

=E00 + TP1  
TITLE PAGE



RSP Control Project (P) Ltd  
PLOT NO 222/223,SIDCO WOMEN'S INDUSTRIAL PARK  
Chennai - 600062

|               |                             |
|---------------|-----------------------------|
| Customer      | JSW                         |
| Project name  | Slab Handling Crane         |
| Application   | EOT CRANE                   |
| Job Sr.Number | 1601263                     |
| Commissioning | RSP Control Project (P) Ltd |

|                        |                             |
|------------------------|-----------------------------|
| Manufacturer (company) | RSP Control Project (P) Ltd |
| Type                   | INDOOR                      |
| Supply Voltage         | 415V AC SUPPLY              |
| Control Voltage        | 110V AC SUPPLY              |
| Place of installation  | BELLARY                     |
| Part Feature           | S120                        |

DATE: 11-Feb-16

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## Slab Handling Crane

## Classification

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## Control Voltage

110V AC SUPPLY

**Job number**

1601263

## Application

EOT CRANE


### Remarks


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|                  |                    |                    |                             |             |              |    |                   |             | No.of Pages | 139    |

|                  |           |               |                             |             |   |   |   |             |                  |  |                   |  |                |     |
|------------------|-----------|---------------|-----------------------------|-------------|---|---|---|-------------|------------------|--|-------------------|--|----------------|-----|
| 0                | 1         | 2             | 3                           | 4           | 5                                       | 6 | 7   | 8           | 9                |  |                   |  |                |     |
| =E00 + TO1       |           |               |                             |             |   |   |   |             |                  |  |                   |  |                |     |
| TABLE OF CONTENT |           |               |                             |             |   |   |   |             |                  |  |                   |  |                |     |
| Assignment       |           | Page          | Page description            |             |   |   | Revision  | NO OF PAGES |                  |  |                   |  |                |     |
| =E01 +B01        |           | BRAKE SECTION |                             |             |   |   |   |             |                  |  |                   |  |                |     |
|                  |           | 122           | Brake Section               |             |   |   | REV-00  | 17          |                  |  |                   |  |                |     |
|                  |           | 123           | Brake Section               |             |   |   | REV-00  | 17          |                  |  |                   |  |                |     |
| =E01 +OLR        |           | OLR SECTION   |                             |             |   |   |   |             |                  |  |                   |  |                |     |
|                  |           | 124           | COVER PAGE                  |             |   |   | REV-00  | 2           |                  |  |                   |  |                |     |
|                  |           | 125           | COVER PAGE                  |             |   |   | REV-00  | 2           |                  |  |                   |  |                |     |
| =A01 +LH1        |           | ARMCHAIR(LHS) |                             |             |   |   |   |             |                  |  |                   |  |                |     |
|                  |           | 126           | COVER PAGE                  |             |   |   | REV-00  | 10          |                  |  |                   |  |                |     |
|                  |           | 127           | General Arrangement         |             |   |   | REVISION-00   | 10          |                  |  |                   |  |                |     |
|                  |           | 128           | General Arrangement         |             |   |   | REVISION-00   | 10          |                  |  |                   |  |                |     |
|                  |           | 129           | General Arrangement         |             |   |   | REVISION-00   | 10          |                  |  |                   |  |                |     |
|                  |           | 130           | General Arrangement         |             |   |   | REVISION-00   | 10          |                  |  |                   |  |                |     |
|                  |           | 131           | 110V AC Supply Distribution |             |   |   | REV-00  | 10          |                  |  |                   |  |                |     |
|                  |           | 132           | Master Controller For CT    |             |   |   | REV-00  | 10          |                  |  |                   |  |                |     |
|                  |           | 133           | Master Controller For LT    |             |   |   | REV-00  | 10          |                  |  |                   |  |                |     |
|                  |           | 134           | Push Buttons                |             |   |   | REV-00  | 10          |                  |  |                   |  |                |     |
| =A01 +RH1        |           | ARMCHAIR(RHS) |                             |             |   |   |   |             |                  |  |                   |  |                |     |
|                  |           | 136           | COVER PAGE                  |             |   |   | REV-00  | 4           |                  |  |                   |  |                |     |
|                  |           | 137           | 110V AC Supply Distribution |             |   |   | REV-00  | 4           |                  |  |                   |  |                |     |
|                  |           | 138           | Master Controller For MH    |             |   |   | REV-00  | 4           |                  |  |                   |  |                |     |
|                  |           | 139           | Push Buttons                |             |   |   | REV-00  | 4           |                  |  |                   |  |                |     |
|                  |           |               |                             |             |   |   |   |             |                  |  |                   |  |                |     |
|                  |           |               | Date                        |             | Client : JSW<br>Application : EOT CRANE |   |  |             | TABLE OF CONTENT |  | DRWG No : 1601263 |  | = E00<br>+ TO1 |     |
|                  |           |               | Edit                        | SIVA        |   |   |   |             |                  |  |                   |  |                |     |
| REV-00           | 02-FEB-16 | SIVA          | Chk by                      | MANIVASAGAN |   |   |   |             |                  |  |                   |  |                |     |
| Revision         | Date      | Name          | Appr                        |             |   |   |   |             |                  |  |                   |  | Page           | 10  |
|                  |           |               |                             |             |   |   |   |             |                  |  |                   |  | No.of Pages    | 139 |

$$=E00 + DI1$$

## DESIGN INSTRUCTION

### Project name

## Slab Handling Crane

## Classification

## Control Voltage

110V AC SUPPLY

**Job number**

1601263

## Application

EOT CRANE

### Remarks

|          |           |      |        |             |              |   |            |                         |  |             |     |
|----------|-----------|------|--------|-------------|--------------|---|------------|-------------------------|--|-------------|-----|
|          |           |      | Date   |             | Client : JSW |  | COVER PAGE | DRWG No : 1601263       |  | = E00       |     |
|          |           |      | Edit   | SIVA        |              |   |            |                         |  | + DI1       |     |
| REV-00   | 02-FEB-16 | SIVA | Chk by | MANIVASAGAN |              |   |            | Application : EOT CRANE |  |             |     |
| Revision | Date      | Name | Appr   |             |              |   |            |                         |  | No.of Pages | 139 |

ALL DIMENSIONS ARE IN MM

PANEL IS FLOOR MOUNTING TYPE

## DIMENSION DETAILS

## E-ROOM :

## MAKE

RSP CONTROL PROJECTS (P) LTD

## HEIGHT

2400 mm

## WIDTH

8100 mm

## DEPTH

2200 mm

### MOUNTING PLATE :

## MAKE

RSP CONTROL PROJECTS (P) LTD

## HEIGHT

2000 mm

## WIDTH

350,500,600,700,800,1000mm

## DEPTH

25mm

## THICKNESS

3mm

## MOUNTING PLATE

G.I COATED

## INCOMING SUPPLY

415V AC

## POWER CABLES

Minimum 4 SQ MM BLACK

## CONTROL CABLES

2.5 SQ MM GREY

## CONTROL VOLTAGE

## 110V AC SUPPLY

## INCOMING SUPPLY CABLE

## IP CLASS

IP41

## PART FEATURES

# S120

EARTH BUS STRIP TO BE PROVIDED AS PER STANDARD

SHROUDING TO BE PROVIDED AS PER STANDARD

Client : JSW  
Application : EOT CRANE



## DESIGN INSTRUCTION

DRWG No : 1601263

= E00

+ DI1

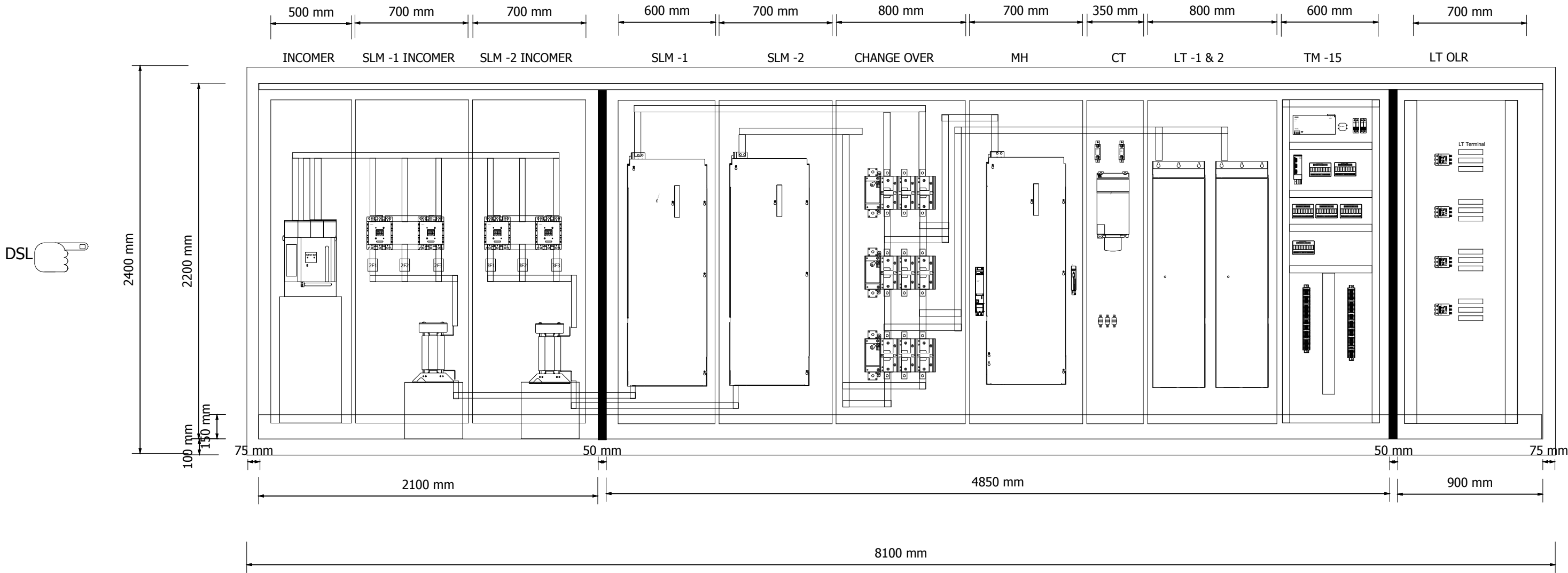
Page 12

No. of Pages 139



=E00 + G01

GENERAL ARRANGEMENT  
GENERAL ARRANGEMENT FOR WALL-1 (INSIDE E-ROOM)



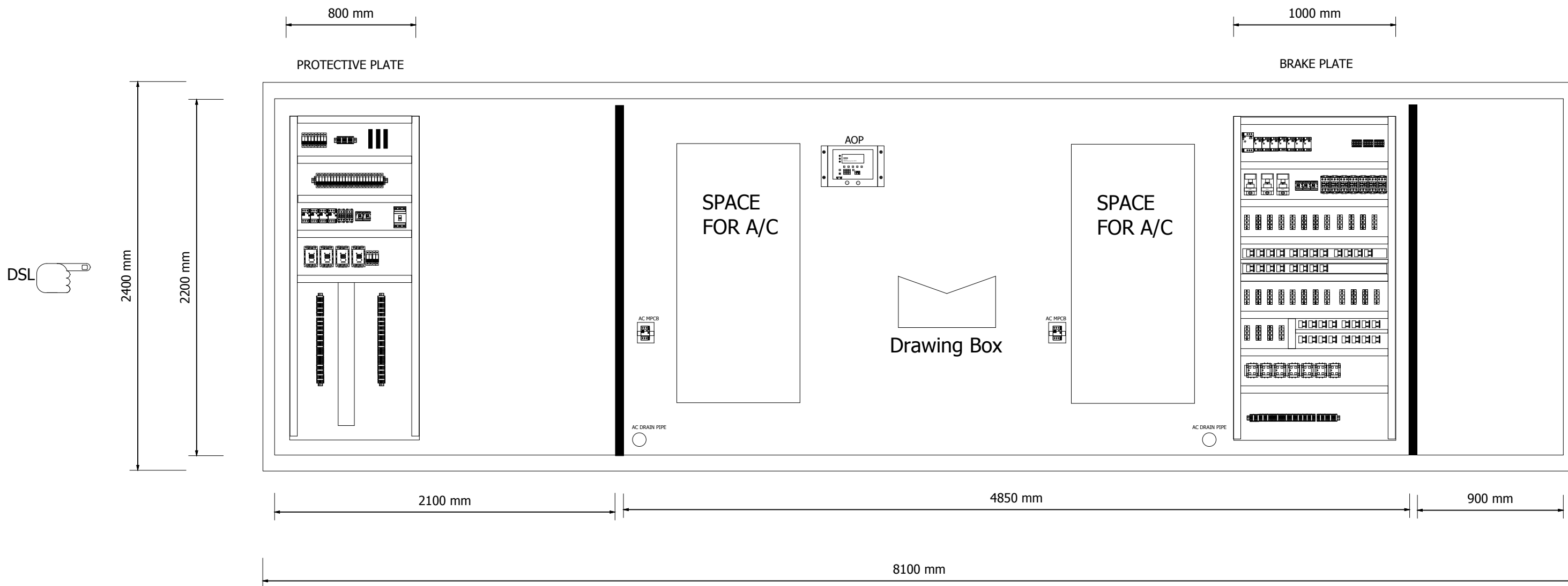
|            |         |         |         |
|------------|---------|---------|---------|
| External : | LENGTH  | Height  | WIDTH   |
|            | 8100 mm | 2400 mm | 2200 mm |

All Dimensions Are In mm

$$=E00 + G01$$

## GENERAL ARRANGEMENT

## GENERAL ARRANGEMENT FOR WALL-2 (INSIDE E-ROOM)



|         |         |         |
|---------|---------|---------|
| LENGTH  | Height  | WIDTH   |
| 8100 mm | 2400 mm | 2200 mm |

External :

All Dimensions Are In mm

|          |           |      |        |             |                         |  |   |                  |                   |                 |         |  |
|----------|-----------|------|--------|-------------|-------------------------|--|---|------------------|-------------------|-----------------|---------|--|
|          |           |      | Date   |             | Client : JSW            |  |  | G.A FOR WALL - 2 | DRWG No : 1601263 |                 | = E00   |  |
|          |           |      | Edit   | SIVA        | Application : EOT CRANE |  |   |                  |                   |                 | + G01   |  |
| REV-00   | 02-FEB-16 | SIVA | Chk by | MANIVASAGAN |                         |  |   |                  |                   |                 | Page 15 |  |
| Revision | Date      | Name | Appr   |             |                         |  |   |                  |                   | No.of Pages 139 |         |  |

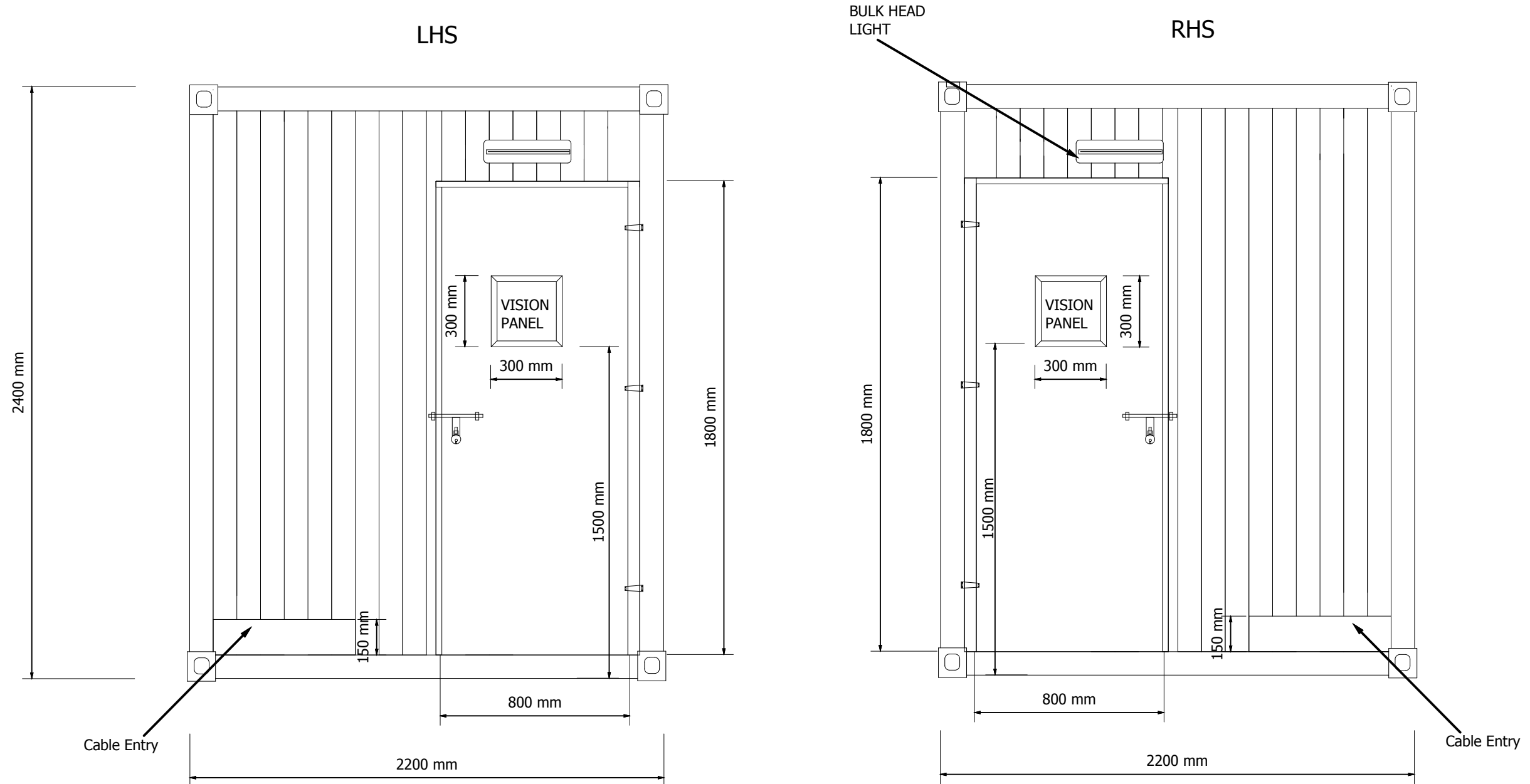




$$=E00 + G01$$

## GENERAL ARRANGEMENT

### GENERAL ARRANGEMENT FOR FRONT VIEW



|            |         |         |         |
|------------|---------|---------|---------|
|            | LENGTH  | Height  | WIDTH   |
| External : | 8100 mm | 2400 mm | 2200 mm |

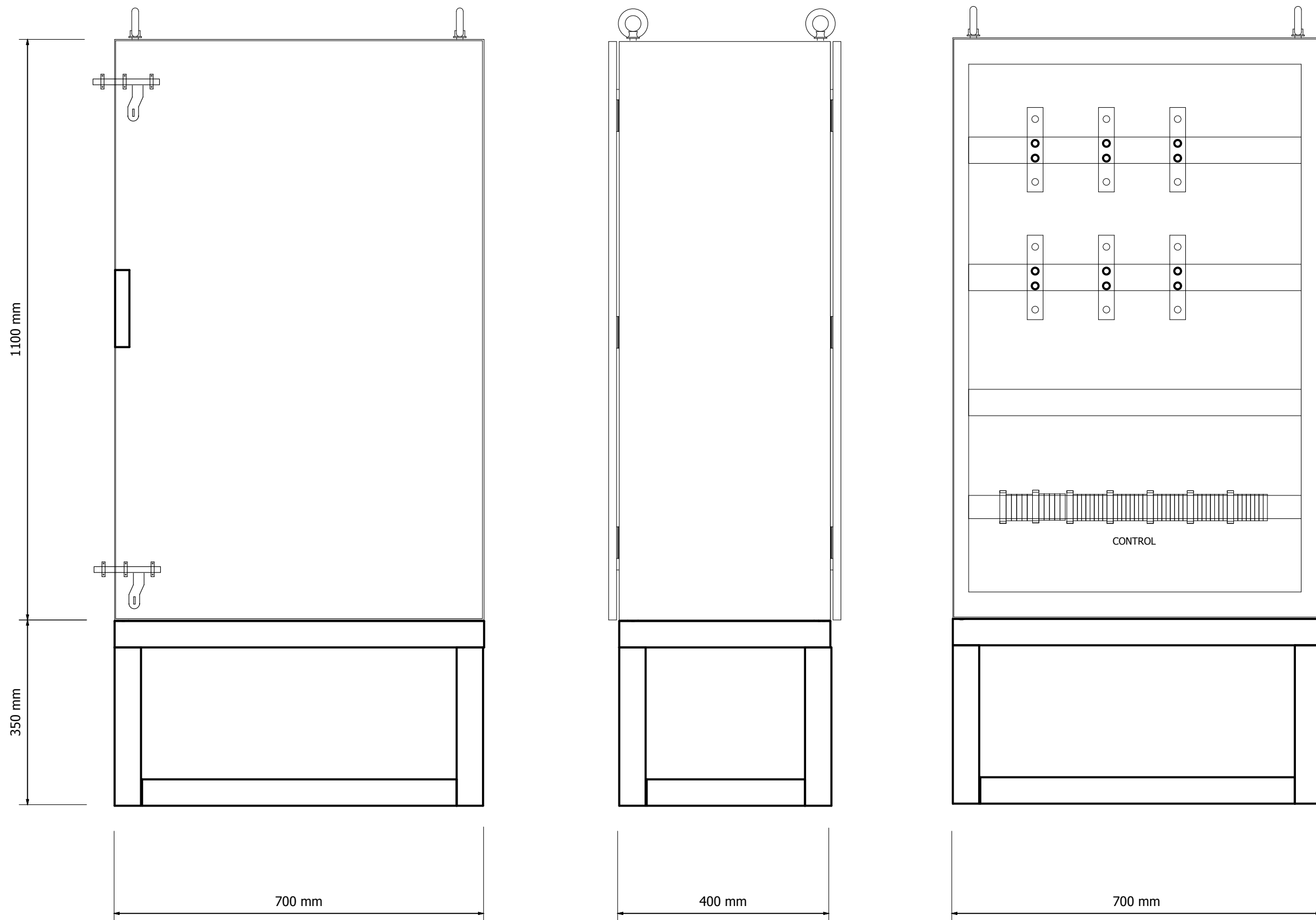
All Dimensions Are In mm

|          |           |      |        |             |                         |  |   |            |                   |             |       |  |
|----------|-----------|------|--------|-------------|-------------------------|--|---|------------|-------------------|-------------|-------|--|
|          |           |      | Date   |             | Client : JSW            |  |  | FRONT VIEW | DRWG No : 1601263 |             | = E00 |  |
|          |           |      | Edit   | SIVA        | Application : EOT CRANE |  |   |            | + G01             |             |       |  |
| REV-00   | 02-FEB-16 | SIVA | Chk by | MANIVASAGAN |                         |  |   |            | Page 17           |             |       |  |
| Revision | Date      | Name | Appr   |             |                         |  |   |            |                   | No.of Pages | 139   |  |

=E00 + G01

## GENERAL ARRANGEMENT

# GENERAL ARRANGEMENT FOR JUNCTION BOX



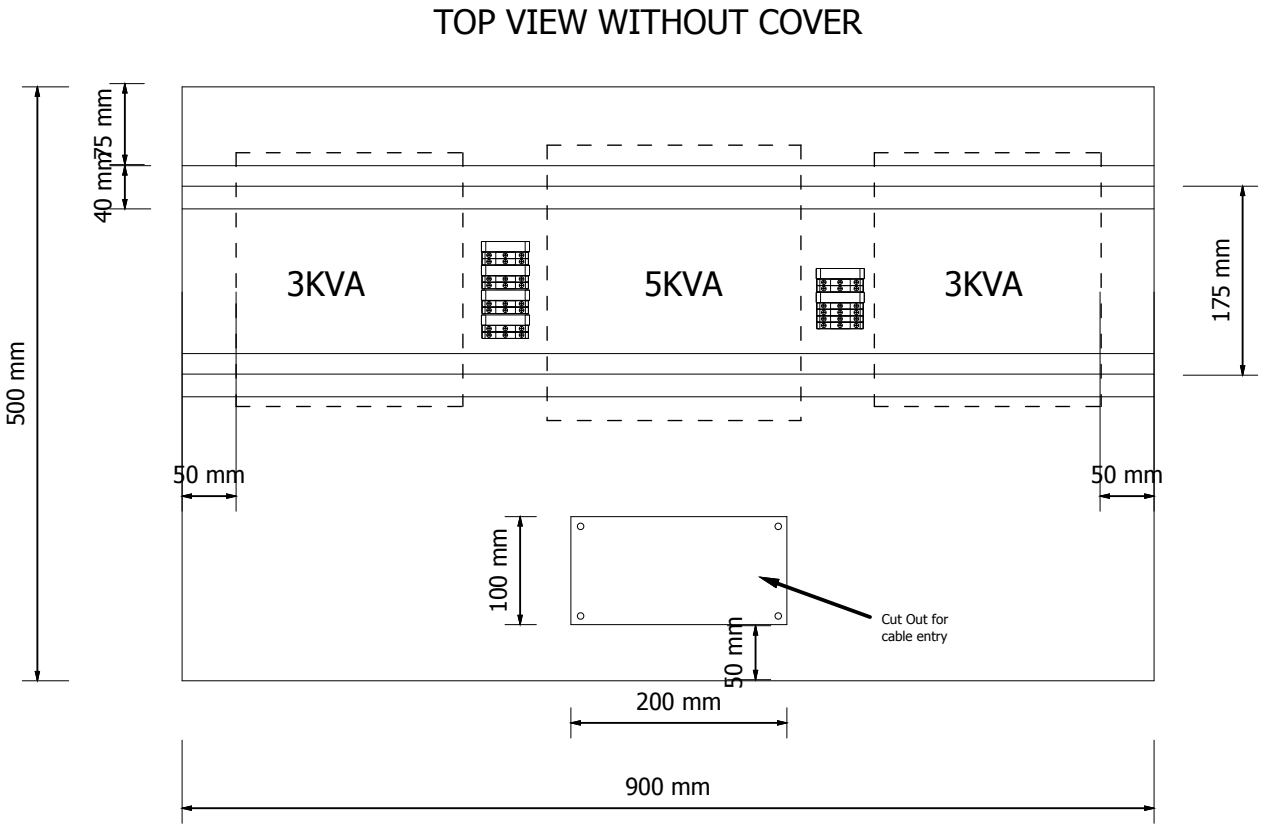
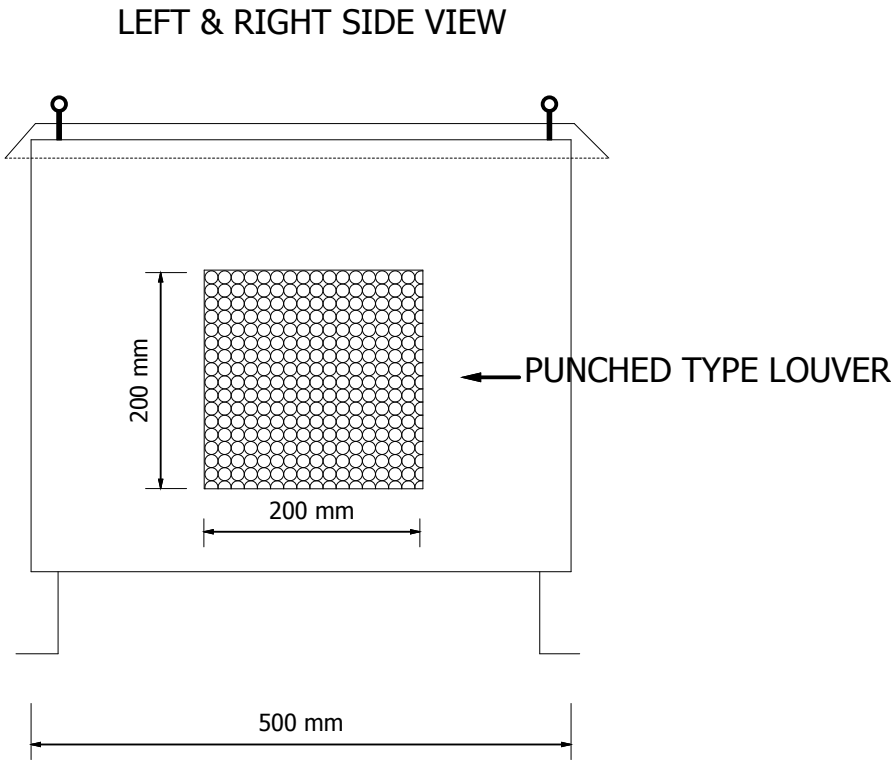
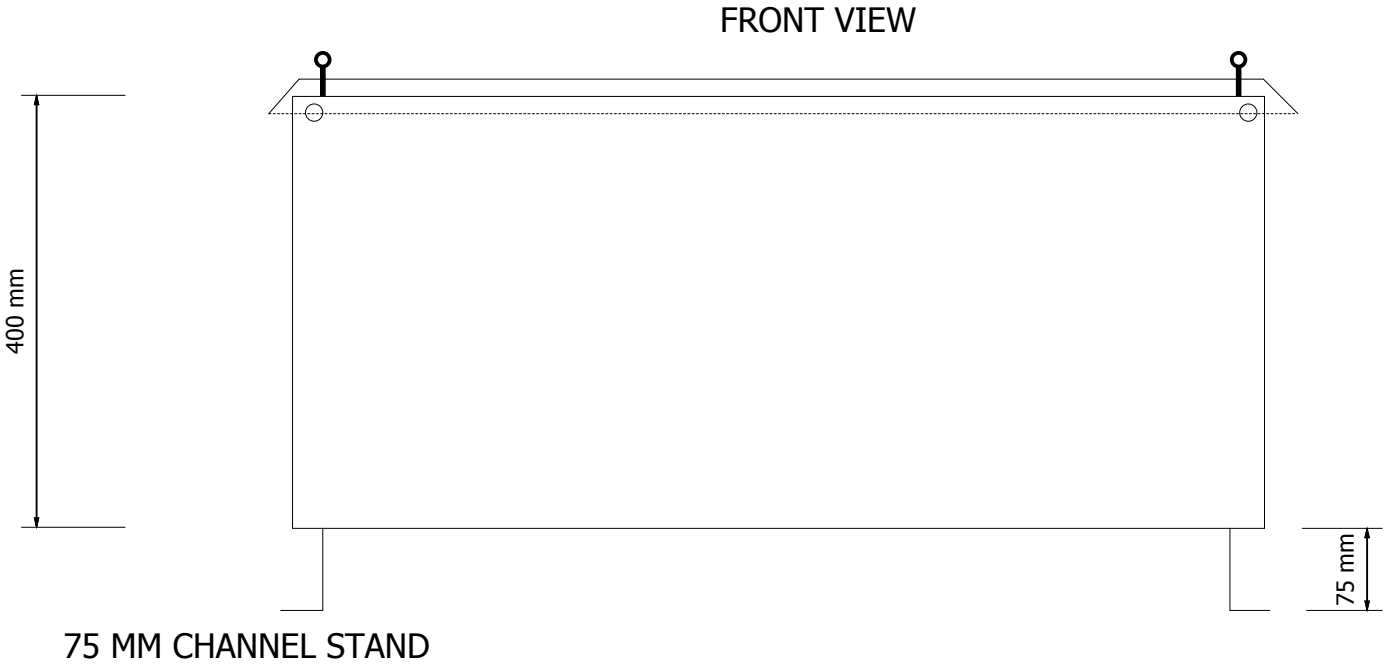
QTY -2

|          |           |      |        |             |   |   |              |                   |       |                 |
|----------|-----------|------|--------|-------------|---|---|--------------|-------------------|-------|-----------------|
|          |           |      | Date   |             | Client : JSW<br>Application : EOT CRANE |  | JUNCTION BOX | DRWG No : 1601263 | = E00 |                 |
|          |           |      | Edit   | SIVA        |   |   |              |                   | + G01 |                 |
| REV-00   | 02-FEB-16 | SIVA | Chk by | MANIVASAGAN |   |   |              |                   |       | Page 18         |
| Revision | Date      | Name | Appr   |             |   |   |              |                   |       | No.of Pages 139 |

=E00 + G01

GENERAL ARRANGEMENT

TRANSFORMER BOX



- Note:
- 1) RAL7035 Colour, Stand Colour Black.
  - 2) All sides to be removable type with proper rubber beeding
  - 3) Panel will be mounted in outdoor.
  - 4) Degree of protection should be IP55.
  - 5) 4 Nos Small Eye Bolt For Lifting.
  - 6) Bottom Gland Plate Required.

|          |           |      |        |             |              |   |                 |                   |       |                 |
|----------|-----------|------|--------|-------------|--------------|---|-----------------|-------------------|-------|-----------------|
|          |           |      | Date   |             | Client : JSW |  | TRANSFORMER BOX | DRWG No : 1601263 | = E00 |                 |
|          |           |      | Edit   | SIVA        |              |   |                 |                   | + G01 |                 |
| REV-00   | 02-FEB-16 | SIVA | Chk by | MANIVASAGAN |              |   |                 |                   |       | Page 19         |
| Revision | Date      | Name | Appr   |             |              |   |                 |                   |       | No.of Pages 139 |

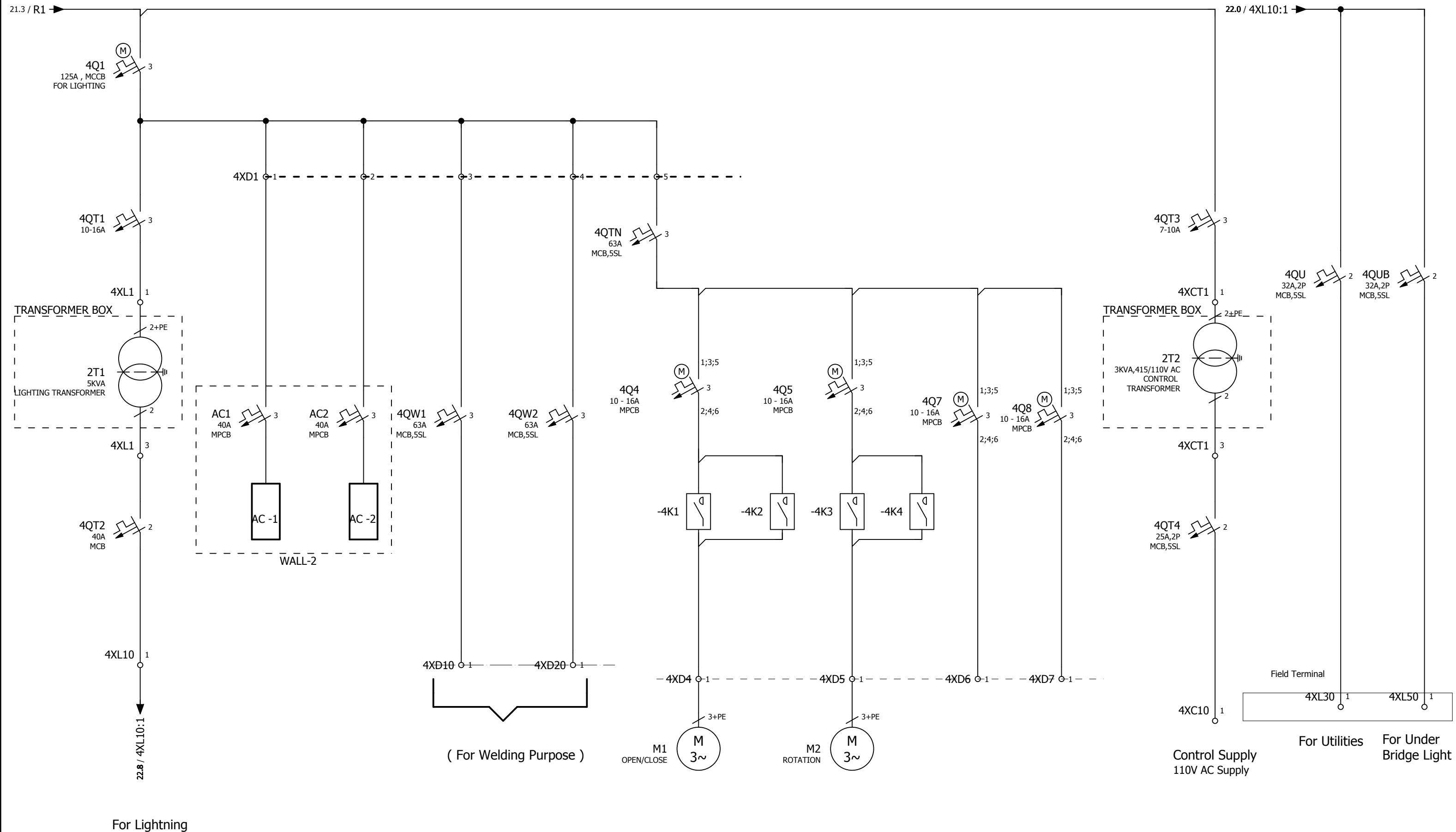
$$=E00 + S01$$

# SINGLE LINE DIAGRAM COVER PAGE

|                        |                     |
|------------------------|---------------------|
| <b>Project name</b>    | Slab Handling Crane |
| <b>Classification</b>  | SINGLE LINE DIAGRAM |
| <b>Control Voltage</b> | 110V AC SUPPLY      |
| <b>Job number</b>      | 1601263             |
| <b>Application</b>     | EOT CRANE           |
| <b>Remarks</b>         |                     |



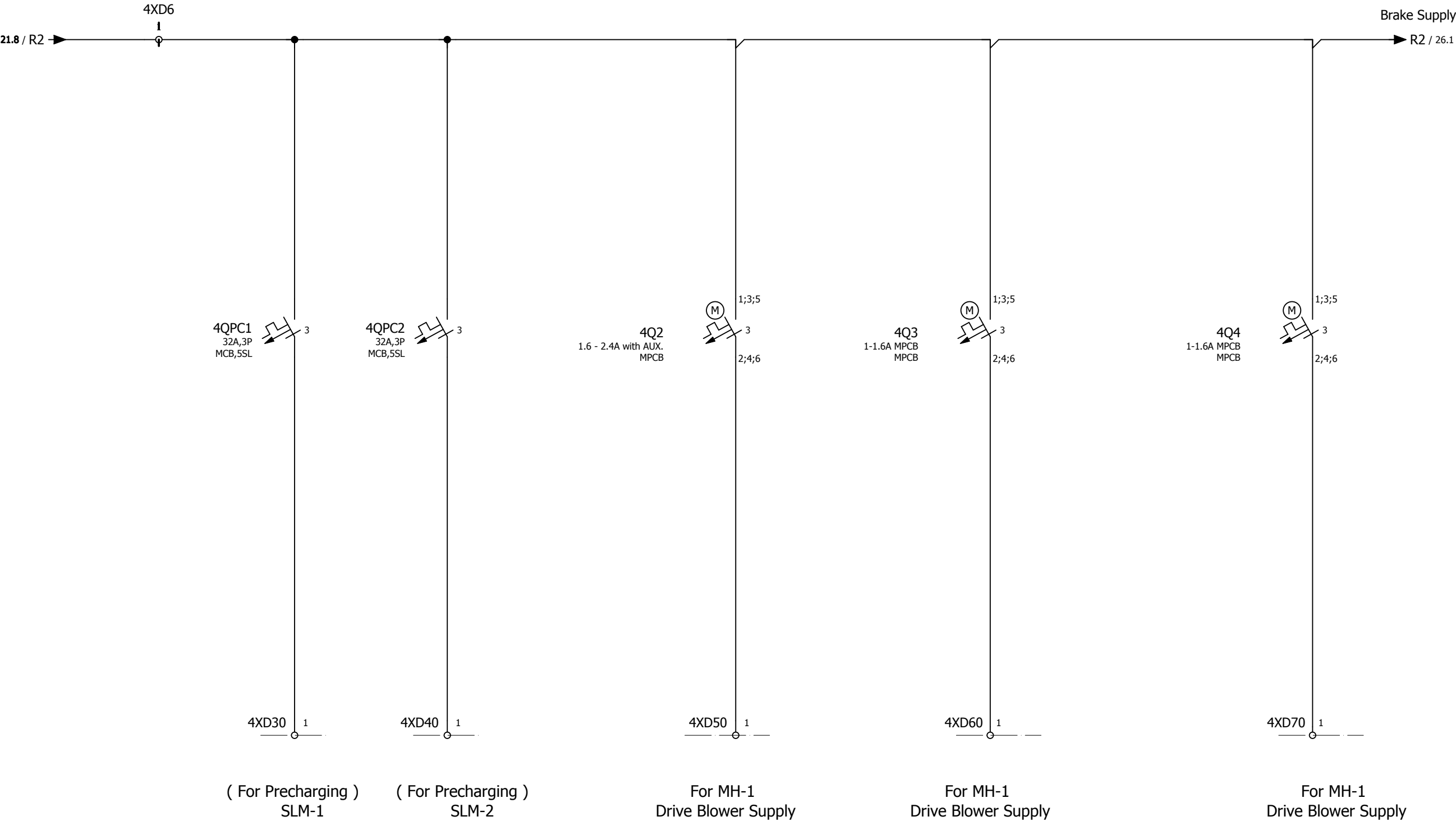
=E00 + S01  
SINGLE LINE DIAGRAM



|          |           |      |        |             |                         |   |                     |                   |  |
|----------|-----------|------|--------|-------------|-------------------------|---|---------------------|-------------------|--|
|          |           |      | Date   |             | Client : JSW            |  | Single Line Diagram | = E00             |  |
|          |           |      | Edit   | SIVA        |                         |   |                     | + S01             |  |
| REV-00   | 02-FEB-16 | SIVA | Chk by | MANIVASAGAN | Application : EOT CRANE |   |                     | DRWG No : 1601263 |  |
| Revision | Date      | Name | Appr   |             |                         |   |                     |                   |  |
|          |           |      |        |             |                         |   |                     | No.of Pages 13    |  |

