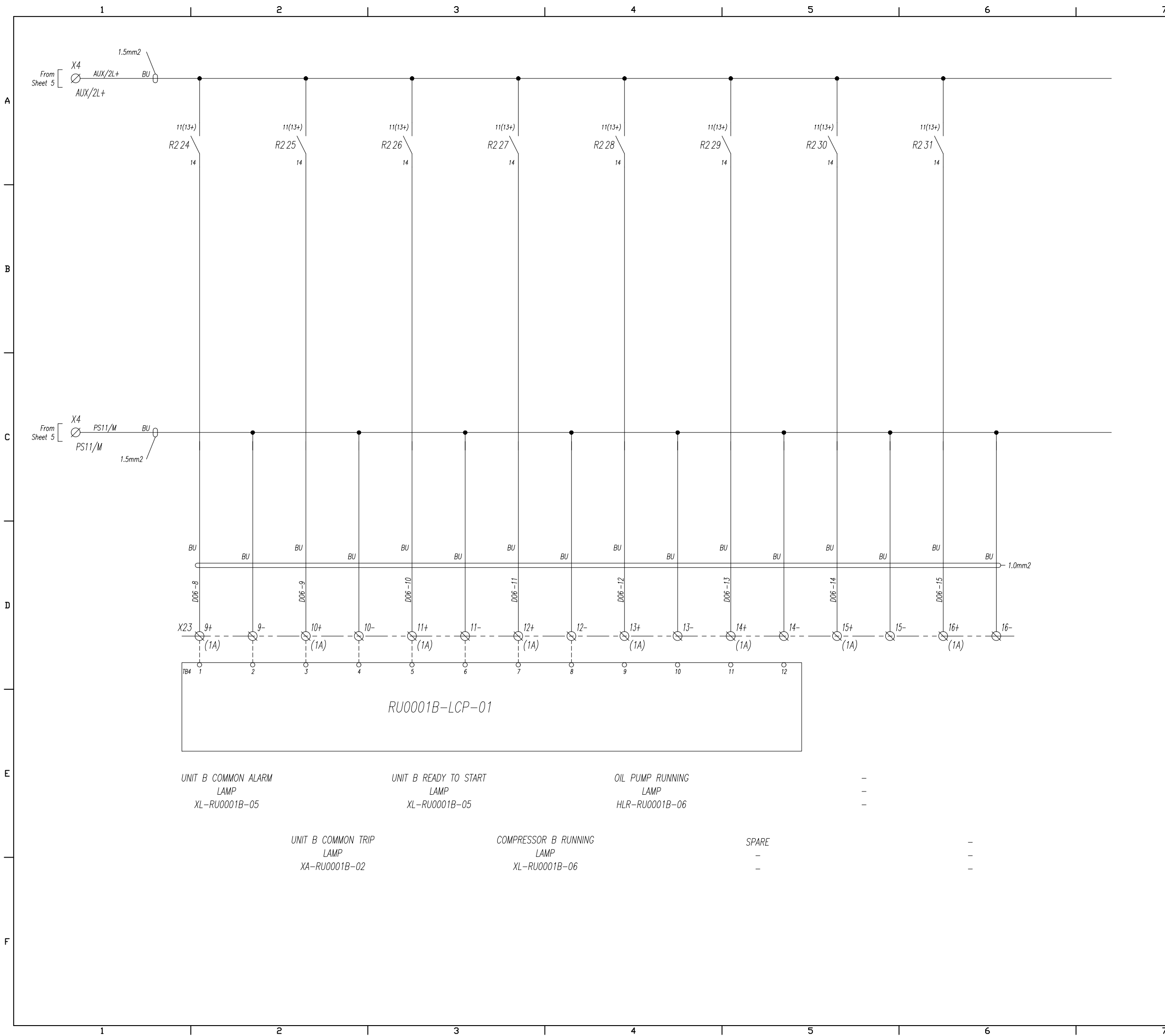
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WIRE MARKER  
 White heat shrink type with Black letter

- UNIT A COMMON ALARM  
LAMP  
XL-RU0001A-05
- UNIT A READY TO START  
LAMP  
XL-RU0001A-05
- OIL PUMP RUNNING  
LAMP  
HLR-RU0001A-06
- 
- 
- 
- UNIT A COMMON TRIP  
LAMP  
XA-RU0001A-02
- COMPRESSOR A RUNNING  
LAMP  
XL-RU0001A-06
- SPARE  
-
- 
- 

0	6/01/25	First issue	SV	-	-
REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED
CLIENT:			CONSULTING ENGINEER:		
VENDOR:					
PROJECT: <b>PR200</b>					
DRAWING TITLE: <b>PLC Wiring and Layout Drawing</b>					
DRAWING NO.		REV.	SIZE	SCALE	SHEET
E1027-HSE-VD-IN-DIG-008		RO	A3	NA	24/40



GENERAL NOTES

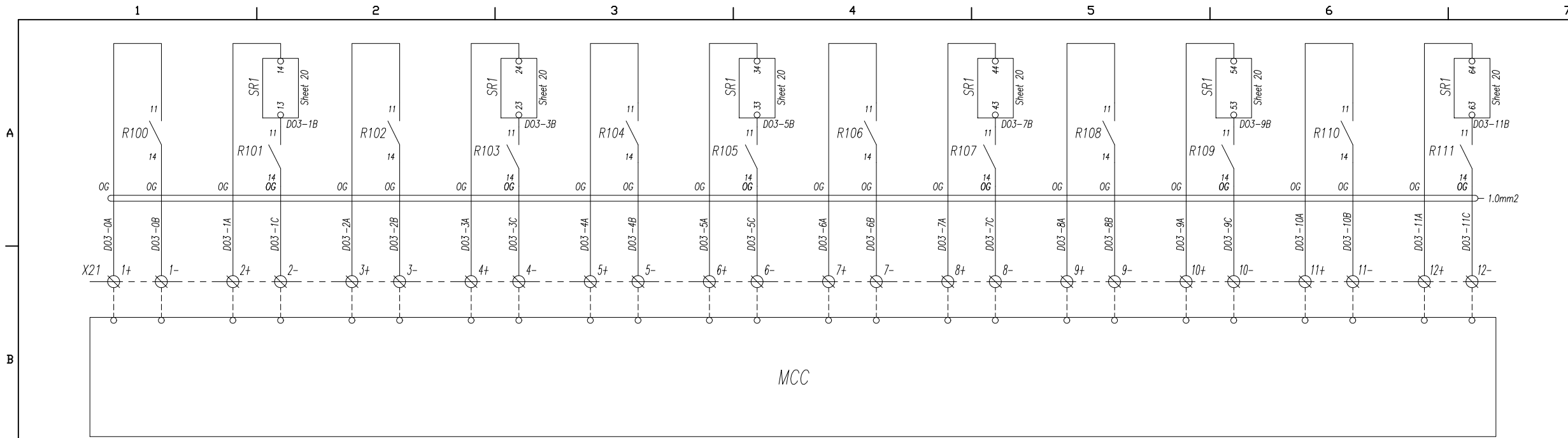
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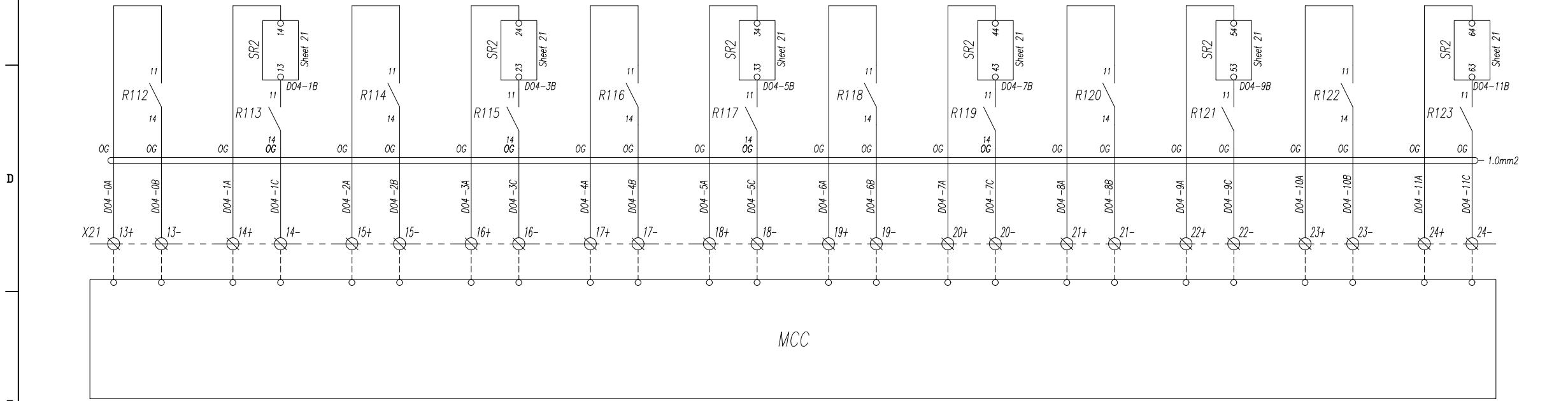
WIRE MARKER

