# Title

Machine Tool Bulider name: KENT USA

Machine Tool Name: 18/12/2412(S)(H)-N1

Drawing NO: JH111

NC Type: Mitsubishi FX2n-10GM

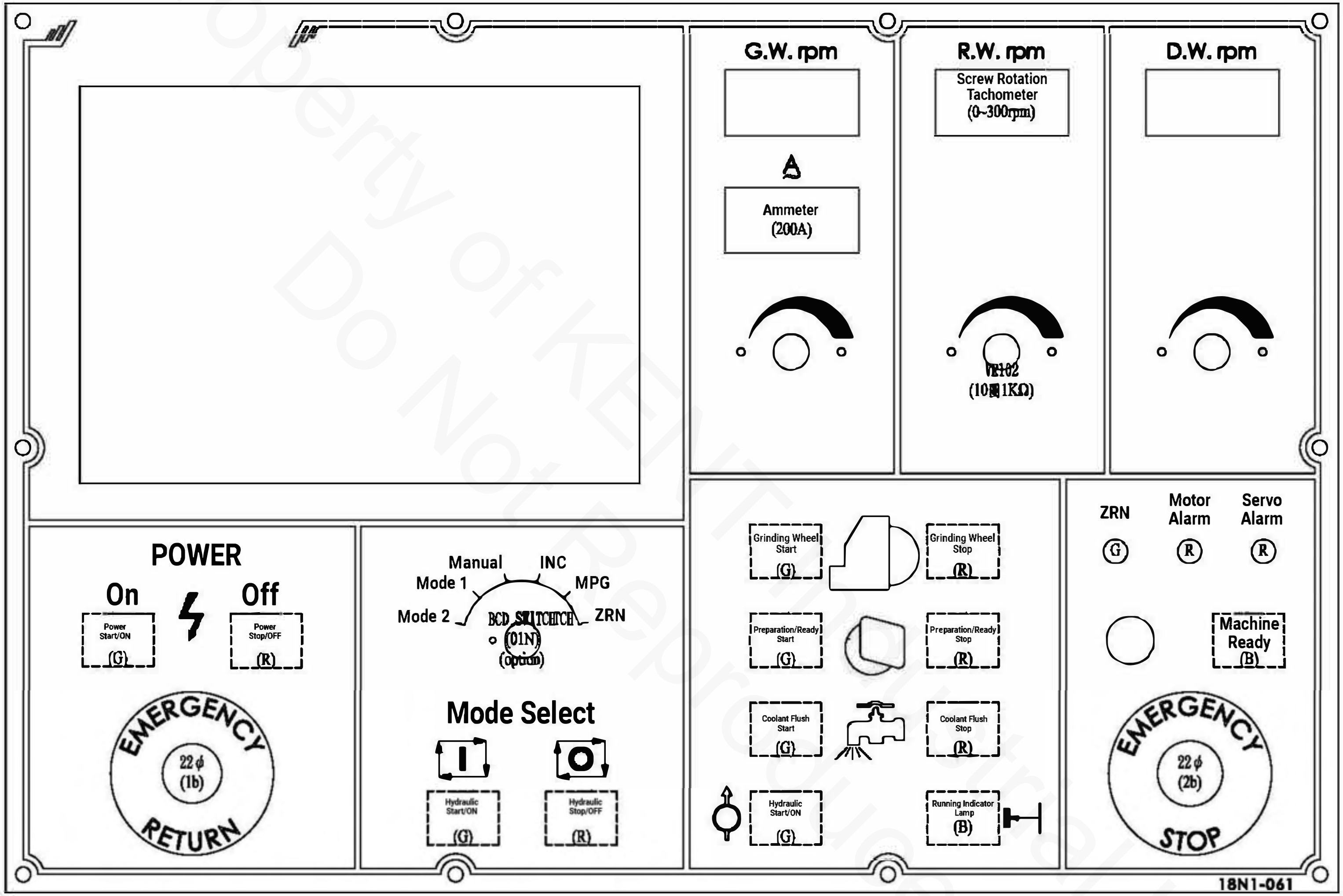
Remark 1: NC

Remark 2:

Remark 3:

Remark 4:

Property of KENT Industrial USA
Do Not Reproduce




Property of KENT Industrial USA Do Not Reproduce

# FOR 12SNC011201Y

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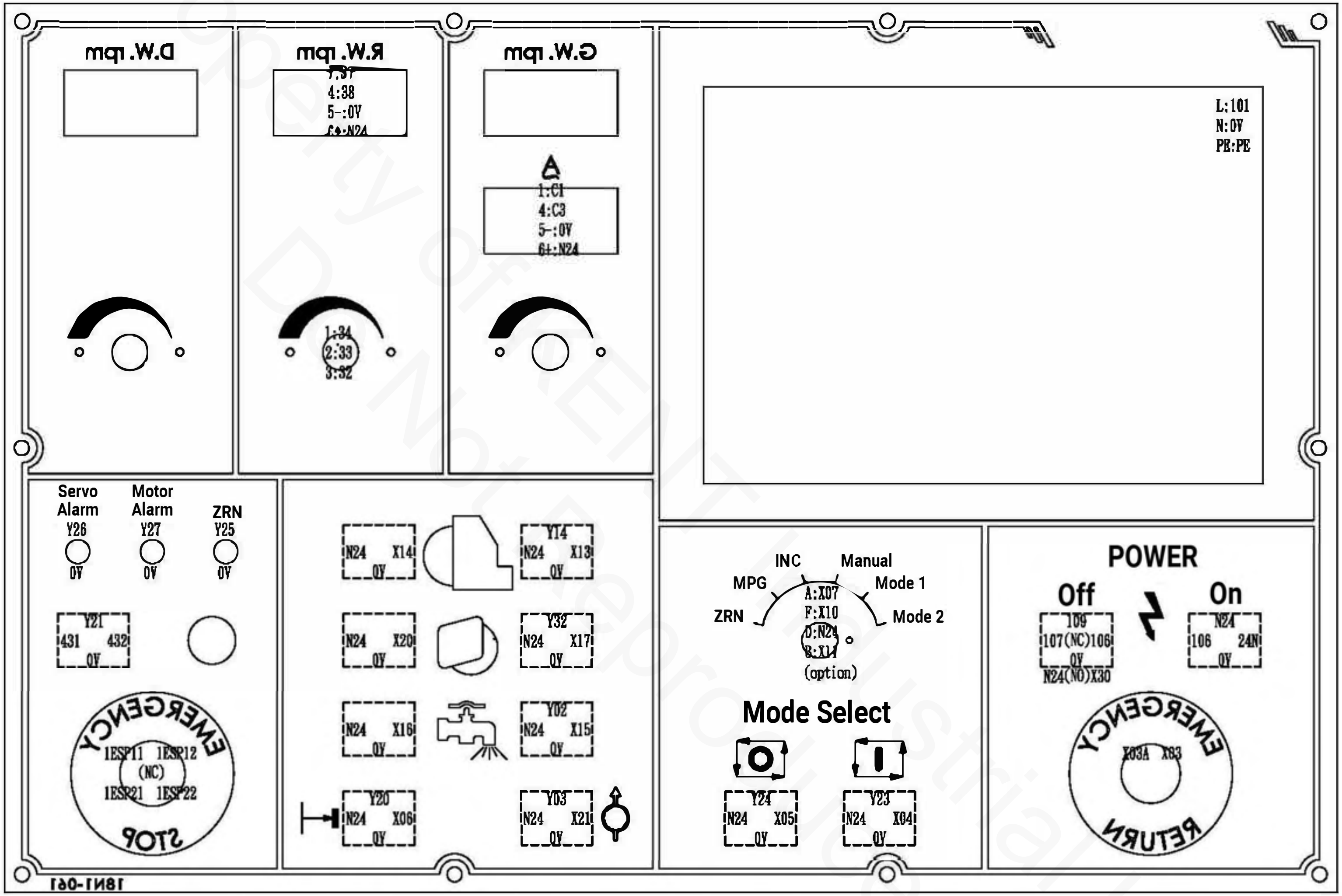
|---|---|---|---|---|---|---|---|---|---|---|
| | CHECK | | | | | | | | REVISE NO. | 00 |
| | DESIGN | | 2019 | 04 | 17 | | | | SHEET NO. | 1/4 |
| | DRAWN | | 2025 | 09 | 29 | DIAGRAM NAME | OPERATION'S PANE DIAGRAM | DIAGRAM NO. | EE-OPD001-JH111 | PAGE NO. 001B |




Reserved to external terminal strip (1 meter long): 1. N24, 0V (0.5 blue / 1C × 2)
2. X100, X101, Y10, X12, X22

Install protective cover when power is OFF

# FOR 12SNC011201Y

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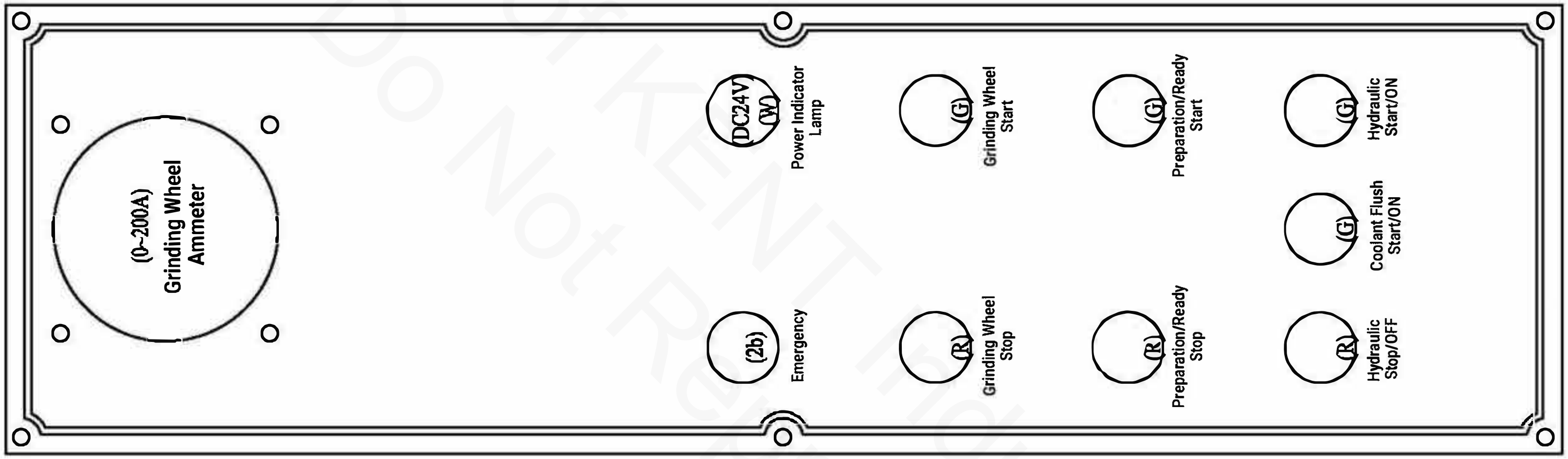
| | CHECK | | | | | | | | | REVISE NO. | 00 |
| | DESIGN | | 2019 | 04 | 17 | | | | | SHEET NO. | 2/4 |
| | DRAWN | | 2025 | 09 | 29 | DIAGRAM NAME | OPERATION'S PANE DIAGRAM | DIAGRAM NO. | EE-OPD002-JH111 | PAGE NO. | 002B |

Property of KENT Industrial USA Do Not Reproduce




# FOR 12SNC011201Y

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| | CHECK | | | | | | | | | REVISE NO. | 00 |
| | DESIGN | | 2019 | 04 | 17 | | | | | SHEET NO. | 3/4 |
| | DRAWN | | 2025 | 09 | 29 | DIAGRAM NAME | OPERATION'S PANE DIAGRAM | DIAGRAM NO. | EE-OPD003-JH111 | PAGE NO. | 003B |