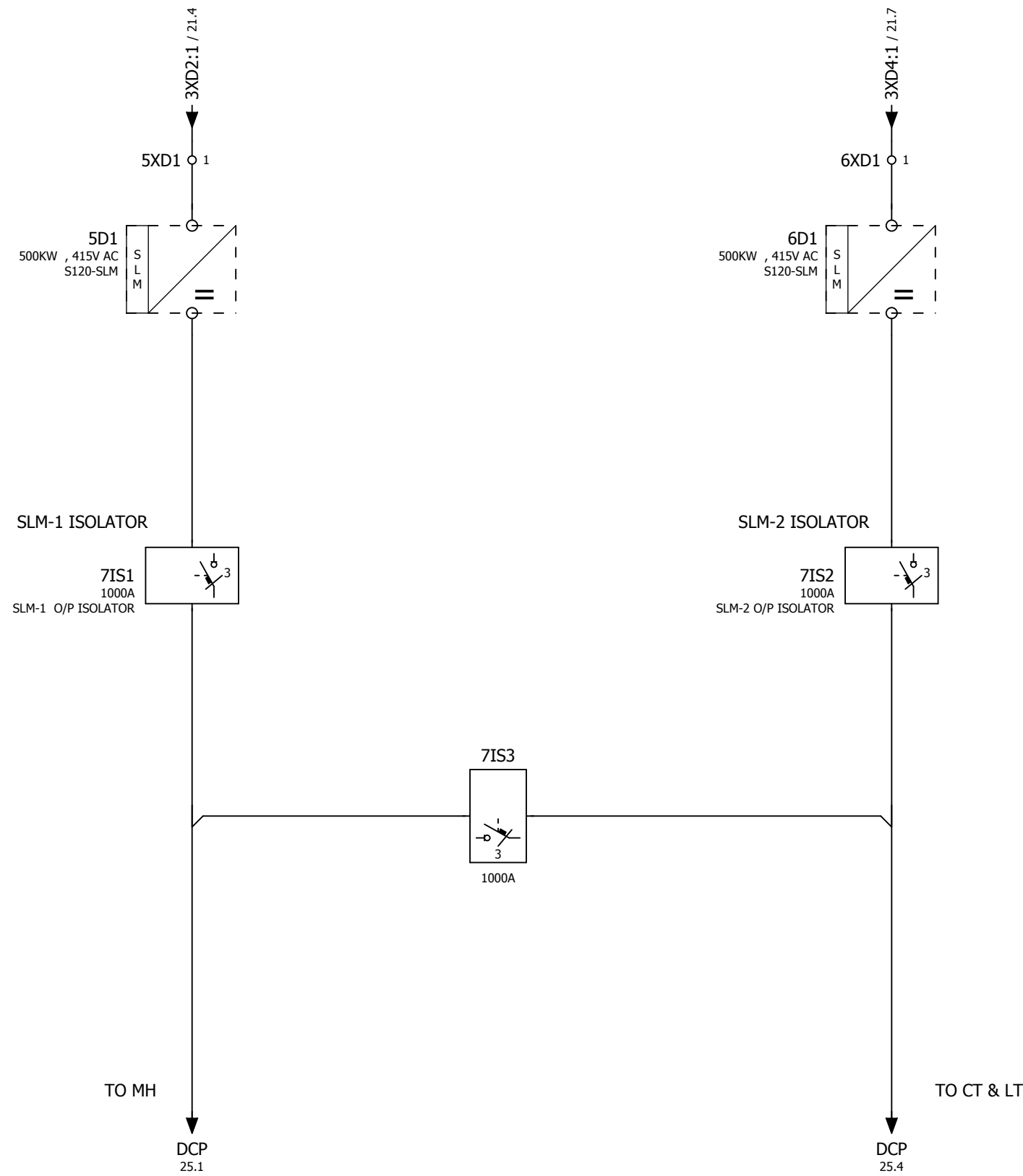
=E00 + S01

SINGLE LINE DIAGRAM



=E00 + S01

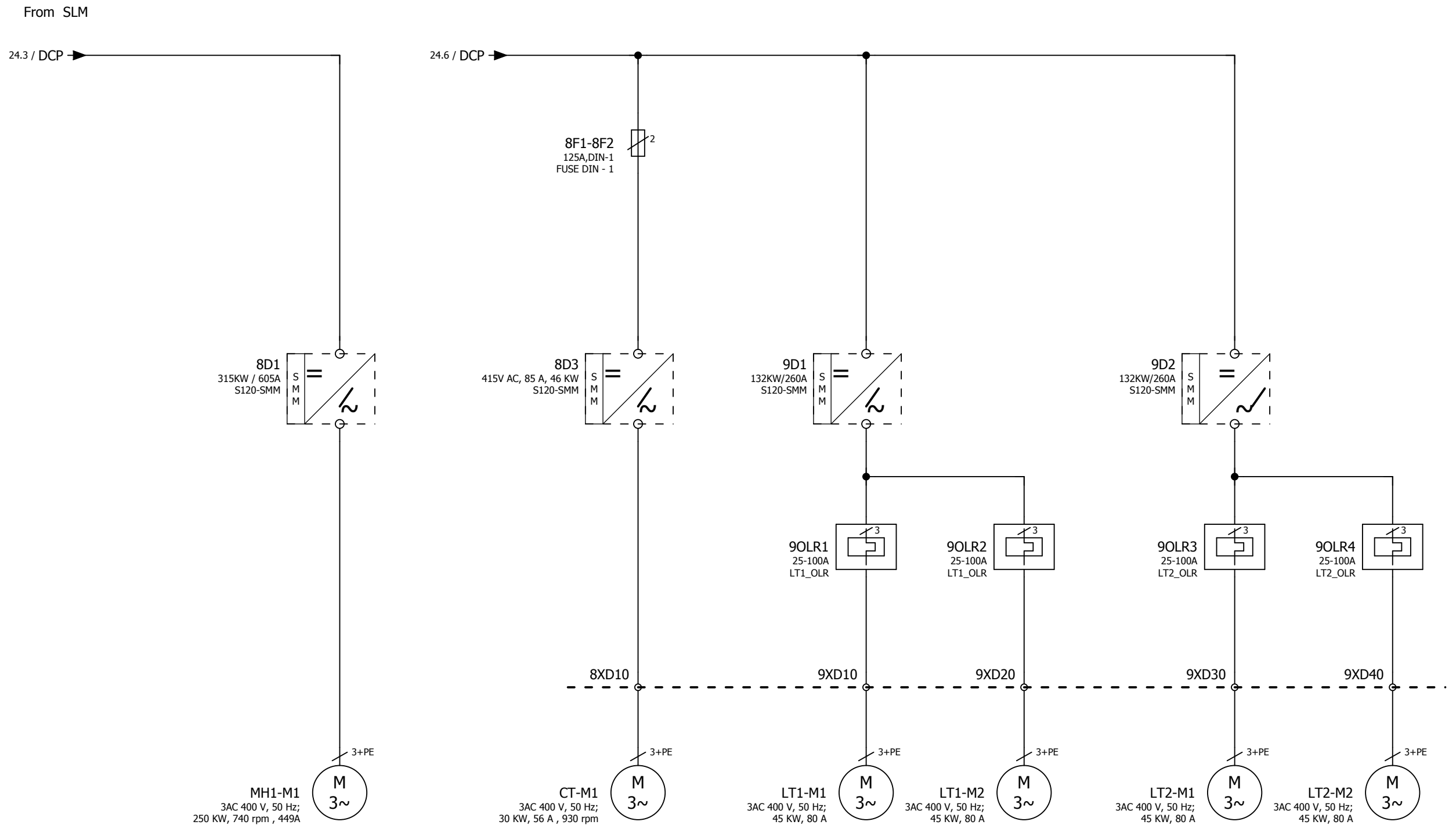
# SINGLE LINE DIAGRAM





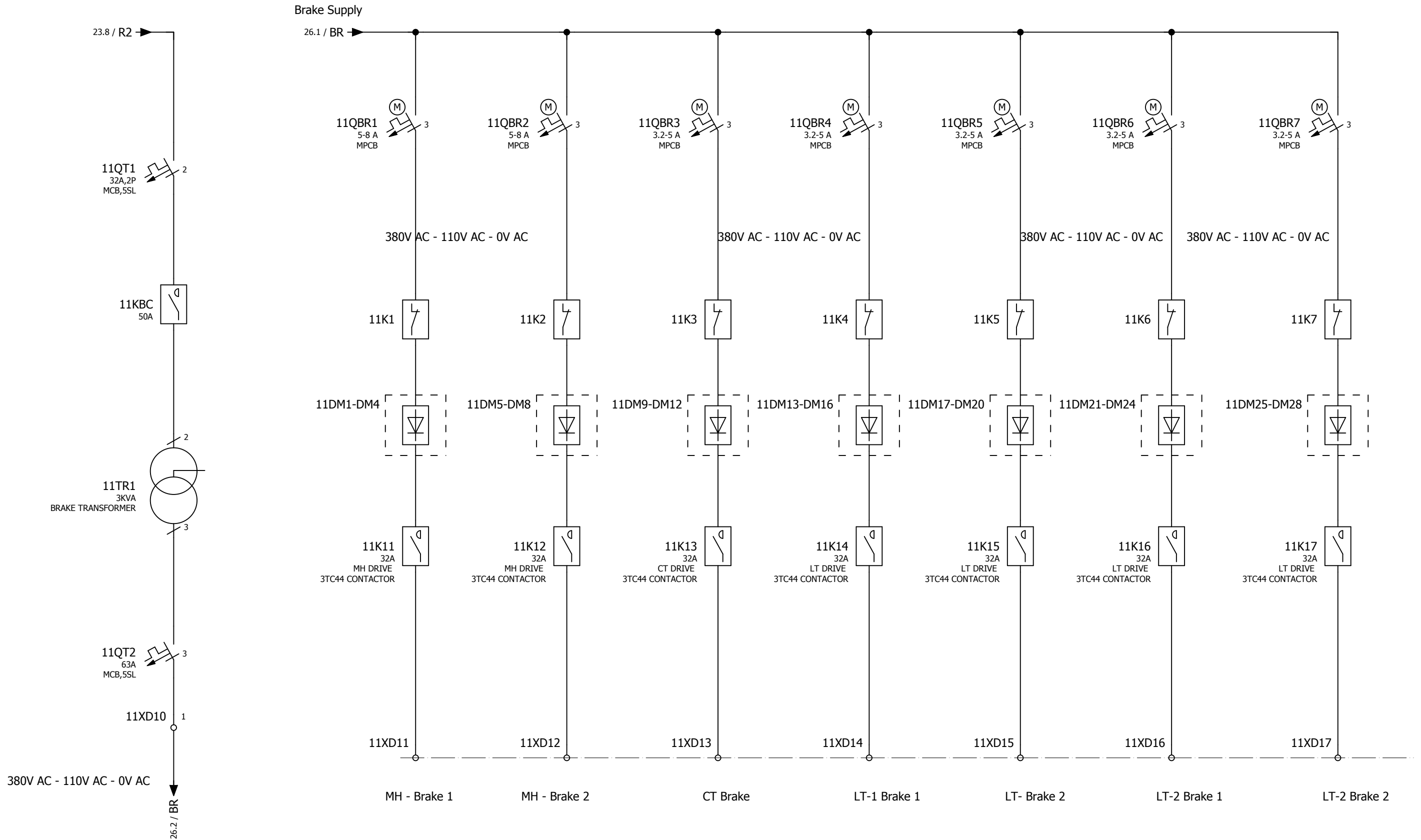
|   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|

=E00 + S01  
SINGLE LINE DIAGRAM



|          |           |      |        |             |   |   |                     |                   |       |                 |
|----------|-----------|------|--------|-------------|---|---|---------------------|-------------------|-------|-----------------|
|          |           |      | Date   |             | Client : JSW<br>Application : EOT CRANE |  | Single Line Diagram | DRWG No : 1601263 | = E00 |                 |
|          |           |      | Edit   | SIVA        |   |   |                     |                   | + S01 |                 |
| REV-00   | 02-FEB-16 | SIVA | Chk by | MANIVASAGAN |   |   |                     |                   |       | Page 25         |
| Revision | Date      | Name | Appr   |             |   |   |                     |                   |       | No.of Pages 139 |

=E00 + S01  
SINGLE LINE DIAGRAM



|          |           |      |        |             |   |   |                     |                   |       |                 |
|----------|-----------|------|--------|-------------|---|---|---------------------|-------------------|-------|-----------------|
|          |           |      | Date   |             | Client : JSW<br>Application : EOT CRANE |  | Single Line Diagram | DRWG No : 1601263 | = E00 |                 |
|          |           |      | Edit   | SIVA        |   |   |                     |                   | + S01 |                 |
| REV-00   | 02-FEB-16 | SIVA | Chk by | MANIVASAGAN |   |   |                     |                   |       | Page 26         |
| Revision | Date      | Name | Appr   |             |   |   |                     |                   |       | No.of Pages 139 |

$$=E00 + BOM$$

# BILLS OF MATERIALS

## COVER PAGE

Project name

## Slab Handling Crane

## Classification

## BILLS OF MATERIALS

## Control Voltage

110V AC SUPPLY

**Job number**

1601263

## Application

EOT CRANE

### Remarks

|          |           |      |        |             |                         |   |            |                   |  |         |  |
|----------|-----------|------|--------|-------------|-------------------------|---|------------|-------------------|--|---------|--|
|          |           |      | Date   |             | Client : JSW            |  | COVER PAGE | DRWG No : 1601263 |  | = E00   |  |
|          |           |      | Edit   | SIVA        |                         |   |            |                   |  | + BOM   |  |
| REV-00   | 02-FEB-16 | SIVA | Chk by | MANIVASAGAN | Application : EOT CRANE |  |            |                   |  | Page 27 |  |
| Revision | Date      | Name | Appr   |             |                         |   |            |                   |  |         |  |

$$=E00 + BOM$$

## BILLS OF MATERIALS

| DEVICE DESIGNATION<br>SCHEMATIC POSITION | QUANTITY | DESCRIPTION                    | PART NUMBER        | MANUFACTURER | FUNCTION TEXT           |
|--|----------|--------------------------------|--------------------|--------------|-------------------------|
| H1<br>=E01+MIS/42.3                      | 1        | INDICATION LAMP,RED,230V AC    | 3SB5285-6HC03      | SIEMENS      | INDICATION LAMP RED     |
| H2<br>=E01+MIS/42.3                      | 1        | INDICATION LAMP,YELLOW,230V AC | 3SB5285-6HD03      | SIEMENS      | INDICATION LAMP,YELLOW  |
| H3<br>=E01+MIS/42.3                      | 1        | INDICATION LAMP,BLUE,230V AC   | 3SB5285-6HF03      | SIEMENS      | INDICATION LAMP,BLUE    |
| Q1<br>=E01+MIS/42.1                      | 1        | 1200 A,ISOLATOR                | 3KA8451-3UE00      | SIEMENS      | ISOLATOR                |
| Q2<br>=E01+MIS/42.3                      | 1        | 3P,2A MCB                      | 5SL63027RC         | SIEMENS      | MCB FOR INDICATION LAMP |
| 1Q1<br>=E01+I01/46.3                     | 1        | Air Circuit Breakers 3WT 1000A | 3WT8101-6AA00-0AA2 | SIEMENS      |                         |
| 2F1-F6<br>=E01+SLI-1/50.3                | 6        | 800V 500A DIN SIZE BOLT FUSE   | 3NE43346           | SIEMENS      | FUSE                    |
| 2K1<br>=E01+SLI-1/51.4                   | 1        | CONTACTOR 200KW                | 3RT10 75-6LA06 8K  | SIEMENS      | POWER CONTACTOR         |
| 2K1<br>=E01+SLI-1/51.4                   | 1        | 110V COIL                      | 3RT19 75-5AF31 8K  | SIEMENS      | =                       |
| 2K2<br>=E01+SLI-1/51.5                   | 1        | CONTACTOR 200KW                | 3RT10 75-6LA06 8K  | SIEMENS      | =                       |
| 2K2<br>=E01+SLI-1/51.5                   | 1        | 110V COIL                      | 3RT19 75-5AF31 8K  | SIEMENS      | =                       |
| 2L1<br>=E01+SLI-1/50.4                   | 1        | 500 KW, 883 A CHOKE            | 6SL3000-0EE38-8AA0 | SIEMENS      | SLM-1 LINE CHOKE        |
| 3F1-F6<br>=E01+SLI-2/55.3                | 6        | 800V 500A DIN SIZE BOLT FUSE   | 3NE43346           | SIEMENS      | FUSE                    |
| 3K1<br>=E01+SLI-2/56.4                   | 1        | CONTACTOR 200KW                | 3RT10 75-6LA06 8K  | SIEMENS      | POWER CONTACTOR         |
| 3K1<br>=E01+SLI-2/56.4                   | 1        | 110V COIL                      | 3RT19 75-5AF31 8K  | SIEMENS      | =                       |
| 3K2<br>=E01+SLI-2/56.5                   | 1        | CONTACTOR 200KW                | 3RT10 75-6LA06 8K  | SIEMENS      | =                       |
| 3K2<br>=E01+SLI-2/56.5                   | 1        | 110V COIL                      | 3RT19 75-5AF31 8K  | SIEMENS      | =                       |
| 3L1<br>=E01+SLI-2/55.3                   | 1        | 500 KW, 883 A CHOKE            | 6SL3000-0EE38-8AA0 | SIEMENS      | SLM-2 LINE CHOKE        |
| AC1<br>=E01+P01/61.2                     | 1        | 40A MPCB                       | 3RV1431-4FA10      | SIEMENS      | MPCB FOR AC-1           |

|          |           |      |        |             |              |   |           |                   |                 |  |
|----------|-----------|------|--------|-------------|--------------|---|-----------|-------------------|-----------------|--|
|          |           |      | Date   |             | Client : JSW |  | PART LIST | DRWG No : 1601263 | = E00           |  |
|          |           |      | Edit   | SIVA        |              |   |           |                   | + BOM           |  |
| REV-00   | 02-FEB-16 | SIVA | Chk by | MANIVASAGAN |              |   |           |                   |                 |  |
| Revision | Date      | Name | Appr   |             |              |   |           |                   | Page 28         |  |
|          |           |      |        |             |              |   |           |                   | No.of Pages 139 |  |
|          |           |      |        |             |              |   |           |                   |                 |  |

=E00 + BOM

## BILLS OF MATERIALS

| DEVICE DESIGNATION<br>SCHEMATIC POSITION | QUANTITY | DESCRIPTION                             | PART NUMBER        | MANUFACTURER | FUNCTION TEXT                |
|--|----------|---|--------------------|--------------|------------------------------|
| AC2<br>=E01+P01/61.3                     | 1        | 40A MPCB                                | 3RV1431-4FA10      | SIEMENS      | MPCB FOR AC-2                |
| 4ES1<br>=E01+P01/66.5                    | 1        | MPB/RED/110V AC                         | 3SB52 03-0UC01     | SIEMENS      | in E-room                    |
| 4K1<br>=E01+P01/62.7                     | 1        | 32 A,POWER CONTACTOR , 110V AC COIL     | 3RT10 34-1AG20     | SIEMENS      | Tong Open                    |
| 4K2<br>=E01+P01/62.8                     | 1        | 32 A,POWER CONTACTOR , 110V AC COIL     | 3RT10 34-1AG20     | SIEMENS      | Tong Close                   |
| 4K3<br>=E01+P01/62.8                     | 1        | 32 A,POWER CONTACTOR , 110V AC COIL     | 3RT10 34-1AG20     | SIEMENS      | Slewing Clock wise           |
| 4K4<br>=E01+P01/62.9                     | 1        | 32 A,POWER CONTACTOR , 110V AC COIL     | 3RT10 34-1AG20     | SIEMENS      | Slewing Anti-clock wise      |
| 4K5<br>=E01+P01/63.9                     | 1        | 17A,POWER CONTACTOR                     | 3RT10 25-1AG20     | SIEMENS      | POWER CONTACTOR FOR UB LIGHT |
| 4K11<br>=E01+P01/65.8                    | 1        | 10A CONTACTOR ,110V COIL VOLTAGE (4 NO) | 3RH21 40-1AF00     | SIEMENS      | CONTROL ON CONTACTOR         |
| 4K13<br>=E01+P01/66.5                    | 1        | 10A CONTACTOR ,110V COIL VOLTAGE (4 NO) | 3RH21 40-1AF00     | SIEMENS      | E-STOP CONATCTOR             |
| 4PB1<br>=E01+P01/66.7                    | 1        | MPB/RED/110V AC                         | 3SB52 03-0UC01     | SIEMENS      | in E-room                    |
| 4Q1<br>=E01+P01/61.1                     | 1        | 125A MCCB                               | 3VT1712-2DC36-0AA0 | SIEMENS      | FOR LIGHTING                 |
| 4Q2<br>=E01+P01/64.4                     | 1        | 3.2 - 5A,MPCB                           | 3VU13 40-1NJ00     | SIEMENS      | MPCB FOR MH BLOWER           |
| 4Q3<br>=E01+P01/64.6                     | 1        | 1-1.6A,MPCB                             | 3VU13 40-1MG00     | SIEMENS      | MPCB FOR LT-1 BLOWER         |
| 4Q4<br>=E01+P01/62.1                     | 1        | 10 - 16A,MPCB                           | 3VU13 40-1MM00     | SIEMENS      | MPCB FOR TONG CLOSE/OPEN     |
| 4Q5<br>=E01+P01/62.2                     | 1        | 10 - 16A,MPCB                           | 3VU13 40-1MM00     | SIEMENS      | MPCB FOR TONG ROTATION       |
| 4Q6<br>=E01+P01/64.7                     | 1        | 1-1.6A,MPCB                             | 3VU13 40-1MG00     | SIEMENS      | MPCB FOR LT-2 BLOWER         |
| 4Q7<br>=E01+P01/62.4                     | 1        | 10 - 16A,MPCB                           | 3VU13 40-1MM00     | SIEMENS      | MPCB FOR TONG ROTATION       |
| 4Q8<br>=E01+P01/62.5                     | 1        | 10 - 16A,MPCB                           | 3VU13 40-1MM00     | SIEMENS      | =                            |
| 4QCB<br>=E01+P01/61.6                    | 1        | 32A 3P MCB C Characteristics            | 5SL63327RC         | SIEMENS      | MCB FOR WELDING -2           |

|          |           |      |        |             |              |   |           |                   |     |       |    |
|----------|-----------|------|--------|-------------|--------------|---|-----------|-------------------|-----|-------|----|
|          |           |      | Date   |             | Client : JSW |  | PART LIST | = E00             |     |       |    |
|          |           |      | Edit   | SIVA        |              |   |           | DRWG No : 1601263 |     | + BOM |    |
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$$=E00 + BOM$$

## BILLS OF MATERIALS

| DEVICE DESIGNATION<br>SCHEMATIC POSITION | QUANTITY | DESCRIPTION                                       | PART NUMBER        | MANUFACTURER | FUNCTION TEXT             |
|--|----------|---|--------------------|--------------|---------------------------|
| 4QL1<br>=E01+P01/63.6                    | 1        | 6A,2P,MCB   | 5SL62067RC         | SIEMENS      | MCB FOR LIGHTING E-ROOM   |
| 4QPC1<br>=E01+P01/64.1                   | 1        | 32A 3P MCB C Characteristics                      | 5SL63327RC         | SIEMENS      | MCB FOR SLM-1 PRECHARGING |
| 4QPC2<br>=E01+P01/64.2                   | 1        | 32A 3P MCB C Characteristics                      | 5SL63327RC         | SIEMENS      | MCB FOR SLM-2 PRECHARGING |
| 4QT1<br>=E01+P01/61.1                    | 1        | 10-16A MPCB                                       | 3RV2411-4AA10      | SIEMENS      | MPCB FOR LIGHTING TRF PRY |
| 4QT2<br>=E01+P01/61.1                    | 1        | 25A 2P MCB C Characteristics                      | 5SL62257RC         | SIEMENS      | MCB FOR LIGHTING TRF SEC  |
| 4QT3<br>=E01+P01/61.8                    | 1        | 7-10A MPCB  | 3RV2411-1JA10      | SIEMENS      | MPCB FOR CONTROL TRF PRY  |
| 4QT4<br>=E01+P01/61.8                    | 1        | 25A 2P MCB C Characteristics                      | 5SL62257RC         | SIEMENS      | MCB FOR CONTROL TRF SEC   |
| 4QTN<br>=E01+P01/62.0                    | 1        | 63A 3P MCB C Characteristics                      | 5SL63637RC         | SIEMENS      | MCB,5SL                   |
| 4QU<br>=E01+P01/63.1                     | 1        | 32A 2P MCB C Characteristics                      | 5SL62327RC         | SIEMENS      | MCB                       |
| 4QUB<br>=E01+P01/63.4                    | 1        | 16A 2P MCB C Characteristics                      | 5SL62167RC         | SIEMENS      | MCB FOR UB LIGHT          |
| 4QW1<br>=E01+P01/61.4                    | 1        | 63A 3P MCB C Characteristics                      | 5SL63637RC         | SIEMENS      | MCB FOR WELDING -1        |
| 4QW2<br>=E01+P01/61.5                    | 1        | 63A 3P MCB C Characteristics                      | 5SL63637RC         | SIEMENS      | MCB FOR WELDING -2        |
| 4TR1<br>=E01+P01/61.1                    | 1        | LIGHTING TRANSFORMER                              | TRANS - 415/230V-1 | MELCON       | LIGHTING TRANSFORMER      |
| 4XL1-4TR2<br>=E01+P01/61.8               | 1        | 3KVA,CONTROL TRANSFORMER                          | TRANS - 415/110V_1 | MELCON       | CONTROL TRANSFORMER       |
| 5D1<br>=E01+LM01/71.1                    | 1        | SLM , 500 KW / 883 A , 380-480V AC                | 6SL3330-6TE41-1AA3 | SIEMENS      | SLM S120                  |
| 5Q1<br>=E01+LM01/72.5                    | 1        | 2A 2P MCB C Characteristics                       | 5SL62027RC         | SIEMENS      | MCB FOR 24V DC            |
| 6D1<br>=E01+LM02/76.1                    | 1        | SLM , 500 KW / 883 A , 380-480V AC                | 6SL3330-6TE41-1AA3 | SIEMENS      | SLM S120                  |
| 6Q1<br>=E01+LM02/77.5                    | 1        | 2A 2P MCB C Characteristics                       | 5SL62027RC         | SIEMENS      | MCB FOR 24V DC SUPPLY     |
| 7IS1<br>=E01+IS1/81.2                    | 1        | 1000A Switch disconnecter (in Open Execution TPN) | 3KA8441-3UE00      | SIEMENS      |                           |

|          |           |      |        |             |                         |   |           |                   |  |                 |
|----------|-----------|------|--------|-------------|-------------------------|---|-----------|-------------------|--|-----------------|
|          |           |      | Date   |             | Client : JSW            |  | PART LIST | = E00             |  |                 |
|          |           |      | Edit   | SIVA        |                         |   |           | + BOM             |  |                 |
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|          |           |      |        |             |                         |   |           |                   |  |                 |

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## BILLS OF MATERIALS

| DEVICE DESIGNATION<br>SCHEMATIC POSITION | QUANTITY | DESCRIPTION                                       | PART NUMBER        | MANUFACTURER | FUNCTION TEXT      |
|--|----------|---|--------------------|--------------|--------------------|
| 7IS2<br>=E01+IS1/81.6                    | 1        | 1000A Switch disconnecter (in Open Execution TPN) | 3KA8441-3UE00      | SIEMENS      | CONTROL UNIT CU320 |
| 7IS3<br>=E01+IS1/81.4                    | 1        | 1000A Switch disconnecter (in Open Execution TPN) | 3KA8441-3UE00      | SIEMENS      |                    |
| 8AOP-1<br>=E01+M01/86.7                  | 1        | AOP,ADVANCED OPERATOR PANEL                       | 6SL3055-0AA00-4CA3 | SIEMENS      |                    |
| 8CU1<br>=E01+M01/86.0                    | 1        | CU320 2DP,CONTROL UNIT                            | 6SL3040-1MA00-0AA0 | SIEMENS      |                    |
| 8CU1<br>=E01+M01/86.0                    | 1        | CF CARD For CU320, WITH PERFORMANCE EXTENSION     | 6SL3054-0EF01-1BA0 | SIEMENS      | =                  |
| 8D1<br>=E01+M01/85.1                     | 1        | MOTOR MODULE 315KW / 605A                         | 6SL3320-1TE36-1AA3 | SIEMENS      | S120-SMM           |
| MH-M1<br>=E01+M01/85.1                   | 1        | 3AC 400 V, 50 Hz; 250 KW, 740 rpm , 449A          | 1LA8 355-8YB70-Z   | SIEMENS      |                    |
| 8Q1<br>=E01+M01/87.5                     | 1        | 6A 2P MCB C Characteristics                       | 5SL62067RC         | SIEMENS      |                    |
| 8S1<br>=E01+M01/85.8                     | 1        | SMC 30,SENSOR MODULE                              | 6SL3055-0AA00-5CA2 | SIEMENS      | SMC 30             |
| CT-M1<br>=E01+C01/90.5                   | 1        | 3AC 400 V, 50 Hz; 30 KW, 56 A , 930 rpm           | 1SE0 223-6NA80-Z   | SIEMENS      |                    |
| 9D1<br>=E01+C01/90.3                     | 1        | CT 46KW/85A                                       | 6SL3120-1TE28-5AA3 | SIEMENS      | S120-SMM           |
| 9F1-9F2<br>=E01+C01/90.2                 | 2        | 125 A , FUSE , DIN - 0                            | 3NE10220           | SIEMENS      | FUSE DIN           |
| 9F1-9F2<br>=E01+C01/90.2                 | 2        | Fuse base, din size-1                             | 3NH3 230           | SIEMENS      | =                  |
| 9D2<br>=E01+L01/93.1                     | 1        | 132KW / 260A                                      | 6SL3320-1TE32-6AA3 | SIEMENS      | S120-SMM           |
| 9D3<br>=E01+L01/94.1                     | 1        | 132KW / 260A                                      | 6SL3320-1TE32-6AA3 | SIEMENS      | =                  |
| 10EF1<br>=E01+E01/98.4                   | 1        | EMI FILTER,6A                                     | SAK DRV-6/460      | SAKURA       | EMI FILTER         |
| 10PS1<br>=E01+E01/98.4                   | 1        | 20A,POWER SUPPLY                                  | 6EP13363BA00       | SIEMENS      | POWER SUPPLY       |
| 10Q1<br>=E01+E01/98.4                    | 1        | 16A,MCB,2P  | 5SL62167RC         | SIEMENS      | MCB                |
| 10Q2<br>=E01+E01/98.4                    | 1        | 25A , 2P , MCB                                    | 5SL62257RC         | SIEMENS      | DC MCB             |

|          |           |      |        |             |                         |   |           |                   |  |             |     |
|----------|-----------|------|--------|-------------|-------------------------|---|-----------|-------------------|--|-------------|-----|
|          |           |      | Date   |             | Client : JSW            |  | PART LIST | = E00             |  |             |     |
|          |           |      | Edit   | SIVA        |                         |   |           | DRWG No : 1601263 |  | + BOM       |     |
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$$=E00 + BOM$$

## BILLS OF MATERIALS

| DEVICE DESIGNATION<br>SCHEMATIC POSITION | QUANTITY | DESCRIPTION                     | PART NUMBER        | MANUFACTURER | FUNCTION TEXT          |
|--|----------|---------------------------------|--------------------|--------------|------------------------|
| 10RB1<br>=E01+E01/106.1                  | 1        | 24V DC 8ch Relay Board          | PHX-24D08-COB      | PHOENIX      | Relay board FOR 24V DC |
| 10RB2<br>=E01+E01/101.1                  | 1        | 8 CH RELAY BOARD 110V AC SUPPLY | PHX-110A08-COB     | PHOENIX      | 8CH RELAY BOARD FOR MH |
| 10RB3<br>=E01+E01/102.1                  | 1        | 8 CH RELAY BOARD 110V AC SUPPLY | PHX-110A08-COB     | PHOENIX      | 8CH RELAY BOARD FOR CT |
| 10RB4<br>=E01+E01/103.1                  | 1        | 8 CH RELAY BOARD 110V AC SUPPLY | PHX-110A08-COB     | PHOENIX      | 8CH RELAY BOARD FOR LT |
| 10RB5<br>=E01+E01/104.1                  | 1        | 8 CH RELAY BOARD 110V AC SUPPLY | PHX-110A08-COB     | PHOENIX      | =                      |
| 10RB6<br>=E01+E01/105.1                  | 1        | 8 CH RELAY BOARD 110V AC SUPPLY | PHX-110A08-COB     | PHOENIX      | =                      |
| 10TM1<br>=E01+E01/99.0                   | 1        | TM 15,TERMINAL MODULE           | 6SL3055-0AA00-3FA0 | SIEMENS      | Terminal Module        |
| C1<br>=E01+B01/117.4                     | 40       | J 2000V 386M MKP capacitor      | MKP386M            | VISHAY       |                        |
| 11DM1<br>=E01+B01/111.4                  | 1        | 1900 Volts Diode                | SKKD - 212/18      | SEMIKRON     |                        |
| 11DM2<br>=E01+B01/111.4                  | 1        | 1900 Volts Diode                | SKKD - 212/18      | SEMIKRON     |                        |
| 11DM3<br>=E01+B01/111.5                  | 1        | 1900 Volts Diode                | SKKD - 212/18      | SEMIKRON     |                        |
| 11DM4<br>=E01+B01/111.5                  | 1        | 1900 Volts Diode                | SKKD - 212/18      | SEMIKRON     |                        |
| 11DM5<br>=E01+B01/112.4                  | 1        | 1900 Volts Diode                | SKKD - 212/18      | SEMIKRON     |                        |
| 11DM6<br>=E01+B01/112.4                  | 1        | 1900 Volts Diode                | SKKD - 212/18      | SEMIKRON     |                        |
| 11DM7<br>=E01+B01/112.5                  | 1        | 1900 Volts Diode                | SKKD - 212/18      | SEMIKRON     |                        |
| 11DM8<br>=E01+B01/112.5                  | 1        | 1900 Volts Diode                | SKKD - 212/18      | SEMIKRON     |                        |
| 11DM9<br>=E01+B01/113.3                  | 1        | 1900 Volts Diode                | SKKD - 212/18      | SEMIKRON     |                        |
| 11DM10<br>=E01+B01/113.3                 | 1        | 1900 Volts Diode                | SKKD - 212/18      | SEMIKRON     |                        |
| 11DM11<br>=E01+B01/113.5                 | 1        | 1900 Volts Diode                | SKKD - 212/18      | SEMIKRON     |                        |

|          |           |      |        |             |              |   |           |                         |  |             |     |  |  |
|----------|-----------|------|--------|-------------|--------------|---|-----------|-------------------------|--|-------------|-----|--|--|
|          |           |      | Date   |             | Client : JSW |  | PART LIST | DRWG No : 1601263       |  | = E00       |     |  |  |
|          |           |      | Edit   | SIVA        |              |   |           |                         |  | + BOM       |     |  |  |
| REV-00   | 02-FEB-16 | SIVA | Chk by | MANIVASAGAN |              |   |           | Application : EOT CRANE |  |             |     |  |  |
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|---|-----------|---------------------|----------------|--------------|---|---|---|---|-----------|--|-------------------|-------------|-------------|--------------|---------------|--------------------------|---|------------------|---------------|----------|--|--------------------------|---|------------------|---------------|----------|--|--------------------------|---|------------------|---------------|----------|--|--------------------------|---|------------------|---------------|----------|--|--------------------------|---|------------------|---------------|----------|--|--------------------------|---|------------------|---------------|----------|--|--------------------------|---|------------------|---------------|----------|--|--------------------------|---|------------------|---------------|----------|--|--------------------------|---|------------------|---------------|----------|--|--------------------------|---|------------------|---------------|----------|--|--------------------------|---|------------------|---------------|----------|--|--------------------------|---|------------------|---------------|----------|--|--------------------------|---|------------------|---------------|----------|--|--------------------------|---|------------------|---------------|----------|--|--------------------------|---|------------------|---------------|----------|--|--------------------------|---|------------------|---------------|----------|--|--------------------------|---|------------------|---------------|----------|--|------------------------|---|---------------------|----------------|---------|------------------------------|------------------------|---|---------------------|----------------|---------|---|
| =E00 + BOM  |           |                     |                |              |   |   |   |   |           |  |                   |             |             |              |               |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                        |   |                     |                |         |                              |                        |   |                     |                |         |   |
| BILLS OF MATERIALS  |           |                     |                |              |   |   |   |   |           |  |                   |             |             |              |               |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                        |   |                     |                |         |                              |                        |   |                     |                |         |   |
| <table><tr><th>DEVICE DESIGNATION<br/>SCHEMATIC POSITION</th><th>QUANTITY</th><th>DESCRIPTION</th><th>PART NUMBER</th><th>MANUFACTURER</th><th>FUNCTION TEXT</th></tr><tr><td>11DM12<br/>=E01+B01/113.5</td><td>1</td><td>1900 Volts Diode</td><td>SKKD - 212/18</td><td>SEMIKRON</td><td></td></tr><tr><td>11DM13<br/>=E01+B01/114.3</td><td>1</td><td>1900 Volts Diode</td><td>SKKD - 212/18</td><td>SEMIKRON</td><td></td></tr><tr><td>11DM14<br/>=E01+B01/114.3</td><td>1</td><td>1900 Volts Diode</td><td>SKKD - 212/18</td><td>SEMIKRON</td><td></td></tr><tr><td>11DM15<br/>=E01+B01/114.5</td><td>1</td><td>1900 Volts Diode</td><td>SKKD - 212/18</td><td>SEMIKRON</td><td></td></tr><tr><td>11DM16<br/>=E01+B01/114.5</td><td>1</td><td>1900 Volts Diode</td><td>SKKD - 212/18</td><td>SEMIKRON</td><td></td></tr><tr><td>11DM17<br/>=E01+B01/115.3</td><td>1</td><td>1900 Volts Diode</td><td>SKKD - 212/18</td><td>SEMIKRON</td><td></td></tr><tr><td>11DM18<br/>=E01+B01/115.3</td><td>1</td><td>1900 Volts Diode</td><td>SKKD - 212/18</td><td>SEMIKRON</td><td></td></tr><tr><td>11DM19<br/>=E01+B01/115.5</td><td>1</td><td>1900 Volts Diode</td><td>SKKD - 212/18</td><td>SEMIKRON</td><td></td></tr><tr><td>11DM20<br/>=E01+B01/115.5</td><td>1</td><td>1900 Volts Diode</td><td>SKKD - 212/18</td><td>SEMIKRON</td><td></td></tr><tr><td>11DM21<br/>=E01+B01/116.3</td><td>1</td><td>1900 Volts Diode</td><td>SKKD - 212/18</td><td>SEMIKRON</td><td></td></tr><tr><td>11DM22<br/>=E01+B01/116.3</td><td>1</td><td>1900 Volts Diode</td><td>SKKD - 212/18</td><td>SEMIKRON</td><td></td></tr><tr><td>11DM23<br/>=E01+B01/116.5</td><td>1</td><td>1900 Volts Diode</td><td>SKKD - 212/18</td><td>SEMIKRON</td><td></td></tr><tr><td>11DM24<br/>=E01+B01/116.5</td><td>1</td><td>1900 Volts Diode</td><td>SKKD - 212/18</td><td>SEMIKRON</td><td></td></tr><tr><td>11DM25<br/>=E01+B01/117.4</td><td>1</td><td>1900 Volts Diode</td><td>SKKD - 212/18</td><td>SEMIKRON</td><td></td></tr><tr><td>11DM26<br/>=E01+B01/117.4</td><td>1</td><td>1900 Volts Diode</td><td>SKKD - 212/18</td><td>SEMIKRON</td><td></td></tr><tr><td>11DM27<br/>=E01+B01/117.5</td><td>1</td><td>1900 Volts Diode</td><td>SKKD - 212/18</td><td>SEMIKRON</td><td></td></tr><tr><td>11DM28<br/>=E01+B01/117.5</td><td>1</td><td>1900 Volts Diode</td><td>SKKD - 212/18</td><td>SEMIKRON</td><td></td></tr><tr><td>11K1<br/>=E01+B01/119.7</td><td>1</td><td>22A,POWER CONTACTOR</td><td>3RT25 17-1AF00</td><td>SIEMENS</td><td>Power Contactor FOR MH BRAKE</td></tr><tr><td>11K2<br/>=E01+B01/119.8</td><td>1</td><td>22A,POWER CONTACTOR</td><td>3RT25 17-1AF00</td><td>SIEMENS</td><td>=</td></tr></table> |           |                     |                |              |   |   |   |   |           | DEVICE DESIGNATION<br>SCHEMATIC POSITION | QUANTITY          | DESCRIPTION | PART NUMBER | MANUFACTURER | FUNCTION TEXT | 11DM12<br>=E01+B01/113.5 | 1 | 1900 Volts Diode | SKKD - 212/18 | SEMIKRON |  | 11DM13<br>=E01+B01/114.3 | 1 | 1900 Volts Diode | SKKD - 212/18 | SEMIKRON |  | 11DM14<br>=E01+B01/114.3 | 1 | 1900 Volts Diode | SKKD - 212/18 | SEMIKRON |  | 11DM15<br>=E01+B01/114.5 | 1 | 1900 Volts Diode | SKKD - 212/18 | SEMIKRON |  | 11DM16<br>=E01+B01/114.5 | 1 | 1900 Volts Diode | SKKD - 212/18 | SEMIKRON |  | 11DM17<br>=E01+B01/115.3 | 1 | 1900 Volts Diode | SKKD - 212/18 | SEMIKRON |  | 11DM18<br>=E01+B01/115.3 | 1 | 1900 Volts Diode | SKKD - 212/18 | SEMIKRON |  | 11DM19<br>=E01+B01/115.5 | 1 | 1900 Volts Diode | SKKD - 212/18 | SEMIKRON |  | 11DM20<br>=E01+B01/115.5 | 1 | 1900 Volts Diode | SKKD - 212/18 | SEMIKRON |  | 11DM21<br>=E01+B01/116.3 | 1 | 1900 Volts Diode | SKKD - 212/18 | SEMIKRON |  | 11DM22<br>=E01+B01/116.3 | 1 | 1900 Volts Diode | SKKD - 212/18 | SEMIKRON |  | 11DM23<br>=E01+B01/116.5 | 1 | 1900 Volts Diode | SKKD - 212/18 | SEMIKRON |  | 11DM24<br>=E01+B01/116.5 | 1 | 1900 Volts Diode | SKKD - 212/18 | SEMIKRON |  | 11DM25<br>=E01+B01/117.4 | 1 | 1900 Volts Diode | SKKD - 212/18 | SEMIKRON |  | 11DM26<br>=E01+B01/117.4 | 1 | 1900 Volts Diode | SKKD - 212/18 | SEMIKRON |  | 11DM27<br>=E01+B01/117.5 | 1 | 1900 Volts Diode | SKKD - 212/18 | SEMIKRON |  | 11DM28<br>=E01+B01/117.5 | 1 | 1900 Volts Diode | SKKD - 212/18 | SEMIKRON |  | 11K1<br>=E01+B01/119.7 | 1 | 22A,POWER CONTACTOR | 3RT25 17-1AF00 | SIEMENS | Power Contactor FOR MH BRAKE | 11K2<br>=E01+B01/119.8 | 1 | 22A,POWER CONTACTOR | 3RT25 17-1AF00 | SIEMENS | = |
| DEVICE DESIGNATION<br>SCHEMATIC POSITION  | QUANTITY  | DESCRIPTION         | PART NUMBER    | MANUFACTURER | FUNCTION TEXT                           |   |   |   |           |  |                   |             |             |              |               |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                        |   |                     |                |         |                              |                        |   |                     |                |         |   |
| 11DM12<br>=E01+B01/113.5  | 1         | 1900 Volts Diode    | SKKD - 212/18  | SEMIKRON     |   |   |   |   |           |  |                   |             |             |              |               |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                        |   |                     |                |         |                              |                        |   |                     |                |         |   |
| 11DM13<br>=E01+B01/114.3  | 1         | 1900 Volts Diode    | SKKD - 212/18  | SEMIKRON     |   |   |   |   |           |  |                   |             |             |              |               |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                        |   |                     |                |         |                              |                        |   |                     |                |         |   |
| 11DM14<br>=E01+B01/114.3  | 1         | 1900 Volts Diode    | SKKD - 212/18  | SEMIKRON     |   |   |   |   |           |  |                   |             |             |              |               |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                        |   |                     |                |         |                              |                        |   |                     |                |         |   |
| 11DM15<br>=E01+B01/114.5  | 1         | 1900 Volts Diode    | SKKD - 212/18  | SEMIKRON     |   |   |   |   |           |  |                   |             |             |              |               |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                        |   |                     |                |         |                              |                        |   |                     |                |         |   |
| 11DM16<br>=E01+B01/114.5  | 1         | 1900 Volts Diode    | SKKD - 212/18  | SEMIKRON     |   |   |   |   |           |  |                   |             |             |              |               |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                        |   |                     |                |         |                              |                        |   |                     |                |         |   |
| 11DM17<br>=E01+B01/115.3  | 1         | 1900 Volts Diode    | SKKD - 212/18  | SEMIKRON     |   |   |   |   |           |  |                   |             |             |              |               |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                        |   |                     |                |         |                              |                        |   |                     |                |         |   |
| 11DM18<br>=E01+B01/115.3  | 1         | 1900 Volts Diode    | SKKD - 212/18  | SEMIKRON     |   |   |   |   |           |  |                   |             |             |              |               |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                        |   |                     |                |         |                              |                        |   |                     |                |         |   |
| 11DM19<br>=E01+B01/115.5  | 1         | 1900 Volts Diode    | SKKD - 212/18  | SEMIKRON     |   |   |   |   |           |  |                   |             |             |              |               |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                        |   |                     |                |         |                              |                        |   |                     |                |         |   |
| 11DM20<br>=E01+B01/115.5  | 1         | 1900 Volts Diode    | SKKD - 212/18  | SEMIKRON     |   |   |   |   |           |  |                   |             |             |              |               |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                        |   |                     |                |         |                              |                        |   |                     |                |         |   |
| 11DM21<br>=E01+B01/116.3  | 1         | 1900 Volts Diode    | SKKD - 212/18  | SEMIKRON     |   |   |   |   |           |  |                   |             |             |              |               |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                        |   |                     |                |         |                              |                        |   |                     |                |         |   |
| 11DM22<br>=E01+B01/116.3  | 1         | 1900 Volts Diode    | SKKD - 212/18  | SEMIKRON     |   |   |   |   |           |  |                   |             |             |              |               |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                        |   |                     |                |         |                              |                        |   |                     |                |         |   |
| 11DM23<br>=E01+B01/116.5  | 1         | 1900 Volts Diode    | SKKD - 212/18  | SEMIKRON     |   |   |   |   |           |  |                   |             |             |              |               |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                        |   |                     |                |         |                              |                        |   |                     |                |         |   |
| 11DM24<br>=E01+B01/116.5  | 1         | 1900 Volts Diode    | SKKD - 212/18  | SEMIKRON     |   |   |   |   |           |  |                   |             |             |              |               |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                        |   |                     |                |         |                              |                        |   |                     |                |         |   |
| 11DM25<br>=E01+B01/117.4  | 1         | 1900 Volts Diode    | SKKD - 212/18  | SEMIKRON     |   |   |   |   |           |  |                   |             |             |              |               |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                        |   |                     |                |         |                              |                        |   |                     |                |         |   |
| 11DM26<br>=E01+B01/117.4  | 1         | 1900 Volts Diode    | SKKD - 212/18  | SEMIKRON     |   |   |   |   |           |  |                   |             |             |              |               |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                        |   |                     |                |         |                              |                        |   |                     |                |         |   |
| 11DM27<br>=E01+B01/117.5  | 1         | 1900 Volts Diode    | SKKD - 212/18  | SEMIKRON     |   |   |   |   |           |  |                   |             |             |              |               |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                        |   |                     |                |         |                              |                        |   |                     |                |         |   |
| 11DM28<br>=E01+B01/117.5  | 1         | 1900 Volts Diode    | SKKD - 212/18  | SEMIKRON     |   |   |   |   |           |  |                   |             |             |              |               |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                        |   |                     |                |         |                              |                        |   |                     |                |         |   |
| 11K1<br>=E01+B01/119.7  | 1         | 22A,POWER CONTACTOR | 3RT25 17-1AF00 | SIEMENS      | Power Contactor FOR MH BRAKE            |   |   |   |           |  |                   |             |             |              |               |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                        |   |                     |                |         |                              |                        |   |                     |                |         |   |
| 11K2<br>=E01+B01/119.8  | 1         | 22A,POWER CONTACTOR | 3RT25 17-1AF00 | SIEMENS      | =                                       |   |   |   |           |  |                   |             |             |              |               |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                        |   |                     |                |         |                              |                        |   |                     |                |         |   |
|   |           |                     | Date           |              | Client : JSW<br>Application : EOT CRANE |   |  |   | PART LIST |  | DRWG No : 1601263 |             | = E00       |              |               |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                        |   |                     |                |         |                              |                        |   |                     |                |         |   |
|   |           | Edit                | SIVA           | + BOM        |   |   |   |   |           |  |                   |             |             |              |               |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                        |   |                     |                |         |                              |                        |   |                     |                |         |   |
| REV-00  | 02-FEB-16 | SIVA                | Chk by         | MANIVASAGAN  |   |   |   |   |           |  |                   |             |             | Page         | 33            |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                        |   |                     |                |         |                              |                        |   |                     |                |         |   |
| Revision  | Date      | Name                | Appr           |              |   |   |   |   |           |  |                   | No.of Pages | 139         |              |               |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                          |   |                  |               |          |  |                        |   |                     |                |         |                              |                        |   |                     |                |         |   |