White heat shrink type with Black letter

0	6/01/25	First issue	SV	-	-
REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED
CLIENT:			CONSULTING ENGINEER:		
VENDOR:					
PROJECT: <b>PR200</b>					
DRAWING TITLE: <b>PLC Wiring and Layout Drawing</b>					
DRAWING NO.		REV.	SIZE	SCALE	SHEET
E1027-HSE-VD-IN-DIG-008		RO	A3	NA	25/40



COMPRESSOR RU0001A-M-01 MOTOR START COMMAND XST-RU0001A-01 (Close pulse)	OIL PUMP RU0001A-P-01 MOTOR START COMMAND XST-RU0001A-02 (Close pulse)	SEPARATOR OIL HEATER RU0001A-H-01 ON COMMAND XS-RU0001A-01B (Close pulse)	SPARE -	CONDENSER MOTOR FAN 2 START COMMAND XST-RU0001A-03A (Close pulse)	CONDENSER MOTOR FAN 3 START COMMAND XST-RU0001A-03B (Close pulse)
COMPRESSOR RU0001A-M-01 MOTOR STOP COMMAND XSP-RU0001A-01 (Open pulse)	OIL PUMP RU0001A-P-01 MOTOR STOP COMMAND XSP-RU0001A-02 (Open pulse)	SEPARATOR OIL HEATER RU0001A-H-01 OFF COMMAND XS-RU0001A-01C (Open pulse)	SPARE -	CONDENSER MOTOR FAN 2 STOP COMMAND XSP-RU0001A-03A (Open pulse)	CONDENSER MOTOR FAN 3 STOP COMMAND XST-RU0001A-03B (Open pulse)



COMPRESSOR RU0001B-M-01 START COMMAND XST-RU0001B-01 (Close pulse)	OIL PUMP RU0001B-P-01 MOTOR START COMMAND XST-RU0001B-02 (Close pulse)	SEPARATOR OIL HEATER RU0001B-H-01 ON COMMAND XS-RU0001B-01B (Close pulse)	SPARE -	CONDENSER MOTOR FAN 2 START COMMAND XST-RU0001B-03A (Close pulse)	CONDENSER MOTOR FAN 3 START COMMAND XST-RU0001B-03B (Close pulse)
COMPRESSOR RU0001B-M-01 STOP COMMAND XSP-RU0001B-01 (Open pulse)	OIL PUMP RU0001B-P-01 MOTOR STOP COMMAND XSP-RU0001B-02 (Open pulse)	SEPARATOR OIL HEATER RU0001B-H-01 OFF COMMAND XS-RU0001B-01C (Open pulse)	SPARE -	CONDENSER MOTOR FAN 2 STOP COMMAND XSP-RU0001B-03A (Open pulse)	CONDENSER MOTOR FAN 3 STOP COMMAND XST-RU0001B-03B (Open pulse)

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WIRE MARKER  
 White heat shrink type with Black letter

0	6/01/25	First issue	SV	-	-	-
REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED	COMPANY
CLIENT:			CONSULTING ENGINEER:			
VENDOR:						
PROJECT: <b>PR200</b>						
DRAWING TITLE: <b>PLC Wiring and Layout Drawing</b>						
DRAWING NO.		REV.	SIZE	SCALE	SHEET	
E1027-HSE-VD-IN-DIG-008		RO	A3	NA	26/40	

GENERAL NOTES

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WIRE MARKER

White heat shrink type with Black letter


0	6/01/25	First issue	SV	-	-	-
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REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED	COMPANY
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CLIENT:	CONSULTING ENGINEER:

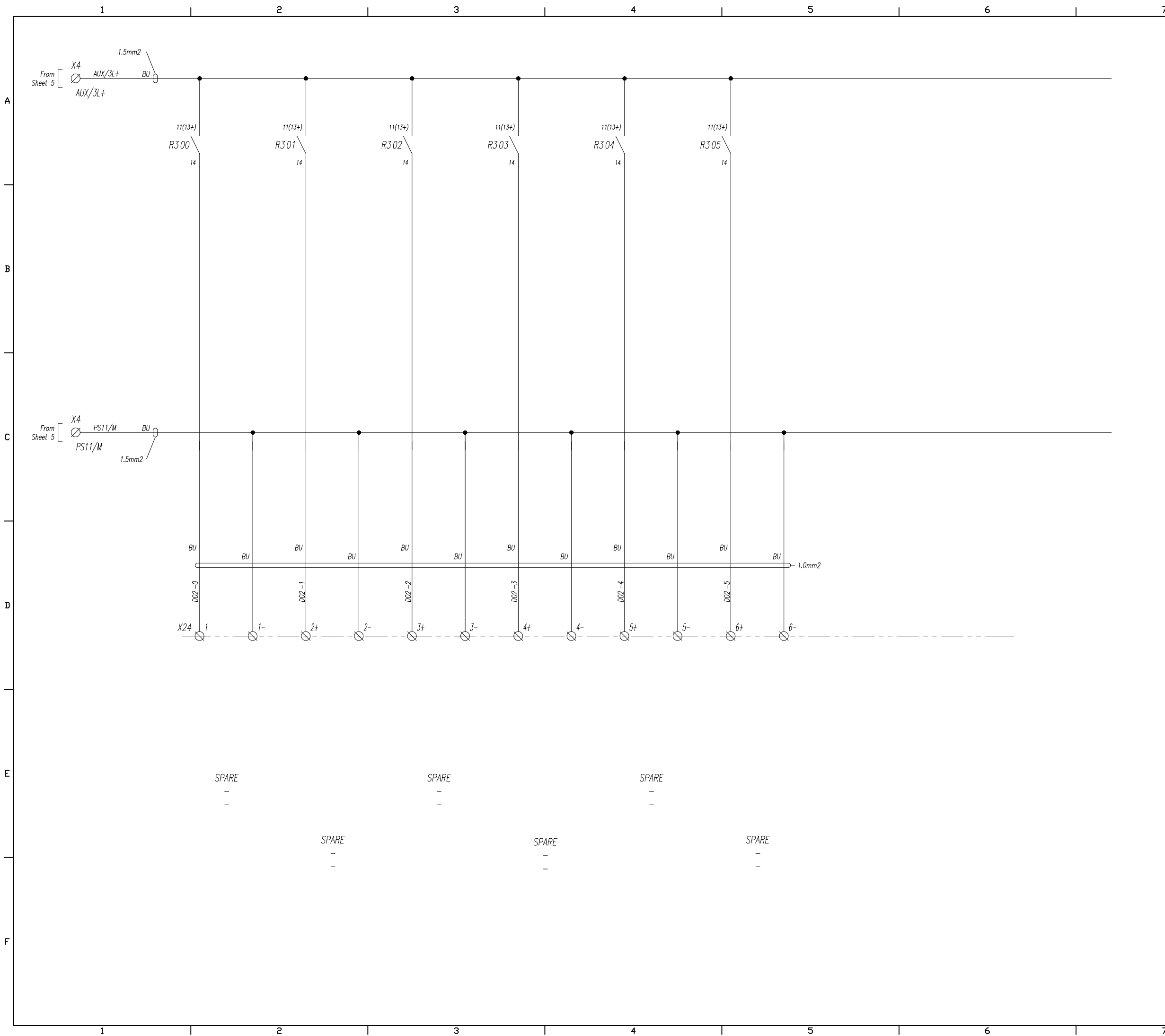
VENDOR:

PROJECT: **PR200**

DRAWING TITLE:

**PLC Wiring and Layout Drawing**

DRAWING NO.	REV.	SIZE	SCALE	SHEET
EI027-HSE-VD-IN-DIG-008	RO	A3	NA	27/40



GENERAL NOTES

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WIRE MARKER

White heat shrink type with Black letter

0	6/01/25	First issue	SV	-	-
REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED
CLIENT:			CONSULTING ENGINEER:		
VENDOR:					
PROJECT: <b>PR200</b>					
DRAWING TITLE: <b>PLC Wiring and Layout Drawing</b>					
DRAWING NO.		REV.	SIZE	SCALE	SHEET
E1027-HSE-VD-IN-DIG-008		RO	A3	NA	28/40

1 UCP-RU0001

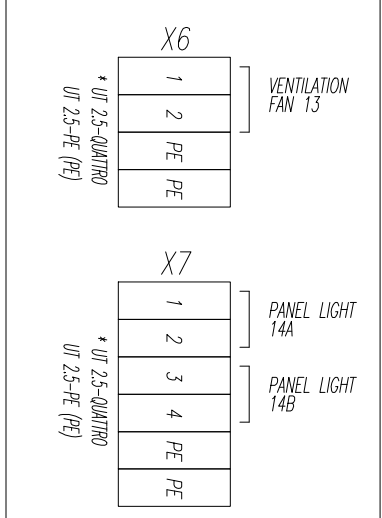
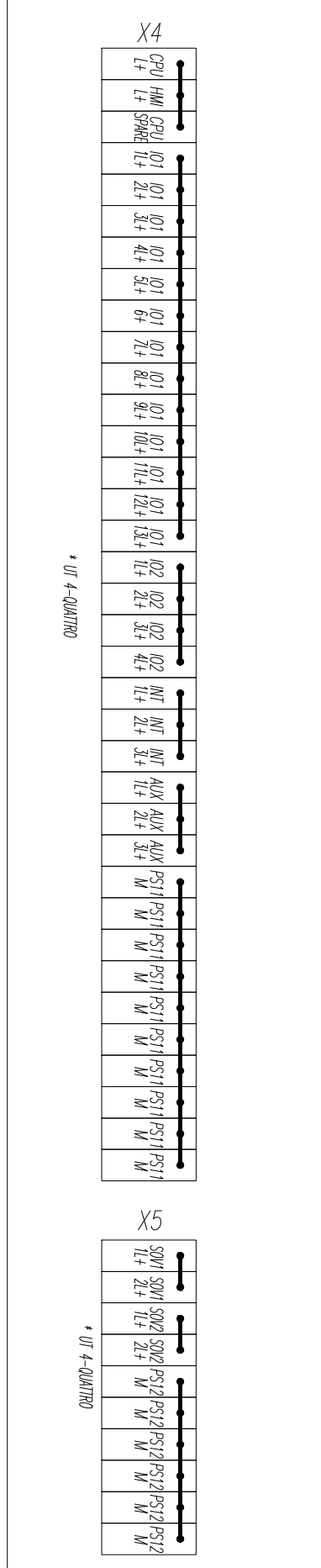
2 UCP-RU0001

5 UCP-RU0001

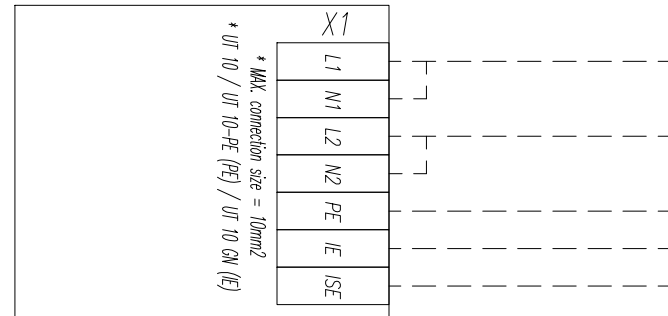
GENERAL NOTES

INTERNAL USE TERMINALS

INTERNAL USE TERMINALS



\*1 : Estimated cable size, quantities and type for design



INCOMING POWER UPS  
110Vac/50Hz L+N

INCOMING POWER non-UPS  
230Vac/50Hz L+N

PROTECTIVE EARTH  
INSTRUMENT EARTH  
INTRINSIC SAFETY EARTH

REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED	COMPANY
0	6/01/25	First issue	SV	-	-	-