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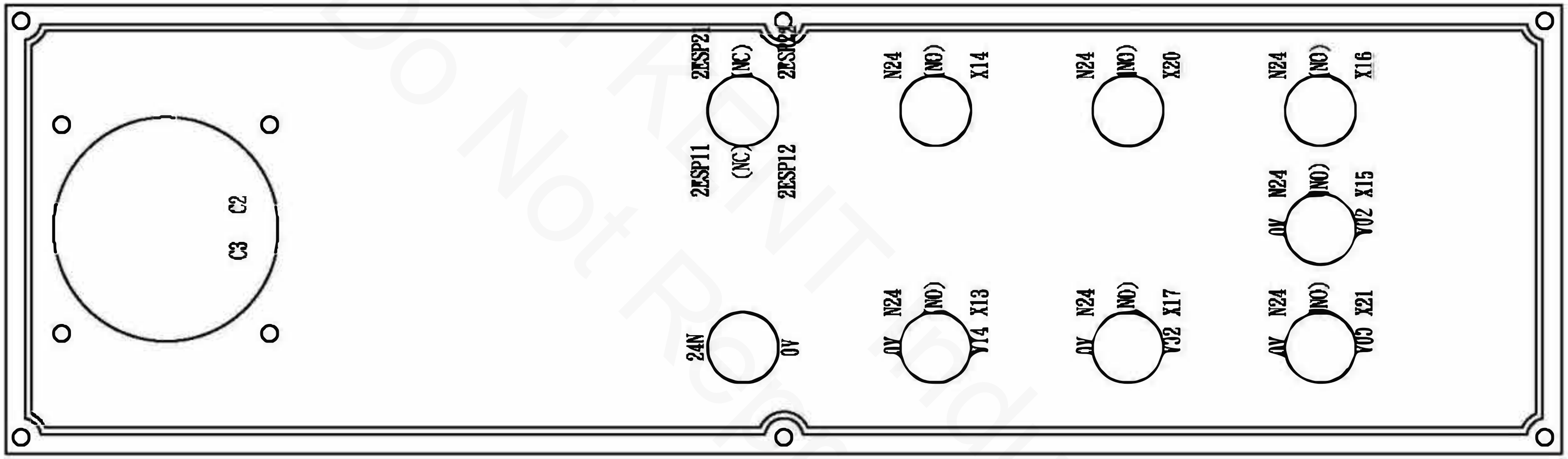
Do Not Reproduce




# FOR 12SNC011201Y

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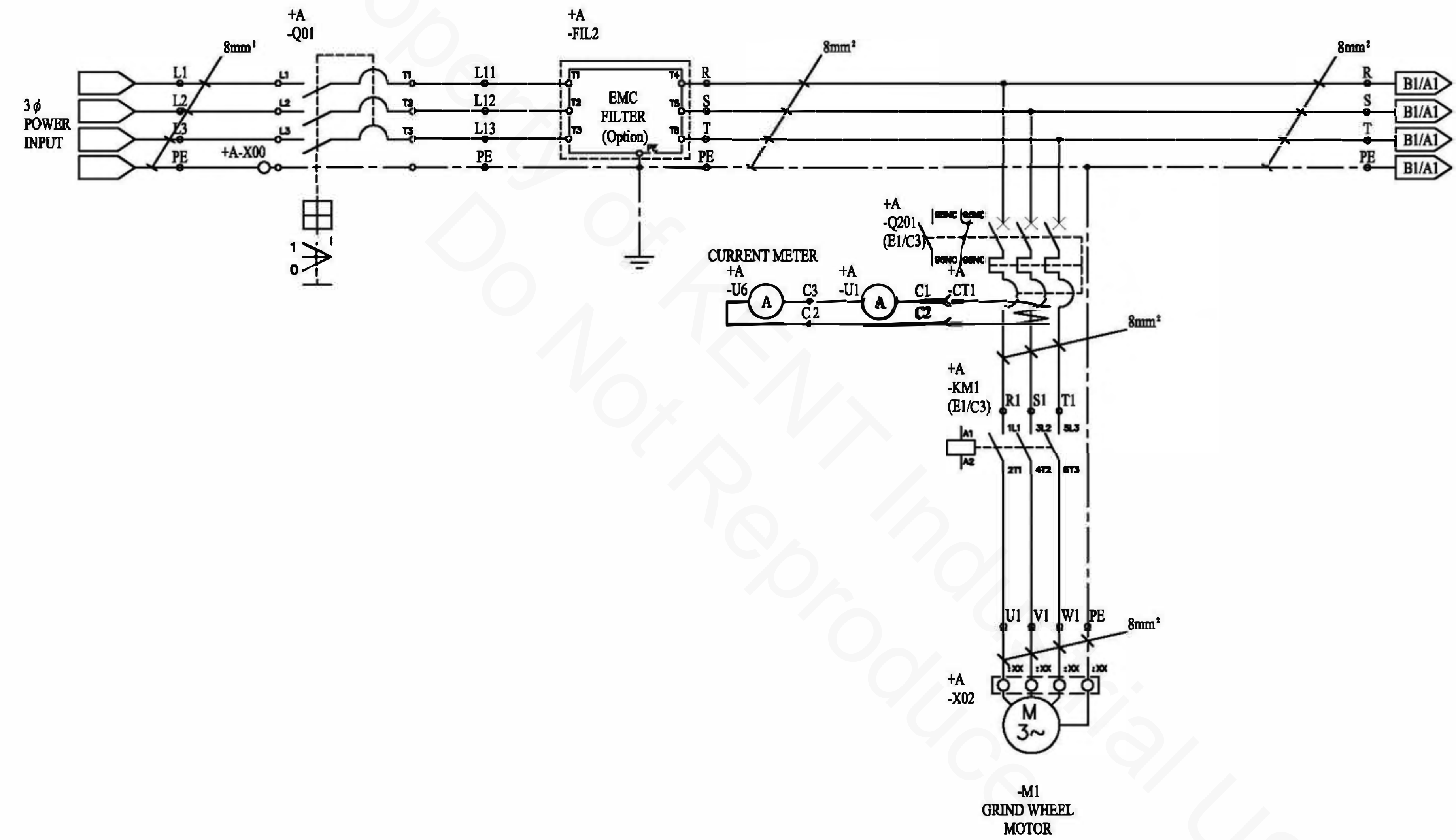
| | CHECK | | | | | | | | | REVISE NO. | 00 |
| | DESIGN | | 2019 | 04 | 17 | | | | | SHEET NO. | 4/4 |
| | DRAWN | | 2025 | 09 | 17 | DIAGRAM NAME | OPERATION'S PANE DIAGRAM | DIAGRAM NO. | EE-OPD004-JH111 | PAGE NO. | 004B |

Property of KENT Industrial USA Do Not Reproduce

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|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHECK | | | | | | | | | REVISE NO. | 00 |
| | DESIGN | | 2019 | 04 | 17 | | | | | SHEET NO. | 1/1 |
| | DRAWN | | 2019 | 09 | 12 | DIAGRAM NAME | MAIN POWER CIRCUIT | DIAGRAM NO. | EE-MPC001-JH111 | PAGE NO. | A1_12 |

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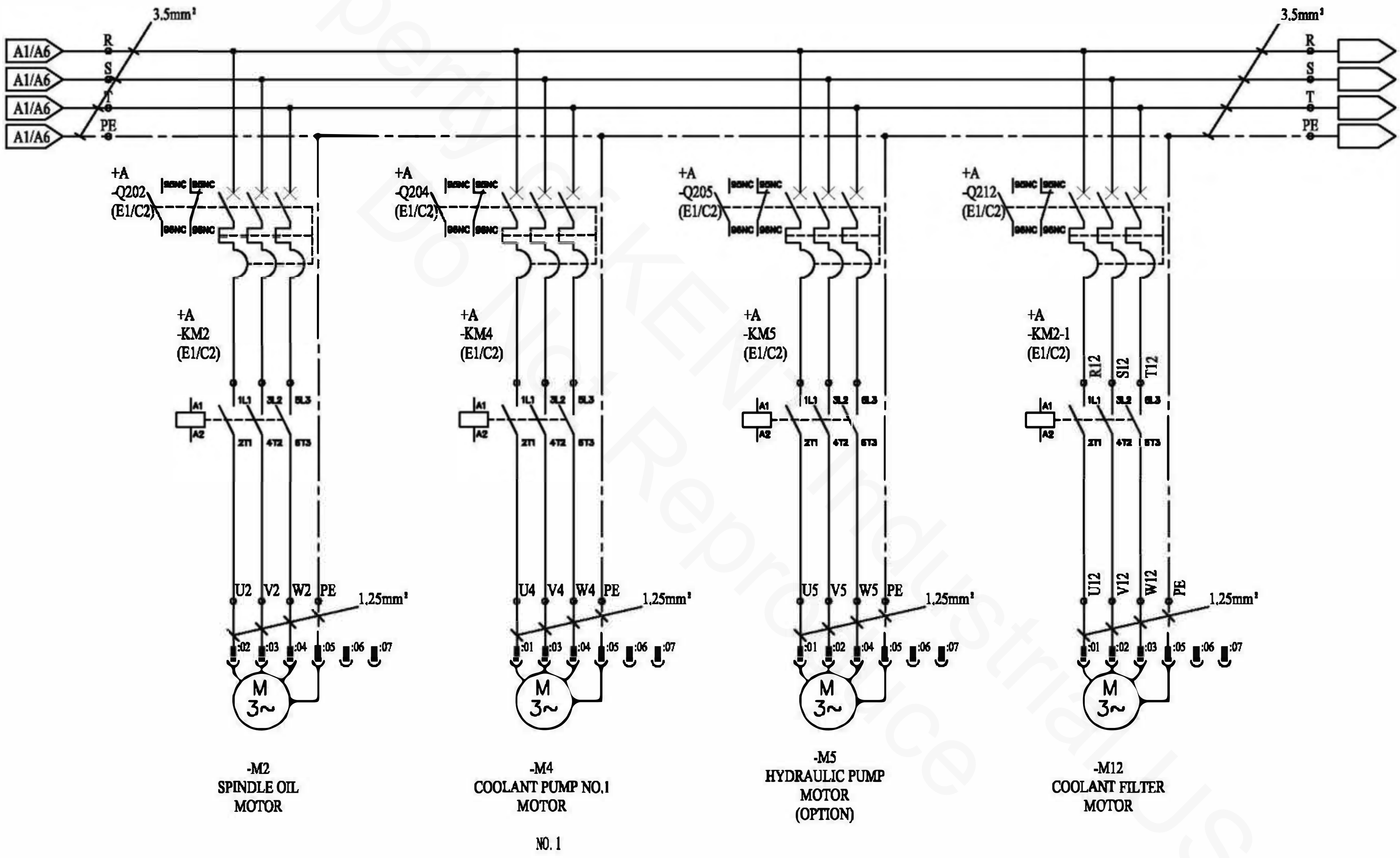
Do Not Reproduce