$$=E00 + BOM$$

## BILLS OF MATERIALS

| DEVICE DESIGNATION<br>SCHEMATIC POSITION | QUANTITY | DESCRIPTION                             | PART NUMBER    | MANUFACTURER | FUNCTION TEXT                  |
|--|----------|---|----------------|--------------|--------------------------------|
| 11K3<br>=E01+B01/120.6                   | 1        | 18A,POWER CONTACTOR                     | 3RT25 16-1AF00 | SIEMENS      | Power Contactor FOR CT BRAKE   |
| 11K4<br>=E01+B01/121.6                   | 1        | 18A,POWER CONTACTOR                     | 3RT25 16-1AF00 | SIEMENS      | Power Contactor FOR LT-1 BRAKE |
| 11K5<br>=E01+B01/121.7                   | 1        | 18A,POWER CONTACTOR                     | 3RT25 16-1AF00 | SIEMENS      | =                              |
| 11K6<br>=E01+B01/122.6                   | 1        | 18A,POWER CONTACTOR                     | 3RT25 16-1AF00 | SIEMENS      | Power Contactor                |
| 11K7<br>=E01+B01/122.7                   | 1        | 18A,POWER CONTACTOR                     | 3RT25 16-1AF00 | SIEMENS      | =                              |
| 11K11<br>=E01+B01/119.4                  | 1        | 32A,DC CONTACTOR                        | 3TC44 17-0BF0  | SIEMENS      | DC Contactor FOR MH            |
| 11K12<br>=E01+B01/119.5                  | 1        | 32A,DC CONTACTOR                        | 3TC44 17-0BF0  | SIEMENS      | =                              |
| 11K13<br>=E01+B01/120.3                  | 1        | 32A,DC CONTACTOR                        | 3TC44 17-0BF0  | SIEMENS      | DC Contactor FOR CT            |
| 11K14<br>=E01+B01/121.3                  | 1        | 32A,DC CONTACTOR                        | 3TC44 17-0BF0  | SIEMENS      | DC Contactor FOR LT-1 BRAKE    |
| 11K15<br>=E01+B01/121.4                  | 1        | 32A,DC CONTACTOR                        | 3TC44 17-0BF0  | SIEMENS      | =                              |
| 11K16<br>=E01+B01/122.3                  | 1        | 32A,DC CONTACTOR                        | 3TC44 17-0BF0  | SIEMENS      | DC Contactor FOR LT-2 BRAKE    |
| 11K17<br>=E01+B01/122.4                  | 1        | 32A,DC CONTACTOR                        | 3TC44 17-0BF0  | SIEMENS      | =                              |
| 11K21<br>=E01+B01/123.3                  | 1        | 10A CONTACTOR ,110V COIL VOLTAGE (4 NO) | 3RH21 40-1AF00 | SIEMENS      | CONTROL CONTACTOR FOR MH BRAKE |
| 11K23<br>=E01+B01/123.4                  | 1        | 10A CONTACTOR ,110V COIL VOLTAGE (4 NO) | 3RH21 40-1AF00 | SIEMENS      | CONTROL CONTACTOR FOR CT BRAKE |
| 11K24<br>=E01+B01/123.6                  | 1        | 10A CONTACTOR ,110V COIL VOLTAGE (4 NO) | 3RH21 40-1AF00 | SIEMENS      | CONTROL CONTACTOR FOR LT BRAKE |
| 11KBC<br>=E01+B01/110.2                  | 1        | 40 A,POWER CONTACTOR , 110V AC COIL     | 3RT10 35-1AG20 | SIEMENS      |                                |
| 11QBR1<br>=E01+B01/111.1                 | 1        | 5-8A,MPCB,1NO+1NC                       | 3VU13 40-1NK00 | SIEMENS      | MPCB FOR MH BRAKE              |
| 11QBR2<br>=E01+B01/112.1                 | 1        | 5-8A,MPCB,1NO+1NC                       | 3VU13 40-1NK00 | SIEMENS      | =                              |
| 11QBR3<br>=E01+B01/113.1                 | 1        | 3.2-5A,MPCB,1NO+1NC                     | 3VU13 40-1NJ00 | SIEMENS      | MPCB FOR CT BRAKE              |


|          |           |      |        |             |              |   |           |                   |     |       |    |
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|          |           |      | Date   |             | Client : JSW |  | PART LIST | = E00             |     |       |    |
|          |           |      | Edit   | SIVA        |              |   |           | DRWG No : 1601263 |     | + BOM |    |
| REV-00   | 02-FEB-16 | SIVA | Chk by | MANIVASAGAN |              |   |           |                   |     | Page  | 34 |
| Revision | Date      | Name | Appr   |             |              |   |           | No.of Pages       | 139 |       |    |

$$=E00 + BOM$$

## BILLS OF MATERIALS

| DEVICE DESIGNATION<br>SCHEMATIC POSITION | QUANTITY | DESCRIPTION                   | PART NUMBER             | MANUFACTURER | FUNCTION TEXT         |
|--|----------|-------------------------------|-------------------------|--------------|-----------------------|
| 11QBR4<br>=E01+B01/114.1                 | 1        | 3.2-5A,MPCB,1NO+1NC           | 3VU13 40-1NJ00          | SIEMENS      | MPCB FOR LT-1 BRAKE   |
| 11QBR5<br>=E01+B01/115.1                 | 1        | 3.2-5A,MPCB,1NO+1NC           | 3VU13 40-1NJ00          | SIEMENS      | =                     |
| 11QBR6<br>=E01+B01/116.1                 | 1        | 3.2-5A,MPCB,1NO+1NC           | 3VU13 40-1NJ00          | SIEMENS      | MPCB FOR LT-2 BRAKE   |
| 11QBR7<br>=E01+B01/117.1                 | 1        | 3.2-5A,MPCB,1NO+1NC           | 3VU13 40-1NJ00          | SIEMENS      | =                     |
| 11QT1<br>=E01+B01/110.4                  | 1        | 10-16A MPCB                   | 3RV2411-4AA10           | SIEMENS      | MPCB                  |
| 11QT2<br>=E01+B01/110.4                  | 1        | 40A 3P MCB C Characteristics  | 5SL63407RC              | SIEMENS      | MCB FOR BRAKE TRF SEC |
| R1<br>=E01+B01/117.4                     | 40       | RESISTOR 10W                  | HEC 815                 | REPUTED      |                       |
| 11T1<br>=E01+B01/119.6                   | 1        | TIMER                         | BCH.CAT NO.KRTPN10      | BCH          | MH Drive Timer        |
| 11T2<br>=E01+B01/120.4                   | 1        | TIMER                         | BCH.CAT NO.KRTPN10      | BCH          | CT Drive Timer        |
| 11T3<br>=E01+B01/121.5                   | 1        | TIMER                         | BCH.CAT NO.KRTPN10      | BCH          | LT-1 Drive Timer      |
| 11T4<br>=E01+B01/122.5                   | 1        | TIMER                         | BCH.CAT NO.KRTPN10      | BCH          | LT-2 Drive Timer      |
| 11TR1<br>=E01+B01/110.4                  | 1        | BRAKE TRANSFORMER             | TRANS - 415/0V-65V-265V | MELCON       | BRAKE TRANSFORMER     |
| LT1-M1<br>=E01+OLR/125.1                 | 1        | 3AC 400 V, 50 Hz; 45 KW, 80 A | 1SE0 281-6NA80-Z        | SIEMENS      |                       |
| LT1-M2<br>=E01+OLR/125.3                 | 1        | 3AC 400 V, 50 Hz; 45 KW, 80 A | 1SE0 281-6NA80-Z        | SIEMENS      |                       |
| LT2-M1<br>=E01+OLR/125.5                 | 1        | 3AC 400 V, 50 Hz; 45 KW, 80 A | 1SE0 281-6NA80-Z        | SIEMENS      |                       |
| LT2-M2<br>=E01+OLR/125.8                 | 1        | 3AC 400 V, 50 Hz; 45 KW, 80 A | 1SE0 281-6NA80-Z        | SIEMENS      |                       |
| 12OLR1<br>=E01+OLR/125.1                 | 1        | 25-100A , OLR , CLASS 10      | 3RB20 46-1EW1           | SIEMENS      | LT1_OLR-1             |
| 12OLR2<br>=E01+OLR/125.3                 | 1        | 25-100A , OLR , CLASS 10      | 3RB20 46-1EW1           | SIEMENS      | LT1_OLR-2             |
| 12OLR3<br>=E01+OLR/125.5                 | 1        | 25-100A , OLR , CLASS 10      | 3RB20 46-1EW1           | SIEMENS      | LT2_OLR-1             |

|          |           |      |        |             |              |   |           |                         |  |             |     |  |  |
|----------|-----------|------|--------|-------------|--------------|---|-----------|-------------------------|--|-------------|-----|--|--|
|          |           |      | Date   |             | Client : JSW |  | PART LIST | DRWG No : 1601263       |  | = E00       |     |  |  |
|          |           |      | Edit   | SIVA        |              |   |           |                         |  | + BOM       |     |  |  |
| REV-00   | 02-FEB-16 | SIVA | Chk by | MANIVASAGAN |              |   |           | Application : EOT CRANE |  |             |     |  |  |
| Revision | Date      | Name | Appr   |             |              |  |           |                         |  | Page        | 35  |  |  |
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| 0  | 1         | 2  | 3                 | 4               | 5                                       | 6 | 7   | 8         | 9 |  |                 |             |             |              |               |                          |   |                          |               |         |           |                        |   |          |                |         |              |                        |   |          |                |         |              |                        |   |          |                |         |              |                        |   |            |                |         |                 |                        |   |            |                |         |           |                        |   |            |                |         |   |                         |   |  |                   |                 |                          |                         |   |                 |                |         |                  |                         |   |            |             |         |   |                         |   |          |                |         |                    |                         |   |            |             |         |   |                         |   |         |                |         |                |                         |   |  |                  |                 |                           |                         |   |          |                |         |                   |                         |   |            |             |         |   |                         |   |          |                |         |                   |                         |   |            |             |         |   |                         |   |         |                |         |              |
|--|-----------|--|-------------------|-----------------|---|---|---|-----------|---|--|-----------------|-------------|-------------|--------------|---------------|--------------------------|---|--------------------------|---------------|---------|-----------|------------------------|---|----------|----------------|---------|--------------|------------------------|---|----------|----------------|---------|--------------|------------------------|---|----------|----------------|---------|--------------|------------------------|---|------------|----------------|---------|-----------------|------------------------|---|------------|----------------|---------|-----------|------------------------|---|------------|----------------|---------|---|-------------------------|---|--|-------------------|-----------------|--------------------------|-------------------------|---|-----------------|----------------|---------|------------------|-------------------------|---|------------|-------------|---------|---|-------------------------|---|----------|----------------|---------|--------------------|-------------------------|---|------------|-------------|---------|---|-------------------------|---|---------|----------------|---------|----------------|-------------------------|---|--|------------------|-----------------|---------------------------|-------------------------|---|----------|----------------|---------|-------------------|-------------------------|---|------------|-------------|---------|---|-------------------------|---|----------|----------------|---------|-------------------|-------------------------|---|------------|-------------|---------|---|-------------------------|---|---------|----------------|---------|--------------|
| =E00 + BOM   |           |  |                   |                 |   |   |   |           |   |  |                 |             |             |              |               |                          |   |                          |               |         |           |                        |   |          |                |         |              |                        |   |          |                |         |              |                        |   |          |                |         |              |                        |   |            |                |         |                 |                        |   |            |                |         |           |                        |   |            |                |         |   |                         |   |  |                   |                 |                          |                         |   |                 |                |         |                  |                         |   |            |             |         |   |                         |   |          |                |         |                    |                         |   |            |             |         |   |                         |   |         |                |         |                |                         |   |  |                  |                 |                           |                         |   |          |                |         |                   |                         |   |            |             |         |   |                         |   |          |                |         |                   |                         |   |            |             |         |   |                         |   |         |                |         |              |
| BILLS OF MATERIALS   |           |  |                   |                 |   |   |   |           |   |  |                 |             |             |              |               |                          |   |                          |               |         |           |                        |   |          |                |         |              |                        |   |          |                |         |              |                        |   |          |                |         |              |                        |   |            |                |         |                 |                        |   |            |                |         |           |                        |   |            |                |         |   |                         |   |  |                   |                 |                          |                         |   |                 |                |         |                  |                         |   |            |             |         |   |                         |   |          |                |         |                    |                         |   |            |             |         |   |                         |   |         |                |         |                |                         |   |  |                  |                 |                           |                         |   |          |                |         |                   |                         |   |            |             |         |   |                         |   |          |                |         |                   |                         |   |            |             |         |   |                         |   |         |                |         |              |
| <table><tr><th>DEVICE DESIGNATION<br/>SCHEMATIC POSITION</th><th>QUANTITY</th><th>DESCRIPTION</th><th>PART NUMBER</th><th>MANUFACTURER</th><th>FUNCTION TEXT</th></tr><tr><td>12OLR4<br/>=E01+OLR/125.8</td><td>1</td><td>25-100A , OLR , CLASS 10</td><td>3RB20 46-1EW1</td><td>SIEMENS</td><td>LT2_OLR-2</td></tr><tr><td>50H1<br/>=A01+LH1/135.5</td><td>1</td><td>LAMP/RED</td><td>3SB52 85-6HC02</td><td>SIEMENS</td><td>Red SLM-1 ON</td></tr><tr><td>50H2<br/>=A01+LH1/135.6</td><td>1</td><td>LAMP/RED</td><td>3SB52 85-6HC02</td><td>SIEMENS</td><td>Red SLM-2 ON</td></tr><tr><td>50H3<br/>=A01+LH1/135.2</td><td>1</td><td>LAMP/RED</td><td>3SB52 85-6HC02</td><td>SIEMENS</td><td>Red Crane ON</td></tr><tr><td>50H4<br/>=A01+LH1/135.3</td><td>1</td><td>LAMP/GREEN</td><td>3SB52 85-6HE02</td><td>SIEMENS</td><td>Green Crane OFF</td></tr><tr><td>50H5<br/>=A01+LH1/135.7</td><td>1</td><td>LAMP/AMBER</td><td>3SB52 85-6HL02</td><td>SIEMENS</td><td>Red Spare</td></tr><tr><td>50H6<br/>=A01+LH1/135.4</td><td>1</td><td>LAMP/AMBER</td><td>3SB52 85-6HL02</td><td>SIEMENS</td><td>=</td></tr><tr><td>50MC1<br/>=A01+LH1/132.0</td><td>1</td><td>5-0-5 Notch , Multi axis Master controller</td><td>VNS044 FU18 VR 50</td><td>Spohn+Burkhardt</td><td>Master controller Duplex</td></tr><tr><td>50PB2<br/>=A01+LH1/134.5</td><td>1</td><td>RED/PUSH BUTTON</td><td>3SB50 00-0AC01</td><td>SIEMENS</td><td>PB FOR Spare RED</td></tr><tr><td>50PB2<br/>=A01+LH1/134.5</td><td>1</td><td>NO ELEMENT</td><td>3SB54 00-0B</td><td>SIEMENS</td><td>=</td></tr><tr><td>50PB3<br/>=A01+LH1/134.6</td><td>1</td><td>PB/GREEN</td><td>3SB50 00-0AE01</td><td>SIEMENS</td><td>PB FOR Spare Green</td></tr><tr><td>50PB3<br/>=A01+LH1/134.6</td><td>1</td><td>NO ELEMENT</td><td>3SB54 00-0B</td><td>SIEMENS</td><td>=</td></tr><tr><td>51ES1<br/>=A01+RH1/139.9</td><td>1</td><td>MPB/RED</td><td>3SB52 03-0UC01</td><td>SIEMENS</td><td>E-STOP Red MPB</td></tr><tr><td>51MC1<br/>=A01+RH1/138.0</td><td>1</td><td>5-0-5 Notch , Multi axis Master controller</td><td>VNS04 FN18 ER 50</td><td>Spohn+Burkhardt</td><td>Master controller SIMPLEX</td></tr><tr><td>51PB1<br/>=A01+RH1/139.8</td><td>1</td><td>PB/GREEN</td><td>3SB50 00-0AE01</td><td>SIEMENS</td><td>Crane ON Green PB</td></tr><tr><td>51PB1<br/>=A01+RH1/139.8</td><td>1</td><td>NO ELEMENT</td><td>3SB54 00-0B</td><td>SIEMENS</td><td>=</td></tr><tr><td>51PB2<br/>=A01+RH1/139.2</td><td>1</td><td>PB/BLACK</td><td>3SB50 00-0AB01</td><td>SIEMENS</td><td>Black Fault Reset</td></tr><tr><td>51PB2<br/>=A01+RH1/139.2</td><td>1</td><td>NO ELEMENT</td><td>3SB54 00-0B</td><td>SIEMENS</td><td>=</td></tr><tr><td>51PB3<br/>=A01+RH1/139.4</td><td>1</td><td>PB/BLUE</td><td>3SB50 00-0AF01</td><td>SIEMENS</td><td>Open Blue PB</td></tr></table> |           |  |                   |                 |   |   |   |           |   | DEVICE DESIGNATION<br>SCHEMATIC POSITION | QUANTITY        | DESCRIPTION | PART NUMBER | MANUFACTURER | FUNCTION TEXT | 12OLR4<br>=E01+OLR/125.8 | 1 | 25-100A , OLR , CLASS 10 | 3RB20 46-1EW1 | SIEMENS | LT2_OLR-2 | 50H1<br>=A01+LH1/135.5 | 1 | LAMP/RED | 3SB52 85-6HC02 | SIEMENS | Red SLM-1 ON | 50H2<br>=A01+LH1/135.6 | 1 | LAMP/RED | 3SB52 85-6HC02 | SIEMENS | Red SLM-2 ON | 50H3<br>=A01+LH1/135.2 | 1 | LAMP/RED | 3SB52 85-6HC02 | SIEMENS | Red Crane ON | 50H4<br>=A01+LH1/135.3 | 1 | LAMP/GREEN | 3SB52 85-6HE02 | SIEMENS | Green Crane OFF | 50H5<br>=A01+LH1/135.7 | 1 | LAMP/AMBER | 3SB52 85-6HL02 | SIEMENS | Red Spare | 50H6<br>=A01+LH1/135.4 | 1 | LAMP/AMBER | 3SB52 85-6HL02 | SIEMENS | = | 50MC1<br>=A01+LH1/132.0 | 1 | 5-0-5 Notch , Multi axis Master controller | VNS044 FU18 VR 50 | Spohn+Burkhardt | Master controller Duplex | 50PB2<br>=A01+LH1/134.5 | 1 | RED/PUSH BUTTON | 3SB50 00-0AC01 | SIEMENS | PB FOR Spare RED | 50PB2<br>=A01+LH1/134.5 | 1 | NO ELEMENT | 3SB54 00-0B | SIEMENS | = | 50PB3<br>=A01+LH1/134.6 | 1 | PB/GREEN | 3SB50 00-0AE01 | SIEMENS | PB FOR Spare Green | 50PB3<br>=A01+LH1/134.6 | 1 | NO ELEMENT | 3SB54 00-0B | SIEMENS | = | 51ES1<br>=A01+RH1/139.9 | 1 | MPB/RED | 3SB52 03-0UC01 | SIEMENS | E-STOP Red MPB | 51MC1<br>=A01+RH1/138.0 | 1 | 5-0-5 Notch , Multi axis Master controller | VNS04 FN18 ER 50 | Spohn+Burkhardt | Master controller SIMPLEX | 51PB1<br>=A01+RH1/139.8 | 1 | PB/GREEN | 3SB50 00-0AE01 | SIEMENS | Crane ON Green PB | 51PB1<br>=A01+RH1/139.8 | 1 | NO ELEMENT | 3SB54 00-0B | SIEMENS | = | 51PB2<br>=A01+RH1/139.2 | 1 | PB/BLACK | 3SB50 00-0AB01 | SIEMENS | Black Fault Reset | 51PB2<br>=A01+RH1/139.2 | 1 | NO ELEMENT | 3SB54 00-0B | SIEMENS | = | 51PB3<br>=A01+RH1/139.4 | 1 | PB/BLUE | 3SB50 00-0AF01 | SIEMENS | Open Blue PB |
| DEVICE DESIGNATION<br>SCHEMATIC POSITION   | QUANTITY  | DESCRIPTION                                | PART NUMBER       | MANUFACTURER    | FUNCTION TEXT                           |   |   |           |   |  |                 |             |             |              |               |                          |   |                          |               |         |           |                        |   |          |                |         |              |                        |   |          |                |         |              |                        |   |          |                |         |              |                        |   |            |                |         |                 |                        |   |            |                |         |           |                        |   |            |                |         |   |                         |   |  |                   |                 |                          |                         |   |                 |                |         |                  |                         |   |            |             |         |   |                         |   |          |                |         |                    |                         |   |            |             |         |   |                         |   |         |                |         |                |                         |   |  |                  |                 |                           |                         |   |          |                |         |                   |                         |   |            |             |         |   |                         |   |          |                |         |                   |                         |   |            |             |         |   |                         |   |         |                |         |              |
| 12OLR4<br>=E01+OLR/125.8   | 1         | 25-100A , OLR , CLASS 10                   | 3RB20 46-1EW1     | SIEMENS         | LT2_OLR-2                               |   |   |           |   |  |                 |             |             |              |               |                          |   |                          |               |         |           |                        |   |          |                |         |              |                        |   |          |                |         |              |                        |   |          |                |         |              |                        |   |            |                |         |                 |                        |   |            |                |         |           |                        |   |            |                |         |   |                         |   |  |                   |                 |                          |                         |   |                 |                |         |                  |                         |   |            |             |         |   |                         |   |          |                |         |                    |                         |   |            |             |         |   |                         |   |         |                |         |                |                         |   |  |                  |                 |                           |                         |   |          |                |         |                   |                         |   |            |             |         |   |                         |   |          |                |         |                   |                         |   |            |             |         |   |                         |   |         |                |         |              |
| 50H1<br>=A01+LH1/135.5   | 1         | LAMP/RED                                   | 3SB52 85-6HC02    | SIEMENS         | Red SLM-1 ON                            |   |   |           |   |  |                 |             |             |              |               |                          |   |                          |               |         |           |                        |   |          |                |         |              |                        |   |          |                |         |              |                        |   |          |                |         |              |                        |   |            |                |         |                 |                        |   |            |                |         |           |                        |   |            |                |         |   |                         |   |  |                   |                 |                          |                         |   |                 |                |         |                  |                         |   |            |             |         |   |                         |   |          |                |         |                    |                         |   |            |             |         |   |                         |   |         |                |         |                |                         |   |  |                  |                 |                           |                         |   |          |                |         |                   |                         |   |            |             |         |   |                         |   |          |                |         |                   |                         |   |            |             |         |   |                         |   |         |                |         |              |
| 50H2<br>=A01+LH1/135.6   | 1         | LAMP/RED                                   | 3SB52 85-6HC02    | SIEMENS         | Red SLM-2 ON                            |   |   |           |   |  |                 |             |             |              |               |                          |   |                          |               |         |           |                        |   |          |                |         |              |                        |   |          |                |         |              |                        |   |          |                |         |              |                        |   |            |                |         |                 |                        |   |            |                |         |           |                        |   |            |                |         |   |                         |   |  |                   |                 |                          |                         |   |                 |                |         |                  |                         |   |            |             |         |   |                         |   |          |                |         |                    |                         |   |            |             |         |   |                         |   |         |                |         |                |                         |   |  |                  |                 |                           |                         |   |          |                |         |                   |                         |   |            |             |         |   |                         |   |          |                |         |                   |                         |   |            |             |         |   |                         |   |         |                |         |              |
| 50H3<br>=A01+LH1/135.2   | 1         | LAMP/RED                                   | 3SB52 85-6HC02    | SIEMENS         | Red Crane ON                            |   |   |           |   |  |                 |             |             |              |               |                          |   |                          |               |         |           |                        |   |          |                |         |              |                        |   |          |                |         |              |                        |   |          |                |         |              |                        |   |            |                |         |                 |                        |   |            |                |         |           |                        |   |            |                |         |   |                         |   |  |                   |                 |                          |                         |   |                 |                |         |                  |                         |   |            |             |         |   |                         |   |          |                |         |                    |                         |   |            |             |         |   |                         |   |         |                |         |                |                         |   |  |                  |                 |                           |                         |   |          |                |         |                   |                         |   |            |             |         |   |                         |   |          |                |         |                   |                         |   |            |             |         |   |                         |   |         |                |         |              |
| 50H4<br>=A01+LH1/135.3   | 1         | LAMP/GREEN                                 | 3SB52 85-6HE02    | SIEMENS         | Green Crane OFF                         |   |   |           |   |  |                 |             |             |              |               |                          |   |                          |               |         |           |                        |   |          |                |         |              |                        |   |          |                |         |              |                        |   |          |                |         |              |                        |   |            |                |         |                 |                        |   |            |                |         |           |                        |   |            |                |         |   |                         |   |  |                   |                 |                          |                         |   |                 |                |         |                  |                         |   |            |             |         |   |                         |   |          |                |         |                    |                         |   |            |             |         |   |                         |   |         |                |         |                |                         |   |  |                  |                 |                           |                         |   |          |                |         |                   |                         |   |            |             |         |   |                         |   |          |                |         |                   |                         |   |            |             |         |   |                         |   |         |                |         |              |
| 50H5<br>=A01+LH1/135.7   | 1         | LAMP/AMBER                                 | 3SB52 85-6HL02    | SIEMENS         | Red Spare                               |   |   |           |   |  |                 |             |             |              |               |                          |   |                          |               |         |           |                        |   |          |                |         |              |                        |   |          |                |         |              |                        |   |          |                |         |              |                        |   |            |                |         |                 |                        |   |            |                |         |           |                        |   |            |                |         |   |                         |   |  |                   |                 |                          |                         |   |                 |                |         |                  |                         |   |            |             |         |   |                         |   |          |                |         |                    |                         |   |            |             |         |   |                         |   |         |                |         |                |                         |   |  |                  |                 |                           |                         |   |          |                |         |                   |                         |   |            |             |         |   |                         |   |          |                |         |                   |                         |   |            |             |         |   |                         |   |         |                |         |              |
| 50H6<br>=A01+LH1/135.4   | 1         | LAMP/AMBER                                 | 3SB52 85-6HL02    | SIEMENS         | =                                       |   |   |           |   |  |                 |             |             |              |               |                          |   |                          |               |         |           |                        |   |          |                |         |              |                        |   |          |                |         |              |                        |   |          |                |         |              |                        |   |            |                |         |                 |                        |   |            |                |         |           |                        |   |            |                |         |   |                         |   |  |                   |                 |                          |                         |   |                 |                |         |                  |                         |   |            |             |         |   |                         |   |          |                |         |                    |                         |   |            |             |         |   |                         |   |         |                |         |                |                         |   |  |                  |                 |                           |                         |   |          |                |         |                   |                         |   |            |             |         |   |                         |   |          |                |         |                   |                         |   |            |             |         |   |                         |   |         |                |         |              |
| 50MC1<br>=A01+LH1/132.0  | 1         | 5-0-5 Notch , Multi axis Master controller | VNS044 FU18 VR 50 | Spohn+Burkhardt | Master controller Duplex                |   |   |           |   |  |                 |             |             |              |               |                          |   |                          |               |         |           |                        |   |          |                |         |              |                        |   |          |                |         |              |                        |   |          |                |         |              |                        |   |            |                |         |                 |                        |   |            |                |         |           |                        |   |            |                |         |   |                         |   |  |                   |                 |                          |                         |   |                 |                |         |                  |                         |   |            |             |         |   |                         |   |          |                |         |                    |                         |   |            |             |         |   |                         |   |         |                |         |                |                         |   |  |                  |                 |                           |                         |   |          |                |         |                   |                         |   |            |             |         |   |                         |   |          |                |         |                   |                         |   |            |             |         |   |                         |   |         |                |         |              |
| 50PB2<br>=A01+LH1/134.5  | 1         | RED/PUSH BUTTON                            | 3SB50 00-0AC01    | SIEMENS         | PB FOR Spare RED                        |   |   |           |   |  |                 |             |             |              |               |                          |   |                          |               |         |           |                        |   |          |                |         |              |                        |   |          |                |         |              |                        |   |          |                |         |              |                        |   |            |                |         |                 |                        |   |            |                |         |           |                        |   |            |                |         |   |                         |   |  |                   |                 |                          |                         |   |                 |                |         |                  |                         |   |            |             |         |   |                         |   |          |                |         |                    |                         |   |            |             |         |   |                         |   |         |                |         |                |                         |   |  |                  |                 |                           |                         |   |          |                |         |                   |                         |   |            |             |         |   |                         |   |          |                |         |                   |                         |   |            |             |         |   |                         |   |         |                |         |              |
| 50PB2<br>=A01+LH1/134.5  | 1         | NO ELEMENT                                 | 3SB54 00-0B       | SIEMENS         | =                                       |   |   |           |   |  |                 |             |             |              |               |                          |   |                          |               |         |           |                        |   |          |                |         |              |                        |   |          |                |         |              |                        |   |          |                |         |              |                        |   |            |                |         |                 |                        |   |            |                |         |           |                        |   |            |                |         |   |                         |   |  |                   |                 |                          |                         |   |                 |                |         |                  |                         |   |            |             |         |   |                         |   |          |                |         |                    |                         |   |            |             |         |   |                         |   |         |                |         |                |                         |   |  |                  |                 |                           |                         |   |          |                |         |                   |                         |   |            |             |         |   |                         |   |          |                |         |                   |                         |   |            |             |         |   |                         |   |         |                |         |              |
| 50PB3<br>=A01+LH1/134.6  | 1         | PB/GREEN                                   | 3SB50 00-0AE01    | SIEMENS         | PB FOR Spare Green                      |   |   |           |   |  |                 |             |             |              |               |                          |   |                          |               |         |           |                        |   |          |                |         |              |                        |   |          |                |         |              |                        |   |          |                |         |              |                        |   |            |                |         |                 |                        |   |            |                |         |           |                        |   |            |                |         |   |                         |   |  |                   |                 |                          |                         |   |                 |                |         |                  |                         |   |            |             |         |   |                         |   |          |                |         |                    |                         |   |            |             |         |   |                         |   |         |                |         |                |                         |   |  |                  |                 |                           |                         |   |          |                |         |                   |                         |   |            |             |         |   |                         |   |          |                |         |                   |                         |   |            |             |         |   |                         |   |         |                |         |              |
| 50PB3<br>=A01+LH1/134.6  | 1         | NO ELEMENT                                 | 3SB54 00-0B       | SIEMENS         | =                                       |   |   |           |   |  |                 |             |             |              |               |                          |   |                          |               |         |           |                        |   |          |                |         |              |                        |   |          |                |         |              |                        |   |          |                |         |              |                        |   |            |                |         |                 |                        |   |            |                |         |           |                        |   |            |                |         |   |                         |   |  |                   |                 |                          |                         |   |                 |                |         |                  |                         |   |            |             |         |   |                         |   |          |                |         |                    |                         |   |            |             |         |   |                         |   |         |                |         |                |                         |   |  |                  |                 |                           |                         |   |          |                |         |                   |                         |   |            |             |         |   |                         |   |          |                |         |                   |                         |   |            |             |         |   |                         |   |         |                |         |              |
| 51ES1<br>=A01+RH1/139.9  | 1         | MPB/RED                                    | 3SB52 03-0UC01    | SIEMENS         | E-STOP Red MPB                          |   |   |           |   |  |                 |             |             |              |               |                          |   |                          |               |         |           |                        |   |          |                |         |              |                        |   |          |                |         |              |                        |   |          |                |         |              |                        |   |            |                |         |                 |                        |   |            |                |         |           |                        |   |            |                |         |   |                         |   |  |                   |                 |                          |                         |   |                 |                |         |                  |                         |   |            |             |         |   |                         |   |          |                |         |                    |                         |   |            |             |         |   |                         |   |         |                |         |                |                         |   |  |                  |                 |                           |                         |   |          |                |         |                   |                         |   |            |             |         |   |                         |   |          |                |         |                   |                         |   |            |             |         |   |                         |   |         |                |         |              |
| 51MC1<br>=A01+RH1/138.0  | 1         | 5-0-5 Notch , Multi axis Master controller | VNS04 FN18 ER 50  | Spohn+Burkhardt | Master controller SIMPLEX               |   |   |           |   |  |                 |             |             |              |               |                          |   |                          |               |         |           |                        |   |          |                |         |              |                        |   |          |                |         |              |                        |   |          |                |         |              |                        |   |            |                |         |                 |                        |   |            |                |         |           |                        |   |            |                |         |   |                         |   |  |                   |                 |                          |                         |   |                 |                |         |                  |                         |   |            |             |         |   |                         |   |          |                |         |                    |                         |   |            |             |         |   |                         |   |         |                |         |                |                         |   |  |                  |                 |                           |                         |   |          |                |         |                   |                         |   |            |             |         |   |                         |   |          |                |         |                   |                         |   |            |             |         |   |                         |   |         |                |         |              |
| 51PB1<br>=A01+RH1/139.8  | 1         | PB/GREEN                                   | 3SB50 00-0AE01    | SIEMENS         | Crane ON Green PB                       |   |   |           |   |  |                 |             |             |              |               |                          |   |                          |               |         |           |                        |   |          |                |         |              |                        |   |          |                |         |              |                        |   |          |                |         |              |                        |   |            |                |         |                 |                        |   |            |                |         |           |                        |   |            |                |         |   |                         |   |  |                   |                 |                          |                         |   |                 |                |         |                  |                         |   |            |             |         |   |                         |   |          |                |         |                    |                         |   |            |             |         |   |                         |   |         |                |         |                |                         |   |  |                  |                 |                           |                         |   |          |                |         |                   |                         |   |            |             |         |   |                         |   |          |                |         |                   |                         |   |            |             |         |   |                         |   |         |                |         |              |
| 51PB1<br>=A01+RH1/139.8  | 1         | NO ELEMENT                                 | 3SB54 00-0B       | SIEMENS         | =                                       |   |   |           |   |  |                 |             |             |              |               |                          |   |                          |               |         |           |                        |   |          |                |         |              |                        |   |          |                |         |              |                        |   |          |                |         |              |                        |   |            |                |         |                 |                        |   |            |                |         |           |                        |   |            |                |         |   |                         |   |  |                   |                 |                          |                         |   |                 |                |         |                  |                         |   |            |             |         |   |                         |   |          |                |         |                    |                         |   |            |             |         |   |                         |   |         |                |         |                |                         |   |  |                  |                 |                           |                         |   |          |                |         |                   |                         |   |            |             |         |   |                         |   |          |                |         |                   |                         |   |            |             |         |   |                         |   |         |                |         |              |
| 51PB2<br>=A01+RH1/139.2  | 1         | PB/BLACK                                   | 3SB50 00-0AB01    | SIEMENS         | Black Fault Reset                       |   |   |           |   |  |                 |             |             |              |               |                          |   |                          |               |         |           |                        |   |          |                |         |              |                        |   |          |                |         |              |                        |   |          |                |         |              |                        |   |            |                |         |                 |                        |   |            |                |         |           |                        |   |            |                |         |   |                         |   |  |                   |                 |                          |                         |   |                 |                |         |                  |                         |   |            |             |         |   |                         |   |          |                |         |                    |                         |   |            |             |         |   |                         |   |         |                |         |                |                         |   |  |                  |                 |                           |                         |   |          |                |         |                   |                         |   |            |             |         |   |                         |   |          |                |         |                   |                         |   |            |             |         |   |                         |   |         |                |         |              |
| 51PB2<br>=A01+RH1/139.2  | 1         | NO ELEMENT                                 | 3SB54 00-0B       | SIEMENS         | =                                       |   |   |           |   |  |                 |             |             |              |               |                          |   |                          |               |         |           |                        |   |          |                |         |              |                        |   |          |                |         |              |                        |   |          |                |         |              |                        |   |            |                |         |                 |                        |   |            |                |         |           |                        |   |            |                |         |   |                         |   |  |                   |                 |                          |                         |   |                 |                |         |                  |                         |   |            |             |         |   |                         |   |          |                |         |                    |                         |   |            |             |         |   |                         |   |         |                |         |                |                         |   |  |                  |                 |                           |                         |   |          |                |         |                   |                         |   |            |             |         |   |                         |   |          |                |         |                   |                         |   |            |             |         |   |                         |   |         |                |         |              |
| 51PB3<br>=A01+RH1/139.4  | 1         | PB/BLUE                                    | 3SB50 00-0AF01    | SIEMENS         | Open Blue PB                            |   |   |           |   |  |                 |             |             |              |               |                          |   |                          |               |         |           |                        |   |          |                |         |              |                        |   |          |                |         |              |                        |   |          |                |         |              |                        |   |            |                |         |                 |                        |   |            |                |         |           |                        |   |            |                |         |   |                         |   |  |                   |                 |                          |                         |   |                 |                |         |                  |                         |   |            |             |         |   |                         |   |          |                |         |                    |                         |   |            |             |         |   |                         |   |         |                |         |                |                         |   |  |                  |                 |                           |                         |   |          |                |         |                   |                         |   |            |             |         |   |                         |   |          |                |         |                   |                         |   |            |             |         |   |                         |   |         |                |         |              |
|  |           |  | Date              |                 | Client : JSW<br>Application : EOT CRANE |   |  | PART LIST |   | DRWG No : 1601263                        |                 | = E00       |             |              |               |                          |   |                          |               |         |           |                        |   |          |                |         |              |                        |   |          |                |         |              |                        |   |          |                |         |              |                        |   |            |                |         |                 |                        |   |            |                |         |           |                        |   |            |                |         |   |                         |   |  |                   |                 |                          |                         |   |                 |                |         |                  |                         |   |            |             |         |   |                         |   |          |                |         |                    |                         |   |            |             |         |   |                         |   |         |                |         |                |                         |   |  |                  |                 |                           |                         |   |          |                |         |                   |                         |   |            |             |         |   |                         |   |          |                |         |                   |                         |   |            |             |         |   |                         |   |         |                |         |              |
|  |           |  | Edit              | SIVA            |   |   |   |           |   | + BOM                                    |                 |             |             |              |               |                          |   |                          |               |         |           |                        |   |          |                |         |              |                        |   |          |                |         |              |                        |   |          |                |         |              |                        |   |            |                |         |                 |                        |   |            |                |         |           |                        |   |            |                |         |   |                         |   |  |                   |                 |                          |                         |   |                 |                |         |                  |                         |   |            |             |         |   |                         |   |          |                |         |                    |                         |   |            |             |         |   |                         |   |         |                |         |                |                         |   |  |                  |                 |                           |                         |   |          |                |         |                   |                         |   |            |             |         |   |                         |   |          |                |         |                   |                         |   |            |             |         |   |                         |   |         |                |         |              |
| REV-00   | 02-FEB-16 | SIVA                                       | Chk by            | MANIVASAGAN     |   |   |   |           |   |  |                 | Page 36     |             |              |               |                          |   |                          |               |         |           |                        |   |          |                |         |              |                        |   |          |                |         |              |                        |   |          |                |         |              |                        |   |            |                |         |                 |                        |   |            |                |         |           |                        |   |            |                |         |   |                         |   |  |                   |                 |                          |                         |   |                 |                |         |                  |                         |   |            |             |         |   |                         |   |          |                |         |                    |                         |   |            |             |         |   |                         |   |         |                |         |                |                         |   |  |                  |                 |                           |                         |   |          |                |         |                   |                         |   |            |             |         |   |                         |   |          |                |         |                   |                         |   |            |             |         |   |                         |   |         |                |         |              |
| Revision   | Date      | Name                                       | Appr              |                 |   |   |   |           |   |  | No.of Pages 139 |             |             |              |               |                          |   |                          |               |         |           |                        |   |          |                |         |              |                        |   |          |                |         |              |                        |   |          |                |         |              |                        |   |            |                |         |                 |                        |   |            |                |         |           |                        |   |            |                |         |   |                         |   |  |                   |                 |                          |                         |   |                 |                |         |                  |                         |   |            |             |         |   |                         |   |          |                |         |                    |                         |   |            |             |         |   |                         |   |         |                |         |                |                         |   |  |                  |                 |                           |                         |   |          |                |         |                   |                         |   |            |             |         |   |                         |   |          |                |         |                   |                         |   |            |             |         |   |                         |   |         |                |         |              |

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## BILLS OF MATERIALS

[illegible]

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|          | 02-FEB-16 | SIVA | Chk by | MANIVASAGAN |                         |  |   |           |                   |                 | Page 37 |  |
| Revision | Date      | Name | Appr   |             |                         |  |   |           |                   | No.of Pages 139 |         |  |

=E00 + COM  
OVER VIEW  
COVER PAGE

Project name

## Slab Handling Crane

## Classification

## OVER VIEW

## Control Voltage

110V AC SUPPLY

**Job number**

1601263

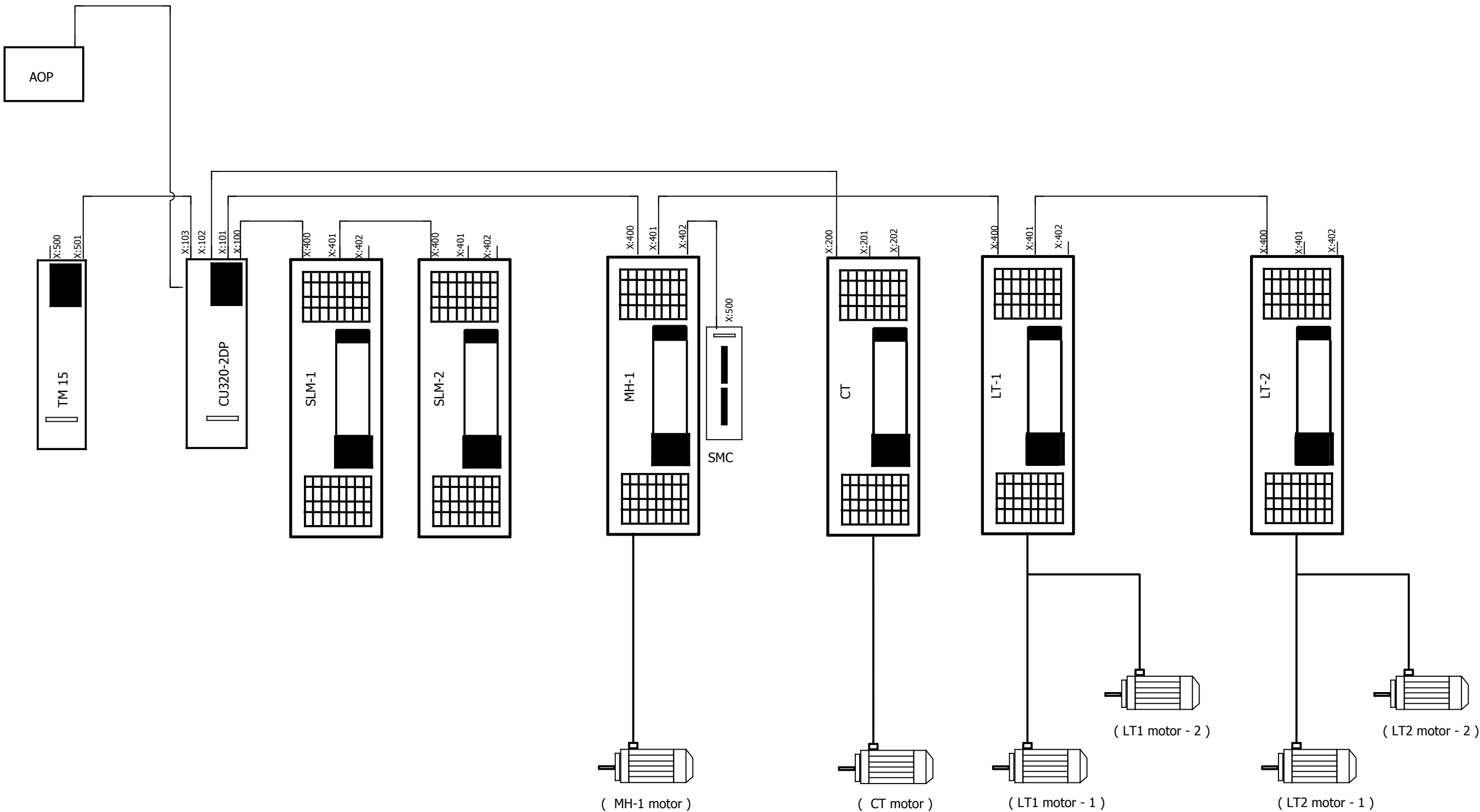
## Application

EOT CRANE

### Remarks

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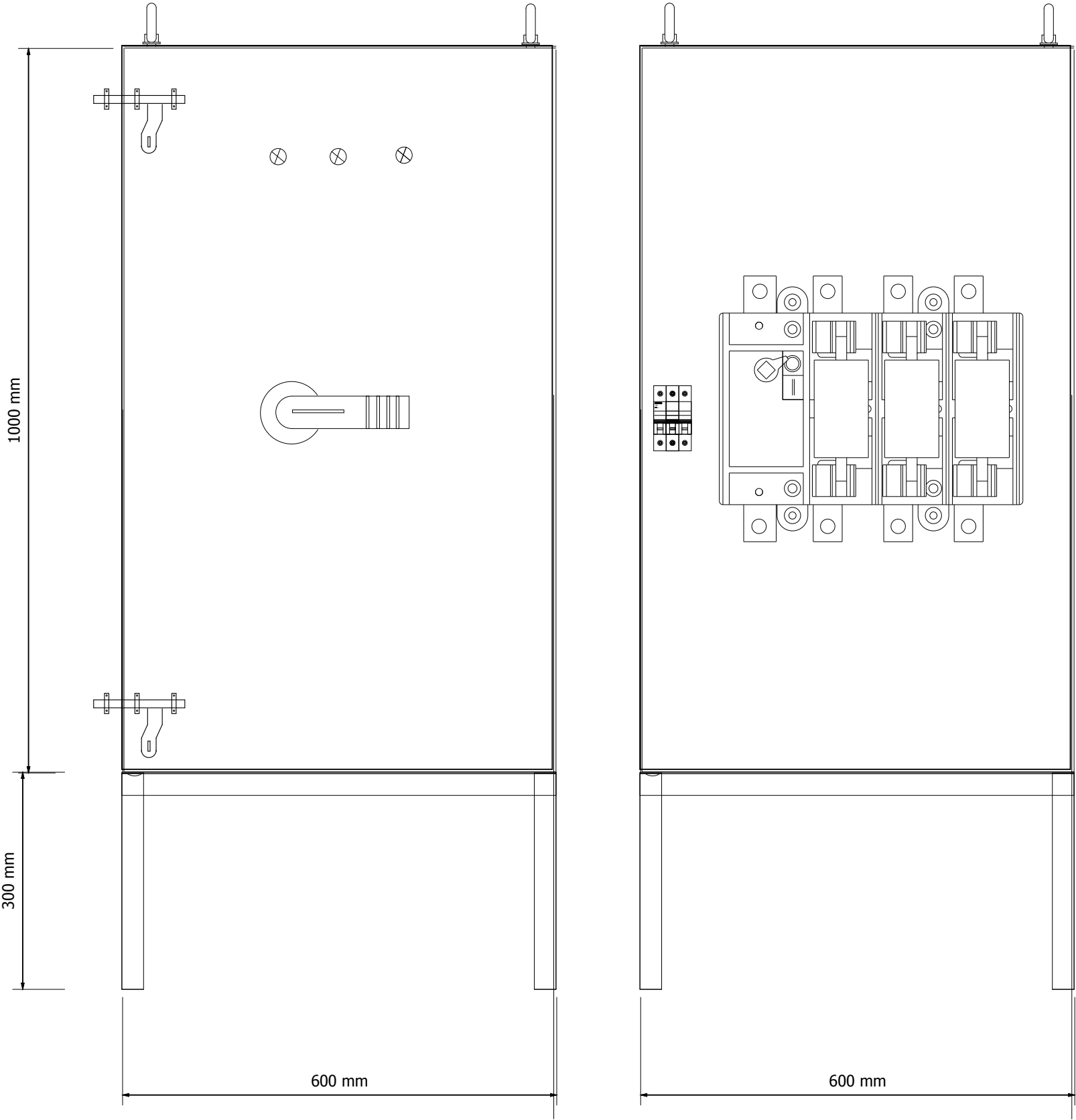


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=E01 + MIS

MAIN INCOMER SECTION



NOTE:  
1. MIS panel will be provided with top and bottom gland plates.  
Bottom for entry and top for exit