CLIENT: \_\_\_\_\_ CONSULTING ENGINEER: \_\_\_\_\_

VENDOR: \_\_\_\_\_

PROJECT: **PR200**

DRAWING TITLE: **PLC Wiring and Layout Drawing**

DRAWING NO.	REV.	SIZE	SCALE	SHEET
E1027-HSE-VD-IN-DIG-008	R0	A3	NA	29/40

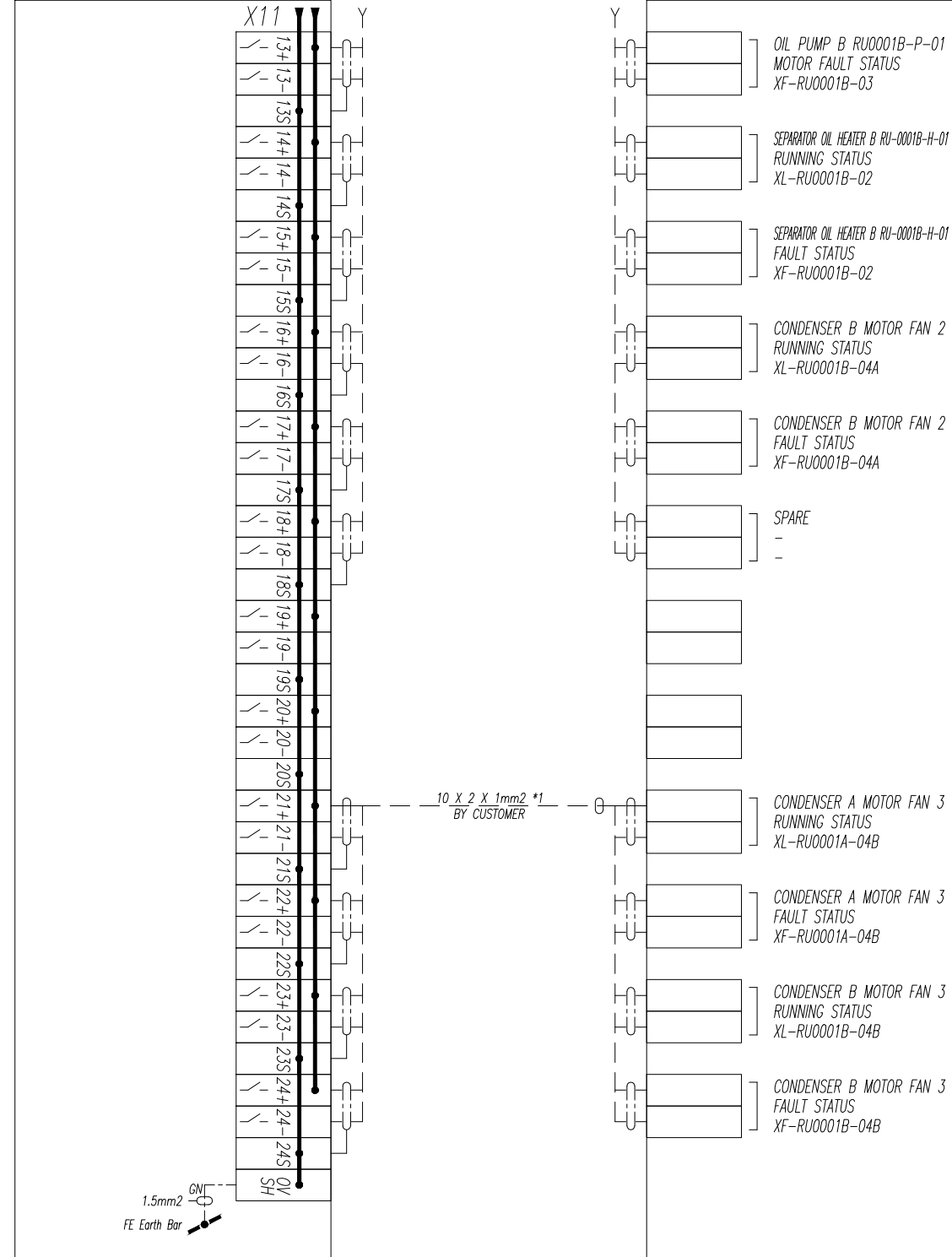
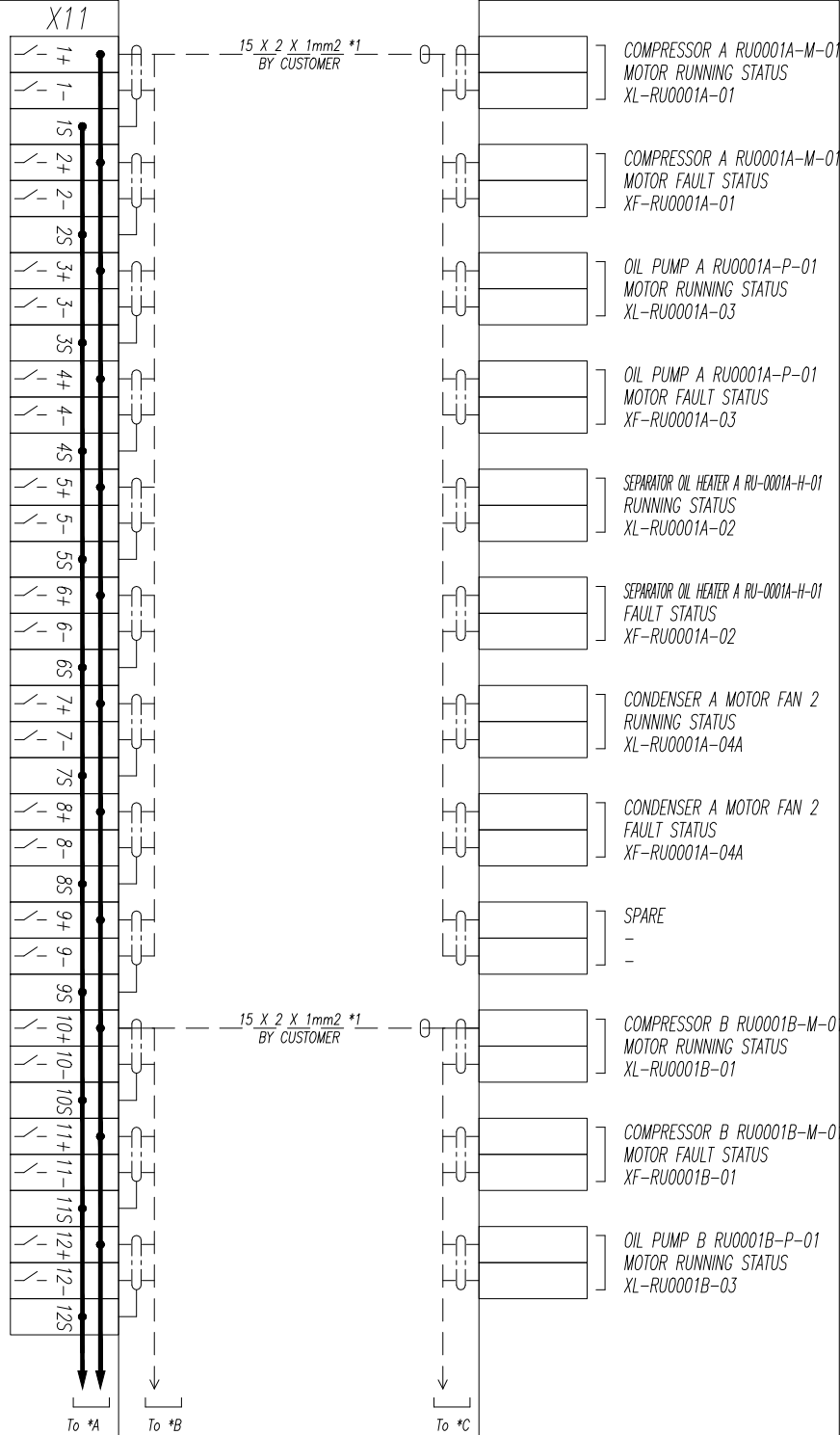
UCP-RU0001

MCC

UCP-RU0001

MCC

GENERAL NOTES



\*1 : Estimated cable size, quantities and type for design

\*1 : Estimated cable size, quantities and type for design

REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED	COMPANY
0	6/01/25	First issue	SV	-	-	-

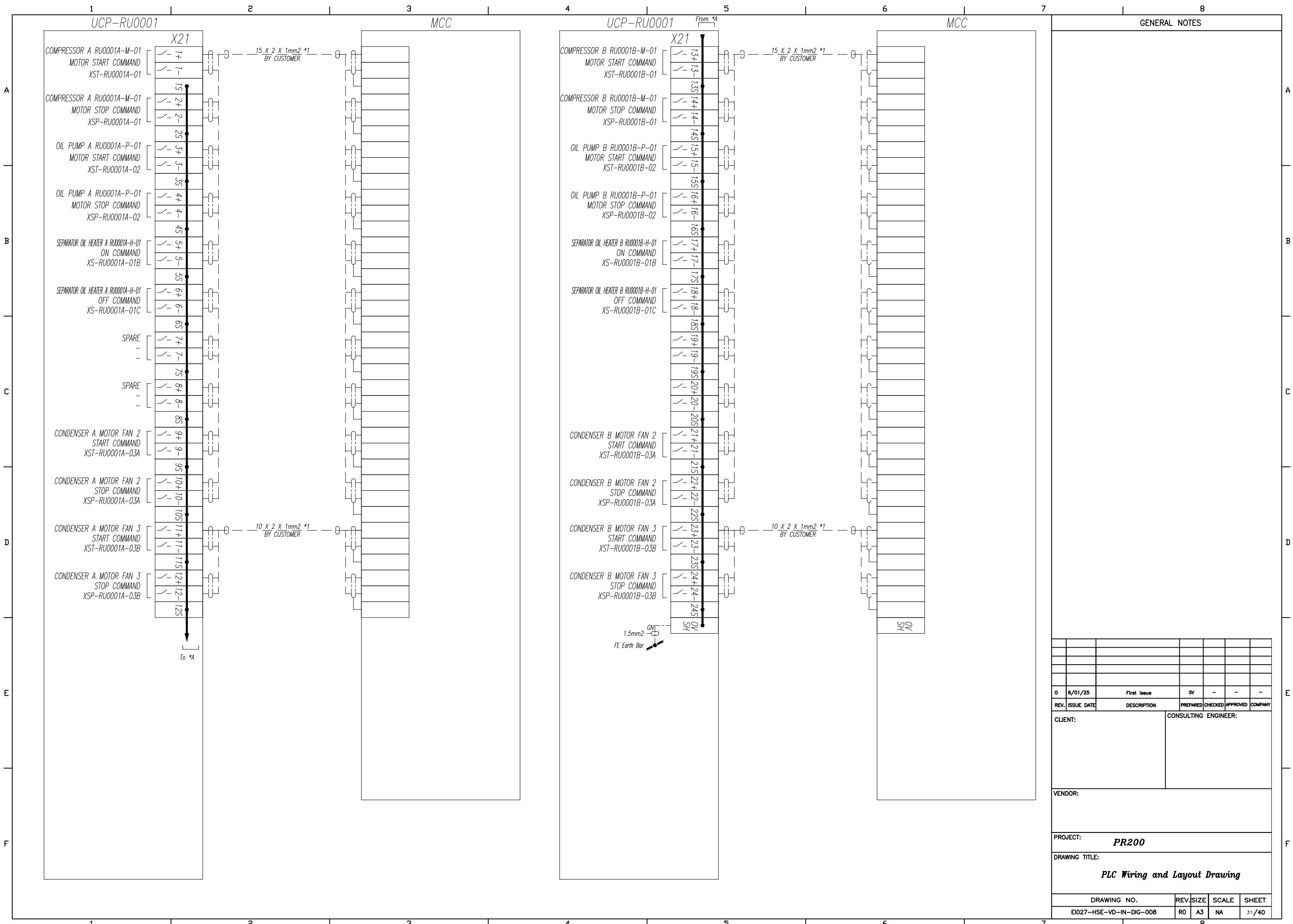
CLIENT: \_\_\_\_\_ CONSULTING ENGINEER: \_\_\_\_\_