Property of KEN Industrial USA
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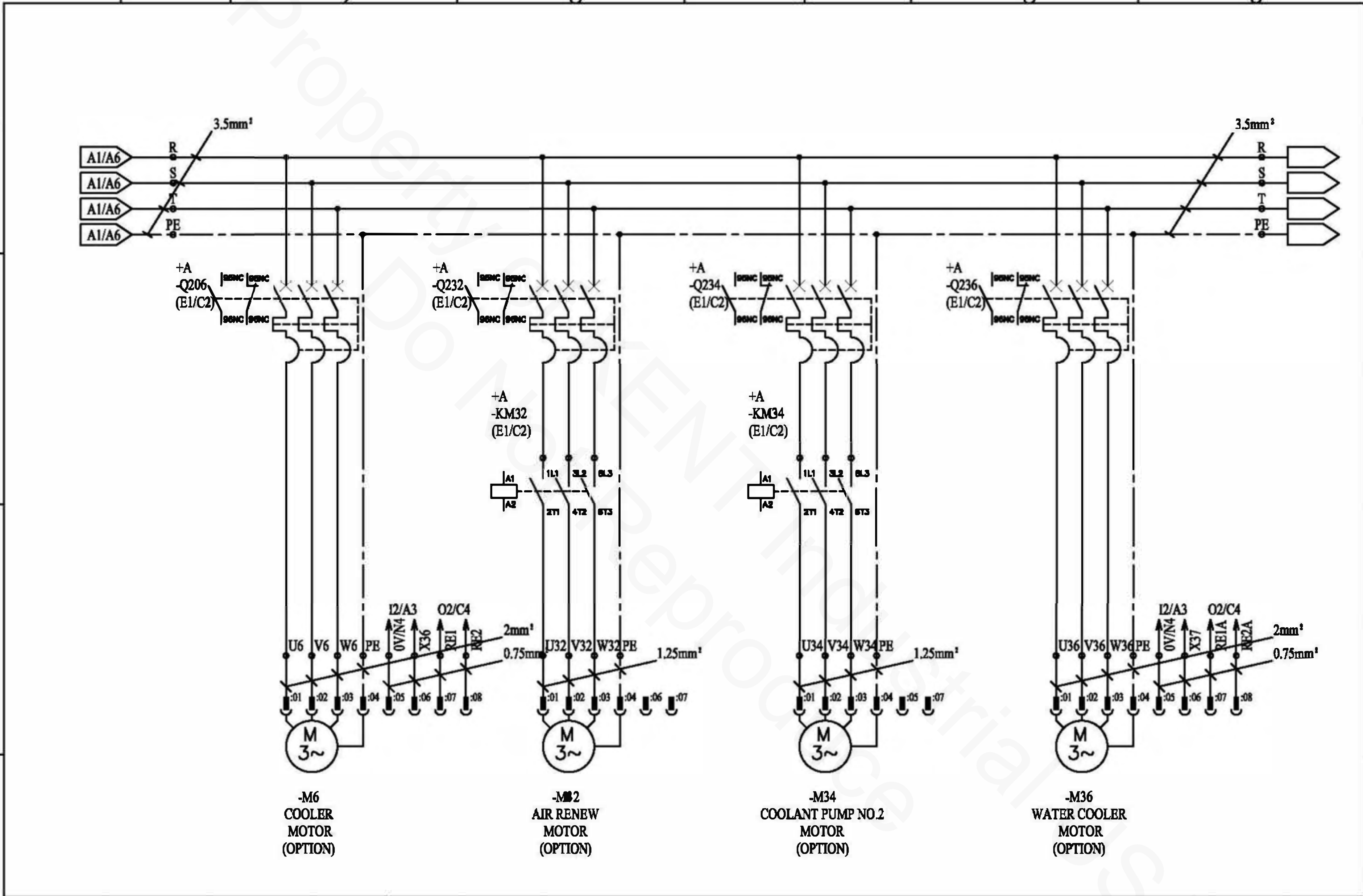
| | CHECK | | | | | | | | REVISE NO. | 00 |
| | DESIGN | | 2019 | 04 | 17 | | | | SHEET NO. | 1/4 |
| | DRAWN | | 2019 | 04 | 17 | DIAGRAM NAME | MOTOR CONTROL CIRCUIT | DIAGRAM NO. EE-MCC001-JH111 | PAGE NO. | B1 |




Property of KENT Industrial USA
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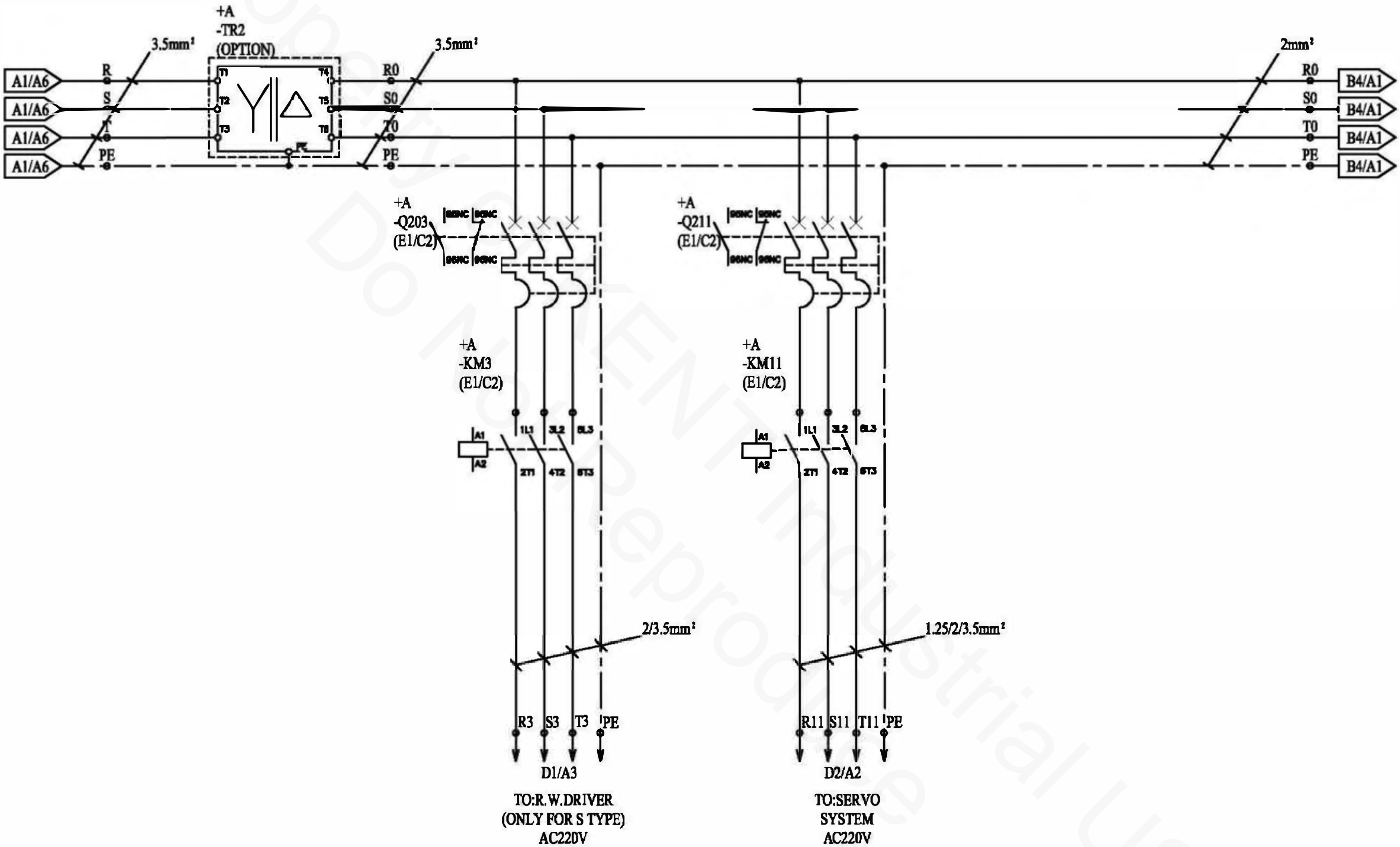
|---|---|---|---|---|---|---|---|---|---|---|
| CHECK | | | | | | | | | REVISE NO. | 00 |
| DESIGN | | 2019 | 04 | 17 | | | | | SHEET NO. | 2/4 |
| DRAWN | | 2025 | 09 | 29 | DIAGRAM NAME | MOTOR CONTROL CIRCUIT | DIAGRAM NO. | EE-MCC002-JH111 | PAGE NO. | B2 |

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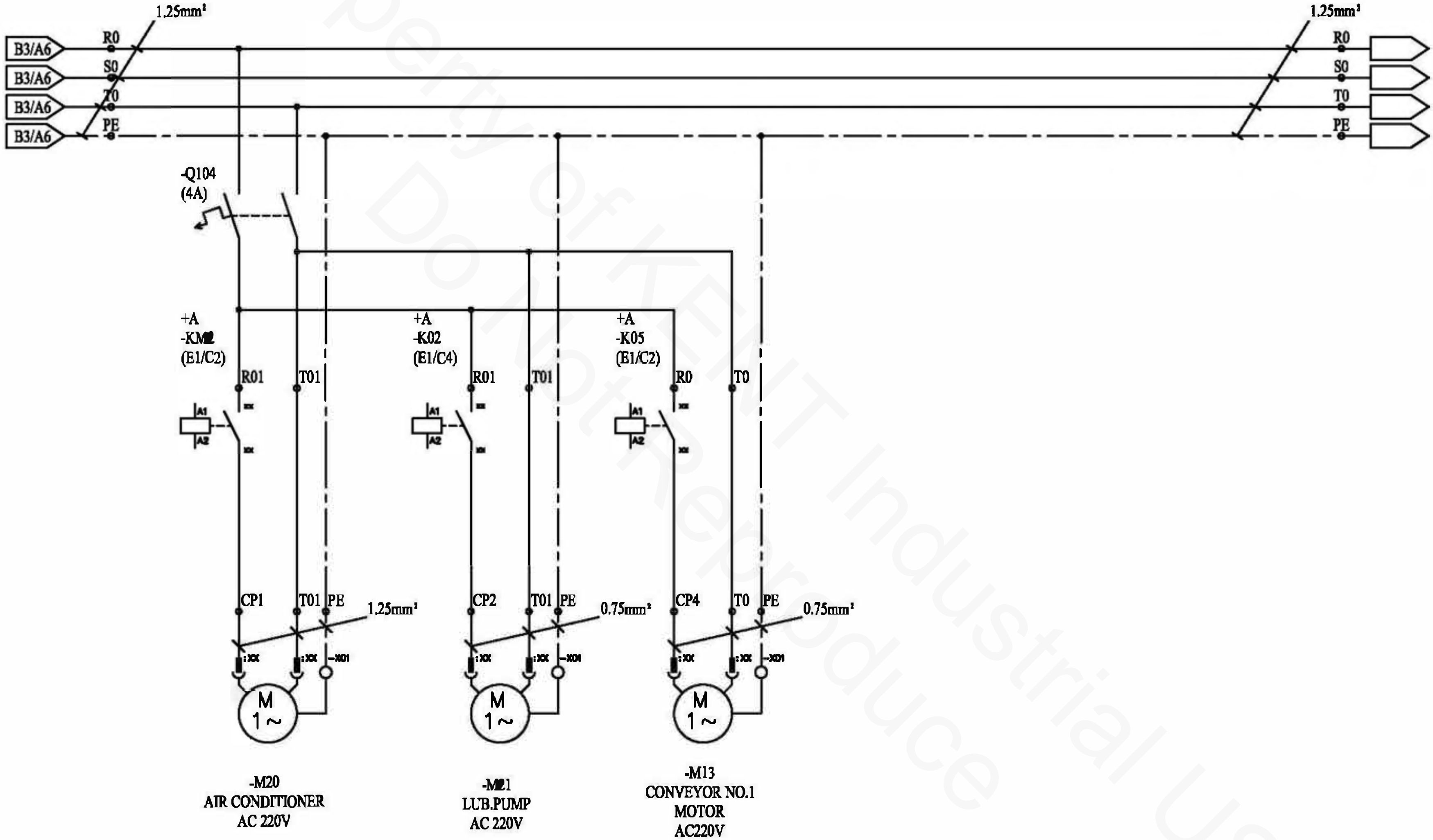
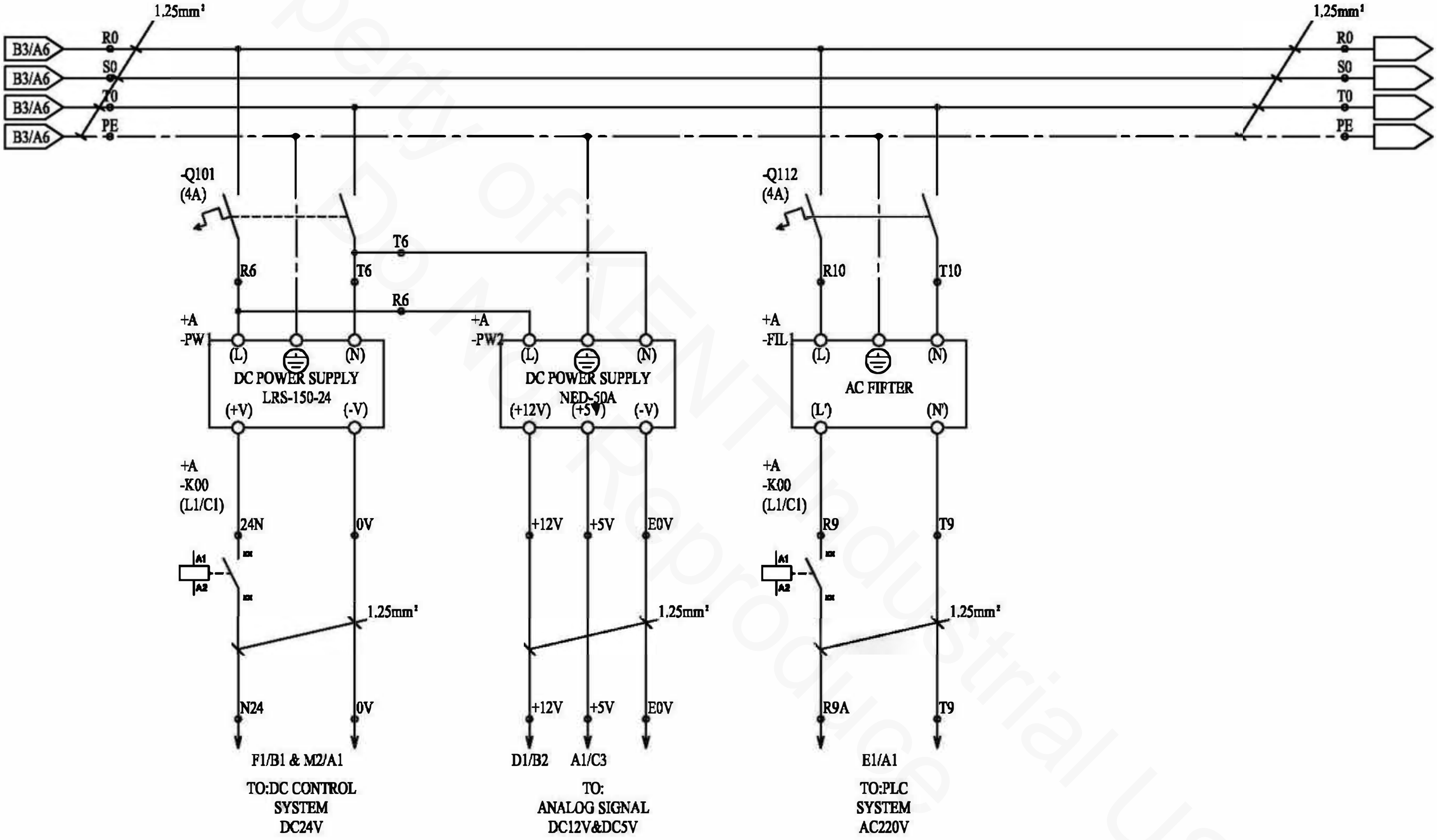
| | CHECK | | | | | | | | | REVISE NO. | 00 |
| | DESIGN | | 2019 | 04 | 17 | | | | | SHEET NO. | 3/4 |
| | DRAWN | | 2025 | 09 | 29 | DIAGRAM NAME | MOTOR CONTROL CIRCUIT | DIAGRAM NO. | EE-MCC003-JH111 | PAGE NO. | B3 |




| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHECK | | | | | | | | | REVISE NO. | 00 |
| | DESIGN | | 2019 | 04 | 17 | | | | | SHEET NO. | 4/4 |
| | DRAWN | | 2019 | 05 | 03 | DIAGRAM NAME | MOTOR CONTROL CIRCUIT | DIAGRAM NO. | EE-MCC004-JH111 | PAGE NO. | B4 |

Property of KENT Industrial USA
Do Not Reproduce




Property of KENT Industrial USA
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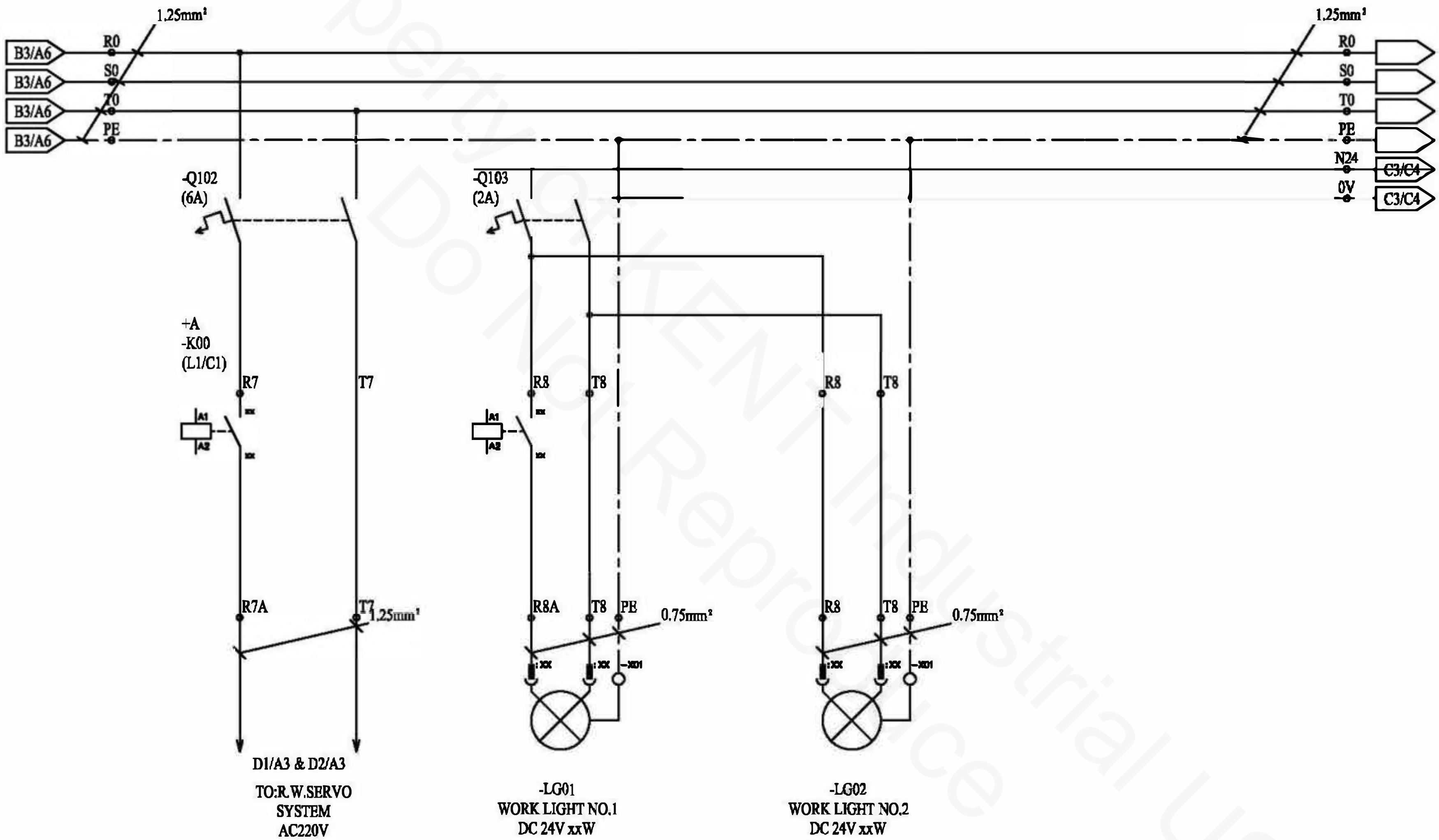
|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHECK | | | | | | | | | REVISE NO. | 00 |
| | DESIGN | | 2019 | 04 | 17 | | | | | SHEET NO. | 1/2 |
| | DRAWN | | 2021 | 04 | 17 | DIAGRAM NAME | CONTROL POWER CIRCUIT | DIAGRAM NO. | EE-CPC001-JH111 | PAGE NO. | C1 |

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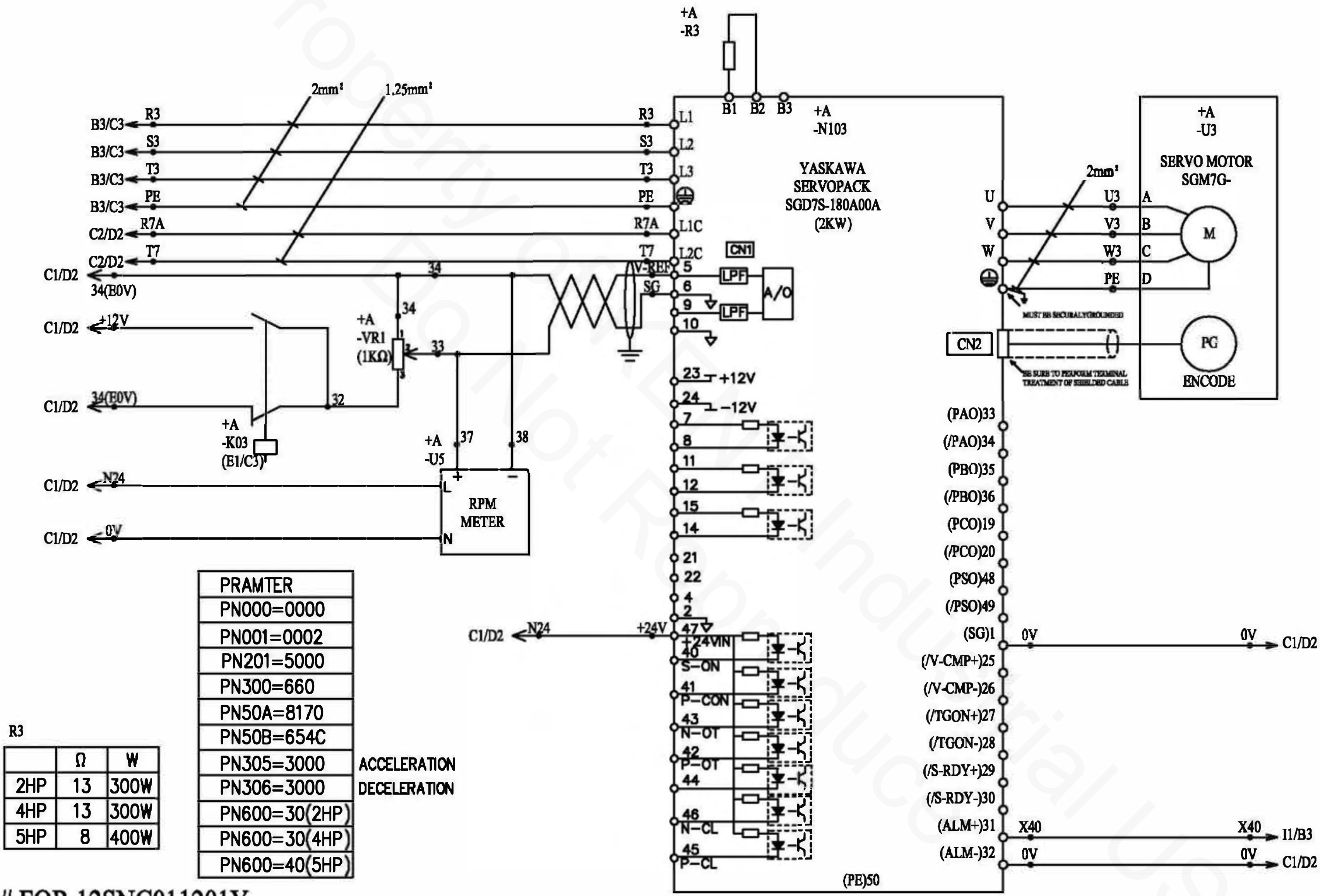
| | CHECK | | | | | | | | | REVISE NO. | 00 |
| | DESIGN | | 2019 | 04 | 17 | | | | | SHEET NO. | 2/2 |
| | DRAWN | | 2019 | 05 | 01 | DIAGRAM NAME | WORK LIGHT CIRCUIT | DIAGRAM NO. | EE-WLC001-JH111 | PAGE NO. | C2 |




| PRAMTER | |
|---|---|
| PN000=0000 | |
| PN001=0002 | |
| PN201=5000 | |
| PN300=660 | |
| PN50A=8170 | |
| PN50B=654C | |
| PN305=3000 | ACCELERATION |
| PN306=3000 | DECELERATION |
| PN600=30(2HP) | |
| PN600=30(4HP) | |
| PN600=40(5HP) | |