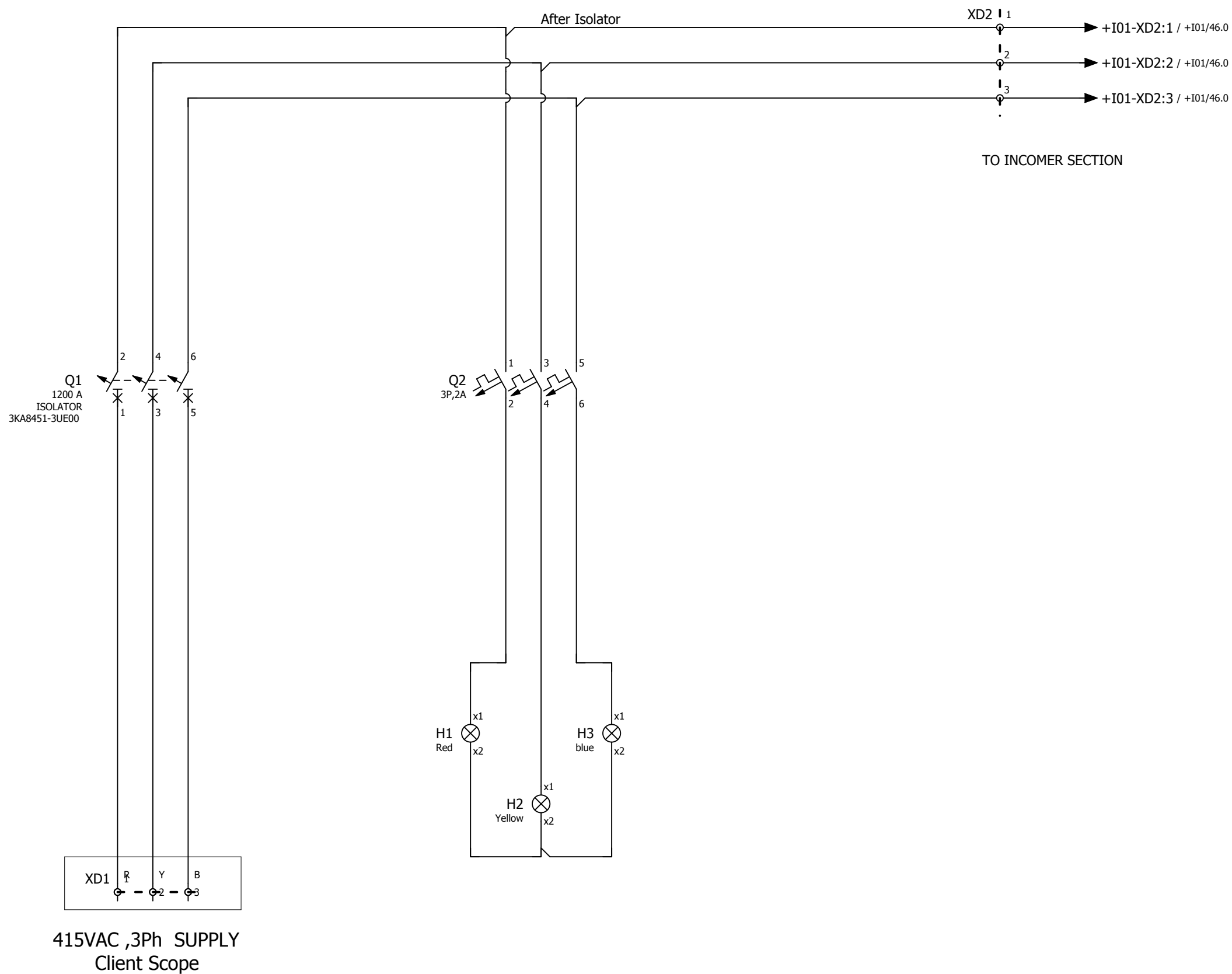
Isolator Box ( Kept outside E-room)

BOX DIMENSION 600 X 1000 X 400 (W X H X D )

$$=E01 + MIS$$

## MAIN INCOMER SECTION

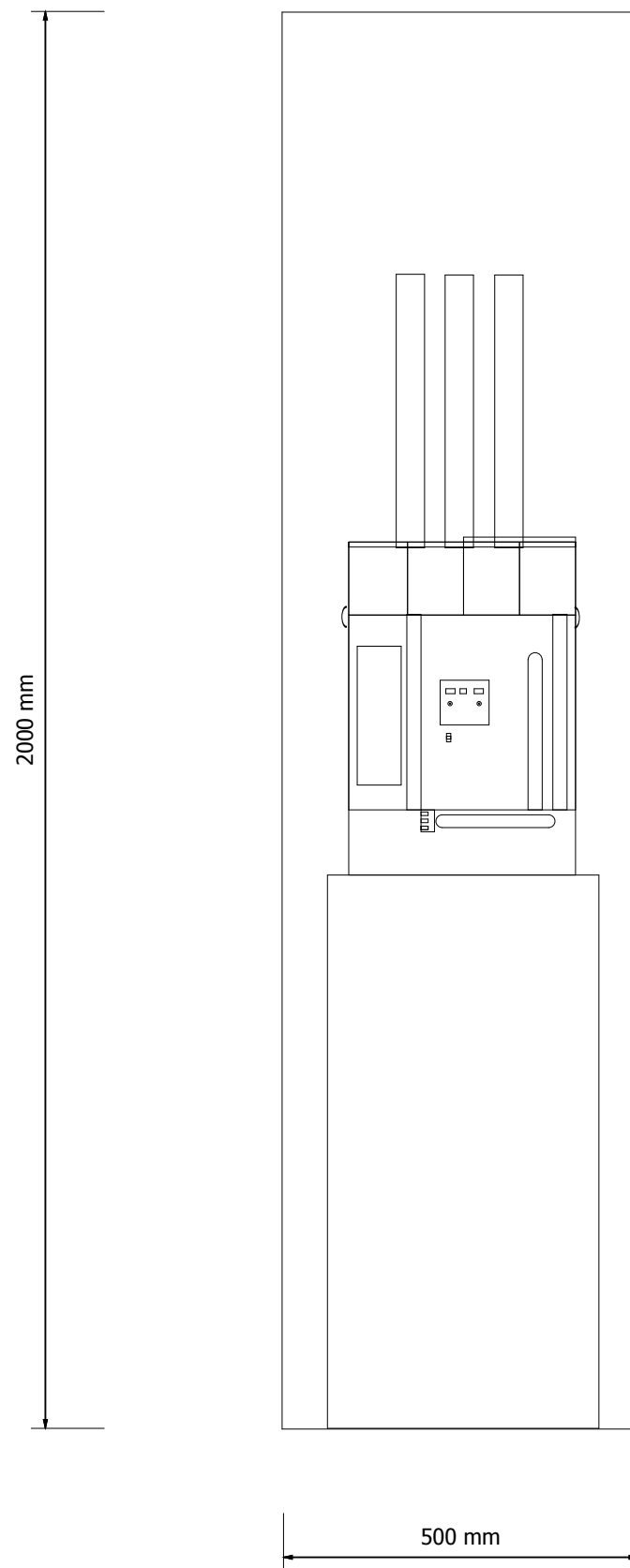
### THREE LINE DIAGRAM




|             |           |      |        |             |                         |   |                    |                   |         |
|-------------|-----------|------|--------|-------------|-------------------------|---|--------------------|-------------------|---------|
|             |           |      | Date   |             | Client : JSW            |  | Three Line Diagram | = E01             |         |
|             |           |      | Edit   | SIVA        |                         |   |                    | DRWG No : 1601263 |         |
| REVISION-00 | 02-FEB-16 | SIVA | Chk by | MANIVASAGAN | Application : EOT CRANE |  |                    |                   | Page 42 |
| Revision    | Date      | Name | Appr   |             |                         |   |                    |                   |         |

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INCOMER  
GENERAL ARRANGEMENT



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| REV-00   | 02-FEB-16 | SIVA | Chk by | MANIVASAGAN |              |   |                     |                   |     | Page  | 44 |
| Revision | Date      | Name | Appr   |             |              |   |                     | No.of Pages       | 139 |       |    |

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| <div><div>Classification</div><div>THREE LINE DIAGRAM</div></div> |           |      |        |             |  |   |  |   |  |  |
| <div><div>Control Voltage</div><div>110V AC SUPPLY</div></div>    |           |      |        |             |  |   |  |   |  |  |
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| REV-00  | 02-FEB-16 | SIVA | Chk by | MANIVASAGAN |  |   |  |   | <div><div></div><div>Page 45</div></div>           |  |
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THREE LINE DIAGRAM

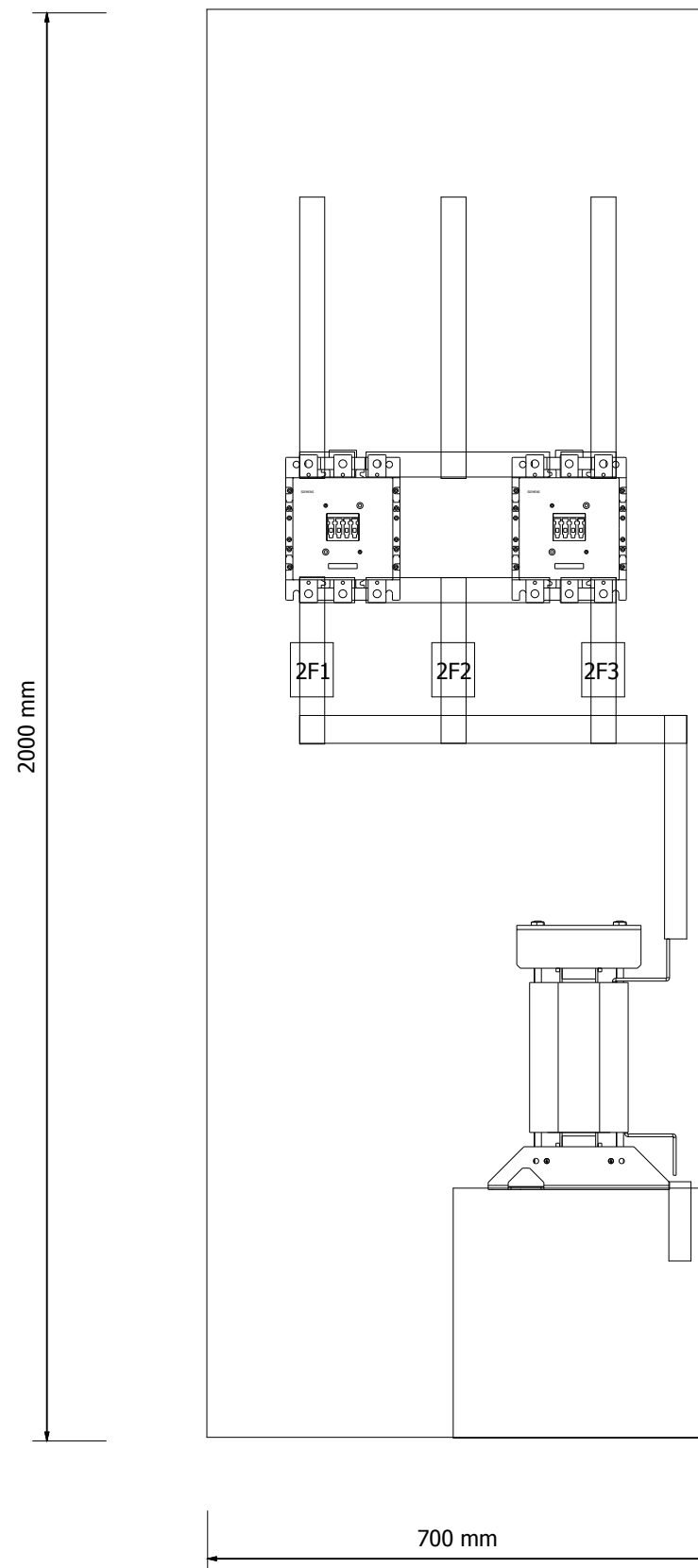


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## SLM INCOMER -1 GENERAL ARRANGEMENT



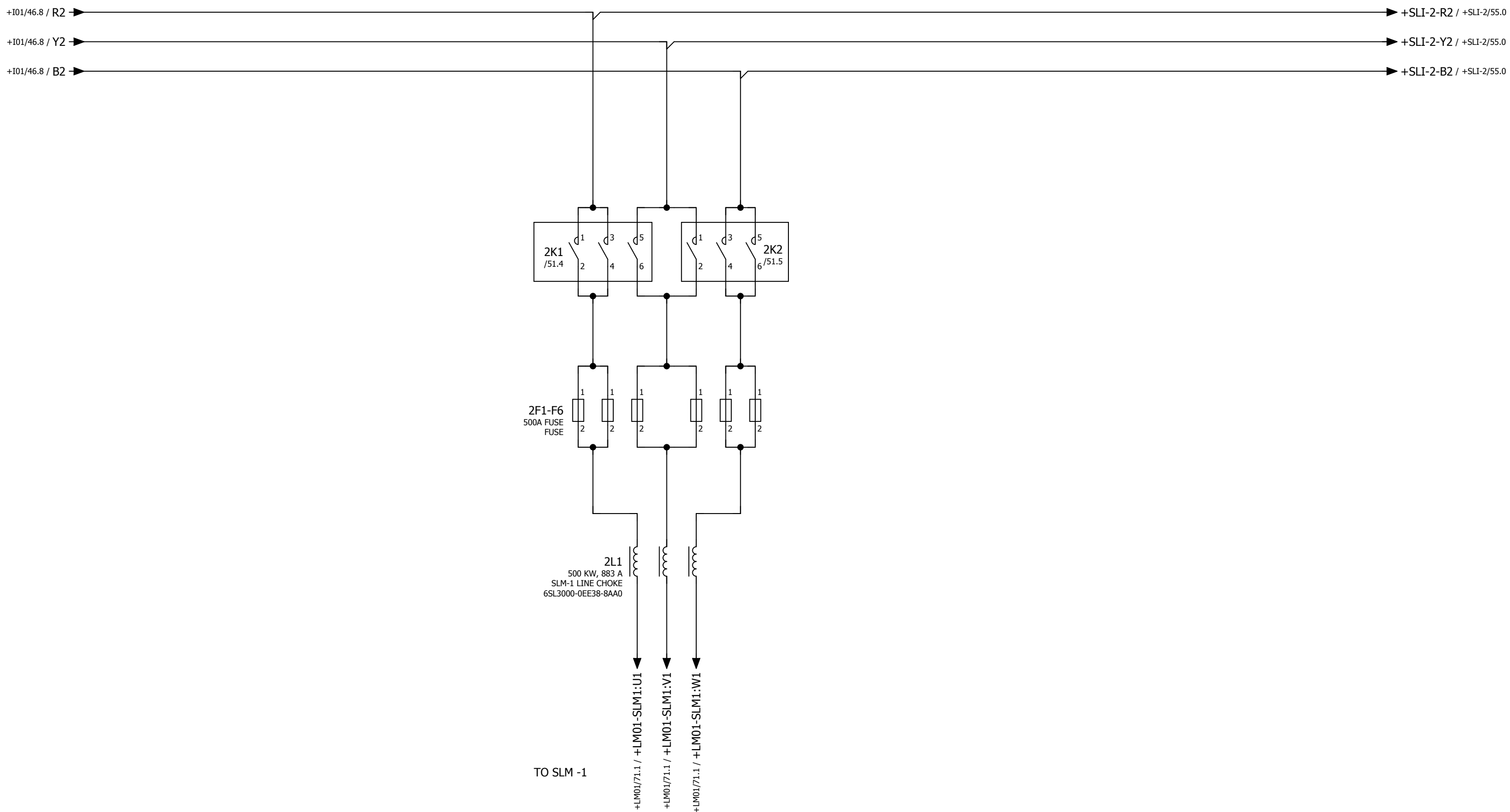
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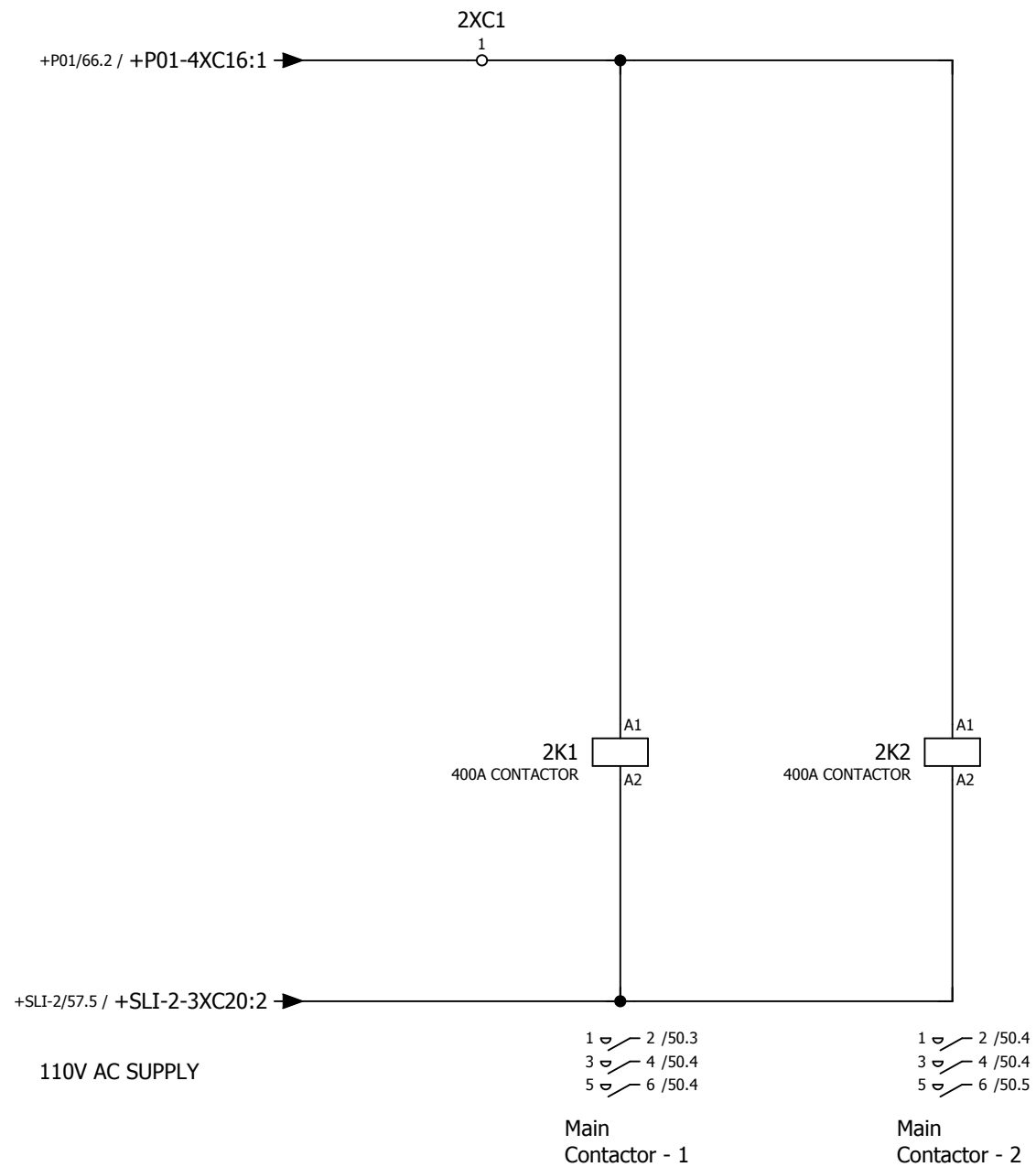
## SLM INCOMER -1 THREE LINE DIAGRAM



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| REV-00   | 02-FEB-16 | SIVA | Chk by | MANIVASAGAN | Application : EOT CRANE |  |                    |                   |  |         | Page 50 |
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## SLM INCOMER -1 CONTROL CIRCUIT

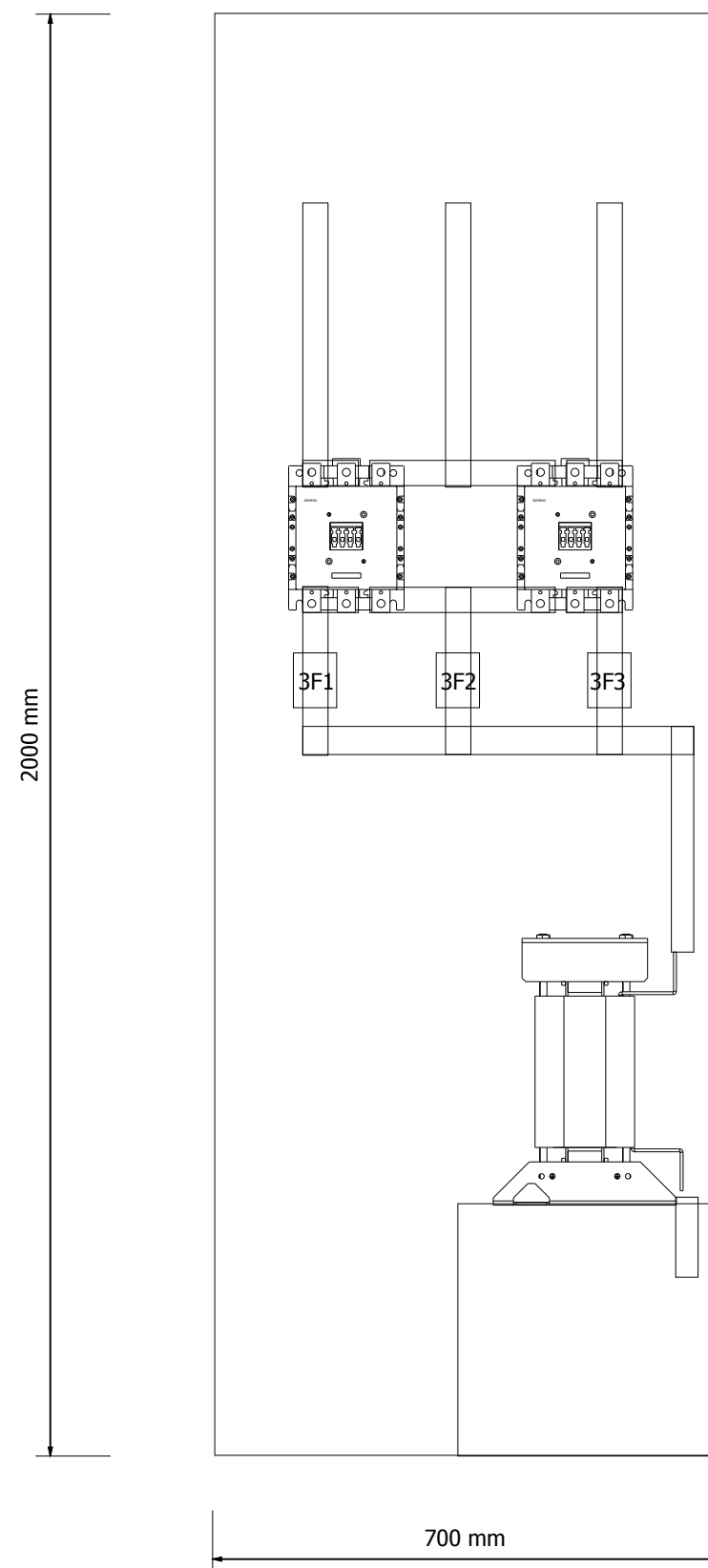


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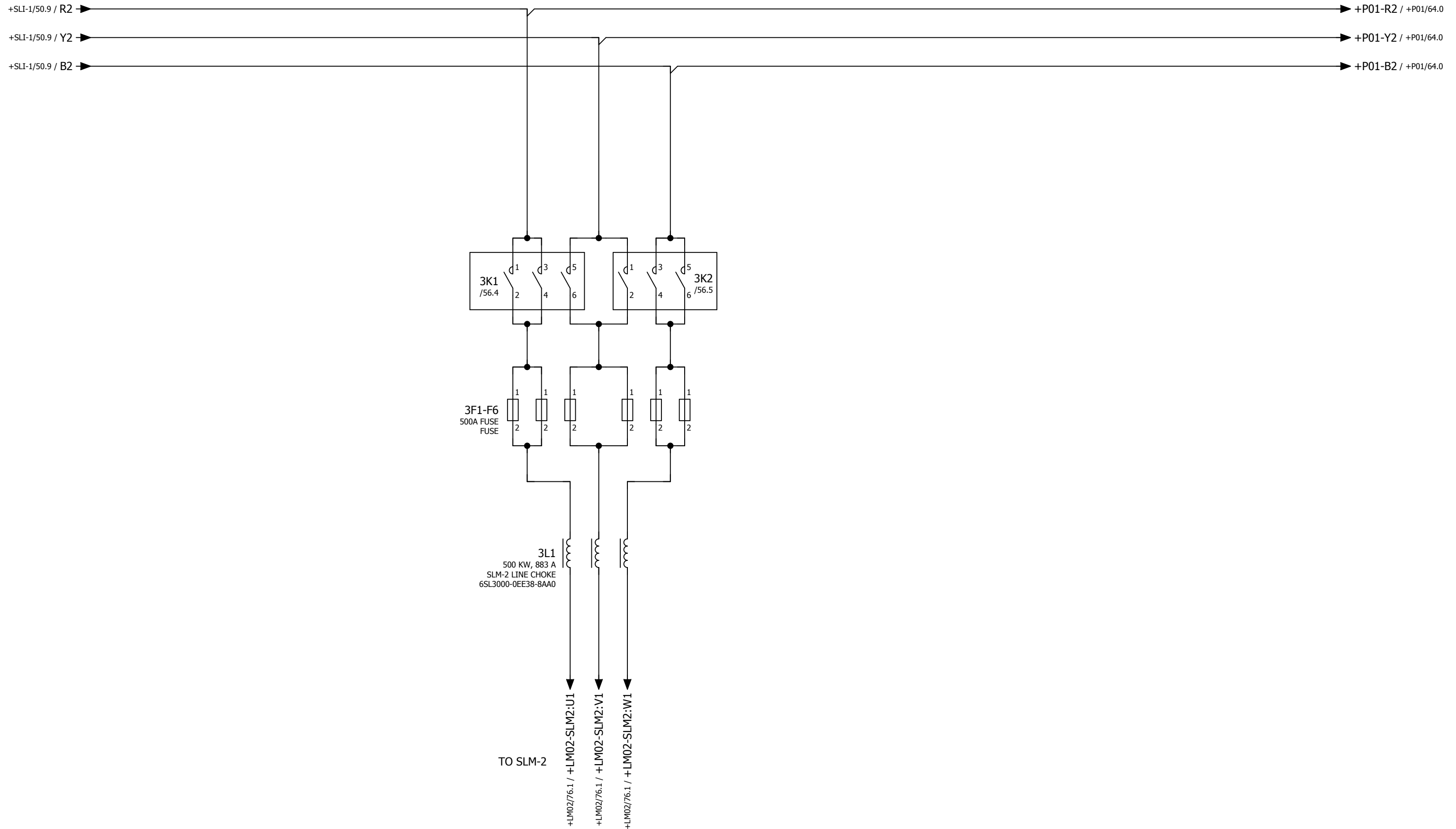


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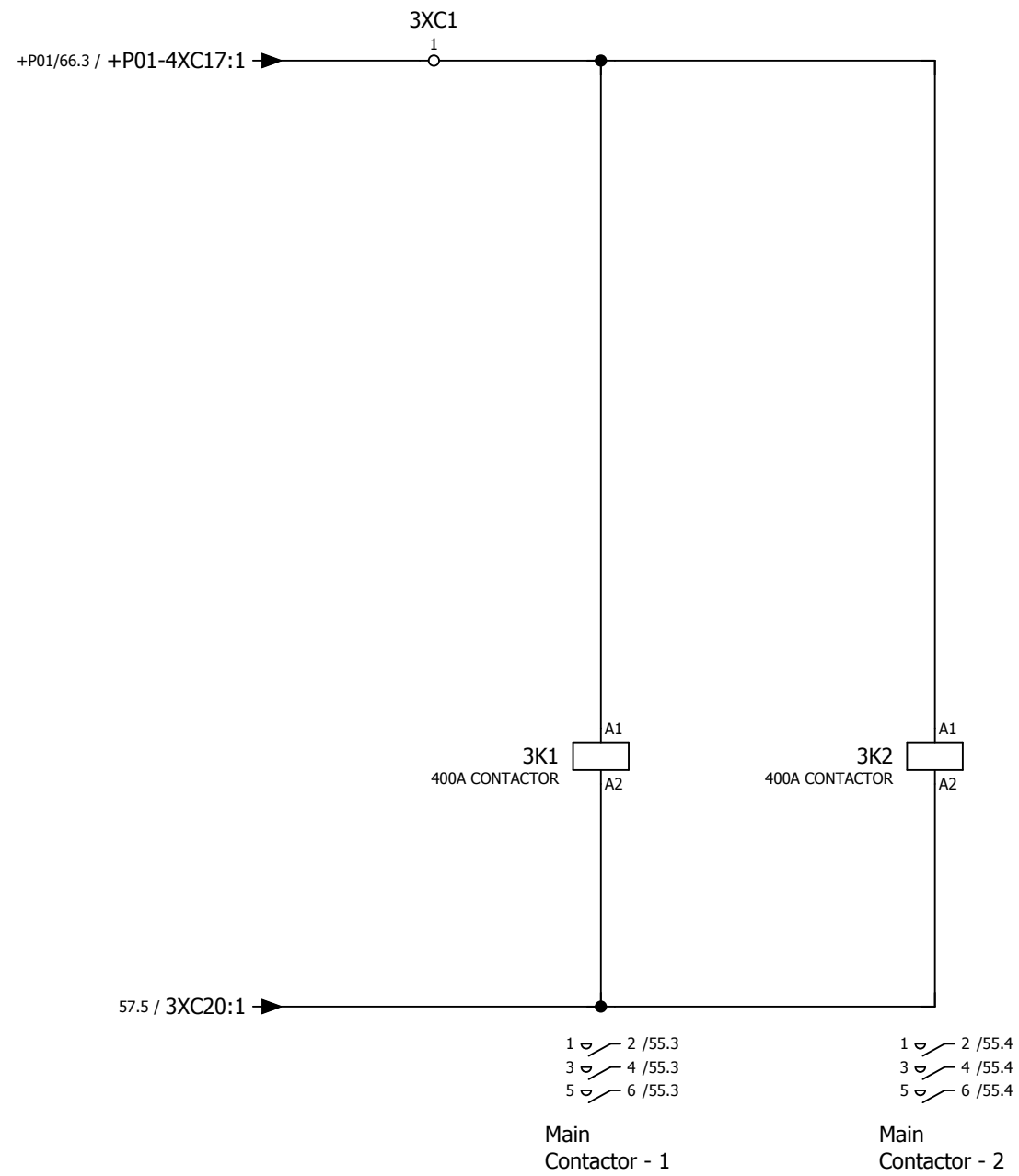
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CONTROL CIRCUIT



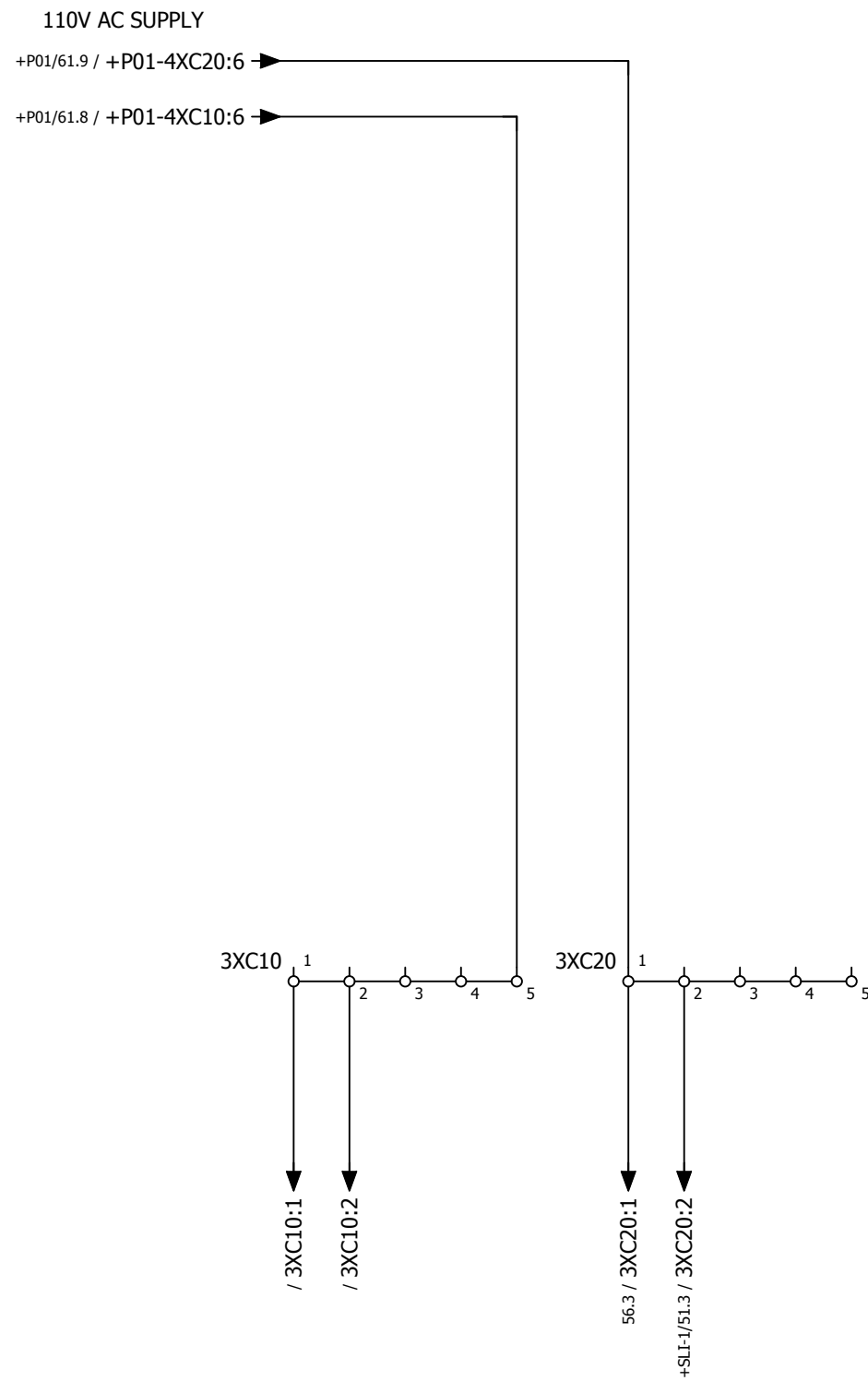
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SLM INCOMER -2  
110V AC SUPPLY

## 110V AC SUPPLY



+P01/61.9 / +P01-4XC20:6 -

+P01/61.8 / +P01-4XC10:6 -

3XC10



○



5

/ 3XC10:1

/ 3XC10:2

3XC20

2

2

5

56.3 / 3XC20:1

+SLI-1/51.3 / 3XC20:2

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110V AC SUPPLY

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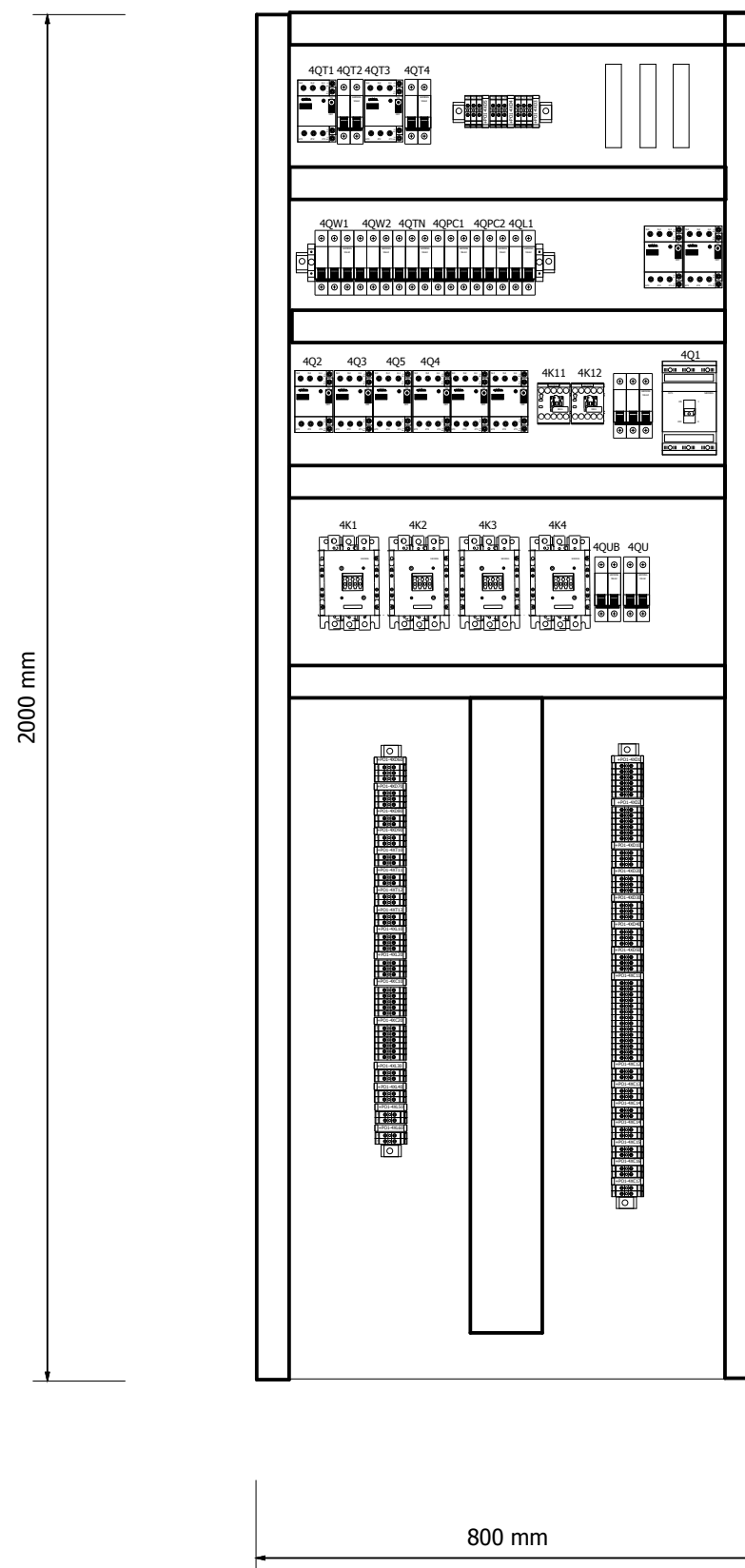
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# PROTECTIVE GENERAL ARRANGEMENT



800 mm

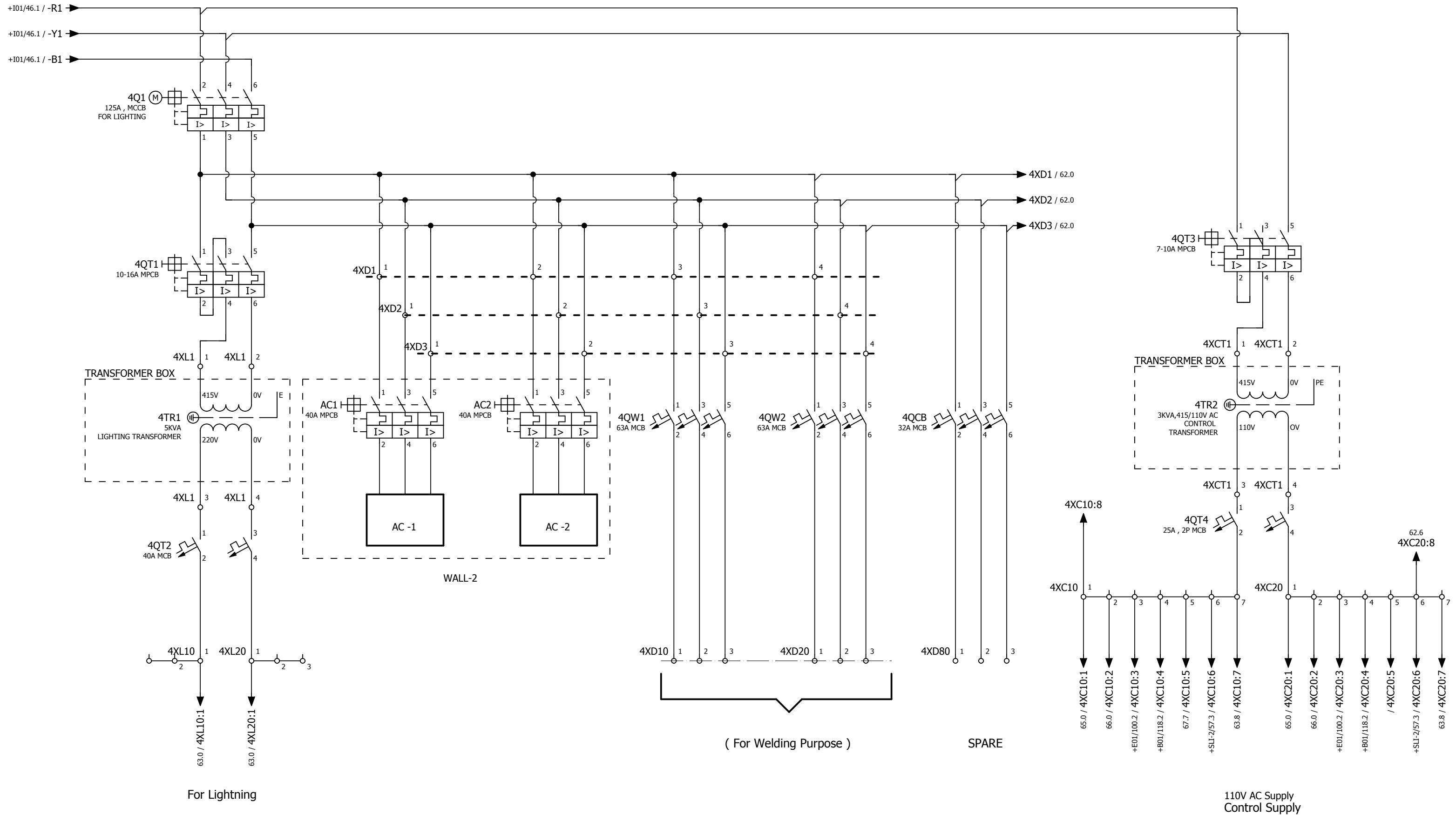
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|          |           |      | Date   |             | Client : JSW            |  | General Arrangement | DRWG No : 1601263 |  | = E01       |     |
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| REV-00   | 02-FEB-16 | SIVA | Chk by | MANIVASAGAN | Application : EOT CRANE |   |                     |                   |  |             |     |
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$$=E01 + P01$$

PROTECTIVE  
COVER PAGE

|                        |                     |
|------------------------|---------------------|
| <b>Project name</b>    | Slab Handling Crane |
| <b>Classification</b>  | PROTECTIVE SECTION  |
| <b>Control Voltage</b> | 110V AC SUPPLY      |
| <b>Job number</b>      | 1601263             |
| <b>Application</b>     | EOT CRANE           |
| <b>Remarks</b>         |                     |

415V AC,3 $\phi$  Supply Before MCCB

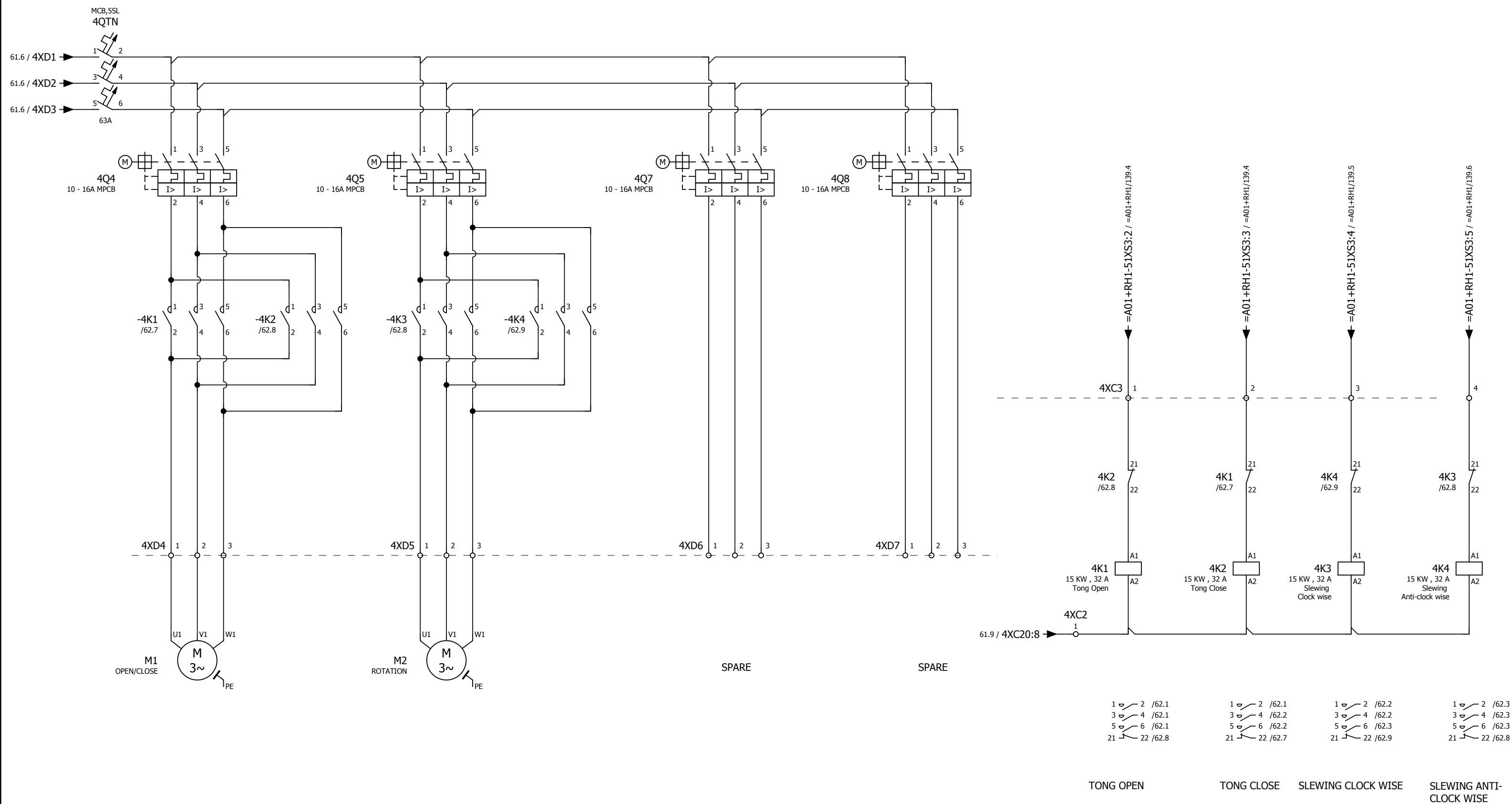


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|          |           |      | Date   |             | Client : JSW |  | Lighting,A/C & Welding | = E01                   |   |       |  |
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| REV-00   | 02-FEB-16 | SIVA | Chk by | MANIVASAGAN |              |   |                        | Application : EOT CRANE |  |       |  |
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# PROTECTIVE