VENDOR: \_\_\_\_\_

PROJECT: **PR200**

DRAWING TITLE: **PLC Wiring and Layout Drawing**

DRAWING NO.	REV.	SIZE	SCALE	SHEET
EI027-HSE-VD-IN-DIG-008	R0	A3	NA	30/40



GENERAL NOTES

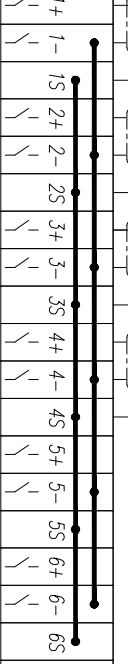
0	6/01/25	First issue	SV	-	-
REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED
CLIENT:			CONSULTING ENGINEER:		
VENDOR:					
PROJECT: <b>PR200</b>					
DRAWING TITLE: <b>PLC Wiring and Layout Drawing</b>					
DRAWING NO.		REV.	SIZE	SCALE	SHEET
E1027-HSE-VD-IN-DIG-008		R0	A3	NA	31/40

UCP-RU0001

MCC

GENERAL NOTES

X31



CONDENSER A  
VFD CONTROL  
PIC-RU0001A-04

CONDENSER B  
VFD CONTROL  
PIC-RU0001B-04

1.5mm2  
GN  
FE Earth Bar

2 X 2 X 1mm2 \*1  
BY CUSTOMER

2 X 2 X 1mm2 \*1  
BY CUSTOMER

COMPRESSOR A MOTOR  
CURRENT (0...\*\*\*A/4...20mA)  
II-RU0001A-01

COMPRESSOR B MOTOR  
CURRENT (0...\*\*\*A/4...20mA)  
II-RU0001B-01

HS  
/0

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REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED	COMPANY

CLIENT: \_\_\_\_\_ CONSULTING ENGINEER: \_\_\_\_\_

VENDOR: \_\_\_\_\_

PROJECT: **PR200**

DRAWING TITLE:  
**PLC Wiring and Layout Drawing**

DRAWING NO.	REV.	SIZE	SCALE	SHEET
EI027-HSE-VD-IN-DIG-008	R0	A3	NA	32/40

\*1 : Estimated cable size, quantities and type for design

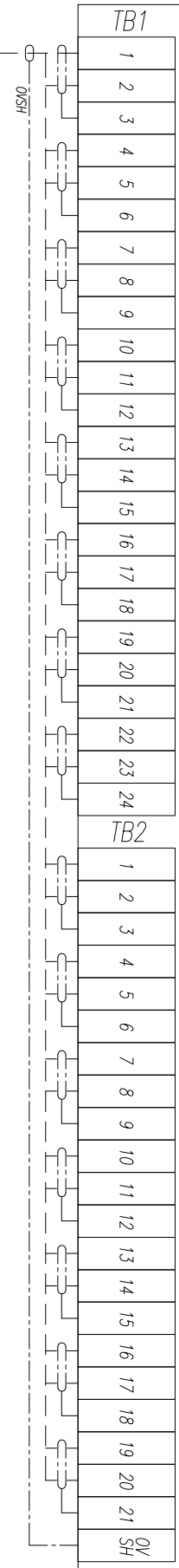
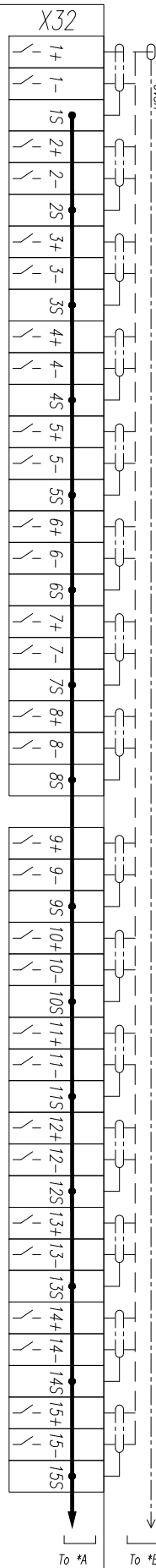
UCP-RU0001

JBD-A-RU0001A-01

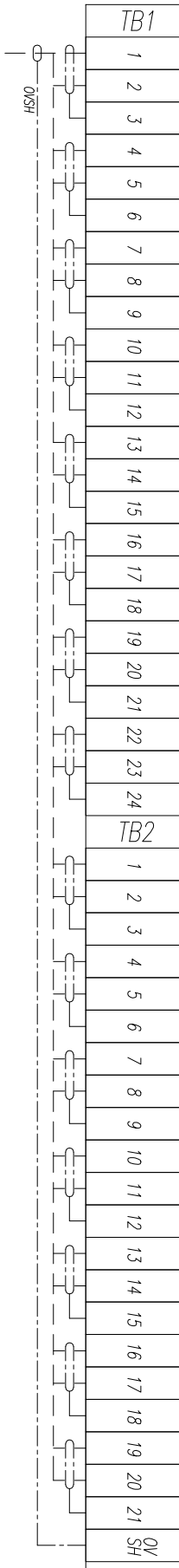
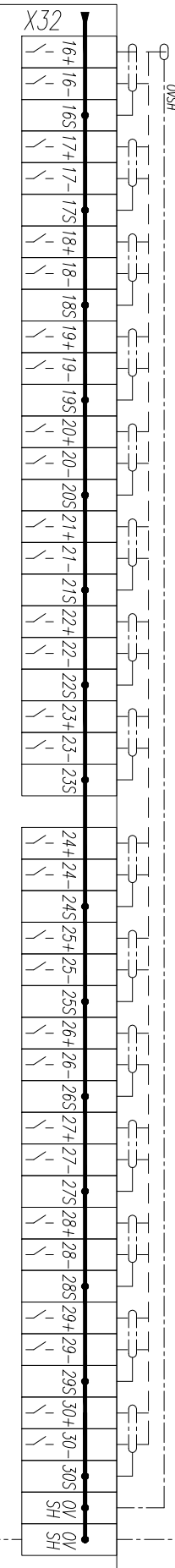
UCP-RU0001

JBD-A-RU0001B01

GENERAL NOTES



- 1 COMPRESSOR SUCTION PRESSURE TRANSMITTER PIT-RU0001A-01
- 2 OIL HEADER COMPRESSOR PRESSURE TRANSMITTER PIT-RU0001A-02
- 3 DISCHARGE PRESSURE TRANSMITTER PIT-RU0001A-03
- 4 OIL SEPARATOR PRESSURE TRANSMITTER PIT-RU0001A-04
- 5 UPSTREAM OIL FILTER PRESSURE TRANSMITTER PIT-RU0001A-05
- 6 DOWNSTREAM OIL FILTER PRESSURE TRANSMITTER PIT-RU0001A-06
- 7 COMPRESSOR SUCTION TEMPERATURE TRANSMITTER TIT-RU0001A-01
- 8 OIL HEADER COMPRESSOR TEMPERATURE TRANSMITTER TIT-RU0001A-02
- 9 OIL SEPARATOR TEMPERATURE TRANSMITTER TIT-RU0001A-03
- 10 COMPRESSOR SLIDE VALVE POSITION TRANSMITTER ZIT-RU0001A-01



- 1 COMPRESSOR SUCTION PRESSURE TRANSMITTER PIT-RU0001B-01
- 2 OIL HEADER COMPRESSOR PRESSURE TRANSMITTER PIT-RU0001B-02
- 3 DISCHARGE PRESSURE TRANSMITTER PIT-RU0001B-03
- 4 OIL SEPARATOR PRESSURE TRANSMITTER PIT-RU0001B-04
- 5 UPSTREAM OIL FILTER PRESSURE TRANSMITTER PIT-RU0001B-05
- 6 DOWNSTREAM OIL FILTER PRESSURE TRANSMITTER PIT-RU0001B-06
- 7 COMPRESSOR SUCTION TEMPERATURE TRANSMITTER TIT-RU0001B-01
- 8 OIL HEADER COMPRESSOR TEMPERATURE TRANSMITTER TIT-RU0001B-02
- 9 OIL SEPARATOR TEMPERATURE TRANSMITTER TIT-RU0001B-03
- 10 COMPRESSOR SLIDE VALVE POSITION TRANSMITTER ZIT-RU0001B-01

\*1 : Estimated cable size, quantities and type for design

REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED	COMPANY
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CLIENT: \_\_\_\_\_ CONSULTING ENGINEER: \_\_\_\_\_