R3

| | Ω | W |
|---|---|---|
| 2HP | 13 | 300W |
| 4HP | 13 | 300W |
| 5HP | 8 | 400W |

# FOR 12SNC011201Y

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | CHECK | | | | | | | REVISE NO. | 00 |
| | DESIGN | | 2019 | 04 | 17 | | | SHEET NO. | 1/1 |
| | DRAWN | | 2025 | 09 | 29 | DIAGRAM NAME | R.W CONTROL CIRCUIT | DIAGRAM NO. EE-RWC001-JH111 | PAGE NO. D1C |

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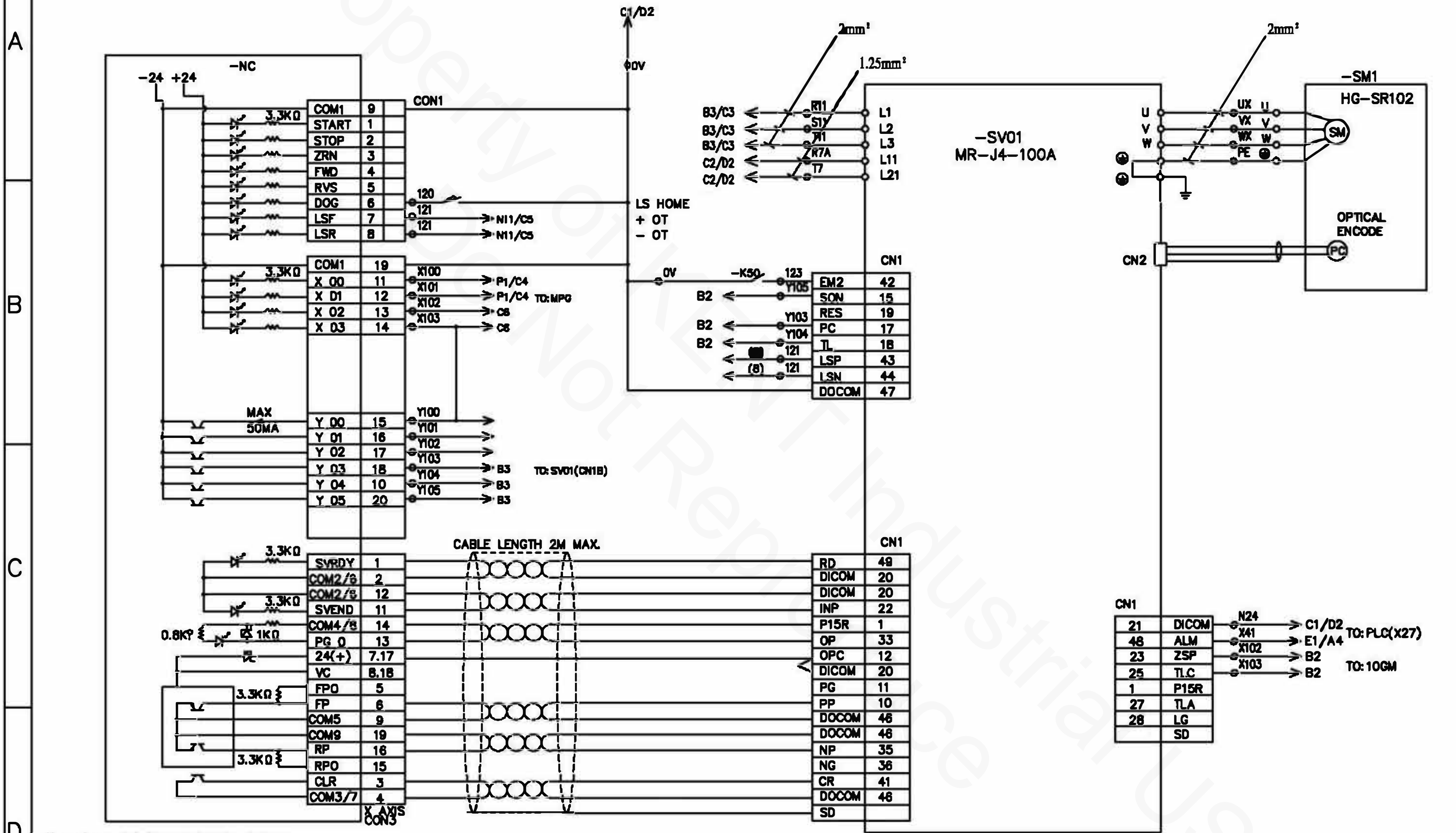


# FOR 12SNC011201Y

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| CHECK | | | | | | | REVISE NO. | 00 |
| DESIGN | | 2019 | 04 | 17 | | | SHEET NO. | 1/1 |
| DRAWN | | 2025 | 09 | 29 | DIAGRAM NAME | SERVO CONTROL CIRCUIT | DIAGRAM NO. EESCC001-JH111 | PAGE NO. D2B |

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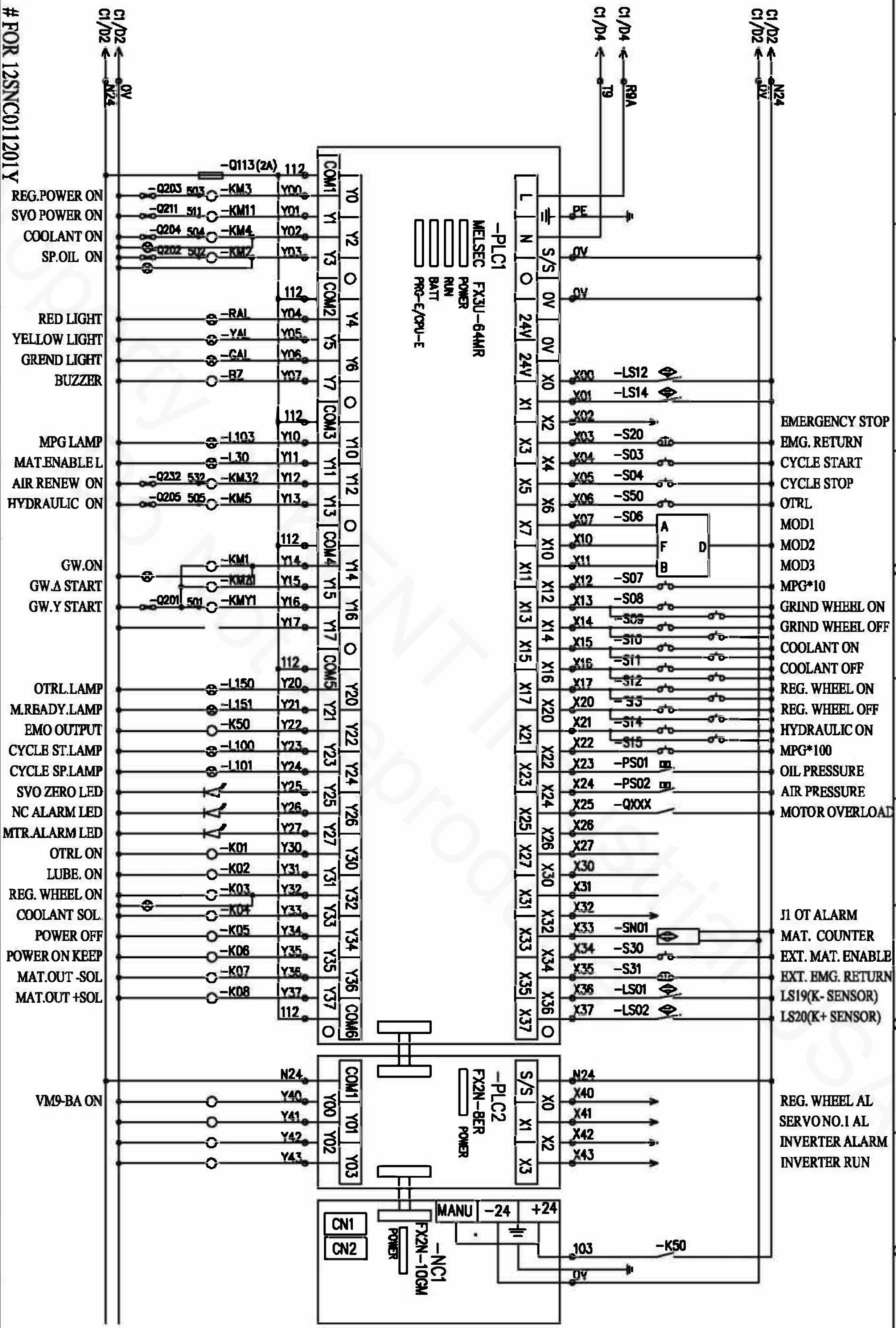
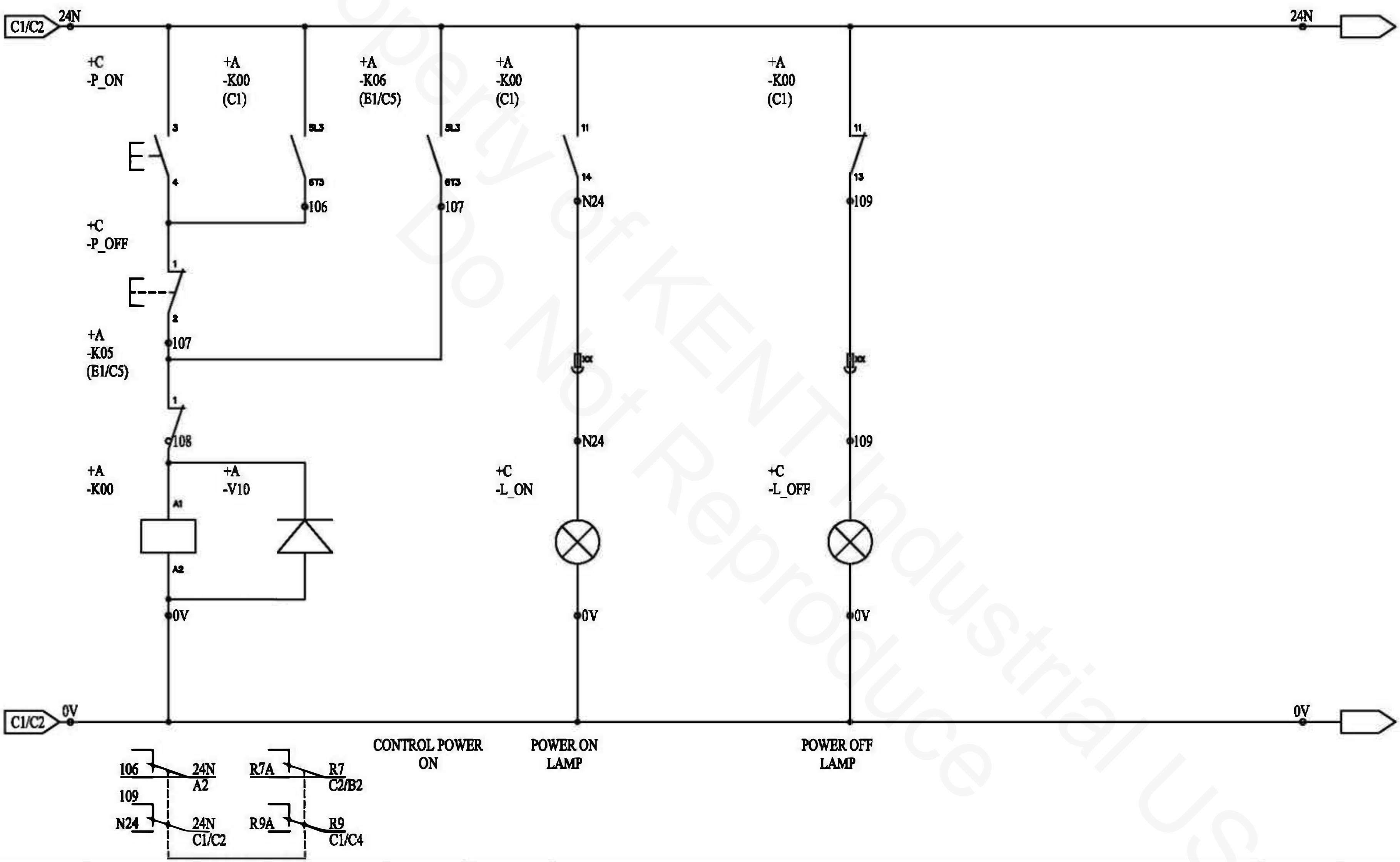