## POWER AND CONTROL CIRCUIT FOR TONG



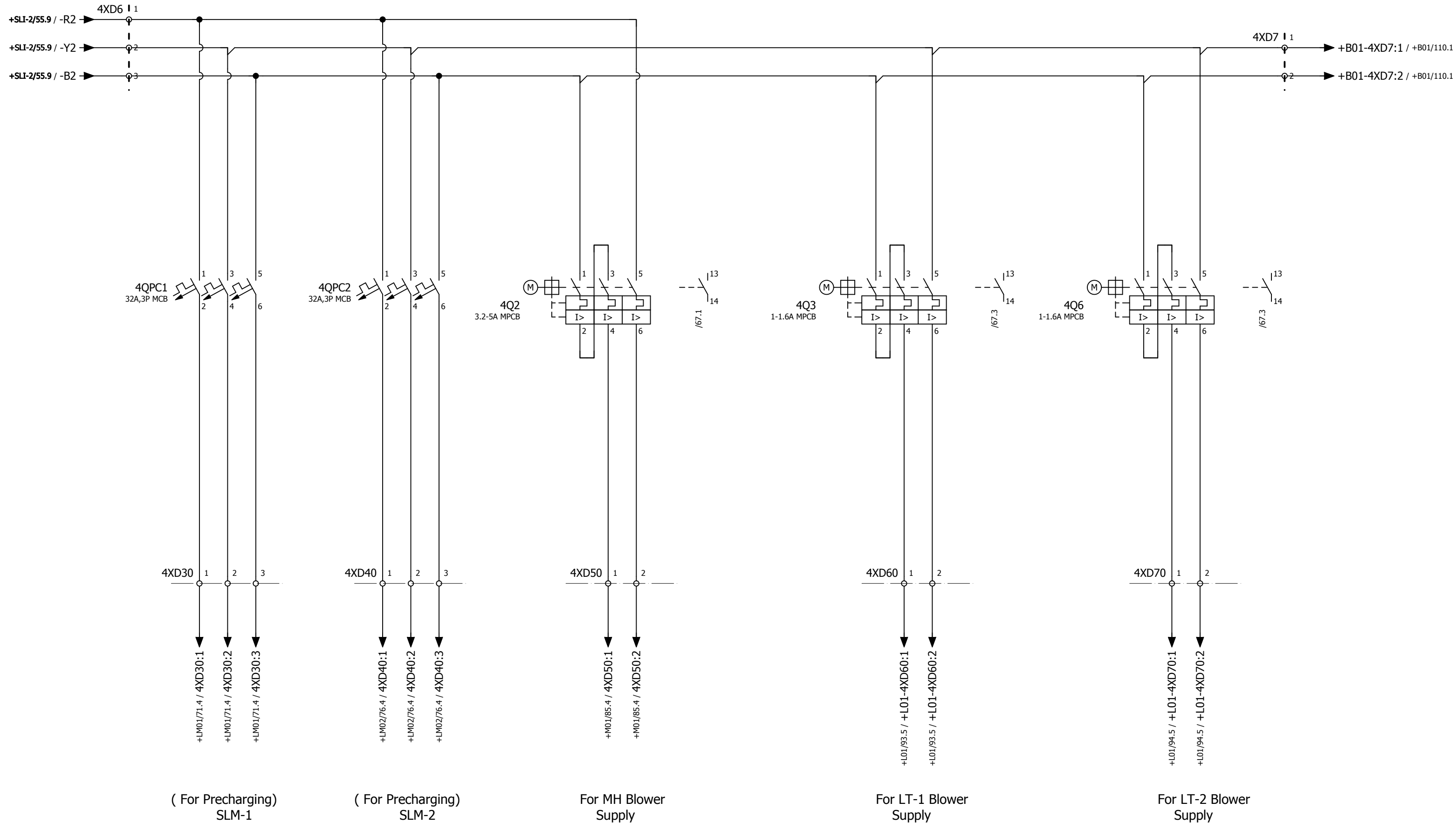
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|          |           |      | Date   |             | Client : JSW            |  | Tong Power Circuit | DRWG No : 1601263 |  | = E01           |  |
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|          |           |      | Date   |             | Client : JSW |  | UB & Utilities | DRWG No : 1601263 | = E01                   |  |
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| Revision | Date      | Name | Appr   |             |              |   |                |                   | Page 63                 |  |
|          |           |      |        |             |              |   |                |                   | No.of Pages 139         |  |

=E01 + P01

# PROTECTIVE BLOWER & PRE-CHARGING

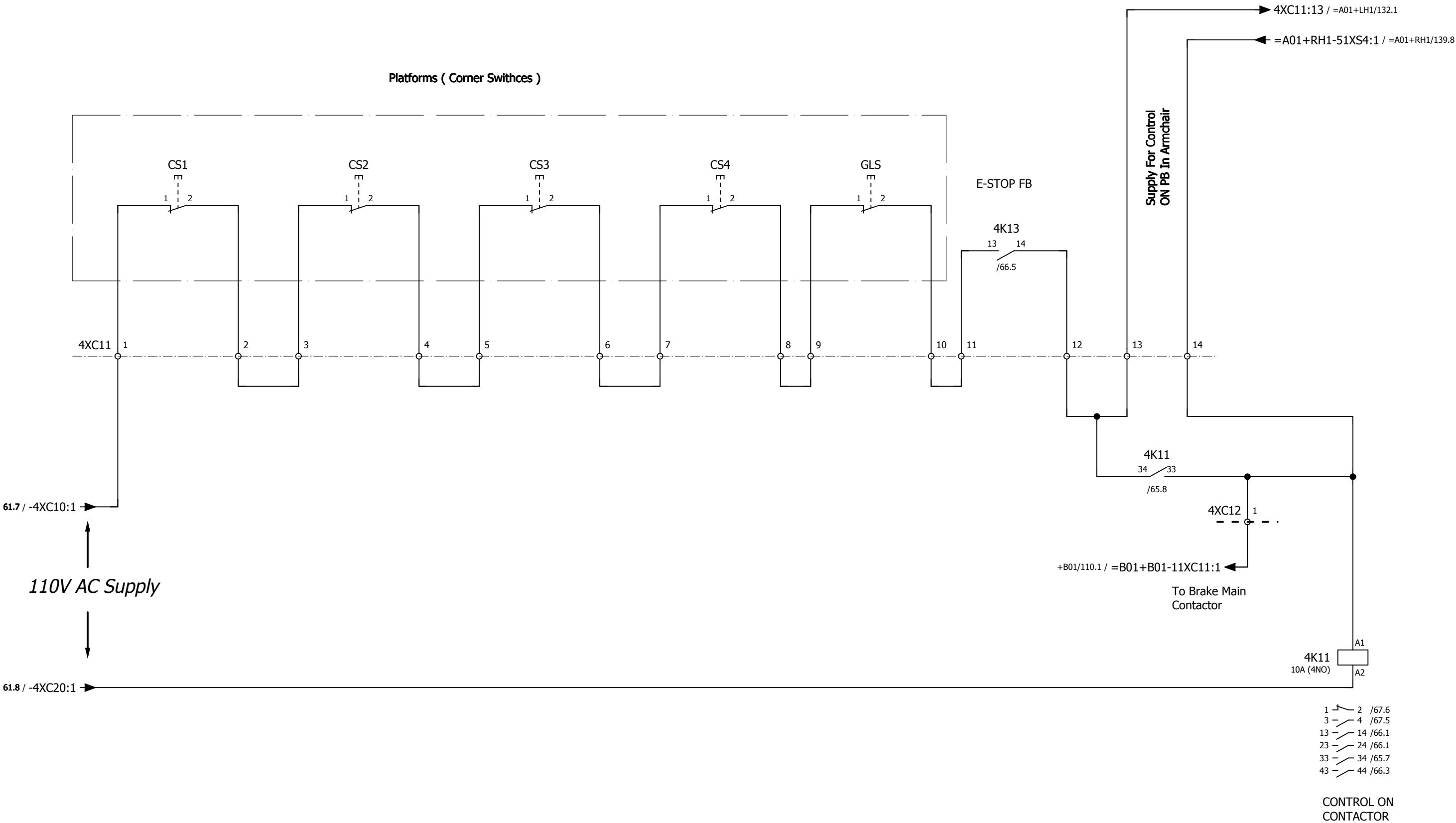


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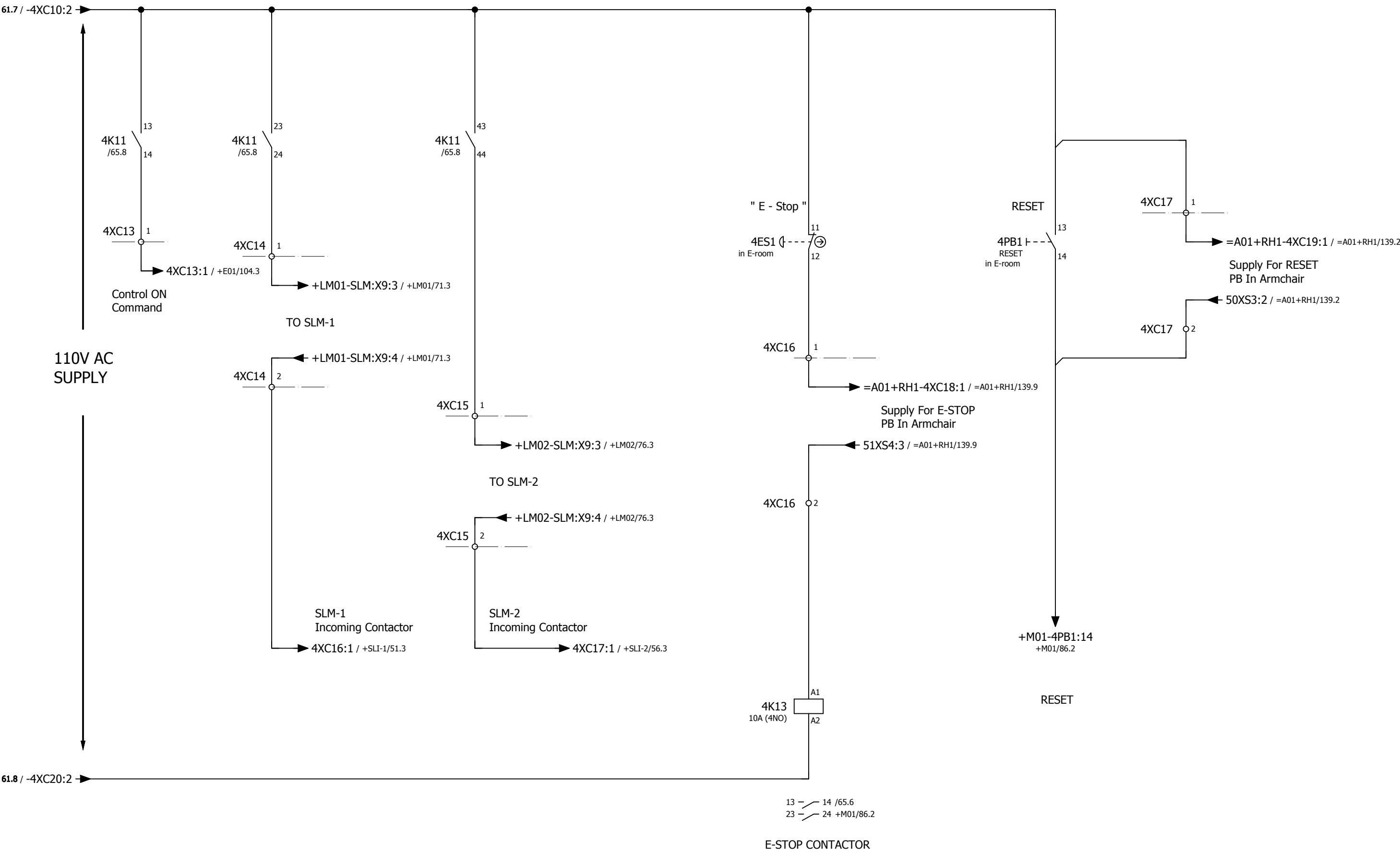
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# PROTECTIVE CONTROL CIRCUIT



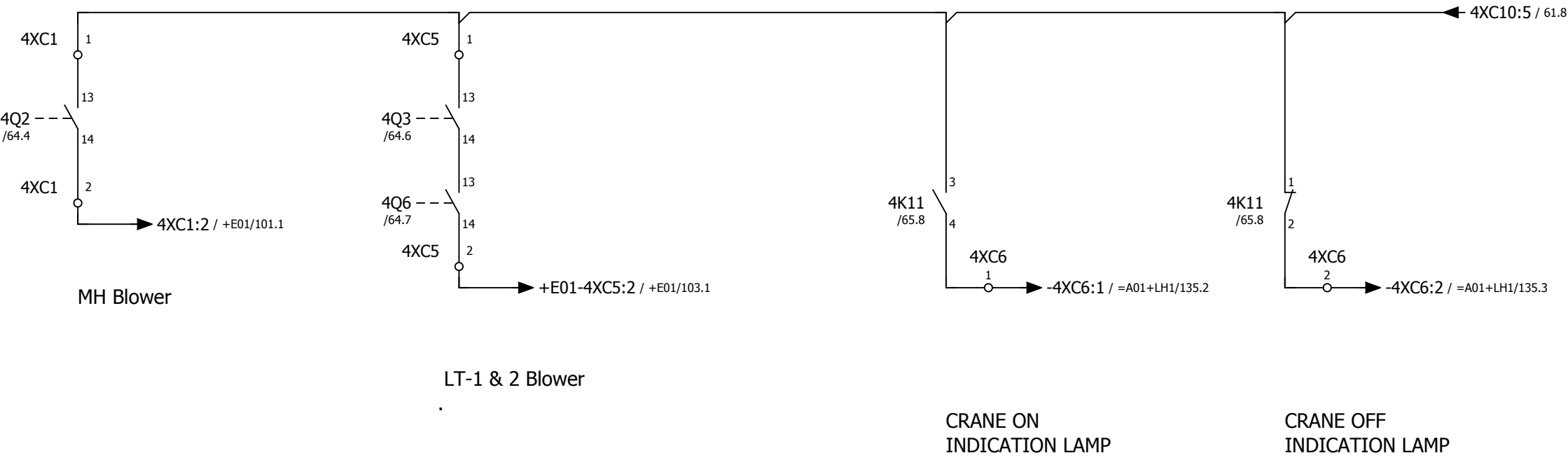
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# PROTECTIVE CONTROL CIRCUIT



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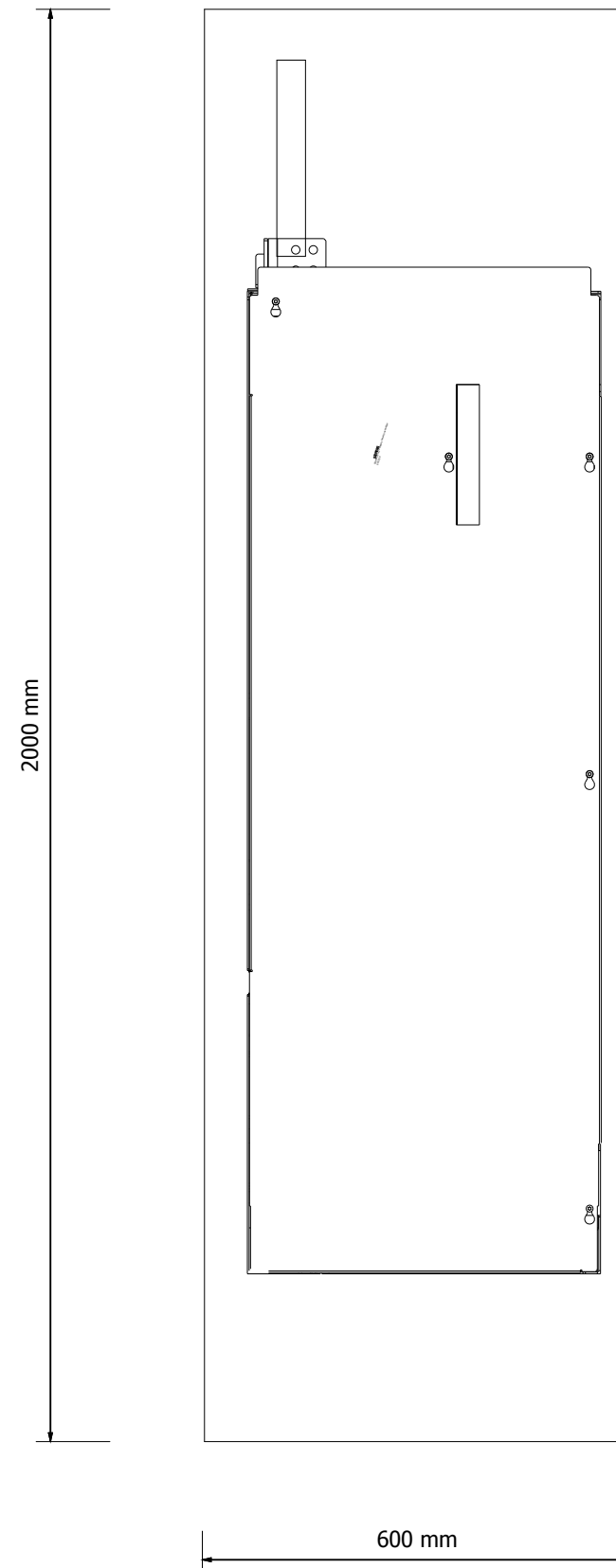
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## SLM -1 SECTION GENERAL ARRANGEMENT



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| REV-00   | 02-FEB-16 | SIVA | Chk by | MANIVASAGAN | Application : EOT CRANE |  |                     |                   | Page        | 69  |
| Revision | Date      | Name | Appr   |             |                         |   |                     |                   | No.of Pages | 139 |

$$=E01 + LM01$$

SLM -1 SECTION  
COVER PAGE

Project name

## Slab Handling Crane

## Classification

SLM -1 SECTION

## Control Voltage

110V AC SUPPLY

**Job number**

1601263

## Application

EOT CRANE

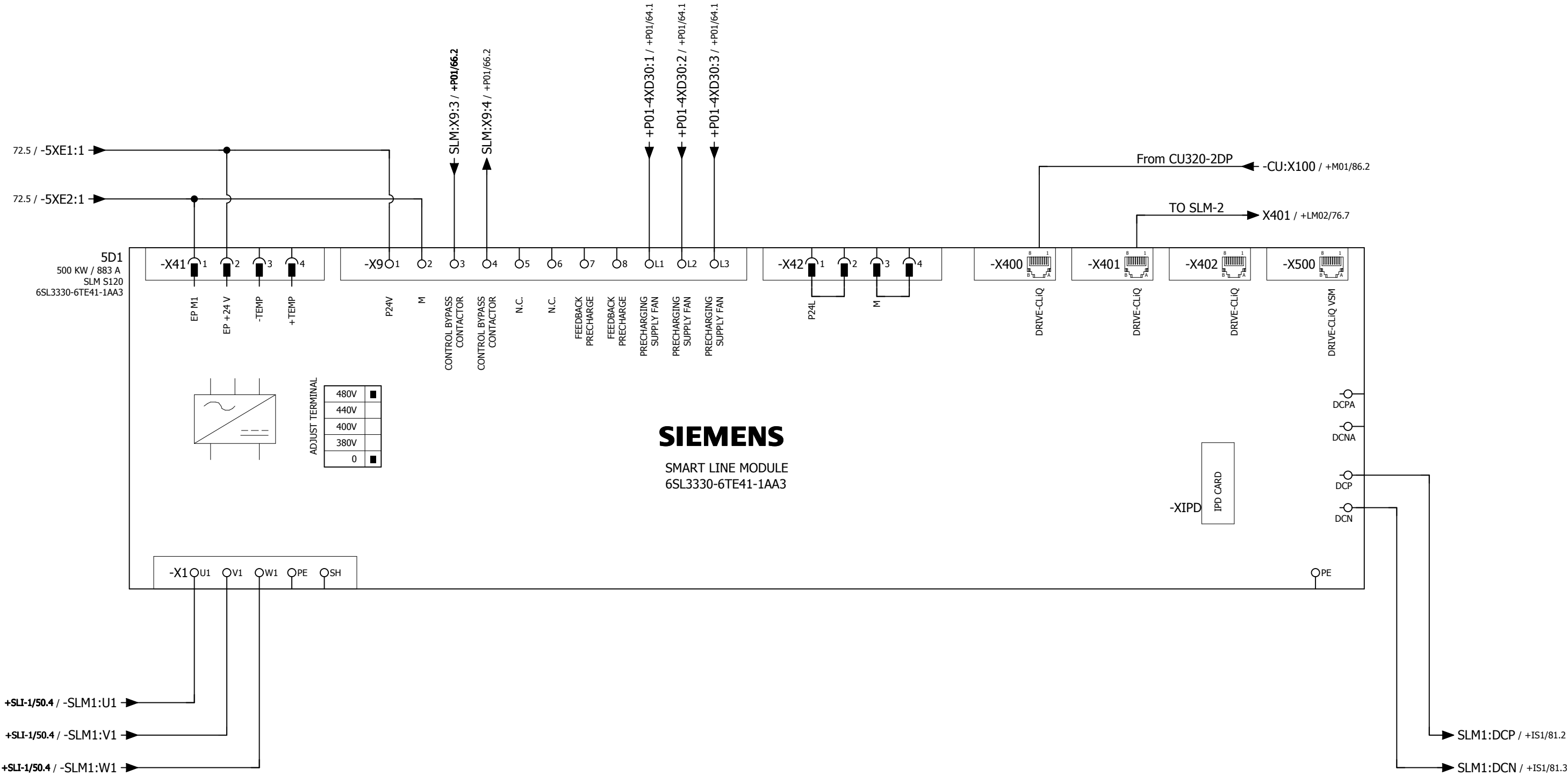
### Remarks

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| REV-00   | 02-FEB-16 | SIVA | Chk by | MANIVASAGAN | Application : EOT CRANE |  |            |                   | Page 70 |
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SLM -1 SECTION

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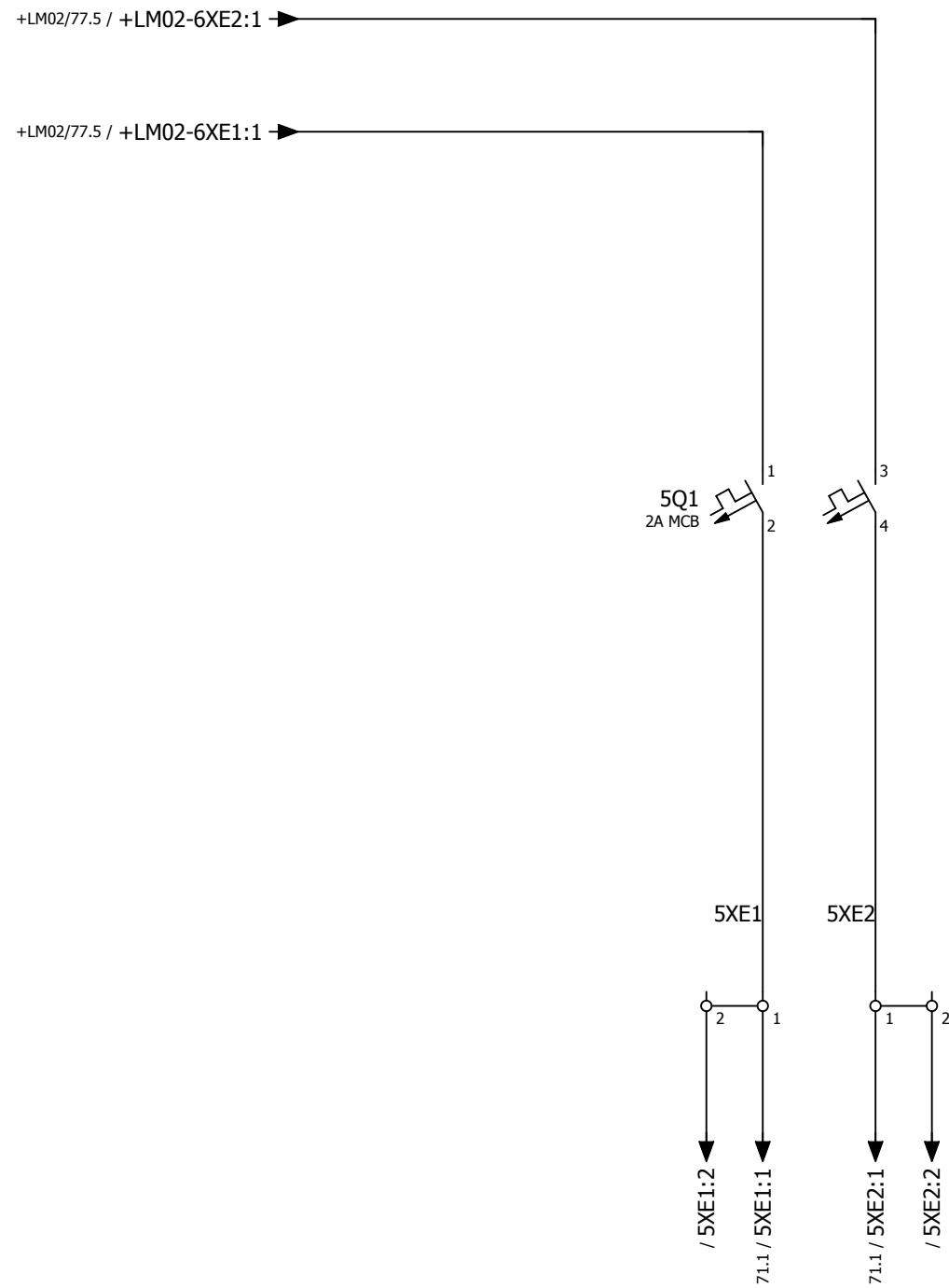


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## SLM -1 SECTION

### 24V DC SUPPLY

## 24V DC SUPPLY



+LM02/77.5 / +LM02-6XE1:1 ➡

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5XE1

5XE2

/ 5XE1:2 ◀

71.1 / 5XE1:1 ◀

71.1 / 5XE2:1 ◀

/ 5XE2:2 ◀

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| REV-00   | 02-FEB-16 | SIVA | Chk by | MANIVASAGAN | Application : EOT CRANE |  |               |                   |  |        | Page 72 |
| Revision | Date      | Name | Appr   |             |                         |   |               |                   |  |        |         |

Application : EOT CRANE



24V DC SUPPLY

DRWG No : 1601263

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No. of Pages 139

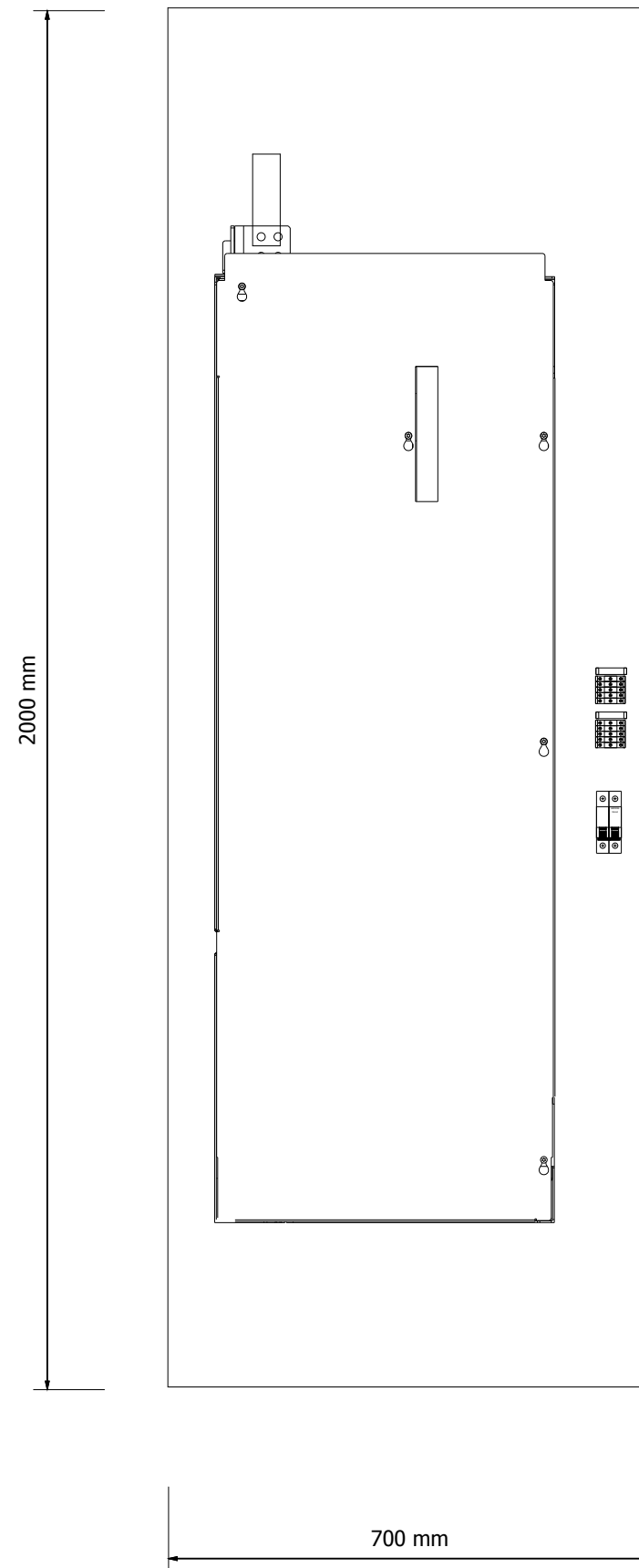


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| <div>=E01 + LM02</div> <div>SLM -2 SECTION</div> <div>COVER PAGE</div>  |           |      |        |             |  |   |  |                            |                    |  |
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| <div><div><div>Project name</div><div>Slab Handling Crane</div></div><div><div>Classification</div><div>GENERAL ARRANGEMENT</div></div><div><div>Control Voltage</div><div>110V AC SUPPLY</div></div></div> |           |      |        |             |  |   |  |                            |                    |  |
| <div><div><div>Job number</div><div>1601263</div></div><div><div>Application</div><div>EOT CRANE</div></div><div><div>Remarks</div><div></div></div></div>  |           |      |        |             |  |   |  |                            |                    |  |
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|   |           |      | Date   |             | <div>Client : JSW</div> <div>Application : EOT CRANE</div> |   | <div><div>COVER PAGE</div><div></div></div> |                            | <div>= E01</div>   |  |
|   |           |      | Edit   | SIVA        |  |   |  |                            | <div>+ LM02</div>  |  |
| REV-00  | 02-FEB-16 | SIVA | Chk by | MANIVASAGAN |  |   |  |                            | <div>Page 73</div> |  |
| Revision  | Date      | Name | Appr   |             |  |   |  | <div>No.of Pages 139</div> |                    |  |

$$=E01 + LM02$$

## SLM -2 SECTION

### GENERAL ARRANGEMENT

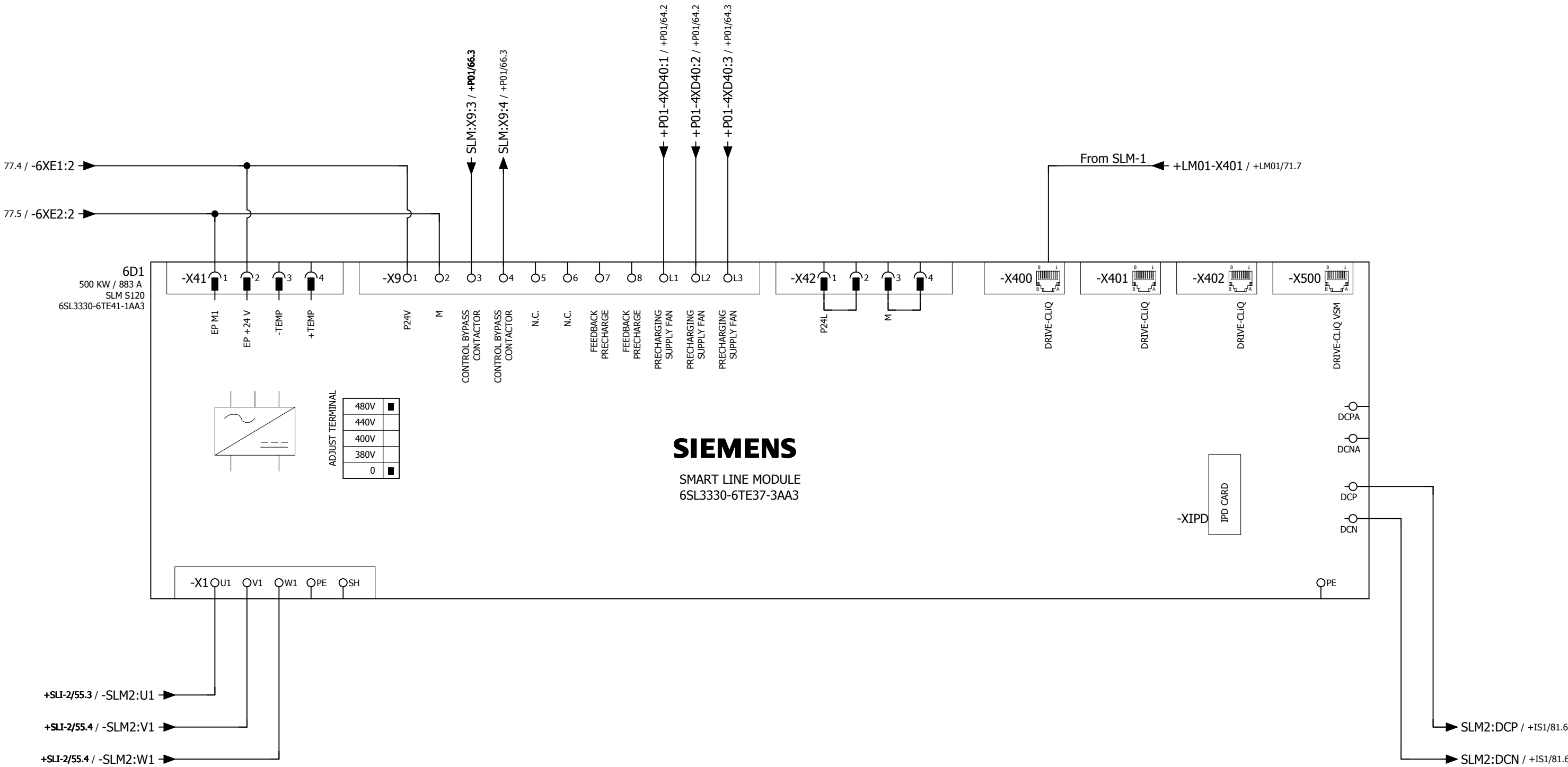


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|          |           |      | Date   |             | Client : JSW |  | General Arrangement | DRWG No : 1601263       |  | = E01       |     |  |      |
|          |           |      | Edit   | SIVA        |              |   |                     |                         |  | + LM02      |     |  |      |
| REV-00   | 02-FEB-16 | SIVA | Chk by | MANIVASAGAN |              |   |                     | Application : EOT CRANE |  |             |     |  | Page |
| Revision | Date      | Name | Appr   |             |              |   |                     |                         |  | No.of Pages | 139 |  |      |



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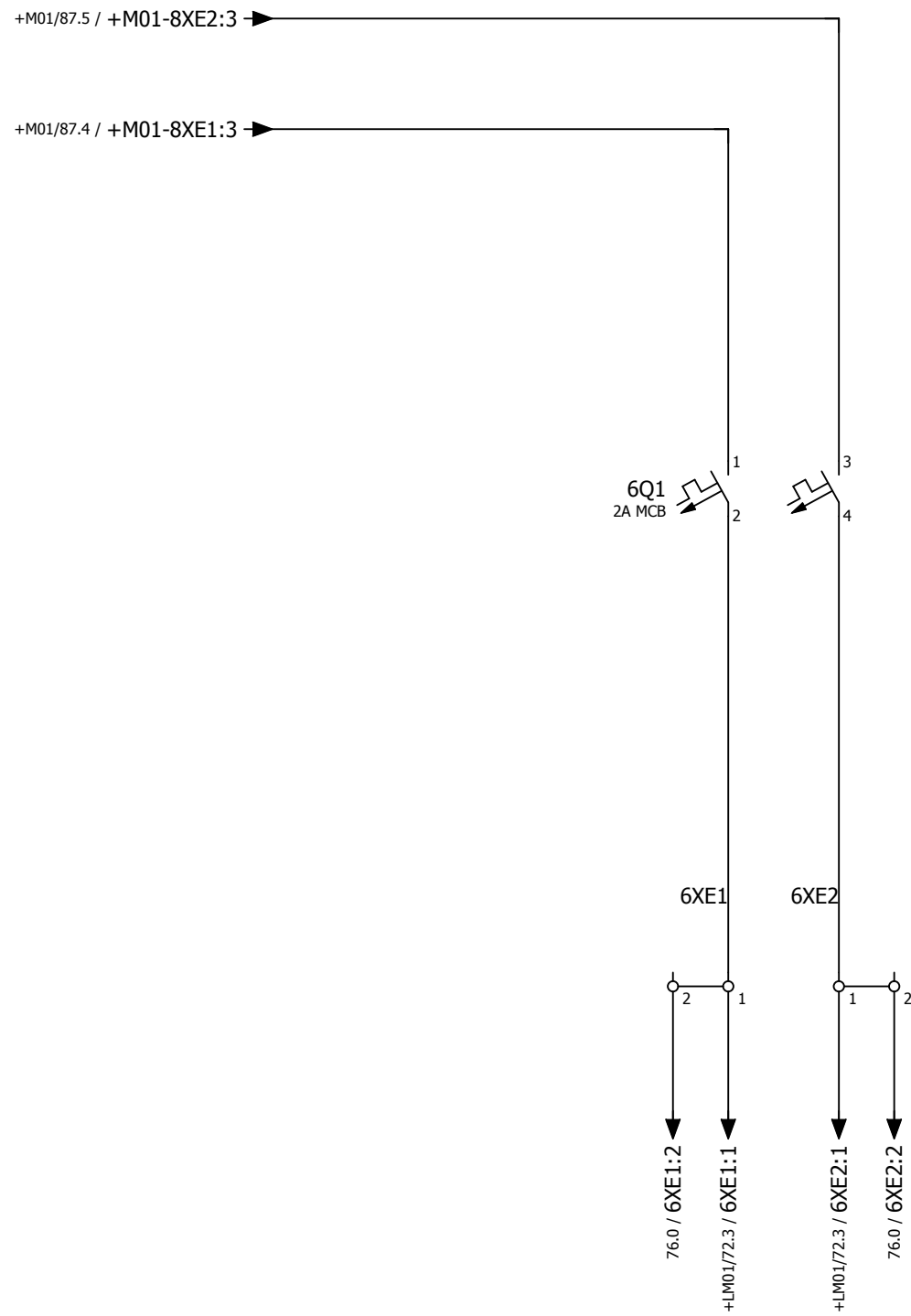
SLM -2 SECTION



$$=E01 + LM02$$

## SLM -2 SECTION

### 24V DC SUPPLY



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|          |           |      | Date   |             | Client : JSW            |  |  | 24V DC SUPPLY |  | DRWG No : 1601263 |                 | = E01 |  |
|          |           |      | Edit   | SIVA        | Application : EOT CRANE |  |   |               |  | + LM02            |                 |       |  |
| REV-00   | 02-FEB-16 | SIVA | Chk by | MANIVASAGAN |                         |  |   |               |  | Page 77           |                 |       |  |
| Revision | Date      | Name | Appr   |             |                         |  |   |               |  |                   | No.of Pages 139 |       |  |

=E01 + IS1

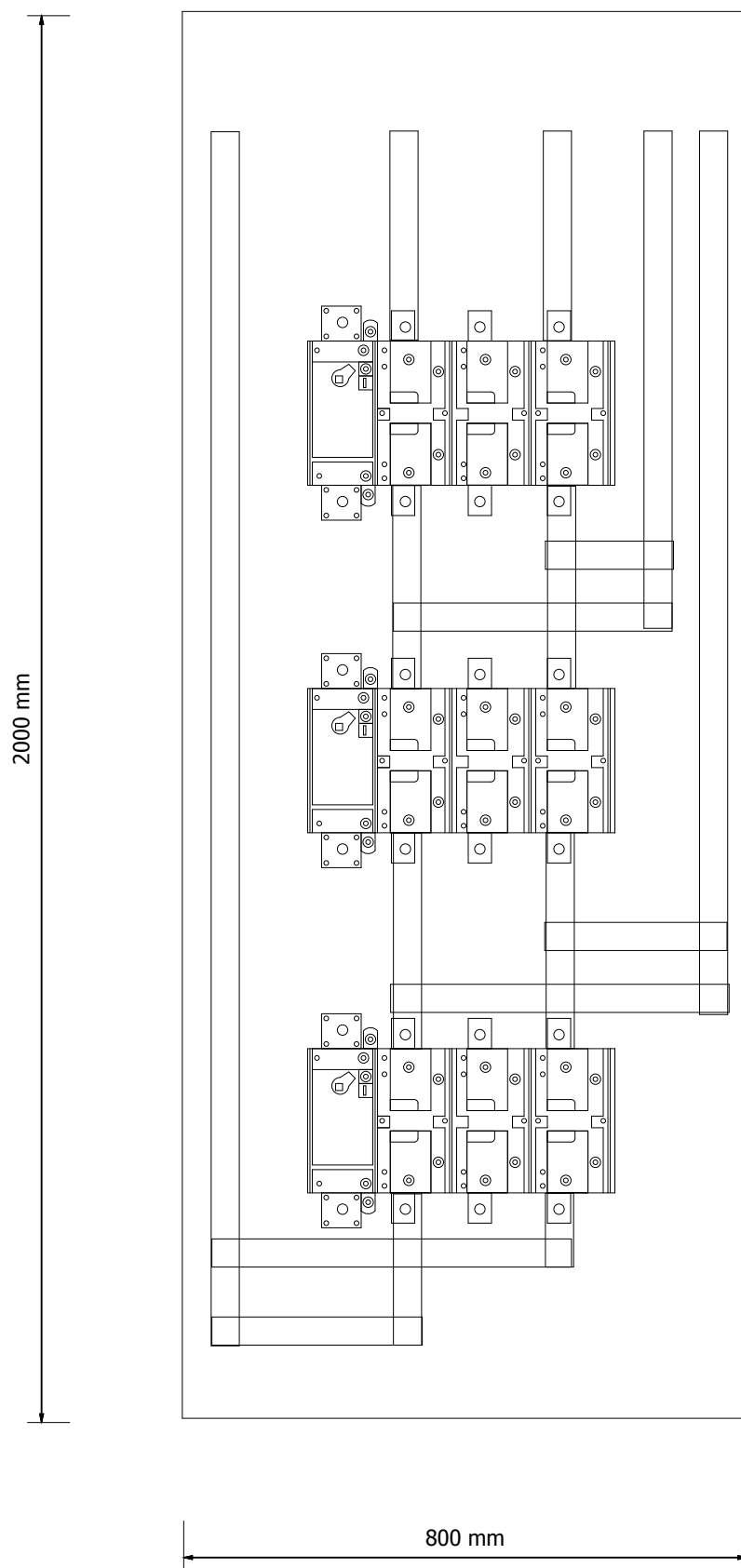
ISOLATOR SECTION  
COVER PAGE

|                 |                     |
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| Project name    | Slab Handling Crane |
| Classification  | GENERAL ARRANGEMENT |
| Control Voltage | 110V AC SUPPLY      |

|             |           |
|-------------|-----------|
| Job number  | 1601263   |
| Application | EOT CRANE |
| Remarks     |           |

$$=E01 + IS1$$

## ISOLATOR SECTION GENERAL ARRANGEMENT



800 mm


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|          |           |      | Date   |             | Client : JSW |  | General Arrangement | = E01             |     |       |    |
|          |           |      | Edit   | SIVA        |              |   |                     | DRWG No : 1601263 |     | + IS1 |    |
| REV-00   | 02-FEB-16 | SIVA | Chk by | MANIVASAGAN |              |   |                     |                   |     | Page  | 79 |
| Revision | Date      | Name | Appr   |             |              |   |                     | No.of Pages       | 139 |       |    |

$$=E01 + IS1$$
ISOLATOR SECTION  
COVER PAGE

|                 |                     |
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| Project name    | Slab Handling Crane |
| Classification  | ISOLATOR SECTION    |
| Control Voltage | 110V AC SUPPLY      |
| Job number      | 1601263             |
| Application     | EOT CRANE           |
| Remarks         |                     |





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| <div> <div>=E01 + M01</div> <div>MH SECTION</div> <div>COVER PAGE</div> </div> |           |      |        |             |  |   |  |   |                  |   |
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| <div> <div>Project name</div> <div>Slab Handling Crane</div> </div>            |           |      |        |             |  |   |  |   |                  |   |
| <div> <div>Classification</div> <div>GENERAL ARRANGEMENT</div> </div>          |           |      |        |             |  |   |  |   |                  |   |
| <div> <div>Control Voltage</div> <div>110V AC SUPPLY</div> </div>              |           |      |        |             |  |   |  |   |                  |   |
| <div> <div>Job number</div> <div>1601263</div> </div>                          |           |      |        |             |  |   |  |   |                  |   |
| <div> <div>Application</div> <div>EOT CRANE</div> </div>                       |           |      |        |             |  |   |  |   |                  |   |
| <div> <div>Remarks</div> <div></div> </div>                                    |           |      |        |             |  |   |  |   |                  |   |
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|  |           |      | Date   |             | <div>Client : JSW</div> <div>Application : EOT CRANE</div> |   | <div>COVER PAGE</div> <div>  </div> |   | <div>= E01</div> |   |
|  |           |      | Edit   | SIVA        |  |   |  |   | <div>+ M01</div> |   |
| REV-00   | 02-FEB-16 | SIVA | Chk by | MANIVASAGAN |  |   |  |   |                  |   |
| Revision   | Date      | Name | Appr   |             |  |   |  |   |                  | <div>Page 82</div> <div>No.of Pages 139</div> |