VENDOR: \_\_\_\_\_

PROJECT: **PR200**

DRAWING TITLE: **PLC Wiring and Layout Drawing**

DRAWING NO.	REV.	SIZE	SCALE	SHEET
EI027-HSE-VD-IN-DIG-008	RO	A3	NA	33/40





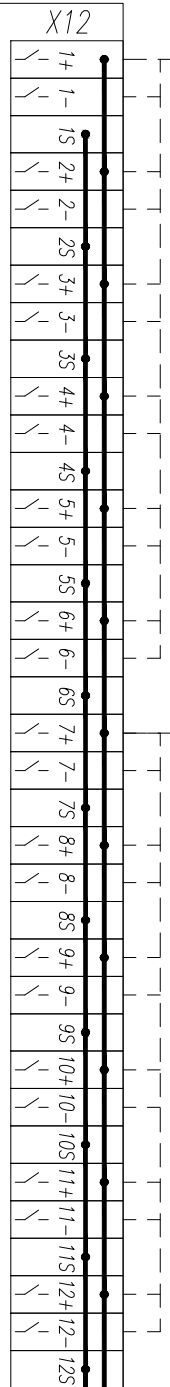
UCP-RU0001

RU0001A-LCP-01

UCP

RU0001A-LCP-01

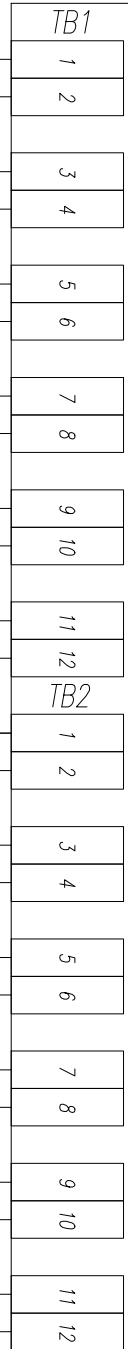
GENERAL NOTES



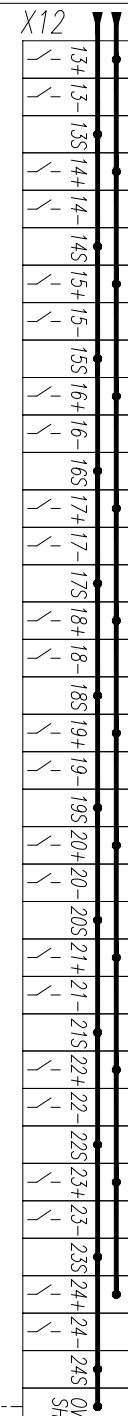
12 X 1.5mm2 \*1  
BY CUSTOMER

12 X 1.5mm2 \*1  
BY CUSTOMER

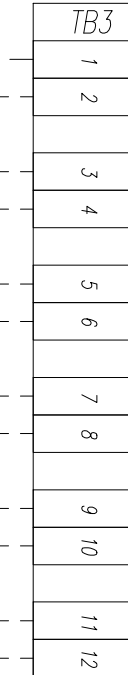
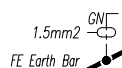
To \*A



- 1 UNIT A START PB  
HST-RU0001A-01
- 2
- 3 UNIT A STOP PB  
HSP-RU0001A-01
- 4
- 5
- 6
- 7
- 8
- 9 OIL PUMP START PB  
HST-RU0001A-06
- 10
- 11 OIL PUMP STOP PB  
HSP-RU0001A-06
- 12
- 1 COMP CAPACITY CONTROL REMOTE/LOCAL  
SELECT SWITCH (1=LOCAL, 0 = REMOTE)  
HS-RU0001A-01
- 2
- 3
- 4
- 5 LAMP TEST PB  
HS-RU0001A-03
- 6
- 7 EMERGENCY STOP  
HSS-RU0001-01
- 8
- 9 UNIT A LOCAL/REMOTE SELECT SWITCH  
(1=LOCAL, 0=REMOTE)  
HSC-RU0001A-01
- 10
- 11
- 12



12 X 1.5mm2 \*1  
BY CUSTOMER



- 1 OIL PUMP HAND/AUTO SELECT SWITCH  
AUTO SELECT  
HSC-RU0001A-06A
- 2
- 3
- 4
- 5 OIL PUMP HAND/AUTO SELECT SWITCH  
HAND SELECT  
HSC-RU0001A-06B
- 6
- 7 COMP CAPACITY CONTROL LOAD/UNLOAD  
LOAD SELECT  
HS-RU0001A-02A
- 8
- 9
- 10
- 11 COMP CAPACITY CONTROL LOAD/UNLOAD  
UNLOAD SELECT  
HS-RU0001A-02B
- 12

\*1 : Estimated cable size, quantities and type for design

0	6/01/25	First Issue	SV	-	-
REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED
CLIENT:			CONSULTING ENGINEER:		
VENDOR:					
PROJECT: <b>PR200</b>					
DRAWING TITLE: <b>PLC Wiring and Layout Drawing</b>					
DRAWING NO.		REV.	SIZE	SCALE	SHEET
E1027-HSE-VD-IN-DIG-008		RO	A3	NA	36/40

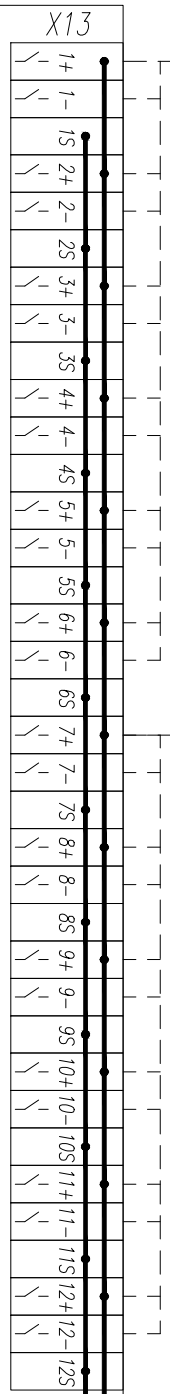
UCP-RU0001

RU0001B-LCP-01

UCP

RU0001B-LCP-01

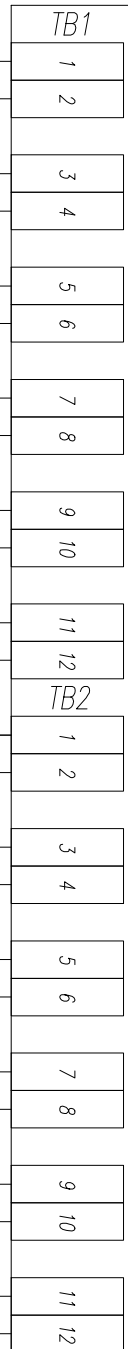
GENERAL NOTES



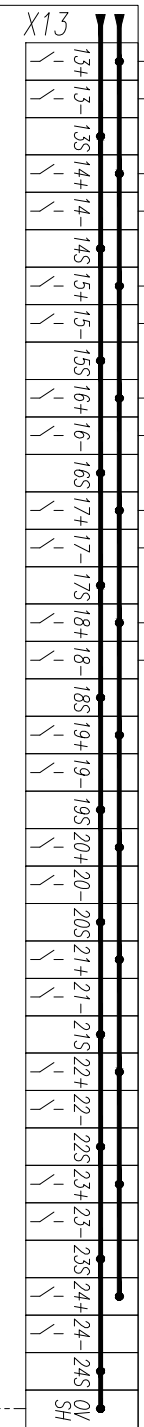
12 X 1.5mm2 \*1  
BY CUSTOMER

12 X 1.5mm2 \*1  
BY CUSTOMER

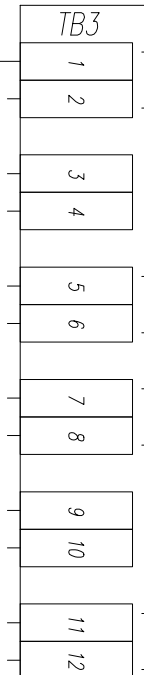
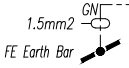
To \*A