| | | |
|---|---|---|
| CHECK | | |
| DESIGN | 2025 09 29 | |
| DRAWN | 2025 09 29 | |
| DIAGRAM NAME | PLC CONTROL CIRCUIT | |
| DIAGRAM NO. | EE-PLC001-JH111 | |
| REVISE NO. | 00 | |
| SHEET NO. | 1/1 | |
| PAGE NO. | E1_CE | |

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Do Not Reproduce

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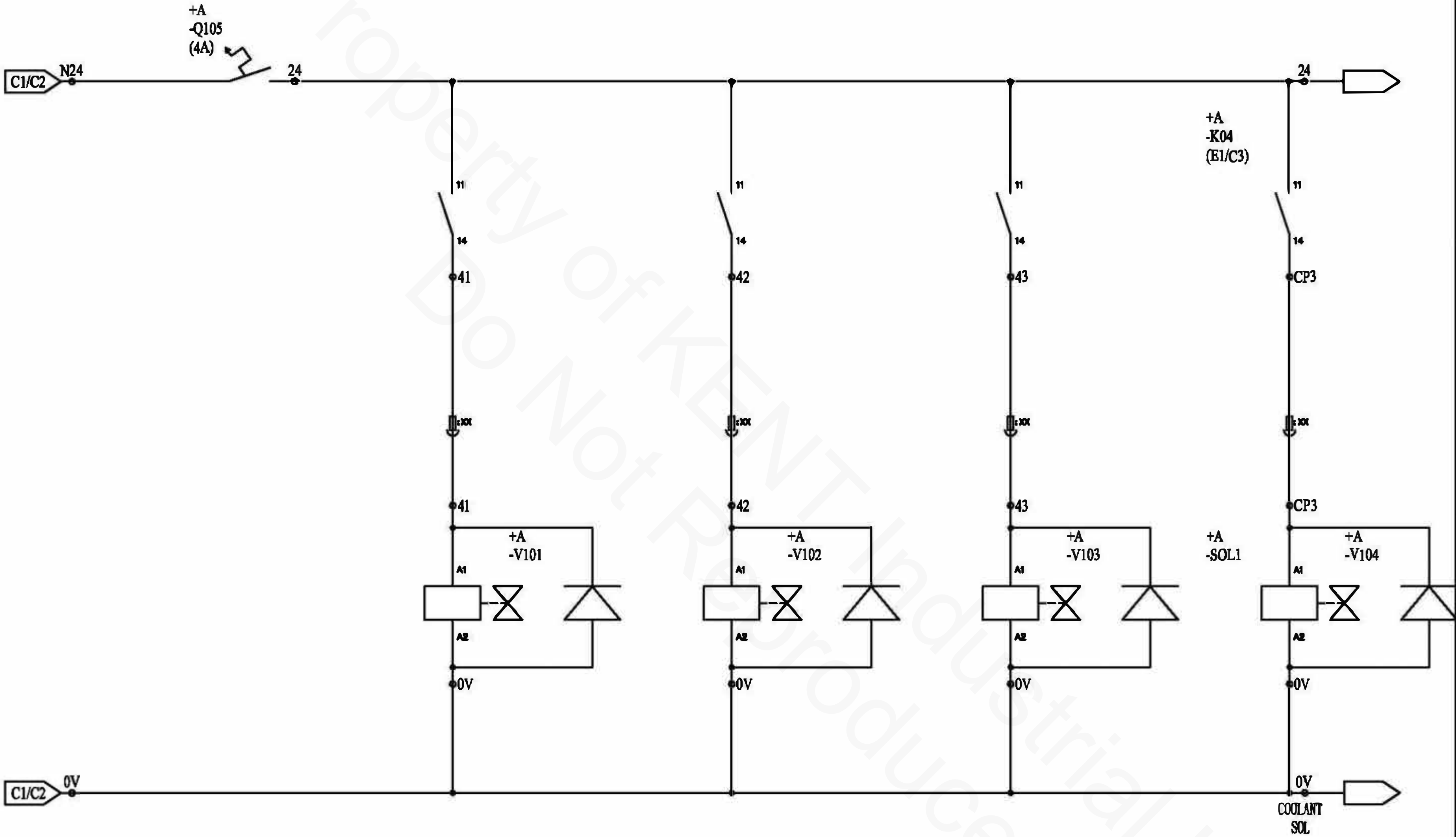
| CHECK | | | | | | | REVISE NO. | 00 |
| DESIGN | | 2019 | 04 | 17 | | | SHEET NO. | 1/5 |
| DRAWN | | 2019 | 05 | 01 | DIAGRAM NAME | DC24V CONTROL CIRCUIT | DIAGRAM NO. EE-DCC001-JH111 | PAGE NO. L1 |

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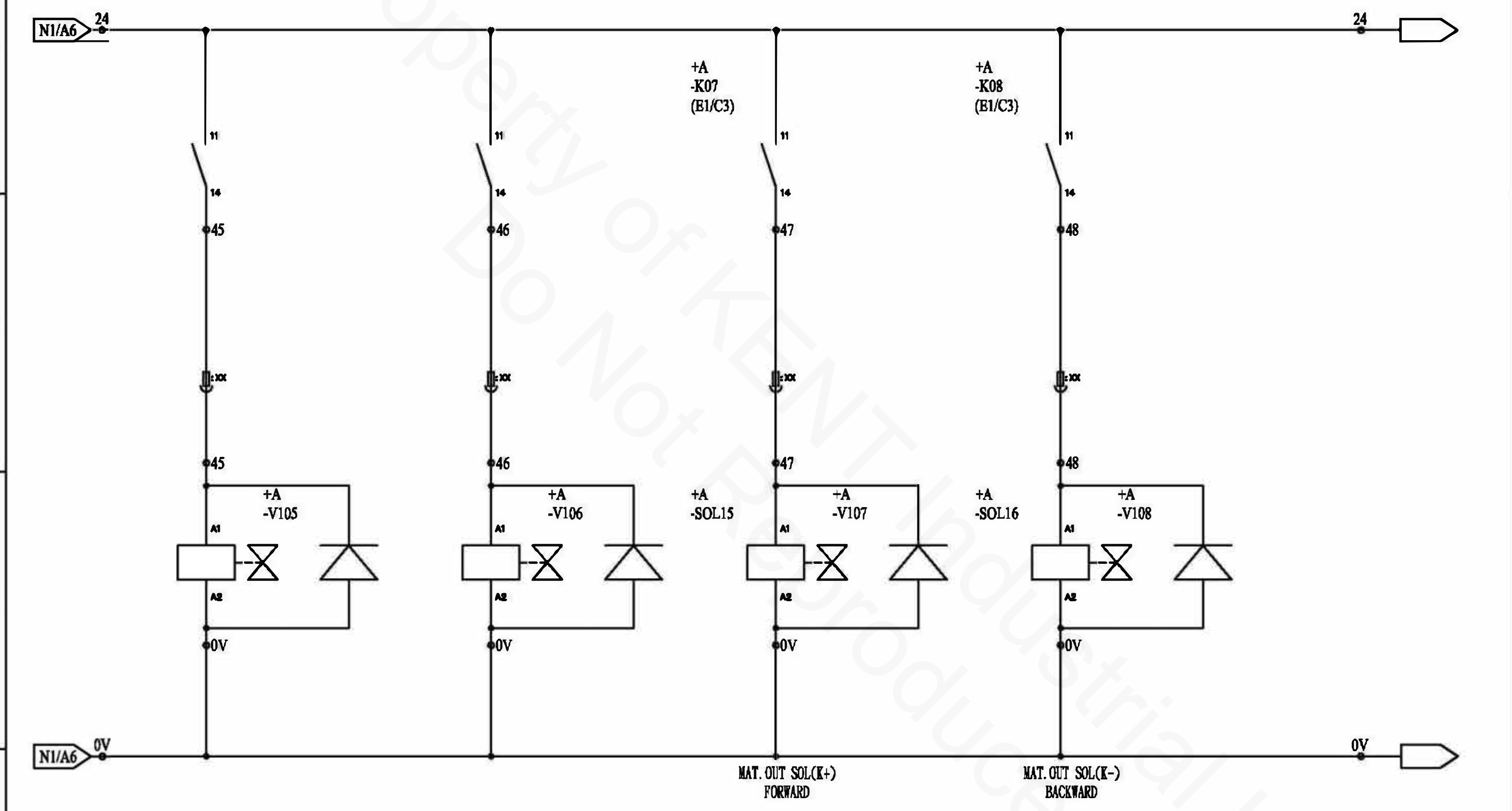
|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHECK | | | | | | | | | REVISE NO. | 00 |
| | DESIGN | | 2019 | 04 | 17 | | | | | SHEET NO. | 2/7 |
| | DRAWN | | 2020 | 02 | 17 | DIAGRAM NAME | DC24V CONTROL CIRCUIT | DIAGRAM NO. | EE-DCC002-JH111 | PAGE NO. | N1 |

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| | CHECK | | | | | | | | | REVISE NO. | 00 |
| | DESIGN | | 2019 | 04 | 17 | | | | | SHEET NO. | 3/7 |
| | DRAWN | | 2019 | 05 | 01 | DIAGRAM NAME | DC24V CONTROL CIRCUIT | DIAGRAM NO. | EE-DCC003-JH111 | PAGE NO. | N2 |