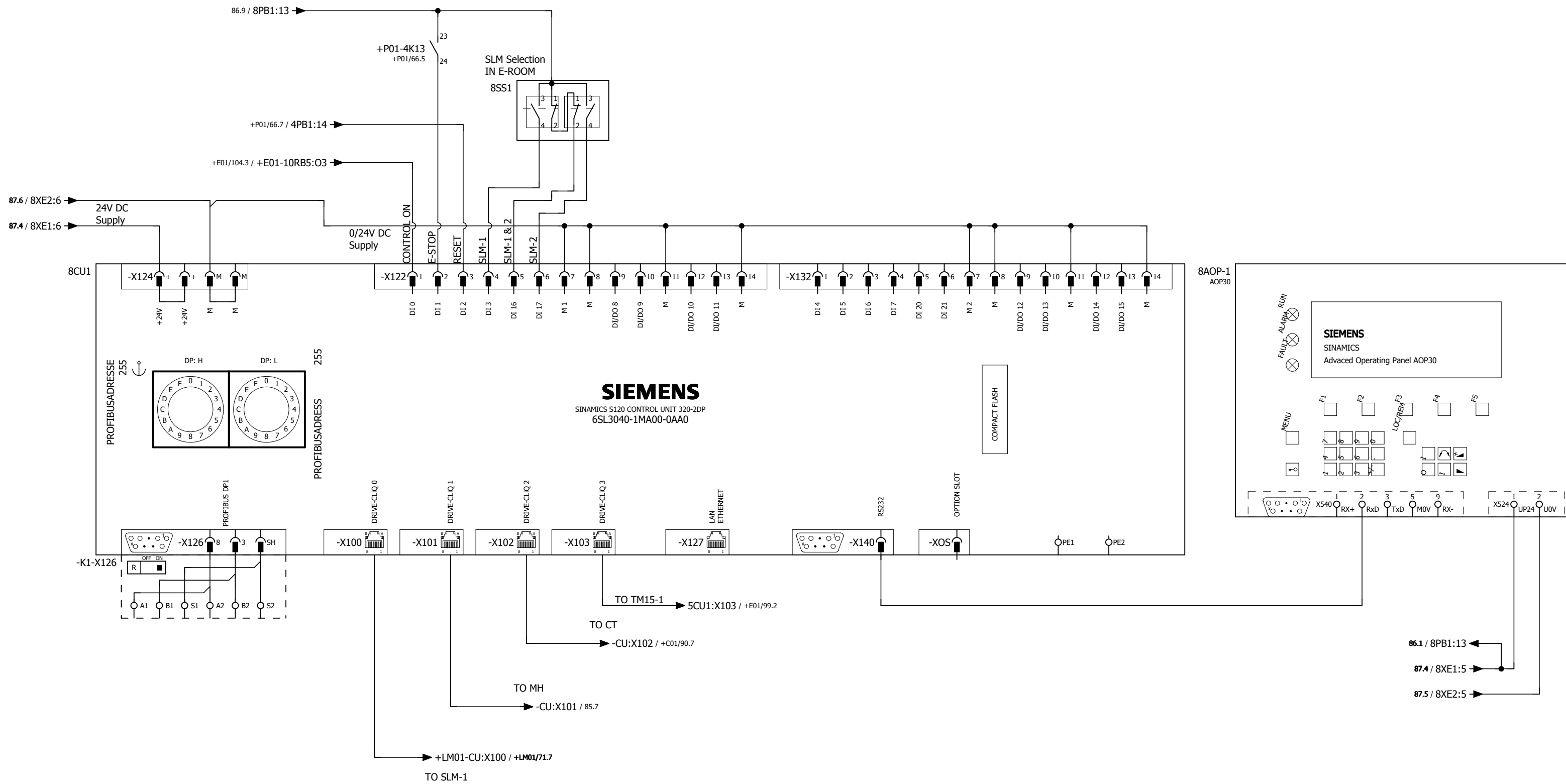




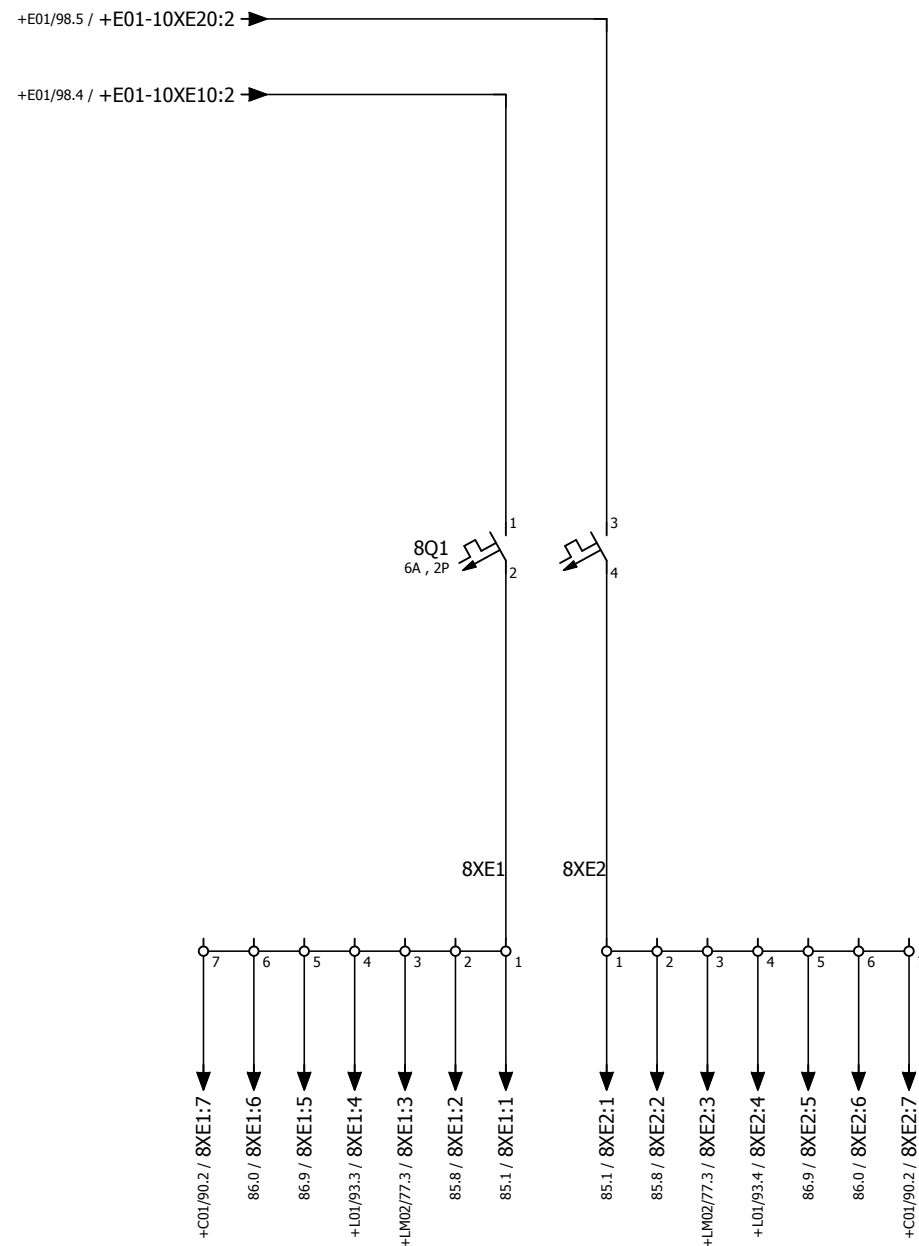
$$=E01 + M01$$

## MH SECTION

# CONTROL UNIT-CU320-2DP



=E01 + M01  
MH SECTION  
24V DC SUPPLY



|          |           |      |        |             |                         |   |               |                   |  |             |  |
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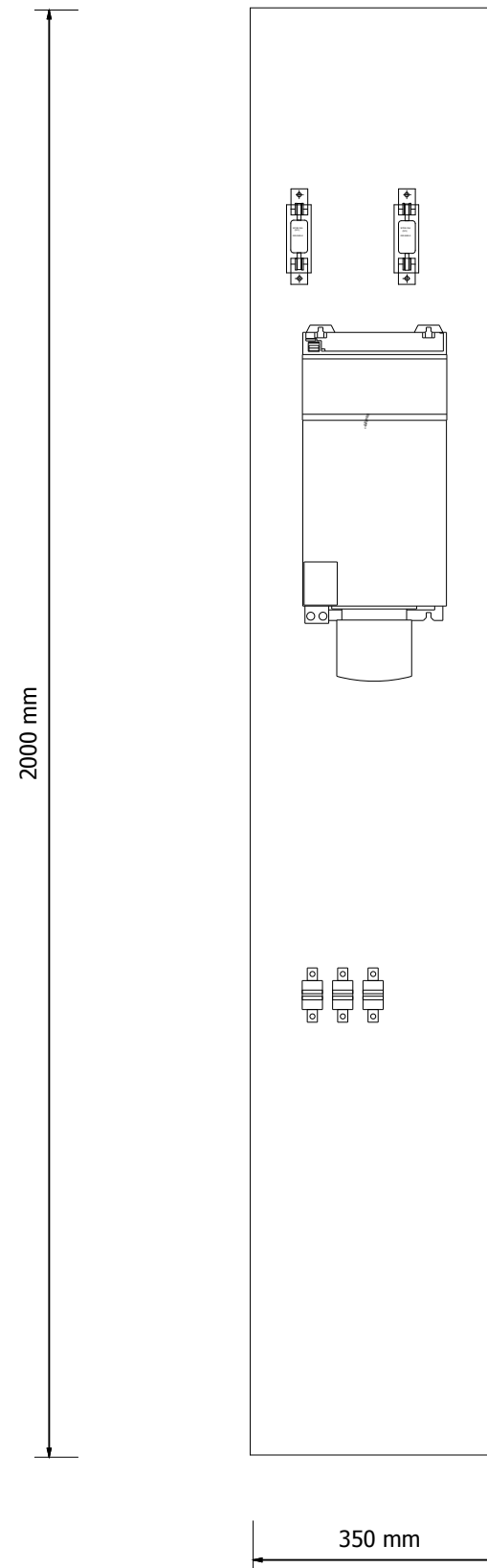
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## CT SECTION

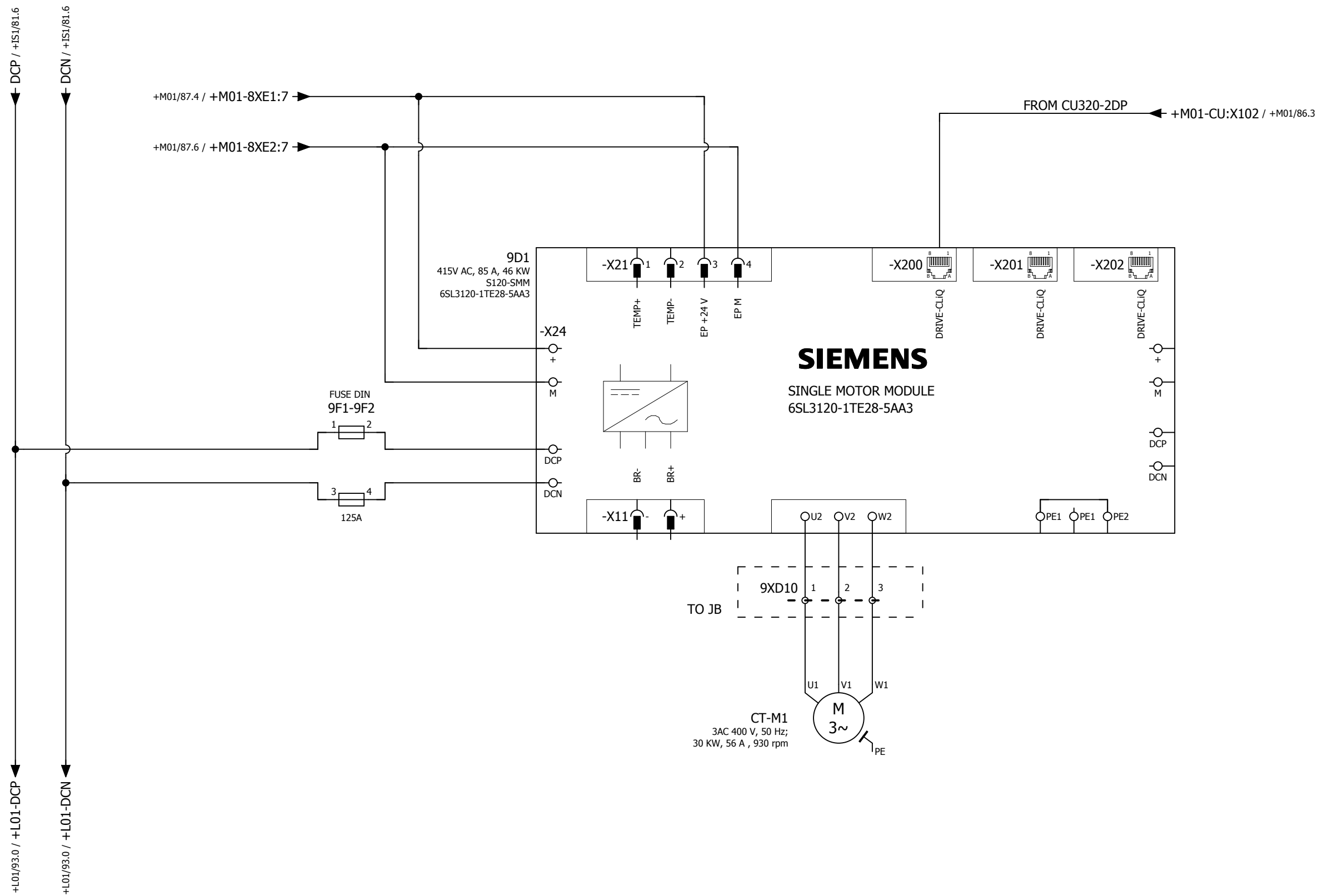
### GENERAL ARRANGEMENT



350 mm

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| REV-00   | 02-FEB-16 | SIVA | Chk by | MANIVASAGAN |                         |  |   |                     | Page 89           |  |                 |  |
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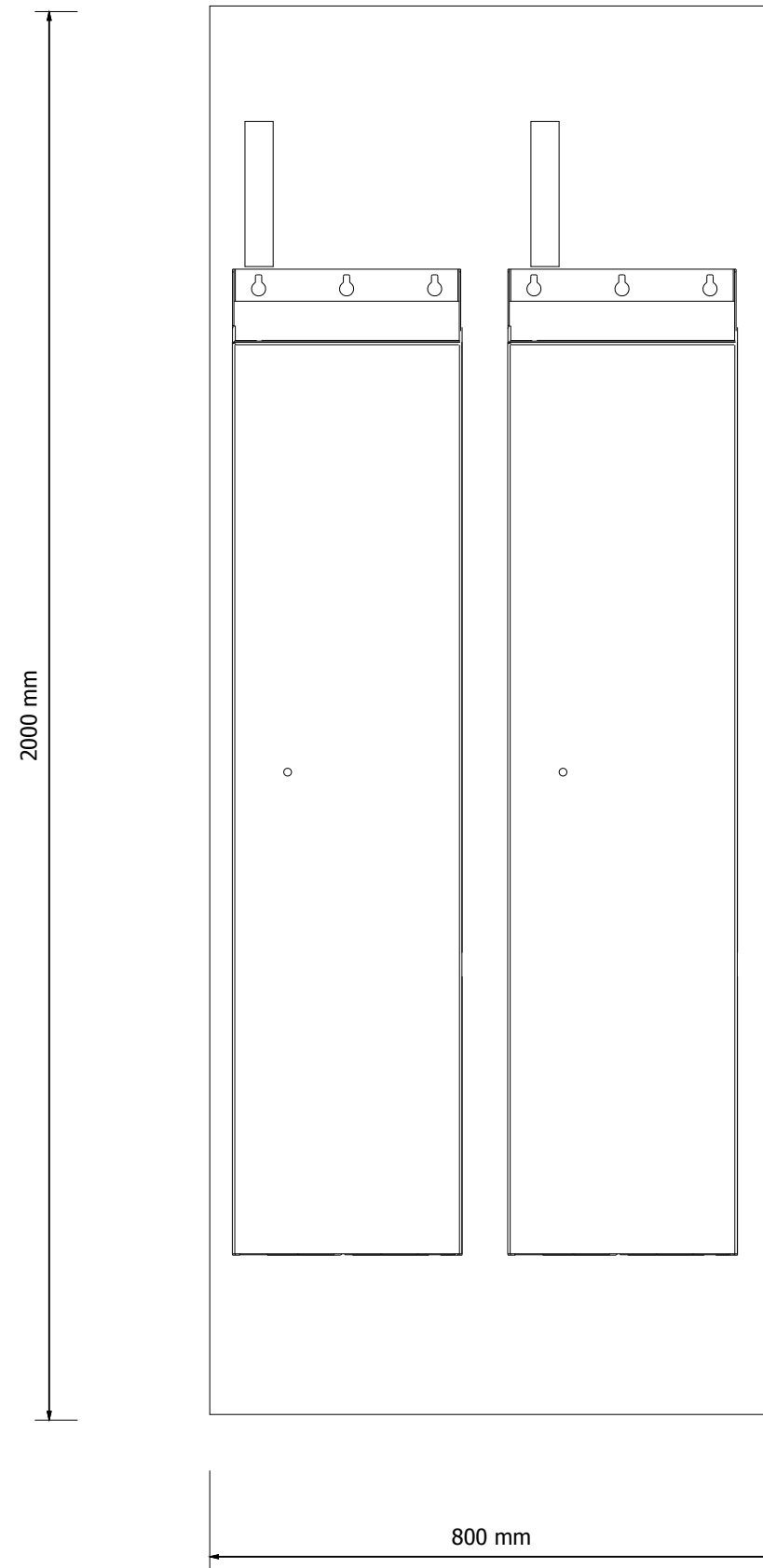
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LT SECTION  
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| <b>Project name</b>    | Slab Handling Crane |
| <b>Classification</b>  | LT-1 & 2 SECTION    |
| <b>Control Voltage</b> | 110V AC SUPPLY      |
| <b>Job number</b>      | 1601263             |
| <b>Application</b>     | EOT CRANE           |
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LT SECTION

## GENERAL ARRANGEMENT



800 mm

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## General Arrangement

DRWG No : 1601263

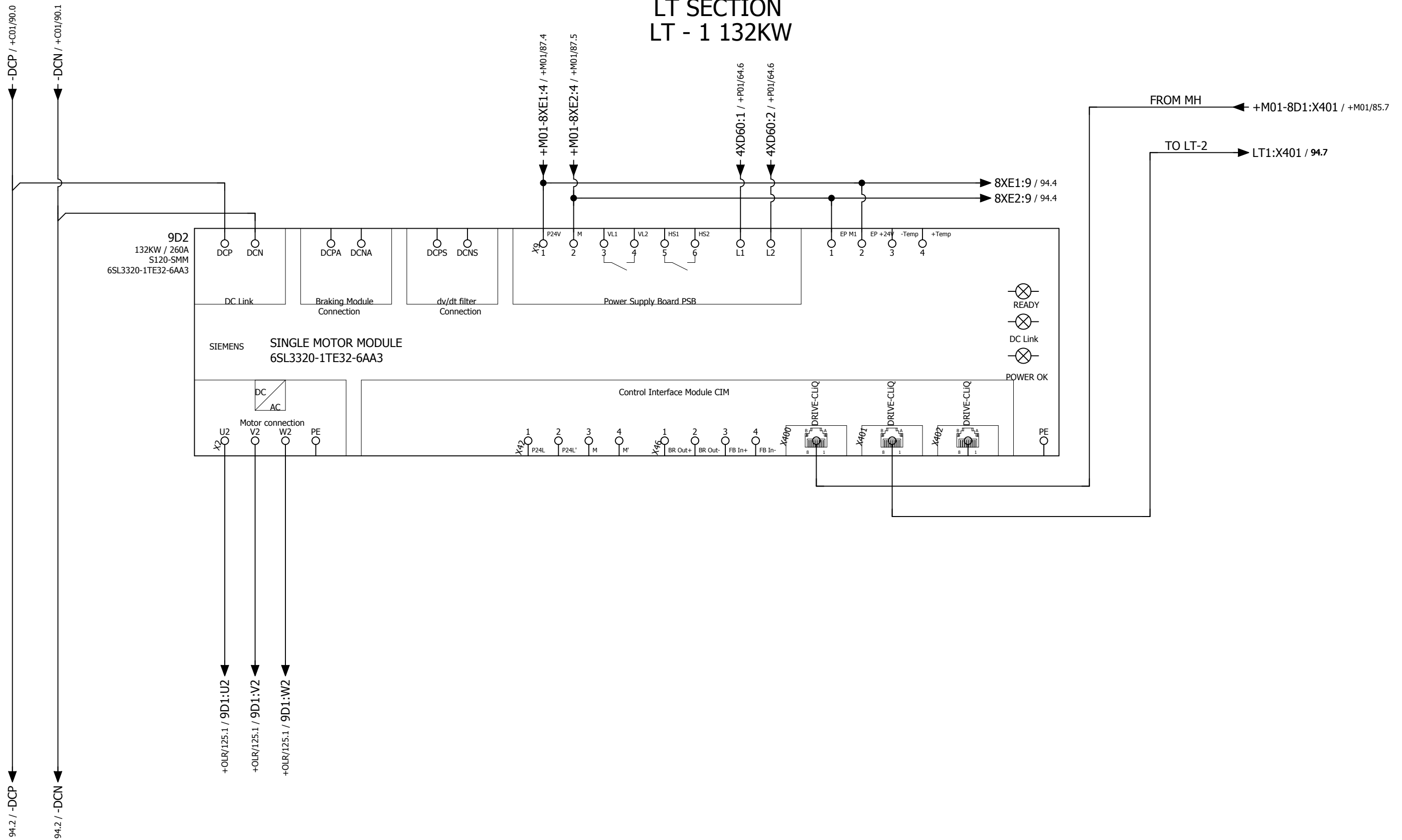
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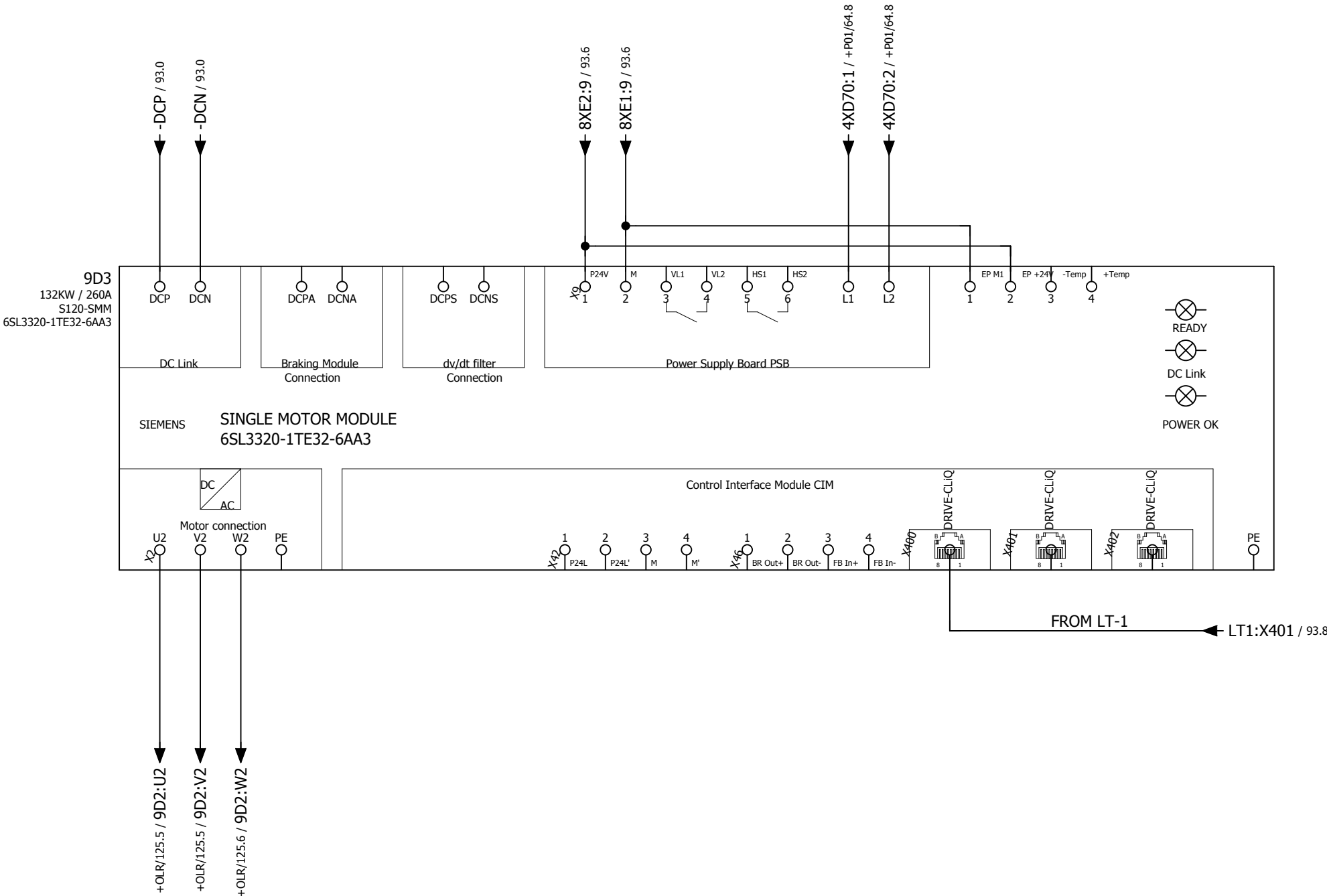
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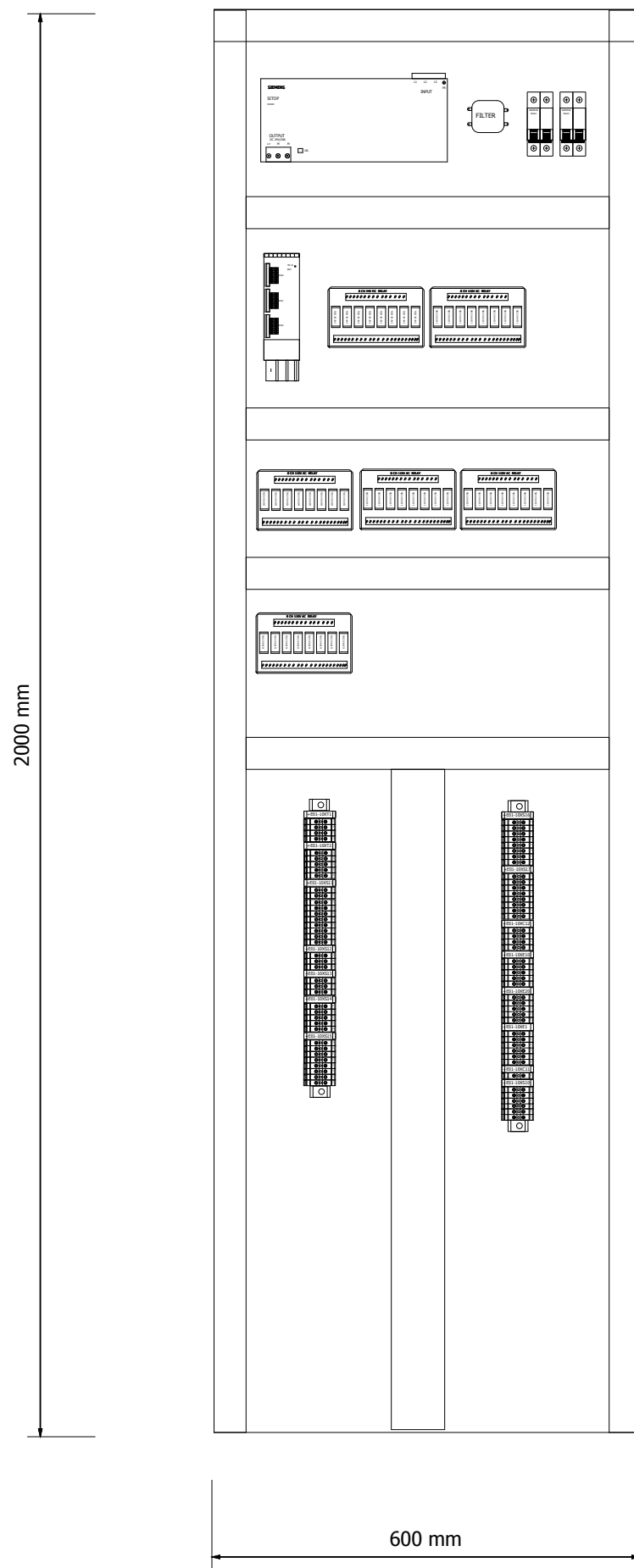
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| <div><div><div><div>Project name</div><div>Slab Handling Crane</div></div><div><div>Classification</div><div>GENERAL ARRANGEMENT</div></div><div><div>Control Voltage</div><div>110V AC SUPPLY</div></div></div></div> |           |      |        |             |                         |   |   |   |   |                 |  |                   |  |       |  |
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## TERMINAL MODULE-15

### GENERAL ARRANGEMENT



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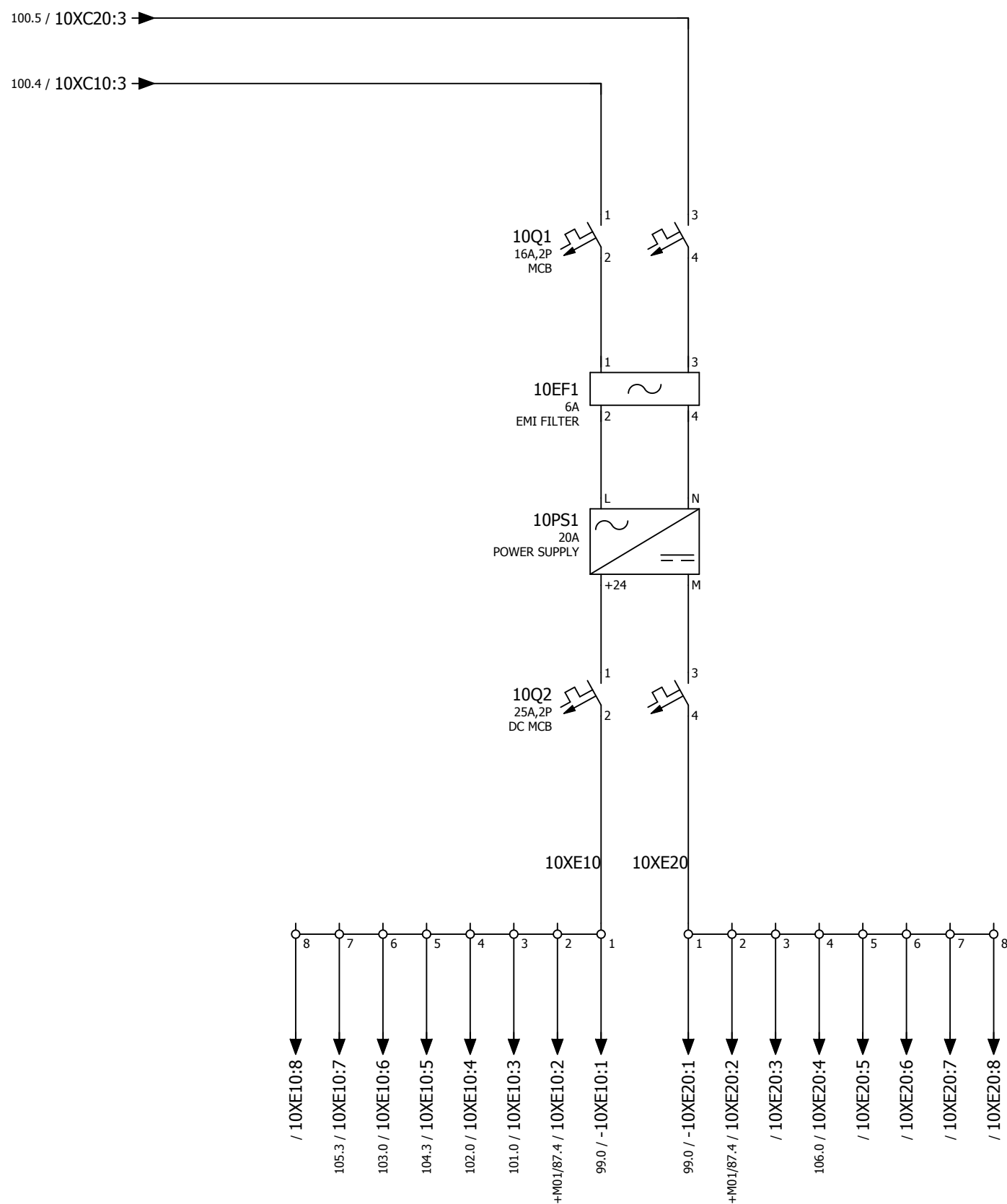


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| <div><div><div><div><div>Project name</div><div>Slab Handling Crane</div></div><div><div>Classification</div><div>TM-15</div></div><div><div>Control Voltage</div><div>110V AC SUPPLY</div></div></div></div></div> |           |      |        |             |                         |   |   |   |                   |   |  |
| <div><div><div><div><div>Job number</div><div>1601263</div></div><div><div>Application</div><div>EOT CRANE</div></div><div><div>Remarks</div><div></div></div></div></div></div>                                    |           |      |        |             |                         |   |   |   |                   |   |  |
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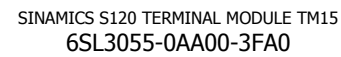
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## TERMINAL MODULE-15

### 24V DC SUPPLY DISTRIBUTION



|          |           |      |        |             |                         |  |   |                            |                   |  |             |     |
|----------|-----------|------|--------|-------------|-------------------------|--|---|----------------------------|-------------------|--|-------------|-----|
|          |           |      | Date   |             | Client : JSW            |  |  | 24V DC Supply Distribution | DRWG No : 1601263 |  | = E01       |     |
|          |           |      | Edit   | SIVA        |                         |  |   |                            |                   |  | + E01       |     |
| REV-00   | 02-FEB-16 | SIVA | Chk by | MANIVASAGAN | Application : EOT CRANE |  |   |                            |                   |  | Page        | 98  |
| Revision | Date      | Name | Appr   |             |                         |  | CONTROL PROJECTS (P) LTD.   |                            |                   |  | No.of Pages | 139 |

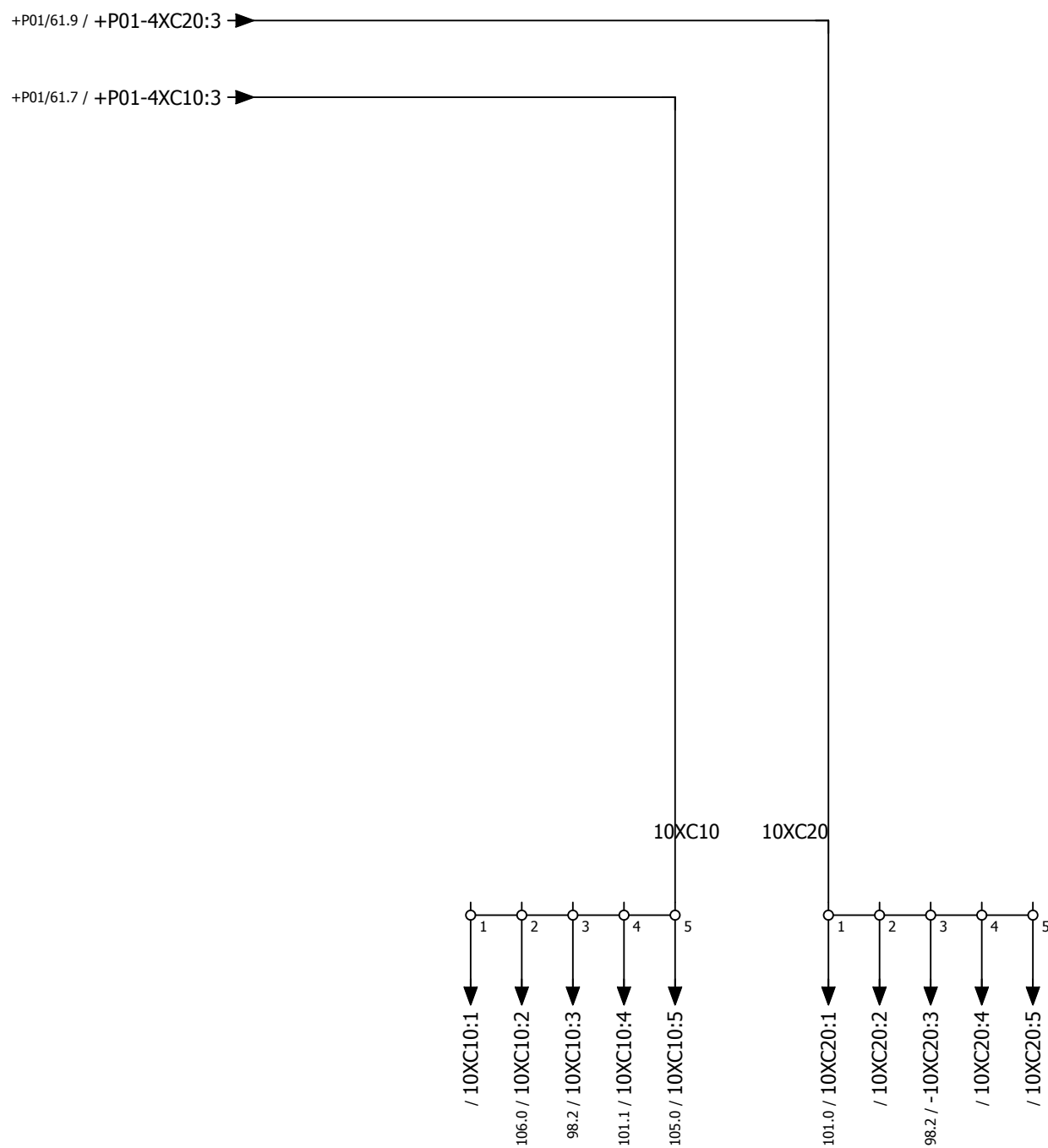


$$=E01 + E01$$

## TERMINAL MODULE-15

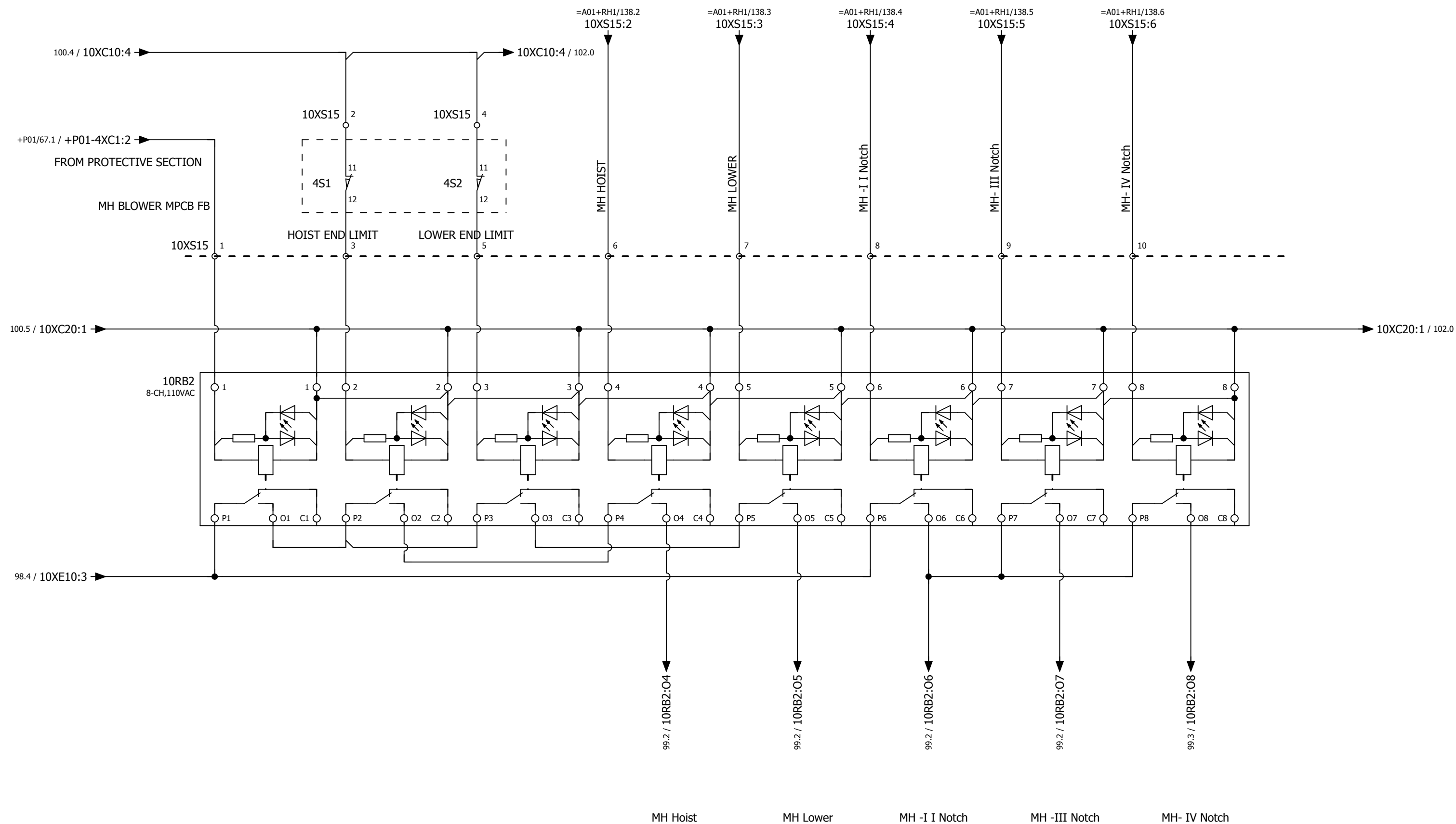
### 110V AC SUPPLY

110V AC SUPPLY



|          |           |      |        |             |                         |   |                             |                   |  |       |     |
|----------|-----------|------|--------|-------------|-------------------------|---|-----------------------------|-------------------|--|-------|-----|
|          |           |      | Date   |             | Client : JSW            |  | 110V AC Supply Distribution | DRWG No : 1601263 |  | = E01 |     |
|          |           |      | Edit   | SIVA        |                         |   |                             |                   |  | + E01 |     |
| REV-00   | 02-FEB-16 | SIVA | Chk by | MANIVASAGAN | Application : EOT CRANE |  |                             |                   |  | Page  | 100 |
| Revision | Date      | Name | Appr   |             |                         |   |                             |                   |  |       |     |

=E01 + E01  
 TERMINAL MODULE-15  
 110V AC RELAY BOARD

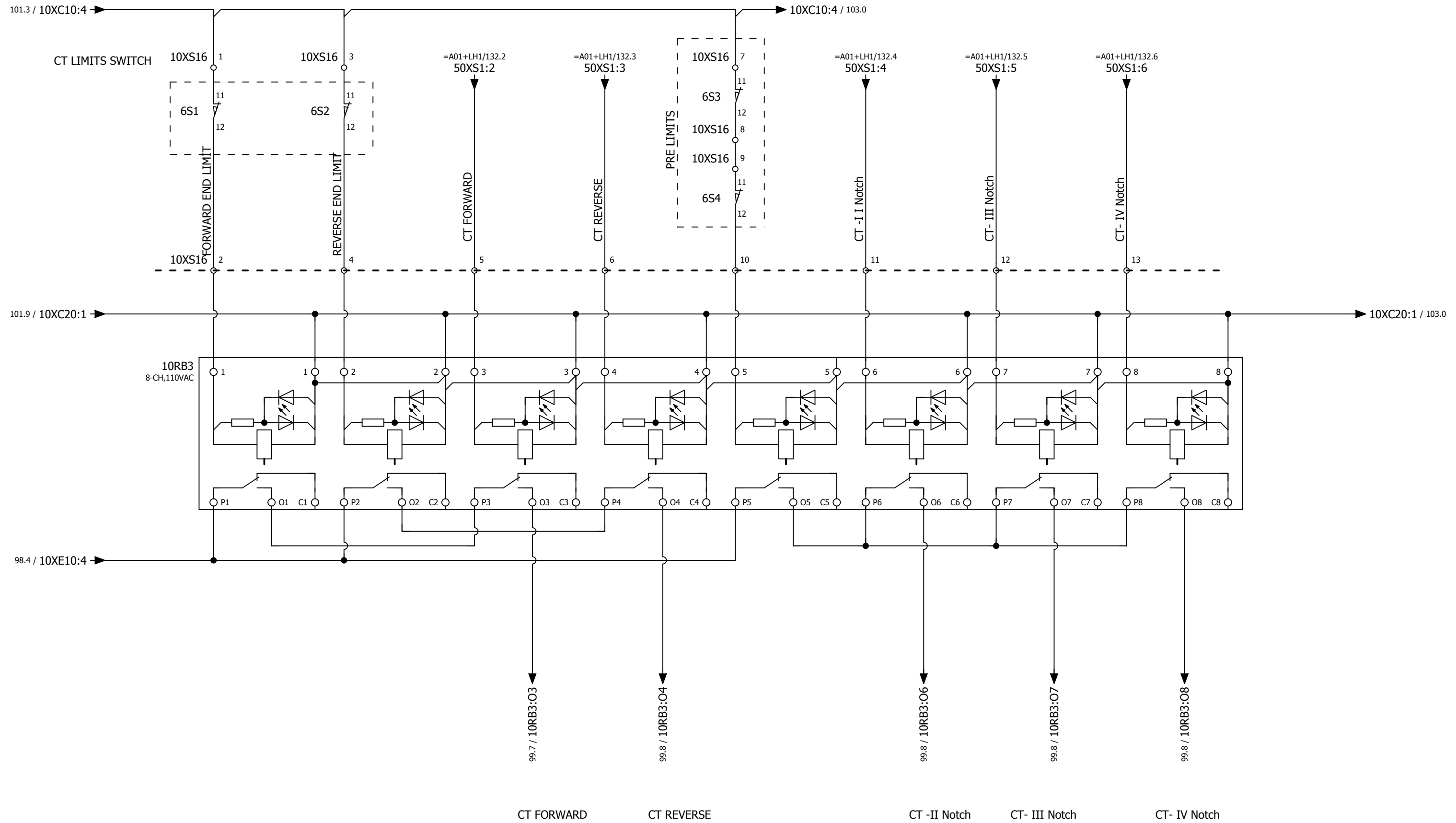


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|----------|-----------|------|--------|-------------|-------------------------|---|---------------------|-------------------|--|-------|-----|
|          |           |      | Date   |             | Client : JSW            |  | 110V AC Relay Board | DRWG No : 1601263 |  | = E01 |     |
|          |           |      | Edit   | SIVA        |                         |   |                     |                   |  | + E01 |     |
| REV-00   | 02-FEB-16 | SIVA | Chk by | MANIVASAGAN | Application : EOT CRANE |  |                     |                   |  | Page  | 101 |
| Revision | Date      | Name | Appr   |             |                         |   |                     |                   |  |       |     |