- 1 UNIT B START PB  
- HST-RU0001B-01
- 2
- 3 UNIT B STOP PB  
- HSP-RU0001B-01
- 4
- 5
- 6
- 7
- 8
- 9 OIL PUMP START PB  
- HST-RU0001B-06
- 10
- 11 OIL PUMP STOP PB  
- HSP-RU0001B-06
- 12
- 1 COMP CAPACITY CONTROL REMOTE/LOCAL  
SELECT SWITCH (1=LOCAL, 0 = REMOTE)  
HS-RU0001B-01
- 2
- 3
- 4
- 5 LAMP TEST PB  
- HS-RU0001B-03
- 6
- 7 EMERGENCY STOP  
- HSS-RU0001B-01
- 8
- 9 UNIT B LOCAL/REMOTE SELECT SWITCH  
(1=LOCAL, 0=REMOTE)  
HSC-RU0001B-01
- 10
- 11
- 12



12 X 1.5mm2 \*1  
BY CUSTOMER



- 1 OIL PUMP HAND/AUTO SELECT SWITCH  
AUTO SELECT  
HSC-RU0001B-06A
- 2
- 3
- 4
- 5 OIL PUMP HAND/AUTO SELECT SWITCH  
HAND SELECT  
HSC-RU0001B-06B
- 6
- 7 COMP CAPACITY CONTROL LOAD/UNLOAD  
LOAD SELECT  
HS-RU0001B-02A
- 8
- 9
- 10
- 11 COMP CAPACITY CONTROL LOAD/UNLOAD  
UNLOAD SELECT  
HS-RU0001B-02B
- 12

\*1 : Estimated cable size, quantities and type for design

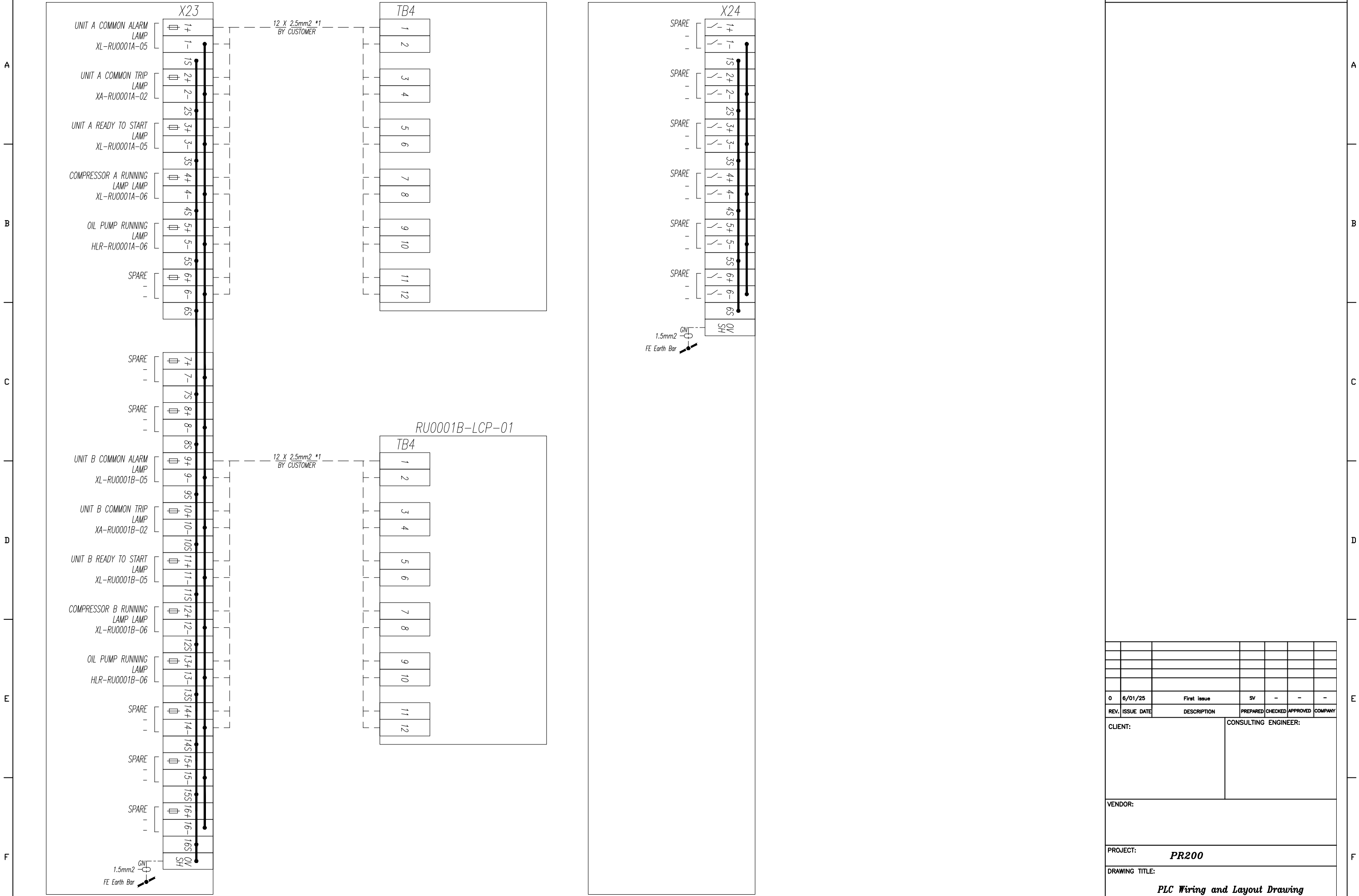
0	6/01/25	First Issue	SV	-	-
REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED
CLIENT:			CONSULTING ENGINEER:		
VENDOR:					
PROJECT: <b>PR200</b>					
DRAWING TITLE: <b>PLC Wiring and Layout Drawing</b>					
DRAWING NO.		REV.	SIZE	SCALE	SHEET
E1027-HSE-VD-IN-DIG-008		RO	A3	NA	37/40

1 UCP-RU0001

2 3 RU0001A-LCP-01

4 UCP-RU0001

8 GENERAL NOTES



\*1 : Estimated cable size, quantities and type for design

REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED	COMPANY
0	6/01/25	First issue	SV	-	-	-