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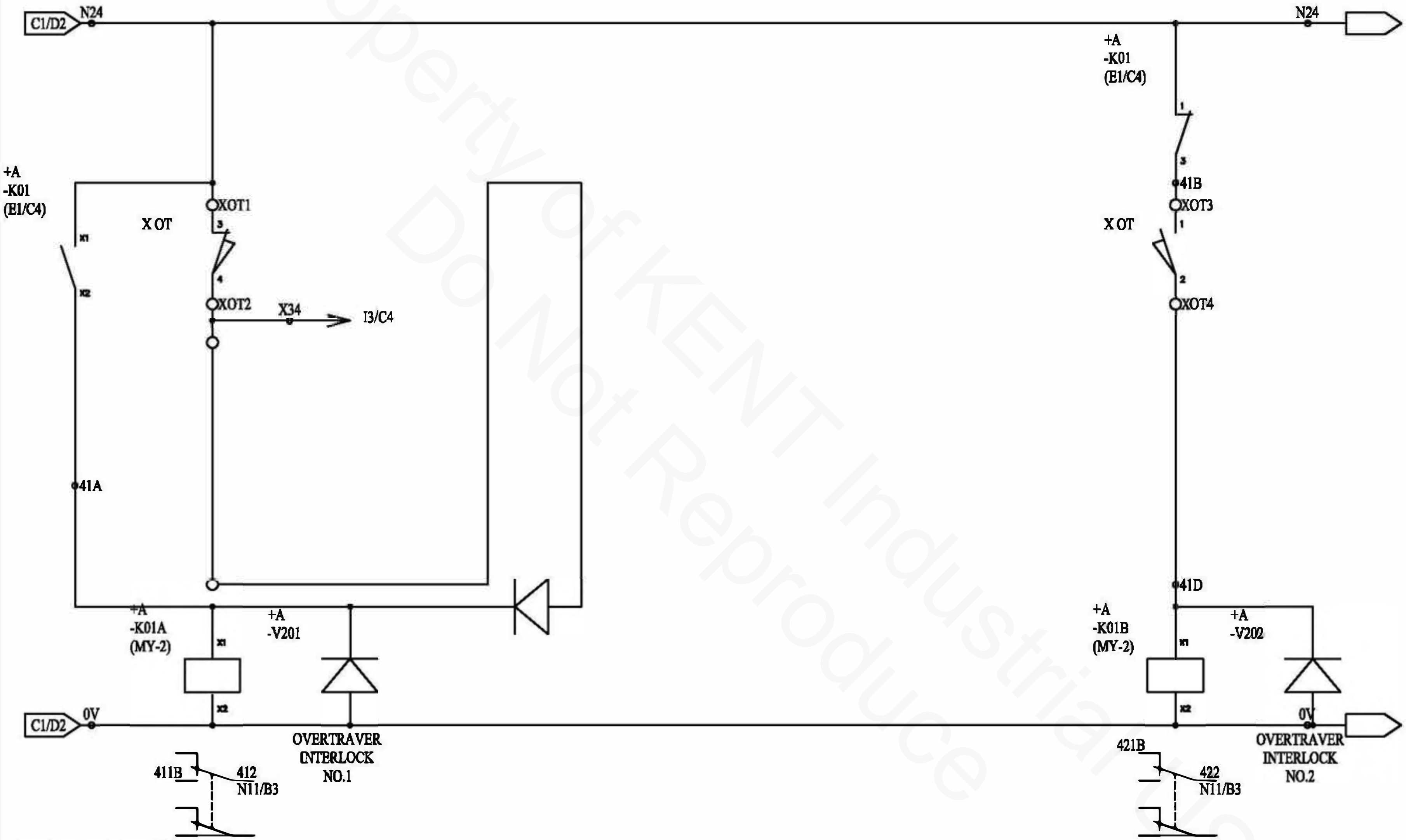
Do Not Reproduce

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# FOR 12SNC011201Y

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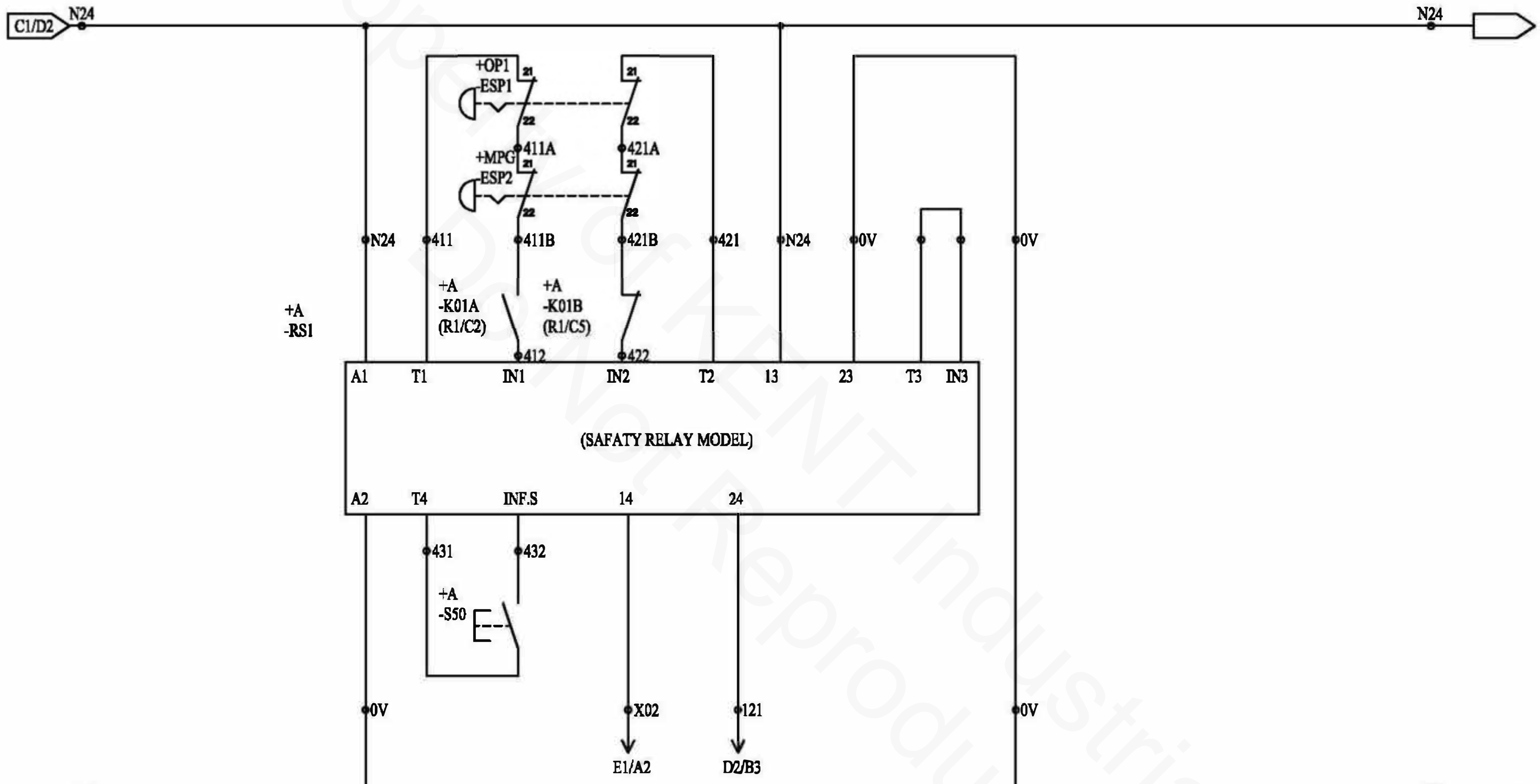
| | CHECK | | | | | | | | | REVISE NO. | 00 |
| | DESIGN | | 2025 | 09 | 29 | | | | | SHEET NO. | 1/2 |
| | DRAWN | | 2025 | 09 | 30 | DIAGRAM NAME | SAFATY RELAY MODE CIRCUIT | DIAGRAM NO. | EE-SAF001-JH111 | PAGE NO. | N10 |

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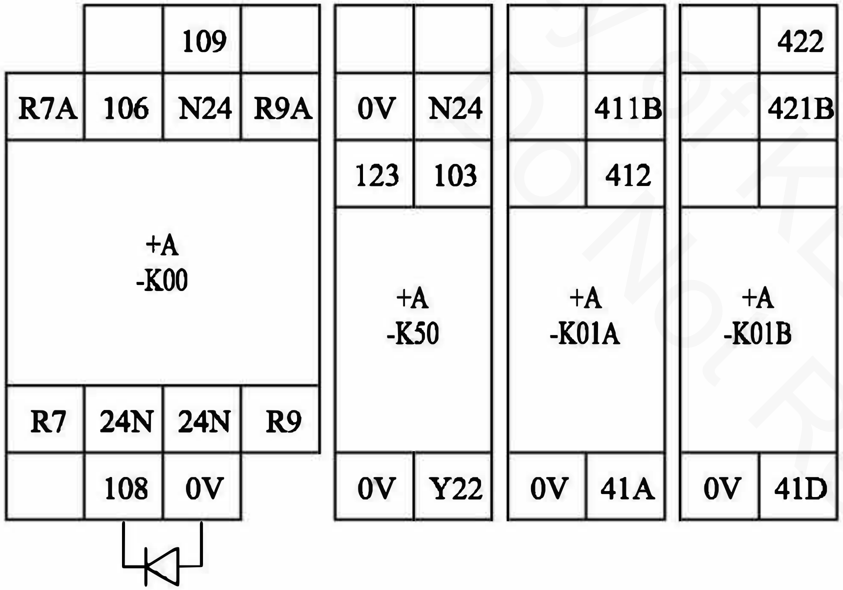
| | CHECK | | | | | | | | | REVISE NO. | 00 |
| | DESIGN | | 2025 | 09 | 29 | | | | | SHEET NO. | 2/2 |
| | DRAWN | | 2025 | 09 | 30 | DIAGRAM NAME | SAFATY RELAY MODE CIRCUIT | DIAGRAM NO. | EE-SAF002-JH111 | PAGE NO. | N11 |




# FOR 12SNC011201Y

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| | CHECK | | | | | | | | | REVISE NO. | 00 |
| | DESIGN | | 2025 | 09 | 29 | | | | | SHEET NO. | 1/4 |
| | DRAWN | | 2025 | 09 | 30 | DIAGRAM NAME | RELAY BOARD DIAGRAM | DIAGRAM NO. | EE-RYD001-JH111 | PAGE NO. | O1A |

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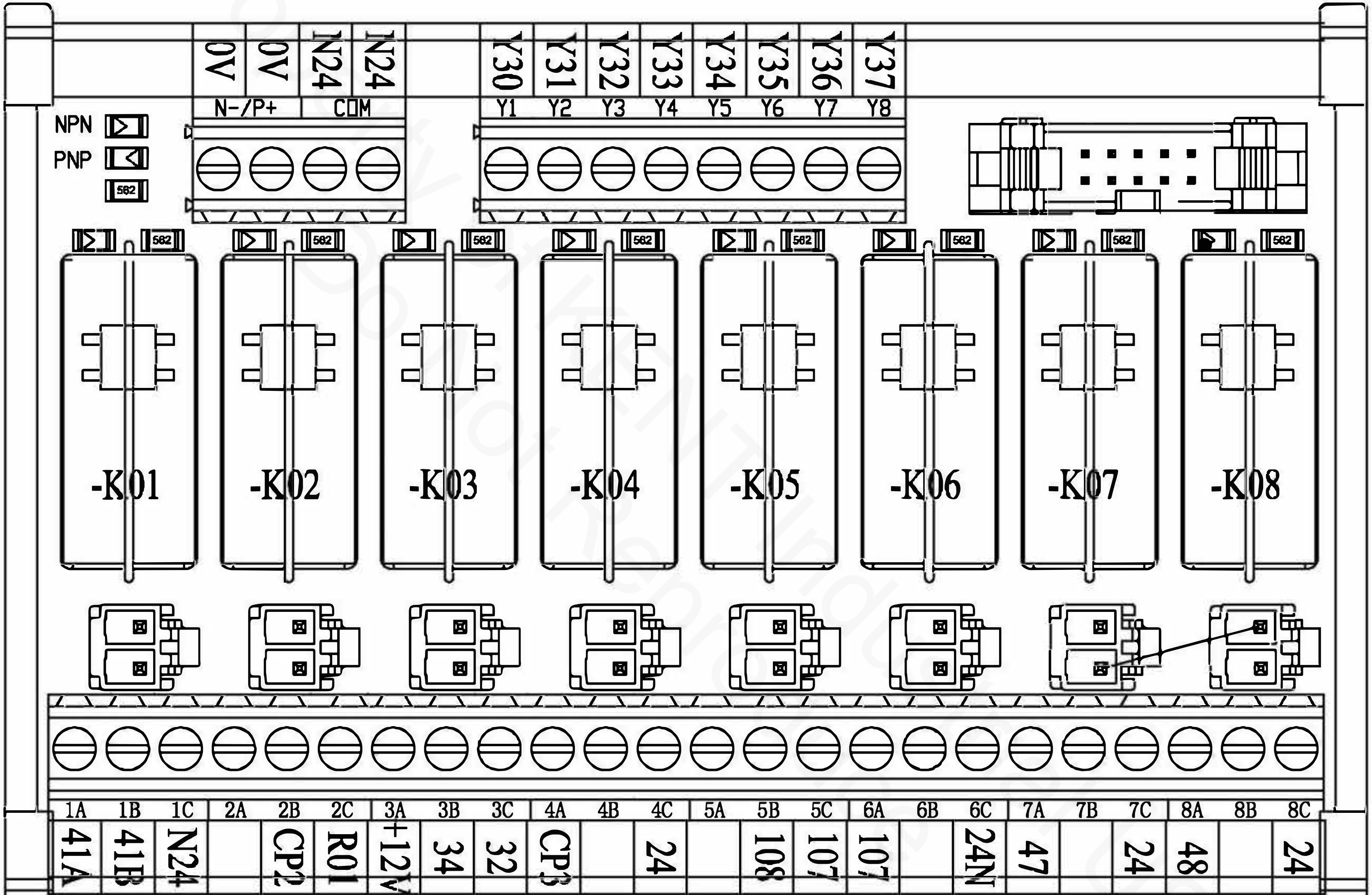
+A-RB01