=E01 + E01

# TERMINAL MODULE-15

## 110V AC RELAY BOARD

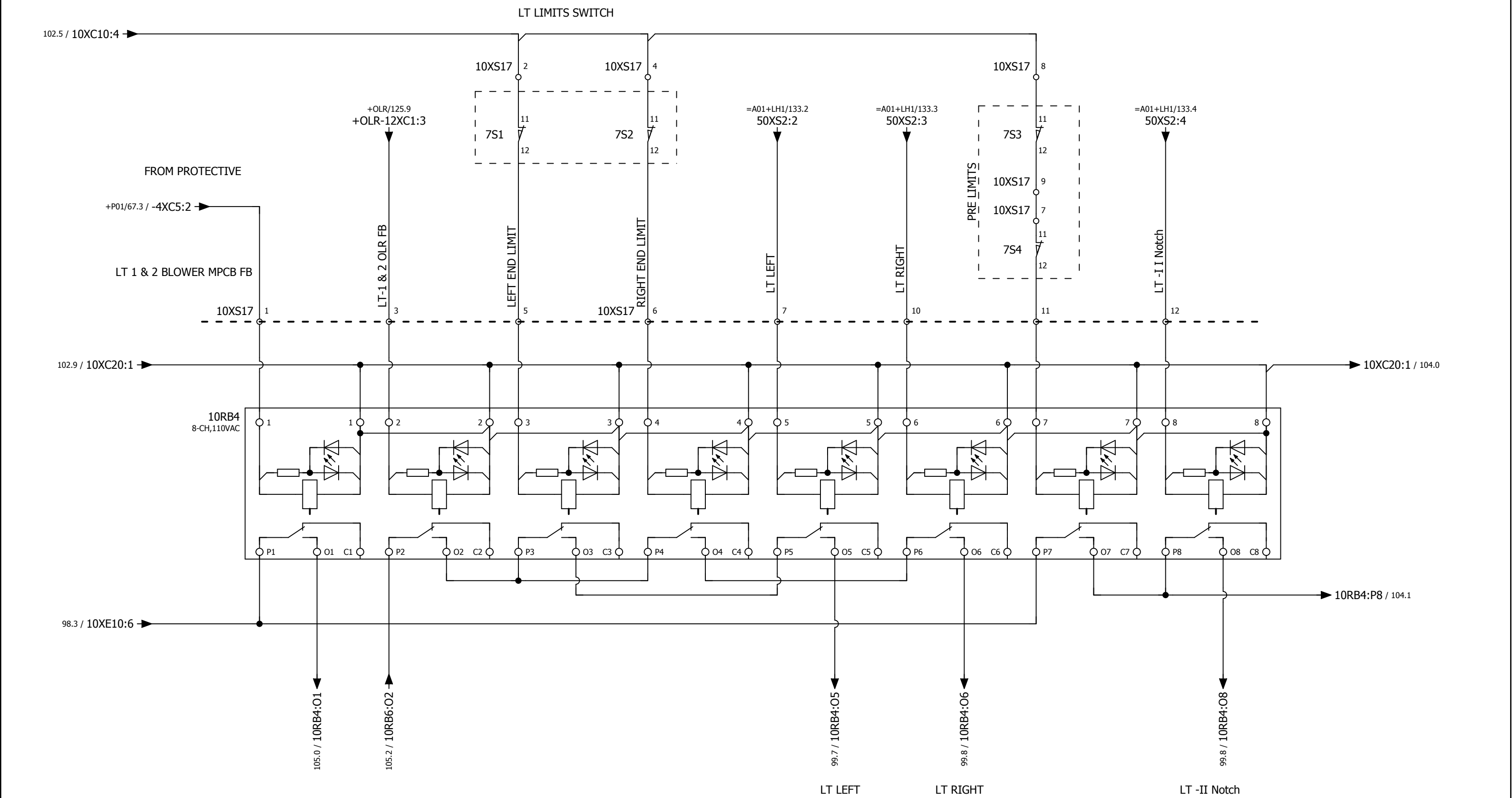


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|----------|-----------|------|--------|-------------|--------------|---|---------------------|-------------------------|-----------------|-------|----------|
|          |           |      | Date   |             | Client : JSW |  | 110V AC Relay Board | = E01                   |                 |       |          |
|          |           |      | Edit   | SIVA        |              |   |                     | DRWG No : 1601263       |                 | + E01 |          |
| REV-00   | 02-FEB-16 | SIVA | Chk by | MANIVASAGAN |              |   |                     | Application : EOT CRANE |                 |       | Page 102 |
| Revision | Date      | Name | Appr   |             |              |  |                     |                         | No.of Pages 139 |       |          |

=E01 + E01

TERMINAL MODULE-15

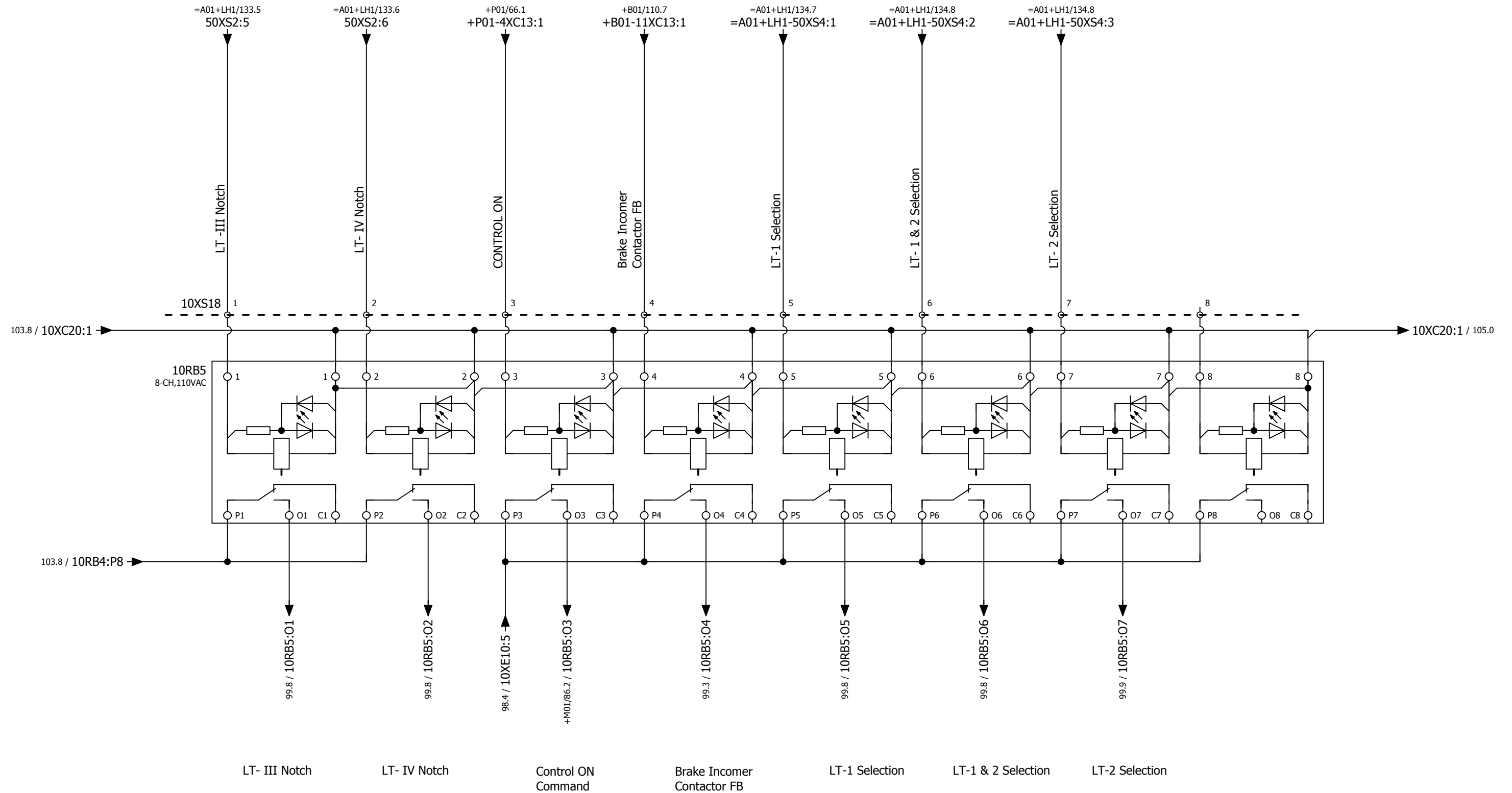
110V AC RELAY BOARD



$$=E01 + E01$$

## TERMINAL MODULE-15

### 110V AC RELAY BOARD



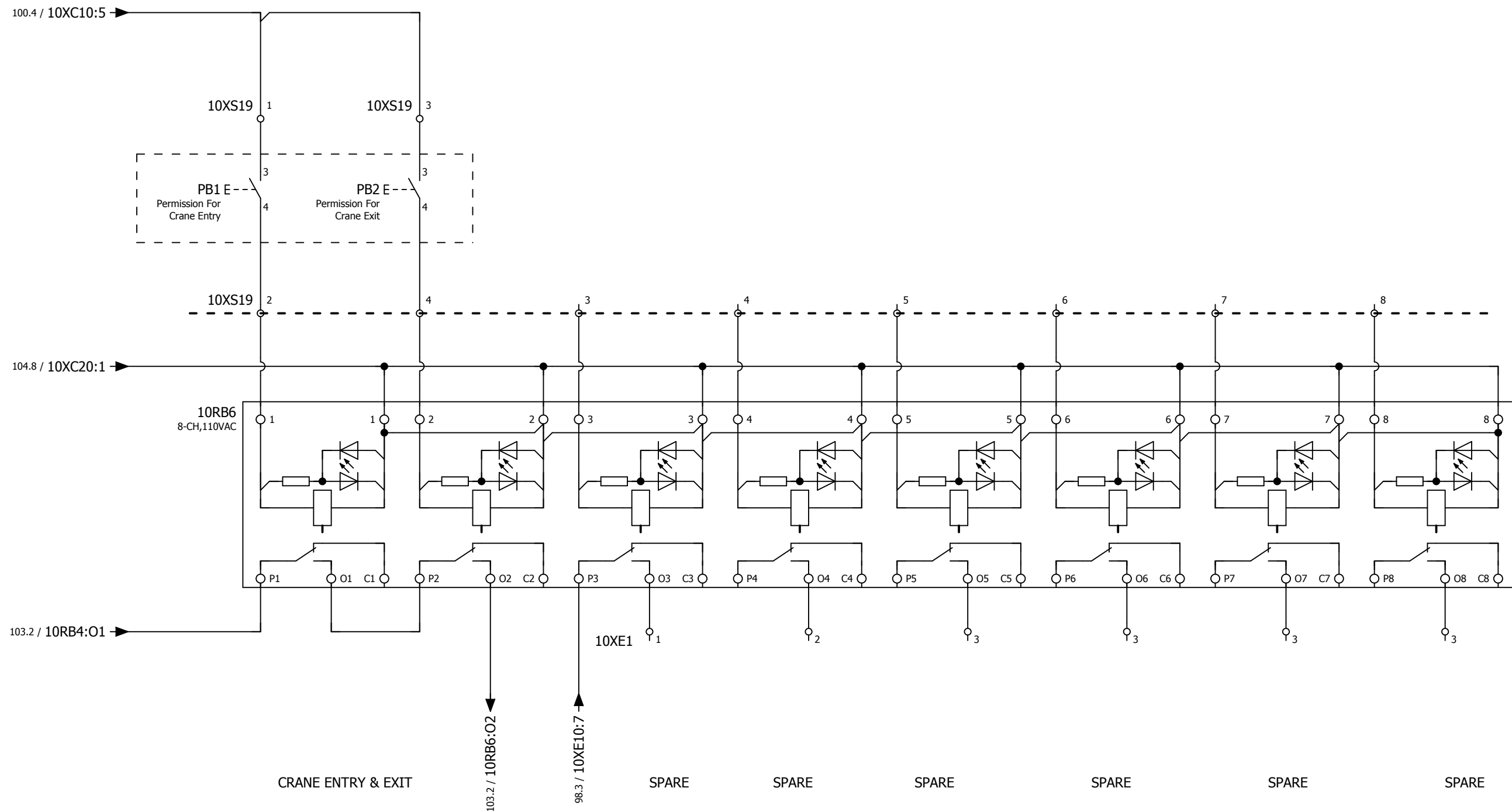
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|          |           |      | Date   |             | Client : JSW |  | 110V AC Relay Board | DRWG No : 1601263 |             | = E01 |      |
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| REV-00   | 02-FEB-16 | SIVA | Chk by | MANIVASAGAN |              |   |                     |                   |             |       | Page |
| Revision | Date      | Name | Appr   |             |              |   |                     |                   | No.of Pages | 139   |      |



$$=E01 + E01$$

# TERMINAL MODULE-15

## 110V AC RELAY BOARD

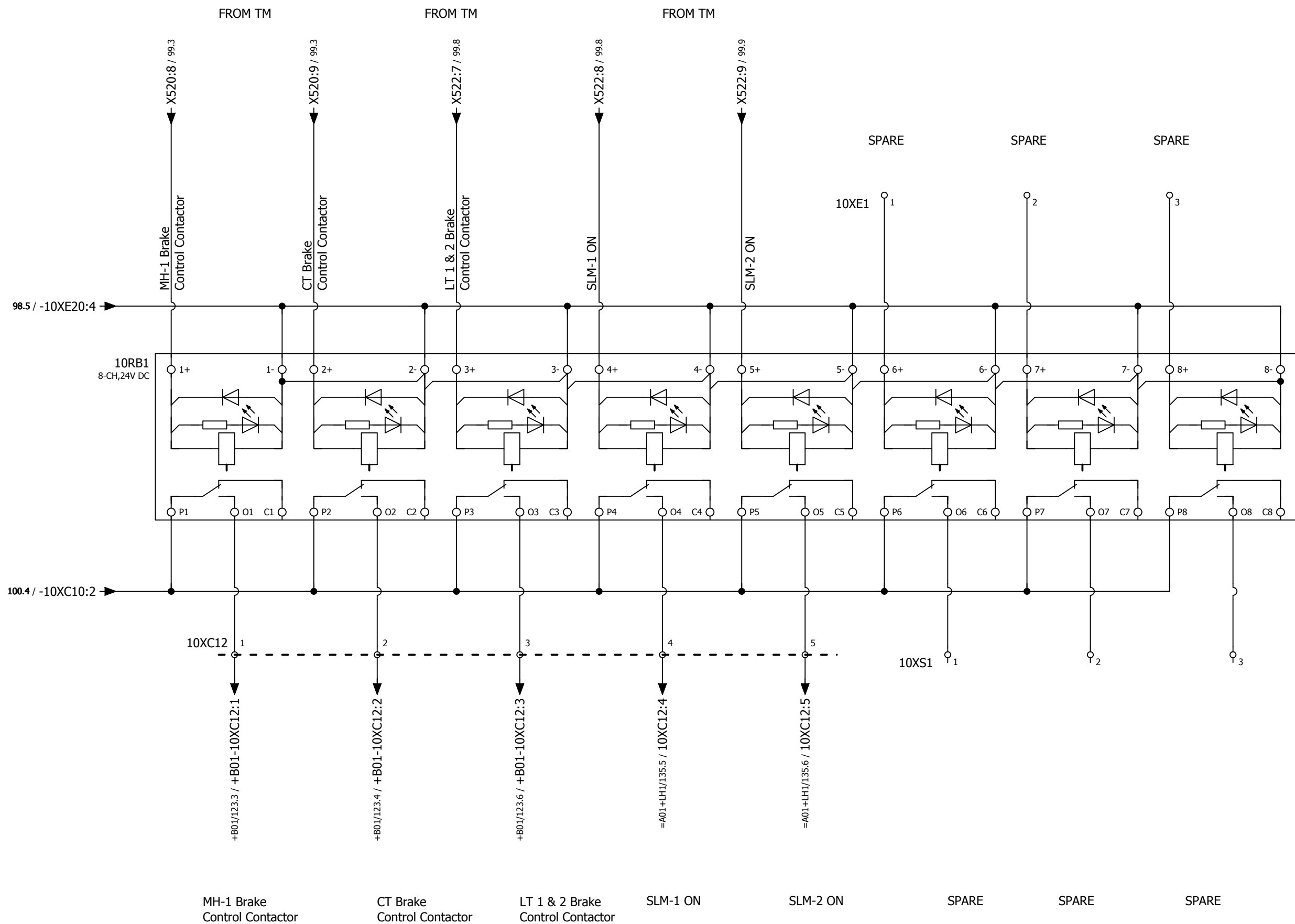


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|          |           |      | Date   |             | Client : JSW |  | 110V AC Relay Board | = E01                   |                 |       |          |
|          |           |      | Edit   | SIVA        |              |   |                     | DRWG No : 1601263       |                 | + E01 |          |
| REV-00   | 02-FEB-16 | SIVA | Chk by | MANIVASAGAN |              |   |                     | Application : EOT CRANE |                 |       | Page 105 |
| Revision | Date      | Name | Appr   |             |              |  |                     |                         | No.of Pages 139 |       |          |


$$=E01 + E01$$

## TERMINAL MODULE-15

### 24V DC RELAY BOARD

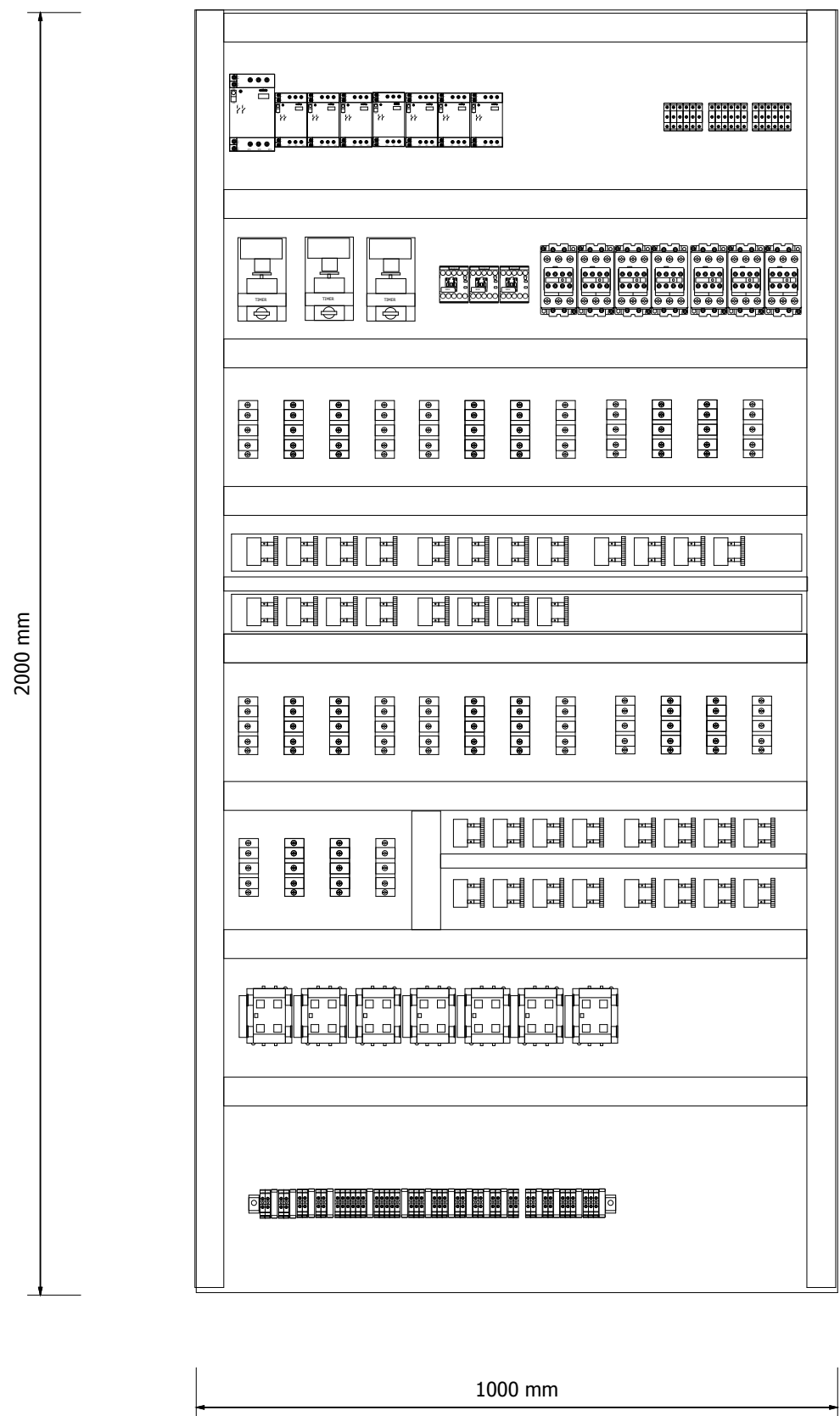


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|          |           |      | Date   |             | Client : JSW            |  24V DC Relay Board | DRWG No : 1601263 |  | = E01       |     |
|          |           |      | Edit   | SIVA        | Application : EOT CRANE |  |                   |  | + E01       |     |
| REV-00   | 02-FEB-16 | SIVA | Chk by | MANIVASAGAN |                         |  |                   |  | Page        | 106 |
| Revision | Date      | Name | Appr   |             |                         |  |                   |  | No.of Pages | 139 |

|   |           |      |        |             |   |   |   |   |   |  |
|---|-----------|------|--------|-------------|---|---|---|---|---|--|
| 0   | 1         | 2    | 3      | 4           | 5   | 6 | 7   | 8 | 9   |  |
| <div> <div>=E01 + B01</div> <div>BRAKE SECTION</div> <div>COVER PAGE</div> </div> |           |      |        |             |   |   |   |   |   |  |
| <div></div>   |           |      |        |             |   |   |   |   |   |  |
| <div> <div>Project name</div> <div>Slab Handling Crane</div> </div>               |           |      |        |             |   |   |   |   |   |  |
| <div> <div>Classification</div> <div>GENERAL ARRANGEMENT</div> </div>             |           |      |        |             |   |   |   |   |   |  |
| <div> <div>Control Voltage</div> <div>110V AC SUPPLY</div> </div>                 |           |      |        |             |   |   |   |   |   |  |
| <div> <div>Job number</div> <div>1601263</div> </div>                             |           |      |        |             |   |   |   |   |   |  |
| <div> <div>Application</div> <div>EOT CRANE</div> </div>                          |           |      |        |             |   |   |   |   |   |  |
| <div> <div>Remarks</div> <div></div> </div>                                       |           |      |        |             |   |   |   |   |   |  |
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|   |           |      | Date   |             | <div> <div>Client : JSW</div> <div>Application : EOT CRANE</div> </div> |   | <div> <div>COVER PAGE</div> <div>  </div> </div> |   | <div> <div>= E01</div> <div>+ B01</div> </div>              |  |
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| REV-00  | 02-FEB-16 | SIVA | Chk by | MANIVASAGAN |   |   |   |   | <div> <div>Page 107</div> <div>No.of Pages 139</div> </div> |  |
| Revision  | Date      | Name | Appr   |             |   |   |   |   |   |  |


$$=E01 + B01$$

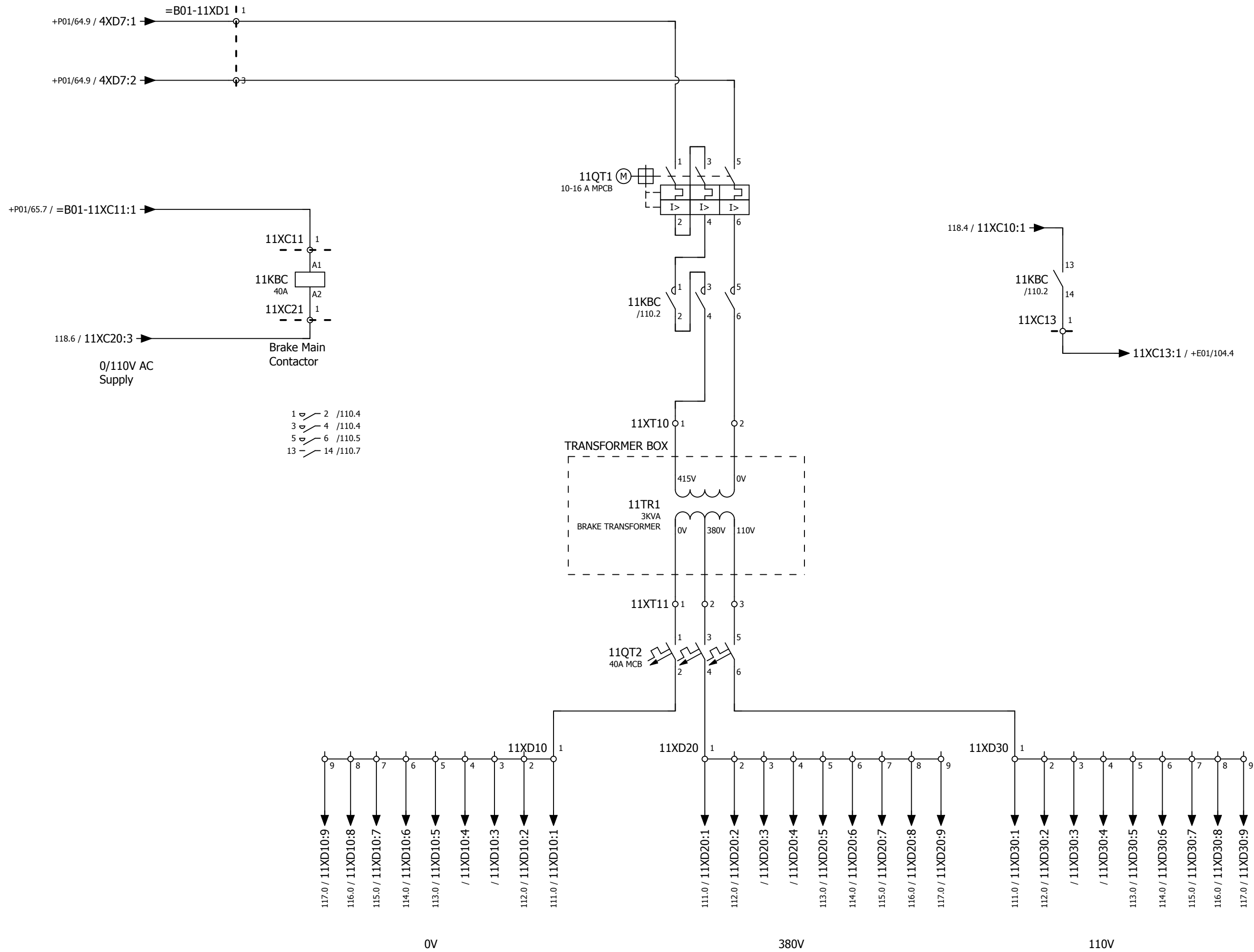
## BRAKE SECTION GENERAL ARRANGEMENT



1000 mm

|          |           |      |        |             |              |   |                     |                         |  |             |     |
|----------|-----------|------|--------|-------------|--------------|---|---------------------|-------------------------|--|-------------|-----|
|          |           |      | Date   |             | Client : JSW |  | General Arrangement | DRWG No : 1601263       |  | = E01       |     |
|          |           |      | Edit   | SIVA        |              |   |                     |                         |  | + B01       |     |
| REV-00   | 02-FEB-16 | SIVA | Chk by | MANIVASAGAN |              |   |                     | Application : EOT CRANE |  |             |     |
| Revision | Date      | Name | Appr   |             |              |   |                     |                         |  | No.of Pages | 139 |

|   |           |      |        |             |                         |   |   |   |                   |  |  |  |
|---|-----------|------|--------|-------------|-------------------------|---|---|---|-------------------|--|--|--|
| 0   | 1         | 2    | 3      | 4           | 5                       | 6 | 7   | 8 | 9                 |  |  |  |
| <div> <div>=E01 + B01</div> <div>BRAKE SECTION</div> <div>COVER PAGE</div> </div> |           |      |        |             |                         |   |   |   |                   |  |  |  |
| <div></div>   |           |      |        |             |                         |   |   |   |                   |  |  |  |
| <div> <div>Project name</div> <div>Slab Handling Crane</div> </div>               |           |      |        |             |                         |   |   |   |                   |  |  |  |
| <div> <div>Classification</div> <div>BRAKE SECTION</div> </div>                   |           |      |        |             |                         |   |   |   |                   |  |  |  |
| <div> <div>Control Voltage</div> <div>110V AC SUPPLY</div> </div>                 |           |      |        |             |                         |   |   |   |                   |  |  |  |
| <div> <div>Job number</div> <div>1601263</div> </div>                             |           |      |        |             |                         |   |   |   |                   |  |  |  |
| <div> <div>Application</div> <div>EOT CRANE</div> </div>                          |           |      |        |             |                         |   |   |   |                   |  |  |  |
| <div> <div>Remarks</div> <div></div> </div>                                       |           |      |        |             |                         |   |   |   |                   |  |  |  |
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|   |           |      | Date   |             | Client : JSW            |   | <div> <div>COVER PAGE</div> <div>  </div> </div> |   | = E01             |  |  |  |
|   |           |      | Edit   | SIVA        | Application : EOT CRANE |   |   |   | + B01             |  |  |  |
| REV-00  | 02-FEB-16 | SIVA | Chk by | MANIVASAGAN |                         |   |   |   | DRWG No : 1601263 |  |  |  |
| Revision  | Date      | Name | Appr   |             |                         |   |   |   |                   | <div>Page109</div> <div>No.of Pages139</div> |  |  |



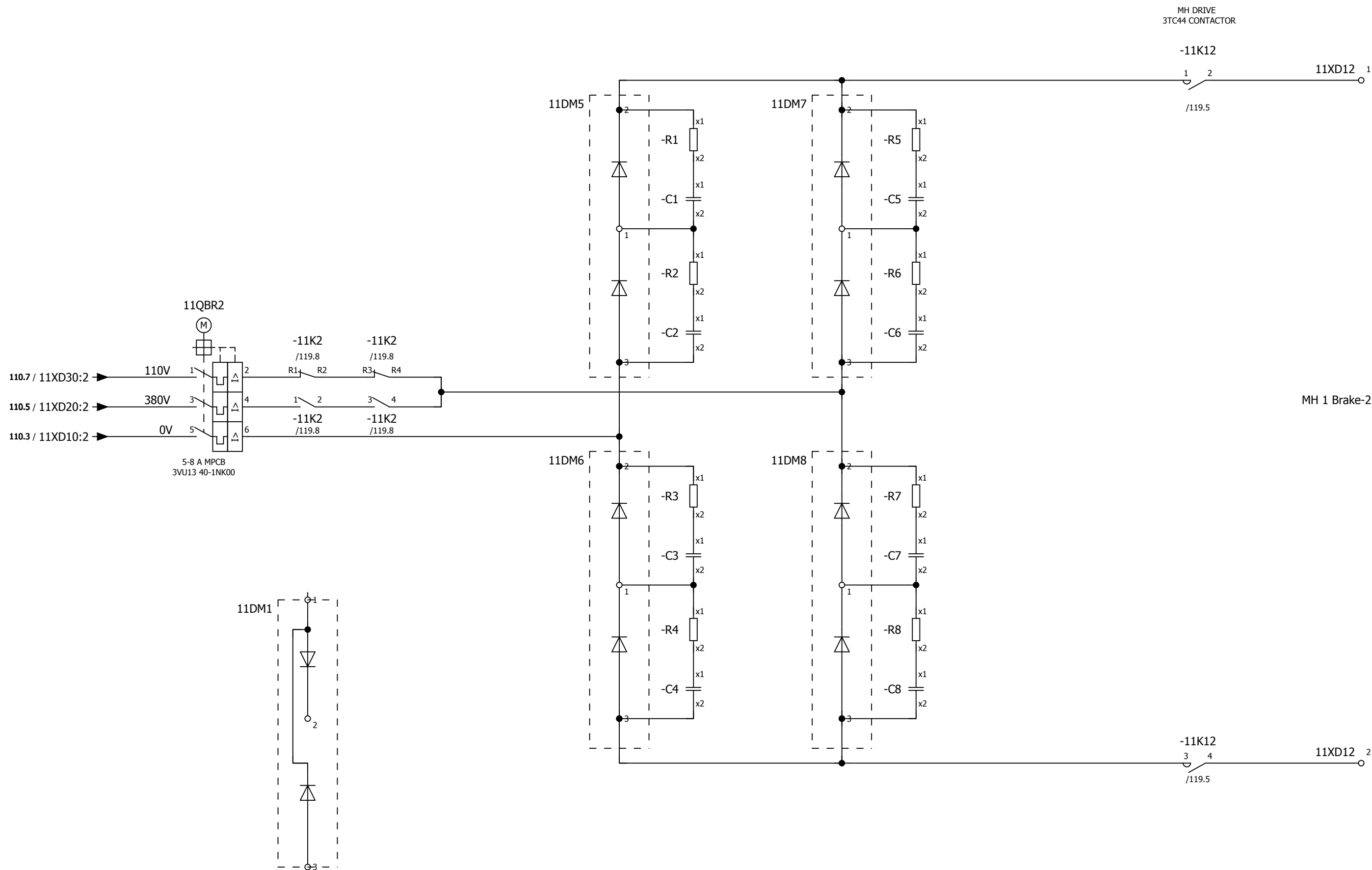
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|          |           |      | Edit   | SIVA        |                         |   |                  |                   | + B01       |     |
| REV-00   | 02-FEB-16 | SIVA | Chk by | MANIVASAGAN | Application : EOT CRANE |  |                  |                   | Page        | 110 |
| Revision | Date      | Name | Appr   |             |                         |   |                  |                   | No.of Pages | 139 |



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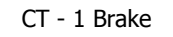
# BRAKE SECTION

## MH-1 BRAKE SUPPLY



|          |           |      |        |             |              |   |                   |                         |  |       |                 |  |          |
|----------|-----------|------|--------|-------------|--------------|---|-------------------|-------------------------|--|-------|-----------------|--|----------|
|          |           |      | Date   |             | Client : JSW |  | MH 1 Brake Supply | DRWG No : 1601263       |  | = E01 |                 |  |          |
|          |           |      | Edit   | SIVA        |              |   |                   |                         |  | + B01 |                 |  |          |
| REV-00   | 02-FEB-16 | SIVA | Chk by | MANIVASAGAN |              |   |                   | Application : EOT CRANE |  |       |                 |  | Page 112 |
| Revision | Date      | Name | Appr   |             |              |   |                   |                         |  |       | No.of Pages 139 |  |          |





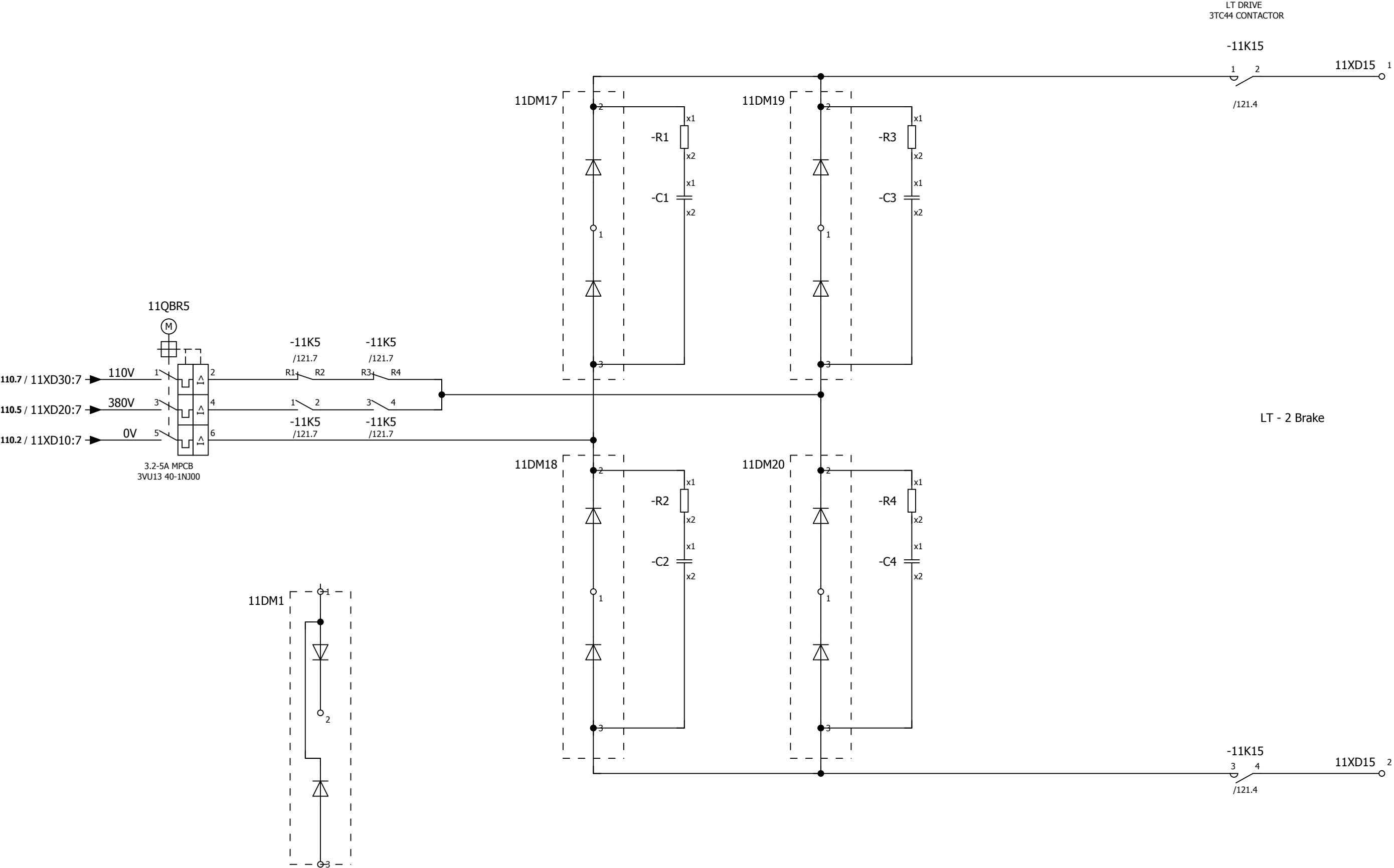
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|          |           |      | Date   |             | Client : JSW            |  |  | CT Brake Supply |  | DRWG No : 1601263 |                 | = E01    |  |
|          |           |      | Edit   | SIVA        | Application : EOT CRANE |  |   |                 |  | + B01             |                 |          |  |
| REV-00   | 02-FEB-16 | SIVA | Chk by | MANIVASAGAN |                         |  |   |                 |  |                   |                 | Page 113 |  |
| Revision | Date      | Name | Appr   |             |                         |  |   |                 |  |                   | No.of Pages 139 |          |  |



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# BRAKE SECTION

## LT-1 BRAKE SUPPLY

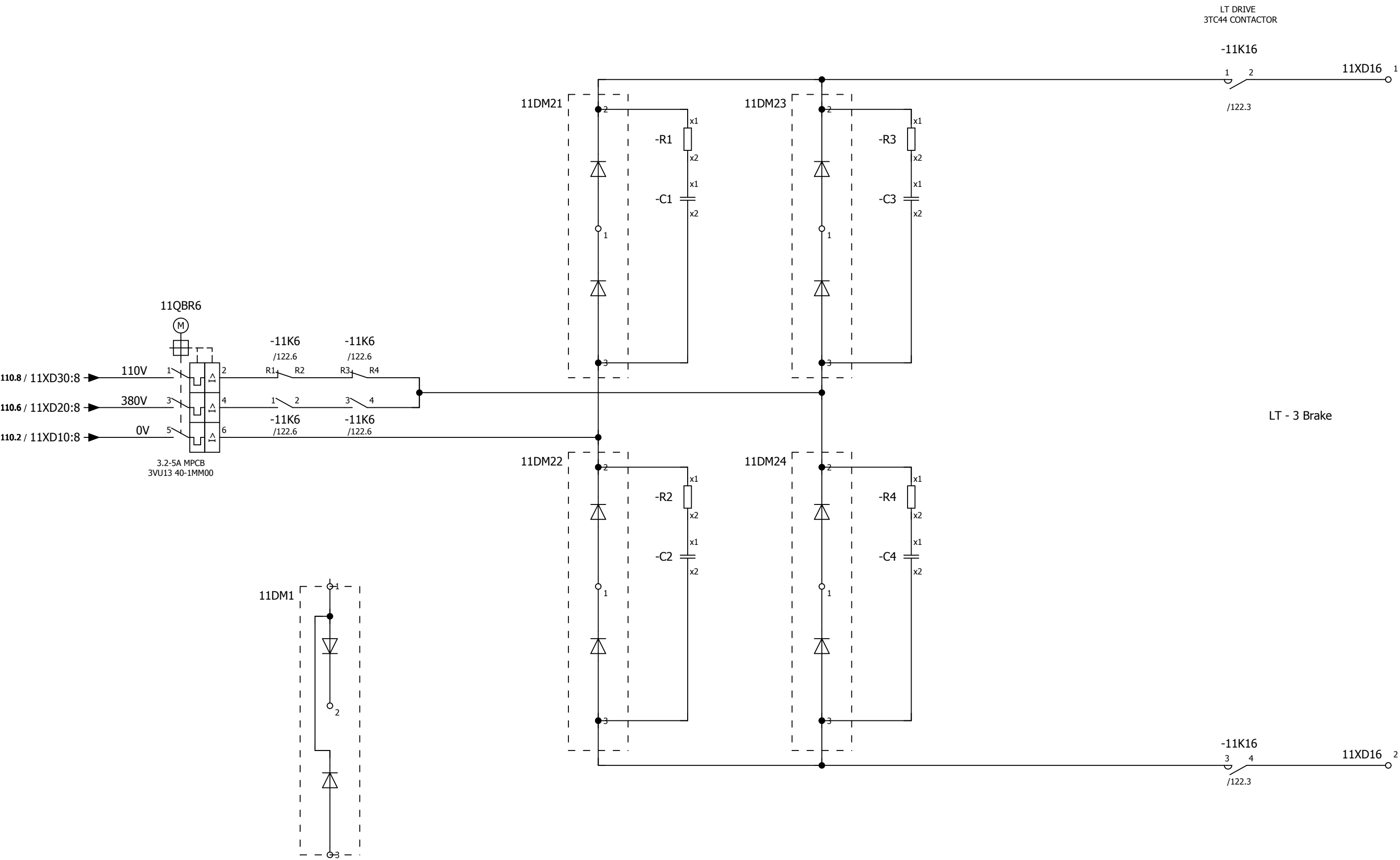


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|          |           |      | Date   |             | Client : JSW<br>Application : EOT CRANE |  | LT-1 Brake Supply | DRWG No : 1601263 | = E01 |                 |
|          |           |      | Edit   | SIVA        |   |   |                   |                   | + B01 |                 |
| REV-00   | 02-FEB-16 | SIVA | Chk by | MANIVASAGAN |   |   |                   |                   |       | Page 115        |
| Revision | Date      | Name | Appr   |             |   |   |                   |                   |       | No.of Pages 139 |