CLIENT: \_\_\_\_\_ CONSULTING ENGINEER: \_\_\_\_\_

VENDOR: \_\_\_\_\_

PROJECT: **PR200**

DRAWING TITLE: **PLC Wiring and Layout Drawing**

DRAWING NO.	REV.	SIZE	SCALE	SHEET
EI027-HSE-VD-IN-DIG-008	R0	A3	NA	38/40

NO.	TAG NO.	INSTRUMENT/PARTS NAME	SPEC/SERVICE	MANUFACTURER	MODEL/CODE	QTY.	REMARKS
1	MCB10, MCB20	MINIATURE CIRCUIT BREAKER	2P/400VAC/60VDC/10kA/16AT-C	SIEMENS	5SY4216-7	2	
2	MCB11, MCB12	MINIATURE CIRCUIT BREAKER	2P/400VAC/60VDC/10kA/10AT-C	SIEMENS	5SY4210-7	2	
3	MCB13...15	MINIATURE CIRCUIT BREAKER	2P/400VAC/60VDC/10kA/2AT-C	SIEMENS	5SY4202-7	3	
4	MCB201, MCB202	MINIATURE CIRCUIT BREAKER	1P/230VAC/60VDC/10kA/6AT-C	SIEMENS	5SY4106-7	2	
5	MCB101...104	MINIATURE CIRCUIT BREAKER	1P/230VAC/60VDC/10kA/4AT-C	SIEMENS	5SY4104-7	4	
6	MCB105	MINIATURE CIRCUIT BREAKER	1P/230VAC/60VDC/10kA/2AT-C	SIEMENS	5SY4102-7	1	
7	-	BUSBAR FOR MCB	10mm2/FOR 2P MCB	SIEMENS	5ST3735	-	
8	-	BUSBAR FOR MCB	10mm2/FOR 1P MCB	SIEMENS	5ST3731	-	
9	PS11	POWER SUPPLY	100-240VAC/24VDC 10A	PHOENIX CONTACT	QUINT PS/1AC/24DC/10	1	
10	PS12	POWER SUPPLY	100-240VAC/24VDC 20A	PHOENIX CONTACT	QUINT PS/1AC/24DC/20	1	
11	FAN13A	VENTILATION FAN	230VAC/50Hz/19W/87m3/h/204x204mm/RAL7035	RITTAL	SK 3239.700	1	
12	FLT1A, FLT1B	OUTLET FILTER	204x204mm/RAL7035	RITTAL	SK 3239.300	2	
13	TS13A	ENCLOSURE INTERNAL THERMOSTAT	230/115/60/48/24VAC _ 60/48/24VDC	RITTAL	SK 3110.000	1	
14	FL14A, FL14B	PANEL LIGHT	100-240V/14W/with DOOR SWITCH	RITTAL	SZ 2500.310	2	CABLE: SZ 2500.400
15	SK15	RECEPTACLE	250V/16A/CF Type	PHOENIX CONTACT	EO-CF-UT/LED/GN	1	
16	DP1	DOCUMENT POCKET	228x254x17 (A4)	RITTAL	SZ 2514.000	1	
17	PB1, PB2	EMERGENCY STOP PUSH BUTTON	2NC/220VAC_3A/24VDC_1.5A/MAINTAINED/RED/MASHROOM	OMRON	A22E-M-02	2	LABEL: A22Z-3466-1 PROTECTION COVER: A22Z-EG1
18	X1(L1,N1,L2,N2)	TERMINAL BLOCK	1000V/125A/GRAY/1.5-35.0mm2	PHOENIX CONTACT	UT 35	4	
19	X1(PE)	TERMINAL BLOCK	1000V/125A/GREEN-YELLOW/1.5-35.0mm2	PHOENIX CONTACT	UT 35-PE	1	
20	X1(FE,ISE)	TERMINAL BLOCK	1000V/125A/GREEN/1.5-35.0mm2	PHOENIX CONTACT	UT 35 GN	2	
21	X4,X5	TERMINAL BLOCK	500V/32A/GRAY/0.14-4.0mm2/4 COONECTION	PHOENIX CONTACT	UT 4-QUATTRO	34	END PLATE: D-UT 2.5/4-QUATTRO, BRIDGE: FBS **-6
22	X6,X7	TERMINAL BLOCK	500V/24A/GRAY/0.14-2.5mm2/4 CONNECTION	PHOENIX CONTACT	UT 2.5-QUATTRO	6	END PLATE: D-UT 2.5/4-QUATTRO, BRIDGE: FBS **-5
23	X6,X7 (PE)	TERMINAL BLOCK	8kV(surge voltage)/GREEN-YELLOW/0.14-2.5mm2	PHOENIX CONTACT	UT 2.5-PE	5	END PLATE: D-UT 2.5/10, BRIDGE: FBS **-5
24	X11..14, X21, X24, X31	TERMINAL BLOCK	400V/20A/GRAY/0.14-2.5mm2/KNIFE DISCONNECT	PHOENIX CONTACT	UT 2.5-MT	228	END PLATE: D-UT 2.5/4-TWIN, BRIDGE: FBS **-5
25	X11..14, X21, X24, X31, X32, X33 (FE)	TERMINAL BLOCK	1000V/24A/GREEN/0.14-0.25mm2	PHOENIX CONTACT	UT 2.5 GN	152	END PLATE: D-UT 2.5/10, BRIDGE: FBS **-5
26	X22, X23 (L+)	TERMINAL BLOCK	24VDC/6.3A/FUSE(5x20)/LED/BLACK/0.14-4.0mm2	PHOENIX CONTACT	UT 4-HESI LED24	40	BRIDGE: FBS **-6
27	X22, X23 (M)	TERMINAL BLOCK	1000V/41A/GRAY/0.14-4.0mm2	PHOENIX CONTACT	UT 4	40	END PLATE: D-UT 2.5/10, BRIDGE: FBS **-6
28	X22, X23 (FE)	TERMINAL BLOCK	1000V/41A/GREEN/0.14-4.0mm2	PHOENIX CONTACT	UT 4 GN	51	END PLATE: D-UT 2.5/10, BRIDGE: FBS **-6
29	X32, X33	TERMINAL BLOCK	400V/20A/BLUE/0.14-2.5mm2/KNIFE DISCONNECT	PHOENIX CONTACT	UT 2.5-MT BU	76	END PLATE: D-UT 2.5/4-TWIN, BRIDGE: FBS **-5
30	-	END TERMINAL BLOCK	MOUNTING END CLAMP FOR DIN RAIL	PHOENIX CONTACT	CLIPFIX 35	-	-
31	-	DIN RAIL	DIN RAIL NS 35	-	-	-	ESTIMATED LENGTH: 14m
32							
33	SR1, SR2	SAFETY RELAY	24VAC_DC/8X1/1X2	PHOENIX CONTACT	PSR-SCP-24UC/ESAM4/8X1/1X2	2	
34	R100..123, R208..215, R224..231 R300..305	RELAY	24VDC(Coil)/230VAC_3A/24VDC_2A/SPDT	PHOENIX CONTACT	PLC-RSC-24DC/21	46	BRIDGE: FBST 500-PLC RD/BU
35	R200..207, R216..223	SSR	24VDC(Coil)/3V..33VDC_2A	PHOENIX CONTACT	PLC-OSC-24DC/24DC/2	16	BRIDGE: FBST 500-PLC RD/BU

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VENDOR:							
PROJECT: <b>PR200</b>							
DRAWING TITLE: <b>PLC Wiring and Layout Drawing</b>							
DRAWING NO.				REV.	SIZE	SCALE	SHEET
E1027-HSE-VD-IN-DIG-008				RO	A3	NA	39/40

NO.	TAG NO.	INSTRUMENT/PARTS NAME	SPEC/SERVICE	MANUFACTURER	MODEL/CODE	QTY.	REMARKS
36	A1	PLC COMMUNICATION MODULE	MODBUS RTU 485	SIEMENS	6ES7241-1CH32-0XB0	1	
37	A2	PLC CPU MODULE	CPU1217C	SIEMENS	6ES7217-1AG40-0XB0	1	MEMORY CARD 24MB: 6ES7954-8LF04-0AA0
38	A3,A4,A5,A6	PLC DIGITAL INPUT/OUTPUT MODULE	DI16/DO16/24VDC/0,5A	SIEMENS	6ES7223-1BL32-0XB0	4	
39	A7,A8,A9	PLC ANALOGUE INPUT MODULE	A18/24VDC	SIEMENS	6ES7231-4HF32-0XB0	3	
40	A10	PLC ANALOGUE OUTPUT MODULE	A04/24VDC	SIEMENS	6ES7232-4HD32-0XB0	1	
41	HMI1	OPERATOR PANEL	TP1200-COMFORT /24VDC/12" COLOR	SIEMENS	6AV2124-0MC01-0AX0	1	
42	PR10	UNIVERSAL POWER RAIL	24VDC/4A	PEPPERL+FUCHS	UPR-3S	1	
43	MPS10	POWER FEEDER MODULE	20..30VDC/4A/W20mm	PEPPERL+FUCHS	KFD2-EB2	1	
44	M11..18, M21..28, M31..36	ISOLATED BARRIER	19..30VDC/W12.5mm/2W TRANSMITTER/HART	PEPPERL+FUCHS	KCD2-STC-EX1	22	
45	M41,42	ISOLATED BARRIER	19..30VDC/W20mm/IP CONVERTER/HART	PEPPERL+FUCHS	KFD2-SCD2-EX1.LK	2	
46	CAB1	INDUSTRIAL ETHERNET CABLE	INDUSTRIAL ETHERNET CABLE 3M WITH 2X RJ45 CONN.	SIEMENS	6XV1870-3QH30	1	
47							
48							
49							
50	-	CABINET ENCLOSURE MODEL	-	RITTAL	VX 8808.000/ VX 8108.245	1	
51	-	CABINET ENCLOSURE 2ND MOUNTING PLATE	-	RITTAL	VX 5051.043 / 5051.045	1	
52	-	CABINET ENCLOSURE BASE	-	RITTAL	VX 8660.003/ VX 8660.034	1	
53	-	CABINET ENCLOSURE DOOR LOCK	-	RITTAL	VX 8618.200/ TS 8611.180	1	
54	-	CABINET ENCLOSURE CABLE ENTRY	-	RITTAL	VX 8618.8111	1	
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REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED	COMPANY	
CLIENT:			CONSULTING ENGINEER:				
VENDOR:							
PROJECT: <b>PR200</b>							
DRAWING TITLE: <b>PLC Wiring and Layout Drawing</b>							
DRAWING NO.			REV.	SIZE	SCALE	SHEET	
E1027-HSE-VD-IN-DIG-008			RO	A3	NA	40/40	