# RELAY BOARD : RY8RT-T-JSP




# FOR 12SNC011201Y

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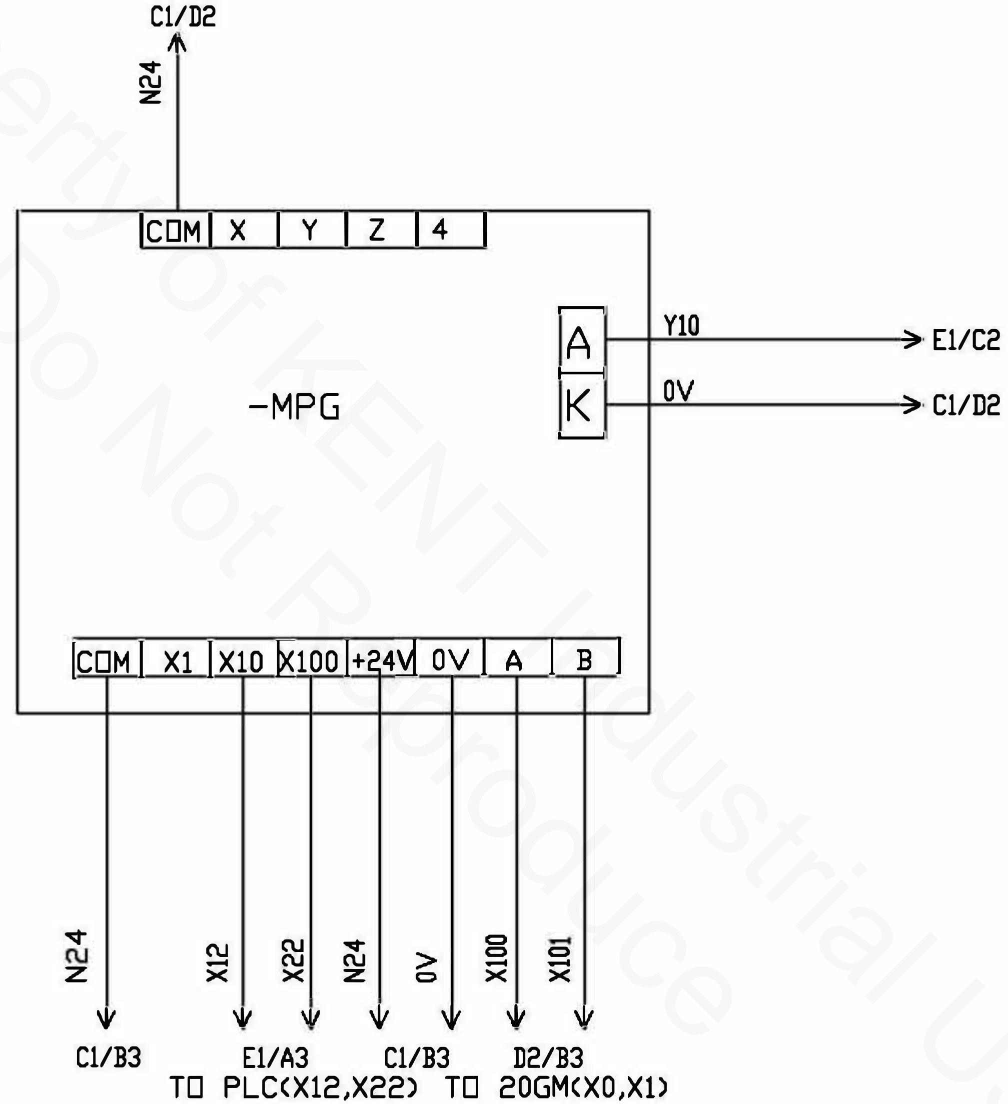
| CHECK | | | | | | | | REVISE NO. | 00 |
| DESIGN | | 2025 | 09 | 29 | | | | SHEET NO. | 2/4 |
| DRAWN | | 2025 | 09 | 30 | DIAGRAM NAME | RELAY BOARD DIAGRAM | DIAGRAM NO. EE-RYD002-JH111 | PAGE NO. | O2A |




# FOR 12SNC011201Y

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| | CHECK | | | | | | | | | REVISE NO. | 00 |
| | DESIGN | | 2025 | 09 | 29 | | | | | SHEET NO. | 1/1 |
| | DRAWN | | 2025 | 09 | 30 | DIAGRAM NAME | MPG CONTROL CIRCUIT | DIAGRAM NO. | EE-MPG001-JH111 | PAGE NO. | P1A |

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## Hood-Type (Amphenol-style) 50-Pin Wiring Code Table (MP1)

| A1 | B1 | A2 | B2 | A3 | B3 | A4 | B4 | A5 | B5 | A6 | B6 | A7 | B7 | A8 | B8 | A9 | B9 | A10 | B10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Purple B1 | Purple B2 | Purple B3 | Purple B4 | Purple B5 | Purple R1 | Purple R2 | Purple R3 | Purple R4 | Purple R5 | Gray B1 | Gray B2 | Gray B3 | Gray B4 | Gray B5 | Gray R1 | Gray R2 | Gray R3 | Gray R4 | Gray R5 |
| 411 | 411A | 421 | 421A | X03 | X04 | X05 | X06 | X07 | X10 | X11 | X12 | X13 | X14 | X15 | X16 | X17 | X20 | X21 | X22 |

| A11 | B11 | A12 | B12 | A13 | B13 | A14 | B14 | A15 | B15 | A16 | B16 | A17 | B17 | A18 | B18 | A19 | B19 | A20 | B20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Yellow B1 | Yellow B2 | Yellow B3 | Yellow B4 | Yellow B5 | Yellow R1 | Yellow R2 | Yellow R3 | Yellow R4 | Yellow R5 | Red B1 | Red B2 | Red B3 | Red B4 | Red B5 | Red R1 | Red R2 | Red R3 | Red R4 | Red R5 |
| X03A | X30 | Y21 | Y02 | Y03 | Y14 | Y23 | Y24 | Y25 | Y26 | Y27 | Y32 | Y20 | 24N | 24N | 106 | 106 | 107 | 107 | 109 |

| A21 | B21 | A22 | B22 | A23 | B23 | A24 | B24 | A25 | B25 |
|---|---|---|---|---|---|---|---|---|---|
| White B1 | White B2 | White B3 | White B4 | White B5 | White R1 | White R2 | White R3 | White R4 | White R5 |
| 32 | 33 | 34 | X100 | X101 | Y10 | N24 | N24 | 0V | 0V |

The 50-PIN connector: Purple B1 means the wire color is purple;
B1 indicates black with one dot; B5 indicates black with a long dot/stripe;
R1 indicates red with one dot; R5 indicates red with a long dot/stripe;
the rest follow by the same rule.

# FOR 12SNC011201Y

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | CHECK | | | | | | | | | REVISE NO. | 00 |
| | DESIGN | | 2019 | 04 | 17 | | | | | SHEET NO. | 1/1 |
| | DRAWN | | 2019 | 05 | 02 | DIAGRAM NAME | CONNECTOR DIAGRAM | DIAGRAM NO. | EE-CND001-JH111 | PAGE NO. | P2A |

## Hood-type (Amphenol-style) 20-Pin Wiring Code Table (MP3)

| A1 | B1 | A2 | B2 | A3 | B3 | A4 | B4 | A5 | B5 | A6 | B6 | A7 | B7 | A8 | B8 | A9 | B9 | A10 | B10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Yellow B1 | Yellow R1 | Yellow B2 | Yellow R2 | Yellow B3 | Yellow R3 | Yellow B4 | Yellow R4 | Yellow B5 | Yellow R5 | White B1 | White R1 | White B2 | White R2 | White B3 | White R3 | White B4 | White R4 | White B5 | White R5 |
| X13 | X14 | X15 | X16 | X17 | X20 | X21 | 105 | 24N | 24N | 0V | 0V | 411A | 411B | 421A | 421B | C2 | C2 | C3 | C3 |

**In the 20-PIN connector: Purple B1 means the wire color is purple;**
**B1 indicates black with one dot; B5 indicates black with a long dot/stripe;**
**R1 indicates red with one dot; R5 indicates red with a long dot/stripe;**
**the rest follow by the same rule.**

# FOR 12SNC011201Y

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | CHECK | | | | | | | | REVISE NO. | 00 |
| | DESIGN | | 2025 | 09 | 29 | | | | SHEET NO. | 2/3 |
| | DRAWN | | 2025 | 09 | 30 | DIAGRAM NAME | CONNECTOR DIAGRAM | DIAGRAM NO. EE-CND003-JH111 | PAGE NO. | P3A |

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# SPECIFICATION CAPACITY
(BOM:EE-JH-DY_250506001-JH111)

| ITEM / SPECIFICATION / VOLTAGE | M1(7.5HP) | | | | M2(1HP) | | M4(1/4HP) | | M5( ) | | M6( ) | | M12(25W) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | KM1 | KMΔ1 | KMY1 | Q201 | KM2 | Q202 | KM4 | Q204 | KM5 | Q205 | | Q206 | | Q212 |
| AC220V | S0-26<br>25A | | | S0<br>27A | S00-16<br>9A | S00<br>3.5A | S00-16<br>9A | S00<br>1.2A | | | | | | S00<br>0.7A |
| AC380V /400V/415V | | | | | | | | | | | | | | |
| AC440V | | | | | | | | | | | | | | |

| ITEM / SPECIFICATION / VOLTAGE | 12SNC01(7.5HP-AC220V) | | | M3(1.8KW) | | M11(1KW) | | M32( ) | | M34( ) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | QF1 | | TC2 | KM3 | Q203 | KM11 | Q211 | KM32 | Q232 | KM34 | Q234 | | | |
| AC220V | 75A | | | S00-17<br>12A | S00<br>9A | S00-17<br>12A | S00<br>7A | | | | | | | |
| AC380V /400V/415V | | | | | | | | | | | | | | |
| AC440V | | | | | | | | | | | | | | |

# FOR 12SNC011201Y

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | CHECK | | | | | | | | REVISE NO. | 00 |
| | DESIGN | | 2025 | 09 | 29 | | | | SHEET NO. | 1/1 |
| | DRAWN | | 2025 | 09 | 30 | DIAGRAM NAME | SPECIFICATION CAP. DIAGRAM | DIAGRAM NO. EE-SCDQ12-JH111 | PAGE NO. | Q12 |