=E01 + B01

# BRAKE SECTION

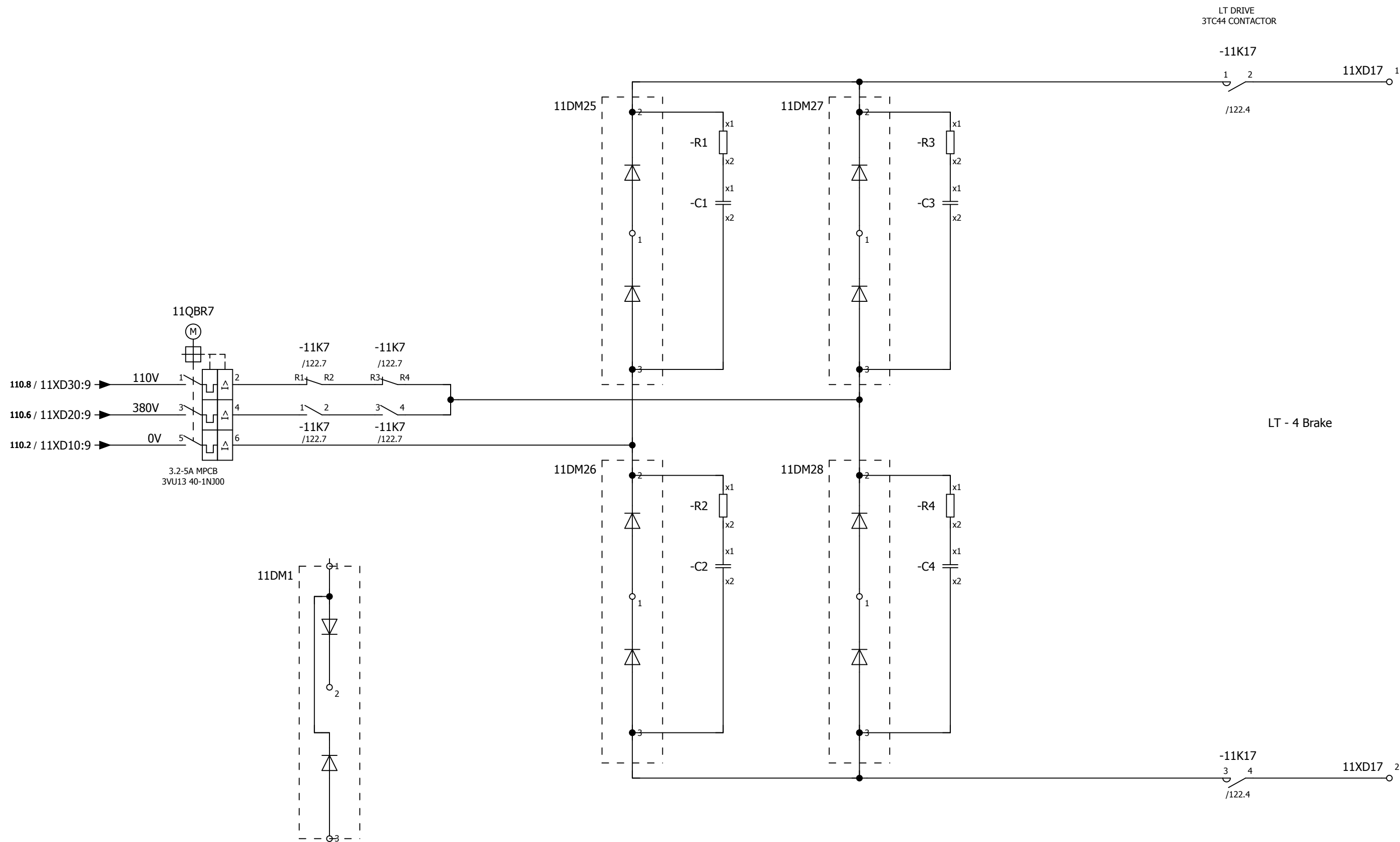
## LT-2 BRAKE SUPPLY



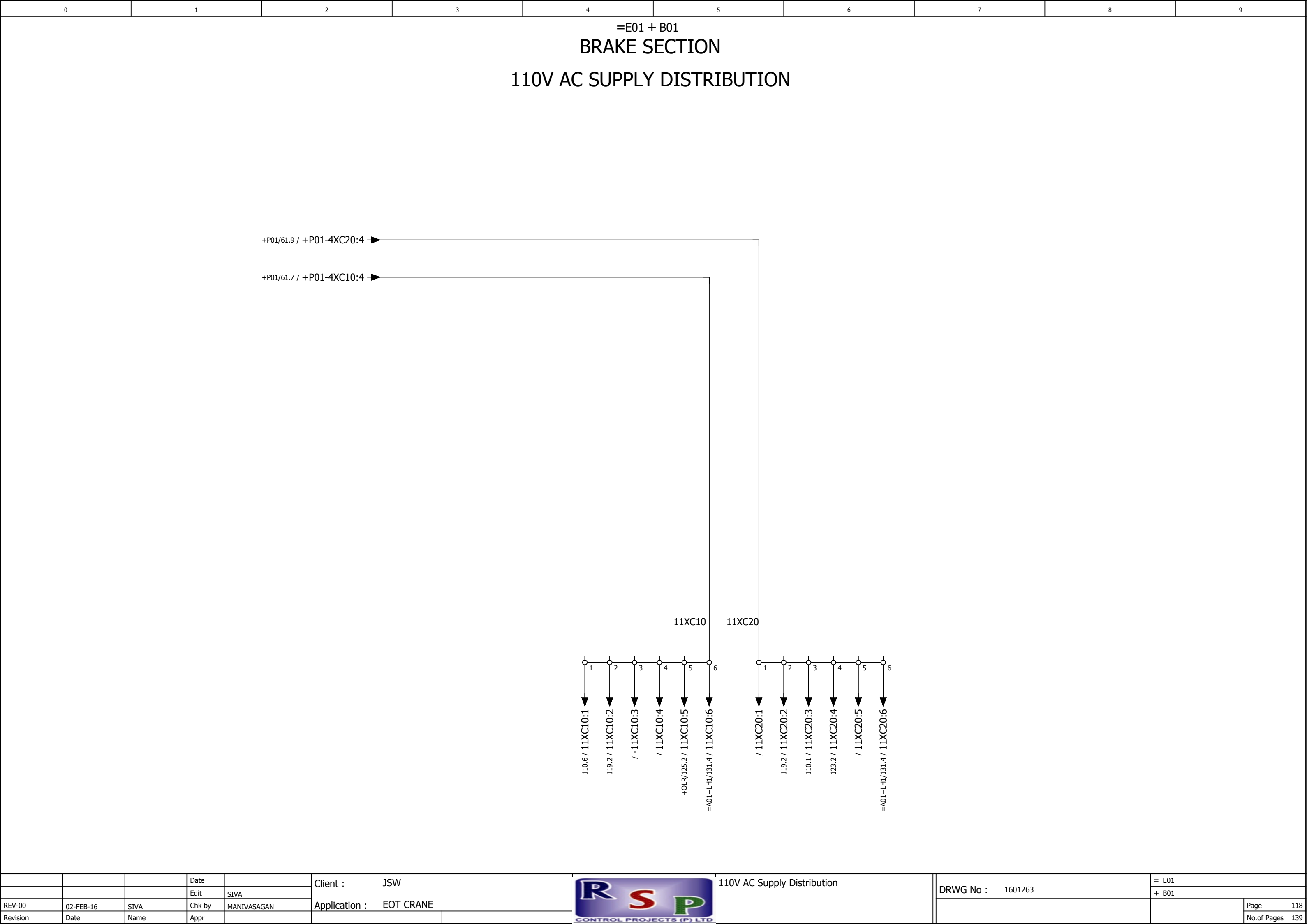
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|----------|-----------|------|--------|-------------|-------------------------|--|---|-------------------|-------------------|-------------|-----|
|          |           |      | Date   |             | Client : JSW            |  |  | LT-2 Brake Supply | DRWG No : 1601263 | = E01       |     |
|          |           |      | Edit   | SIVA        |                         |  |   |                   |                   | + B01       |     |
| REV-00   | 02-FEB-16 | SIVA | Chk by | MANIVASAGAN | Application : EOT CRANE |  |   |                   |                   |             |     |
| Revision | Date      | Name | Appr   |             |                         |  |   |                   |                   | Page        | 116 |
|          |           |      |        |             |                         |  | CONTROL PROJECTS (P) LTD.   |                   |                   | No.of Pages | 139 |

$$=E01 + B01$$

## BRAKE SECTION LT-2 BRAKE SUPPLY



|          |           |      |        |             |              |   |                   |                         |  |                 |  |  |          |
|----------|-----------|------|--------|-------------|--------------|---|-------------------|-------------------------|--|-----------------|--|--|----------|
|          |           |      | Date   |             | Client : JSW |  | LT-2 Brake Supply | DRWG No : 1601263       |  | = E01           |  |  |          |
|          |           |      | Edit   | SIVA        |              |   |                   |                         |  | + B01           |  |  |          |
| REV-00   | 02-FEB-16 | SIVA | Chk by | MANIVASAGAN |              |   |                   | Application : EOT CRANE |  |                 |  |  | Page 117 |
| Revision | Date      | Name | Appr   |             |              |  |                   |                         |  | No.of Pages 139 |  |  |          |

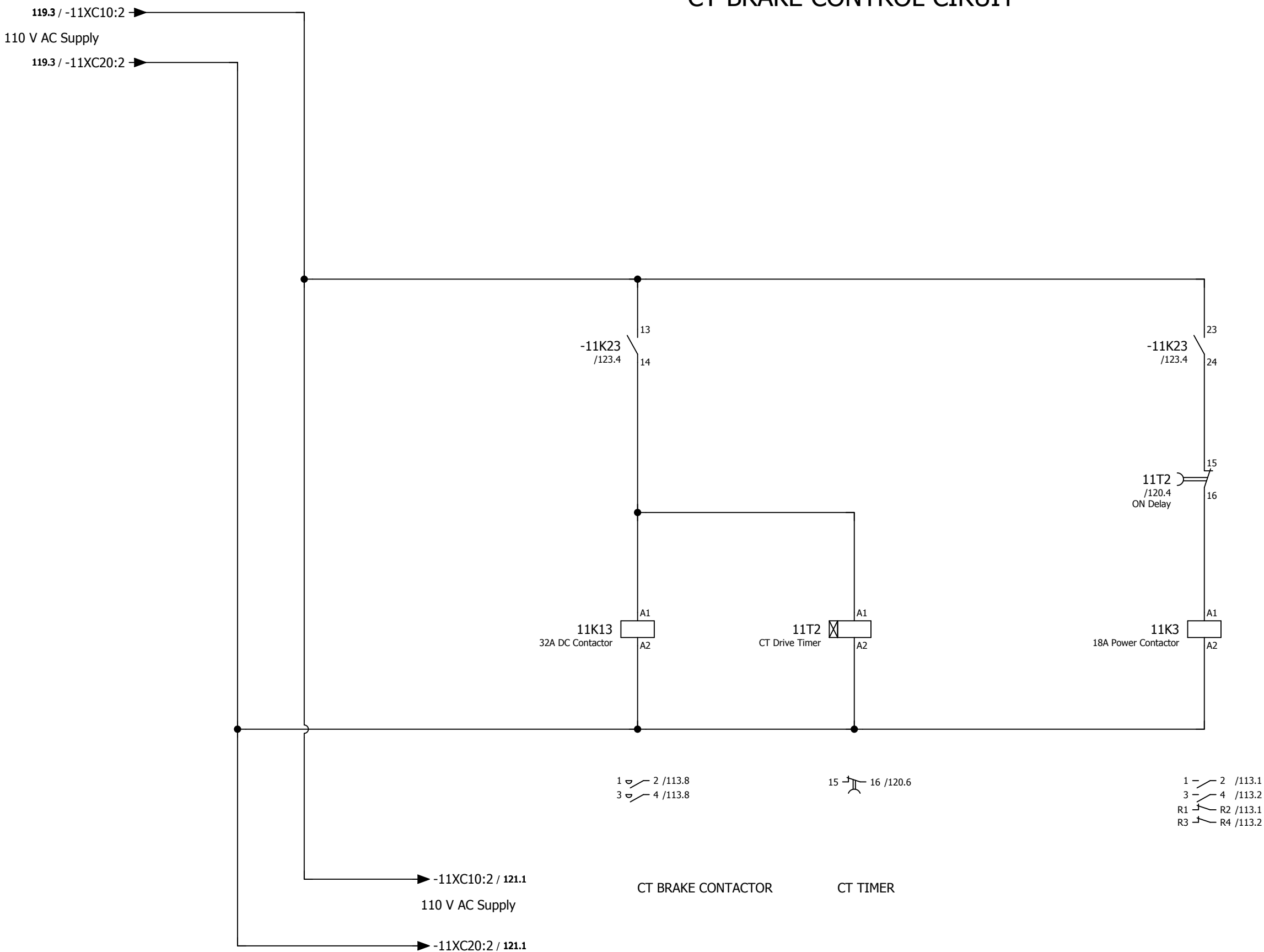




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## BRAKE SECTION

### CT BRAKE CONTROL CIRCUIT

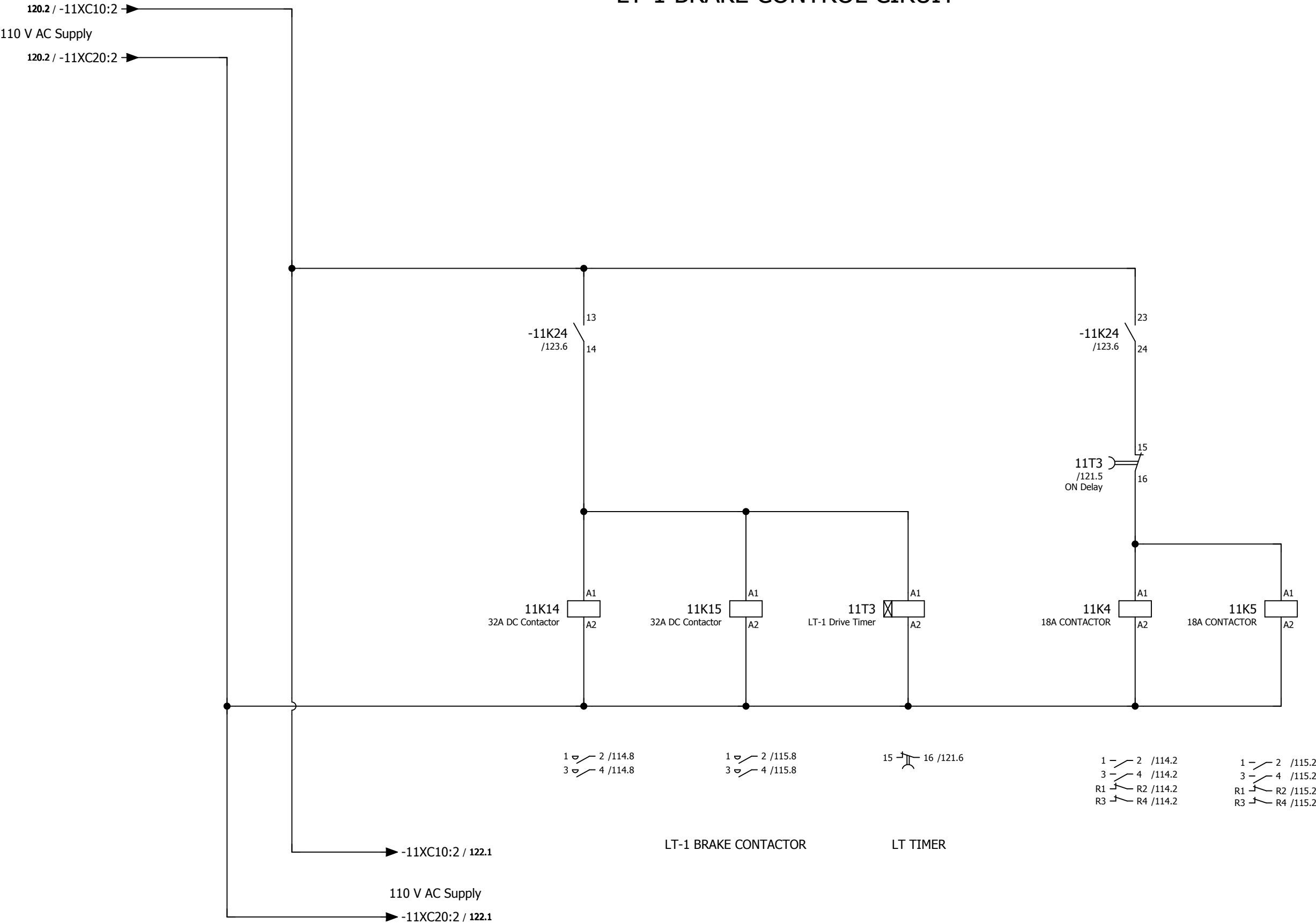




=E01 + B01

BRAKE SECTION

LT-1 BRAKE CONTROL CIRUIT

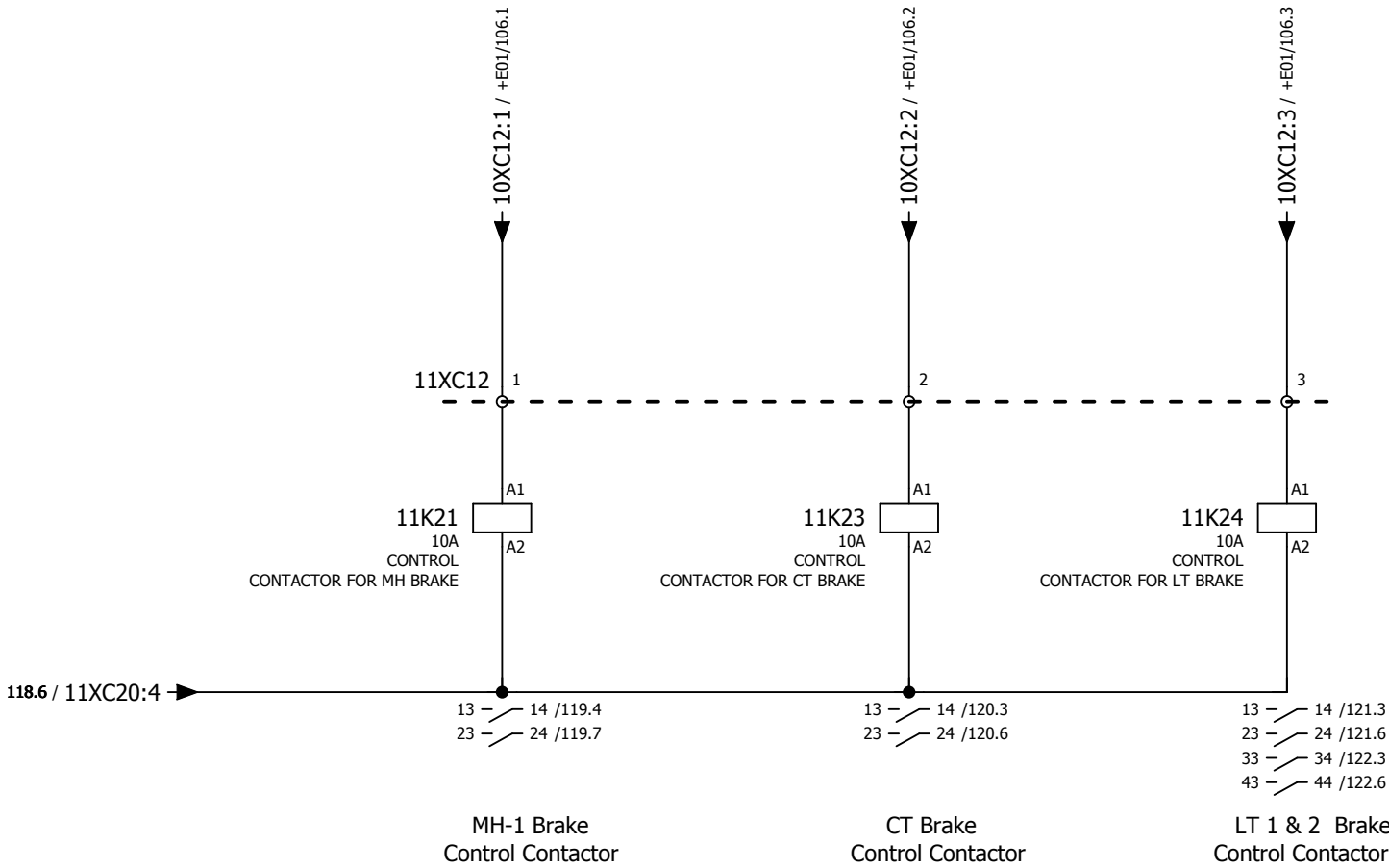




=E01 + B01

BRAKE SECTION

CONTROL CIRUIT



=E01 + OLR  
OLR SECTION

**Project name**

## Slab Handling Crane

## Classification

## Control Voltage

110V AC SUPPLY

**Job number**

1601263

## Application

EOT CRANE

### Remarks

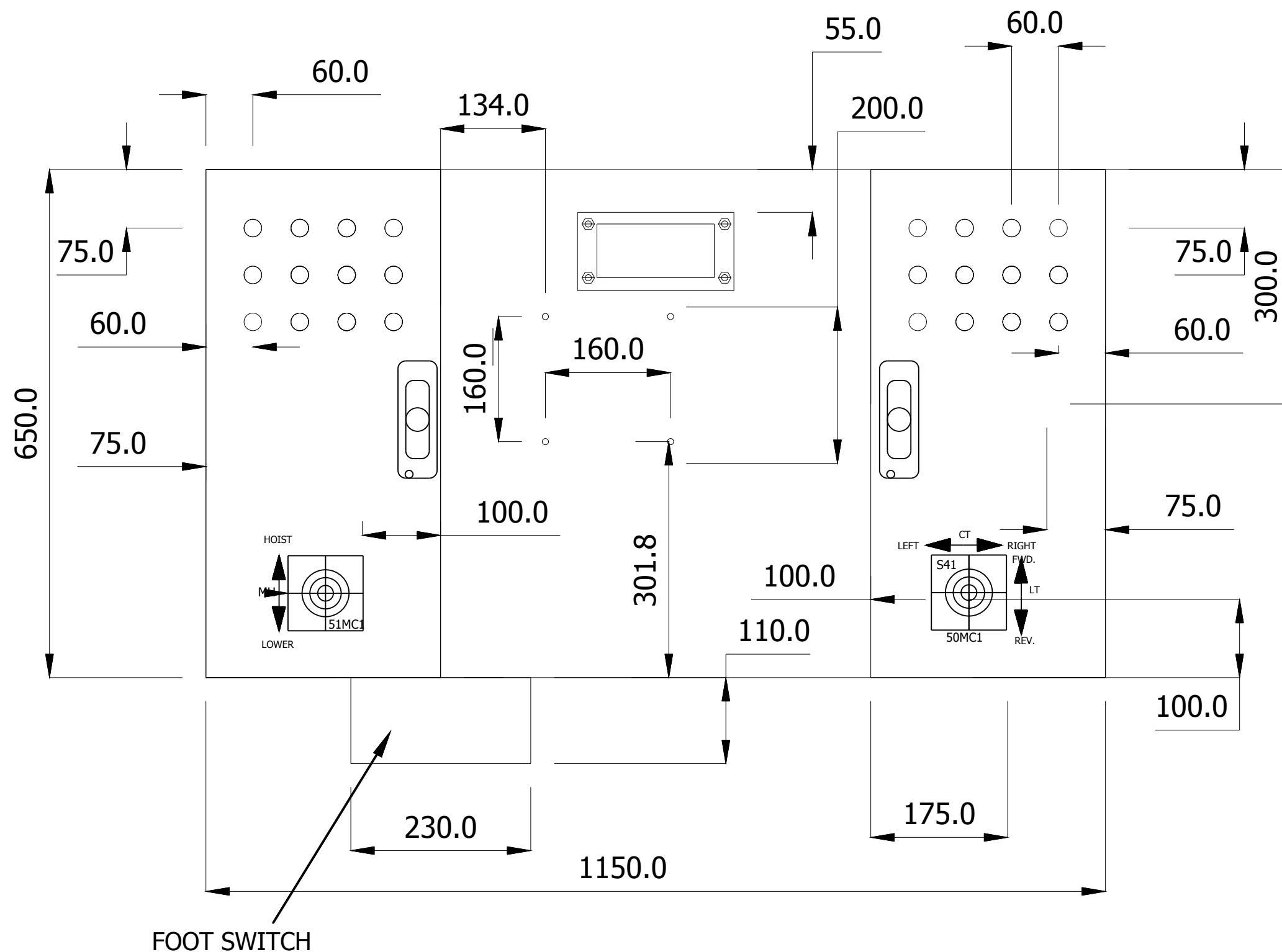
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|          |           |      | Date   |             | Client : JSW            |  | COVER PAGE | DRWG No : 1601263 | = E01 |             |
|          |           |      | Edit   | SIVA        |                         |   |            |                   | + OLR |             |
| REV-00   | 02-FEB-16 | SIVA | Chk by | MANIVASAGAN | Application : EOT CRANE |   |            |                   | Page  | 124         |
| Revision | Date      | Name | Appr   |             |                         |   |            |                   |       | No.of Pages |



|   |           |      |        |             |                         |   |   |   |                   |  |  |
|---|-----------|------|--------|-------------|-------------------------|---|---|---|-------------------|--|--|
| 0   | 1         | 2    | 3      | 4           | 5                       | 6 | 7   | 8 | 9                 |  |  |
| <div>=A01 + LH1</div> <div>ARMCHAIR(LHS)</div> <div>COVER PAGE</div>  |           |      |        |             |                         |   |   |   |                   |  |  |
| <div></div>   |           |      |        |             |                         |   |   |   |                   |  |  |
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| <div><div><div>Project name</div><div>Slab Handling Crane</div></div><div><div>Classification</div><div>GENERAL ARRANGEMENT</div></div><div><div>Control Voltage</div><div>110V AC SUPPLY</div></div></div> |           |      |        |             |                         |   |   |   |                   |  |  |
| <div><div><div>Job number</div><div>1601263</div></div><div><div>Application</div><div>EOT CRANE</div></div><div><div>Remarks</div><div></div></div></div>  |           |      |        |             |                         |   |   |   |                   |  |  |
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|   |           |      | Date   |             | Client : JSW            |   | <div><div>RSP</div><div>CONTROL PROJECTS (P) LTD.</div></div> |   | COVER PAGE        |  |  |
|   |           |      | Edit   | SIVA        | Application : EOT CRANE |   |   |   |                   |  |  |
| REV-00  | 02-FEB-16 | SIVA | Chk by | MANIVASAGAN |                         |   |   |   |                   |  |  |
| Revision  | Date      | Name | Appr   |             |                         |   |   |   | DRWG No : 1601263 | <div>= A01</div> <div>+ LH1</div>            |  |
|   |           |      |        |             |                         |   |   |   |                   | <div>Page126</div> <div>No.of Pages139</div> |  |

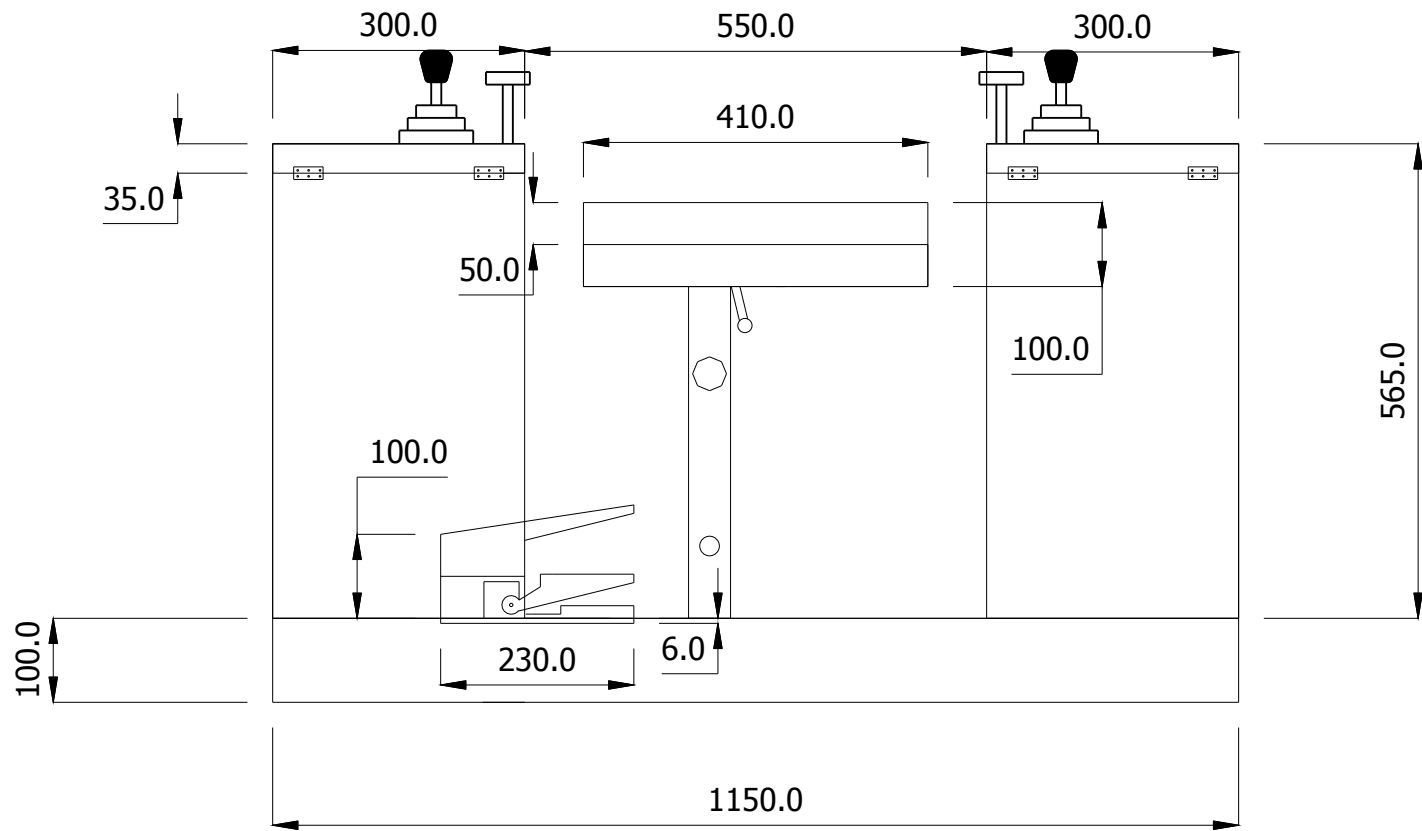
**ARMCHAIR(LHS)**

## TOP VIEW

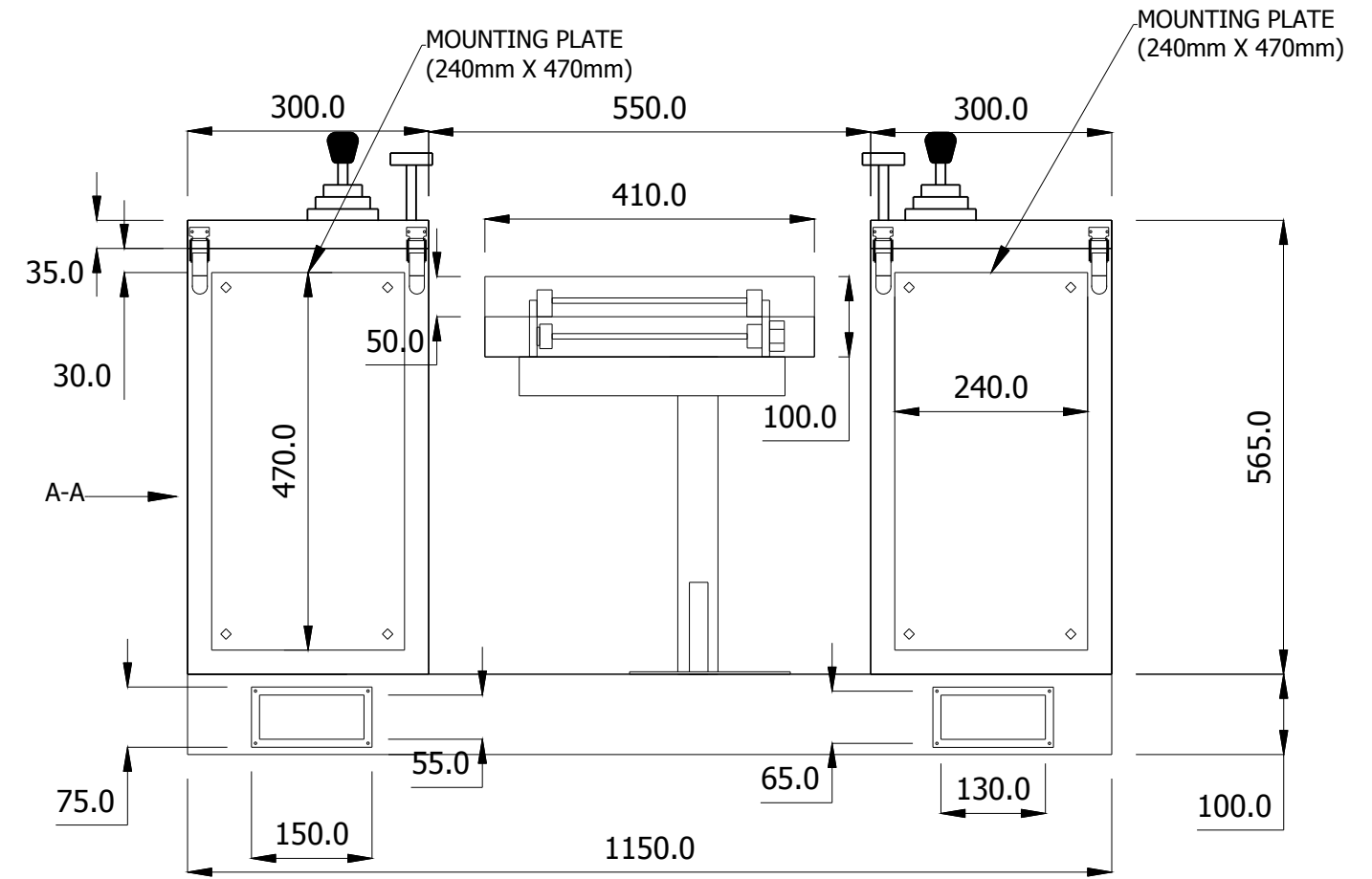


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|             |           |      | Edit   | SIVA        |              |   |                     |                   |  | + LH1           |          |
| REVISION-00 | 02-FEB-16 | SIVA | Chk by | MANIVASAGAN |              |   |                     |                   |  |                 | Page 127 |
| Revision    | Date      | Name | Appr   |             |              |  |                     |                   |  | No.of Pages 139 |          |

### FRONT VIEW



### REAR VIEW



|             |           |      |        |             |                         |   |                     |                   |                 |  |
|-------------|-----------|------|--------|-------------|-------------------------|---|---------------------|-------------------|-----------------|--|
|             |           |      | Date   |             | Client : JSW            |  | General Arrangement | DRWG No : 1601263 | = A01           |  |
|             |           |      | Edit   | SIVA        | Application : EOT CRANE |   |                     |                   | + LH1           |  |
| REVISION-00 | 02-FEB-16 | SIVA | Chk by | MANIVASAGAN |                         |   |                     |                   | Page 128        |  |
| Revision    | Date      | Name | Appr   |             |                         |   |                     |                   | No.of Pages 139 |  |

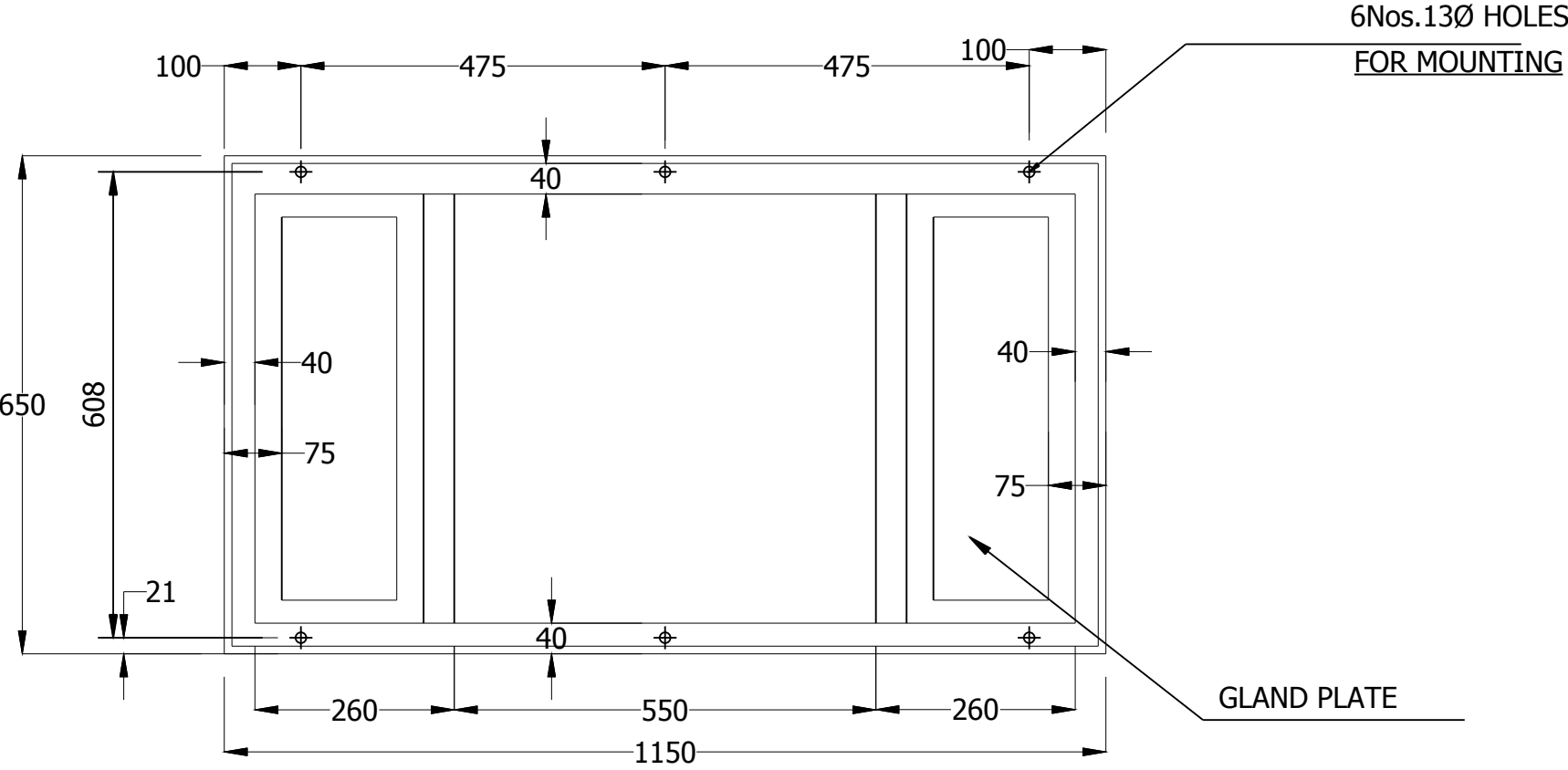


|  |           |      |        |             |   |   |   |       |                 |
|--|-----------|------|--------|-------------|---|---|---|-------|-----------------|
| 0  | 1         | 2    | 3      | 4           | 5   | 6   | 7 | 8     | 9               |
| <div> <div>=A01 + LH1</div> <div>ARMCHAIR(LHS)</div> <div>SIDE VIEW</div> </div> |           |      |        |             |   |   |   |       |                 |
| <div> </div>   |           |      |        |             |   |   |   |       |                 |
| <div> <div>▲</div> <div>SIDE VIEW WITHOUT DOOR</div> </div>                      |           |      |        |             |   |   |   |       |                 |
|  |           |      | Date   |             | <div> <div>Client : JSW</div> <div>Application : EOT CRANE</div> </div> | <div> <div>General Arrangement</div> <div> <div>DRWG No : 1601263</div> <div></div> </div> </div> |   | = A01 |                 |
|  |           |      | Edit   | SIVA        |   |   |   | + LH1 |                 |
| REVISION-00  | 02-FEB-16 | SIVA | Chk by | MANIVASAGAN |   |   |   |       | Page 129        |
| Revision   | Date      | Name | Appr   |             |   |   |   |       | No.of Pages 139 |

=A01 + LH1

ARMCHAIR(LHS)

FIXING PLAN

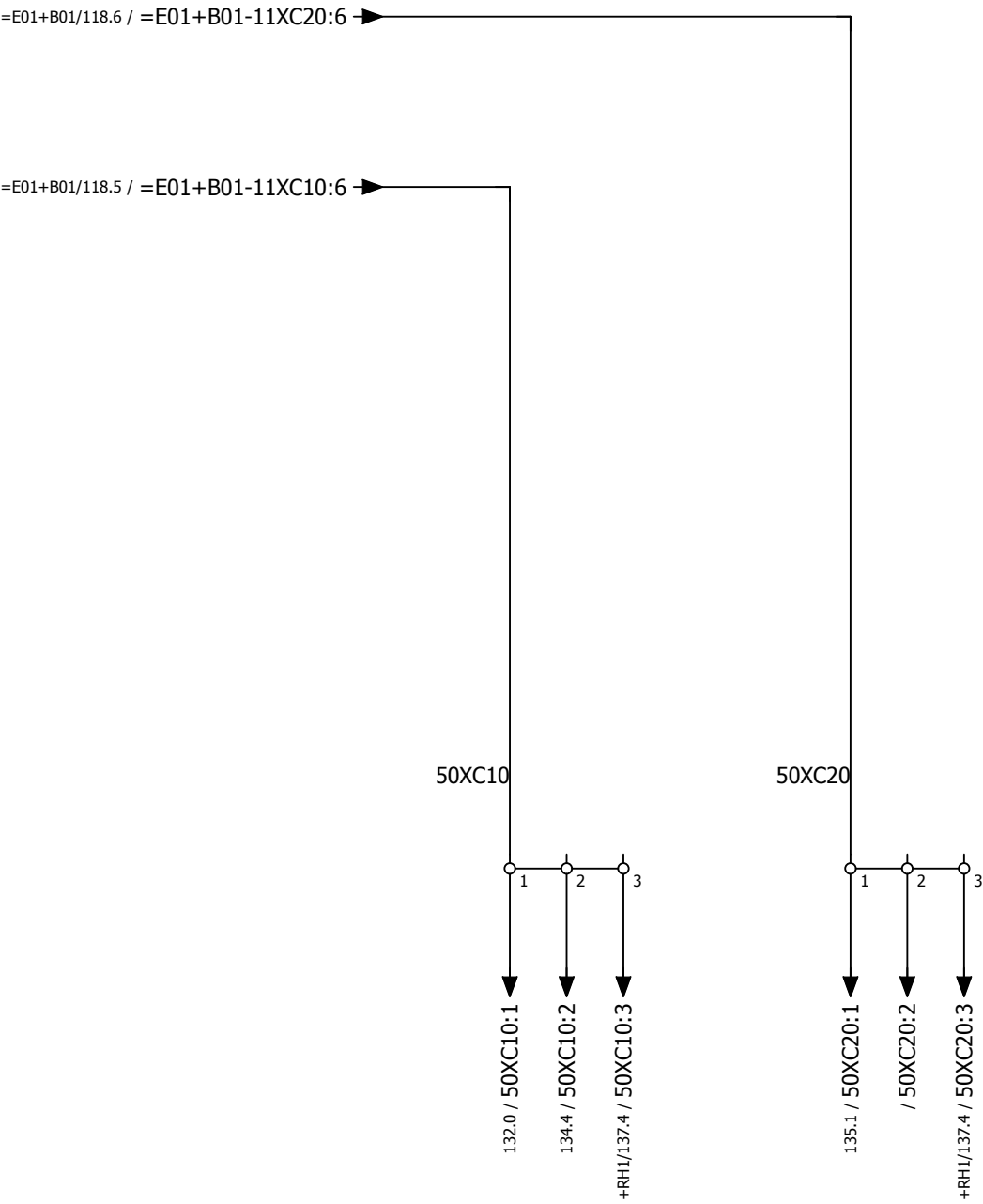


- NOTE;
- 1. ARM CHAIR CONTROL DESK SHALL BE MADE OF 2MM THK. SHEET STEEL.
  - 2. ARM CHAIR CONTROL DESK SHALL BE FIXED TYPE, & REMOVABLE BOTH OUTER WALL ( SIDE COVER ) OF THE DESK.
  - 3. CHAIR SHALL BE FOLDING TYPE.
  - 4. PAINTING SHALL BE RAL - 7035.
  - 5. MINOR RE-ORIENTATION OF EQUIPMENTS. IF ANY.REQUIRED DURING MFG. SHALL BE CARRIED OUT FOR BETTER MAINTENANCE ACCESSIBILITY
  - 6. ALL DIMENSIONS ARE IN MM
  - 7. OPERATING CHAIR SHALL BE ADJUSTABLE TO & FRO 135MM. (MAX.) &VERTICAL 65MM.(MAX.)
  - 8. DEGREE OF PROTECTION SHALL BE AS PER IP-54
  - 9. DIEMENSIONAL TOLERANCE  $\pm 5$  MM, EXCEPT FIXING.

=A01 + LH1

ARMCHAIR(LHS)

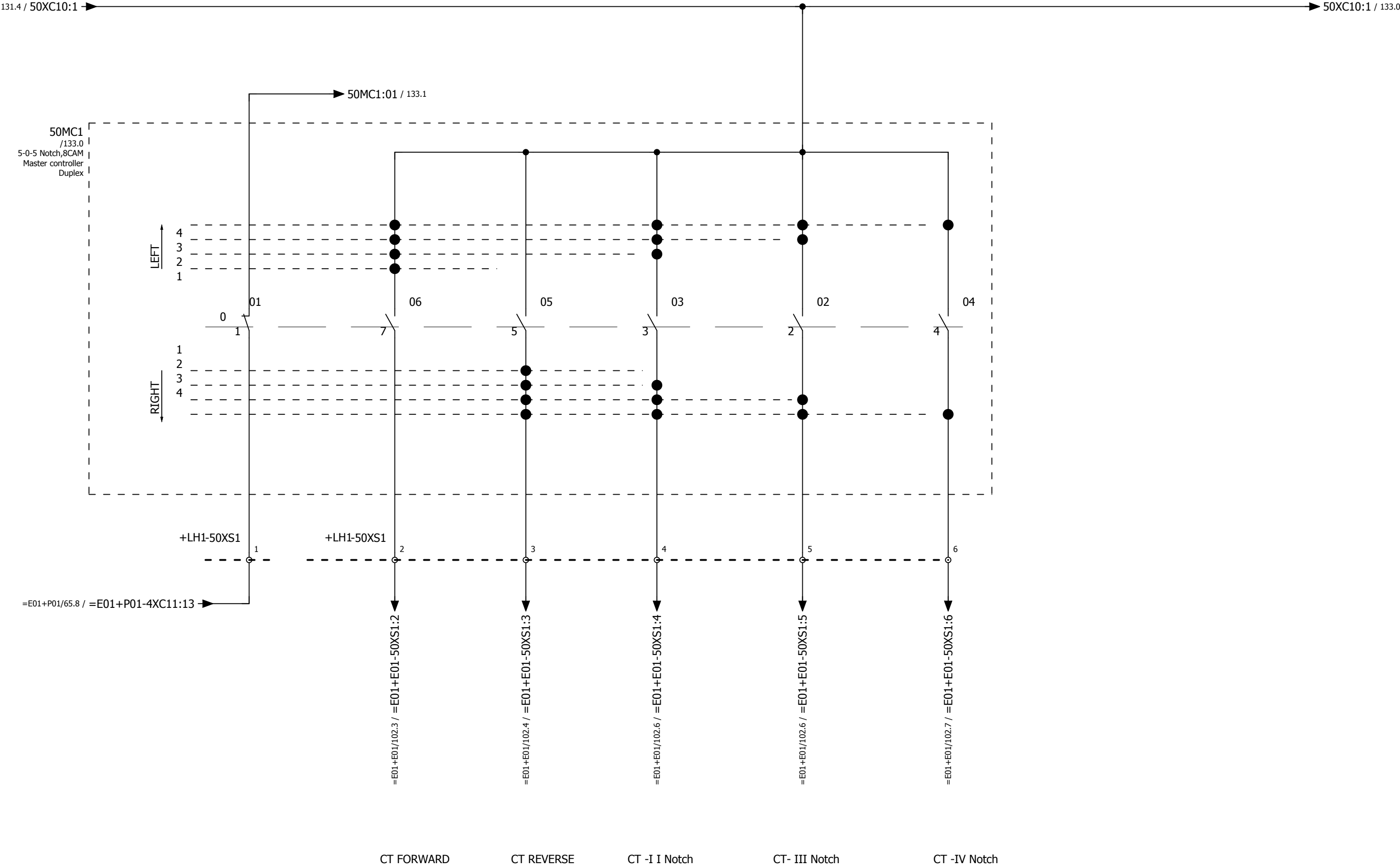
110V AC SUPPLY DISTRIBUTION



=A01 + LH1

# ARMCHAIR(LHS)

## MASTER CONTROLLER FOR CT



|          |           |      |        |             |   |   |                          |                   |  |       |                 |
|----------|-----------|------|--------|-------------|---|---|--------------------------|-------------------|--|-------|-----------------|
|          |           |      | Date   |             | Client : JSW<br>Application : EOT CRANE |  | Master Controller For CT | DRWG No : 1601263 |  | = A01 |                 |
|          |           |      | Edit   | SIVA        |   |   |                          |                   |  | + LH1 |                 |
| REV-00   | 02-FEB-16 | SIVA | Chk by | MANIVASAGAN |   |   |                          |                   |  |       | Page 132        |
| Revision | Date      | Name | Appr   |             |   |   |                          |                   |  |       | No.of Pages 139 |

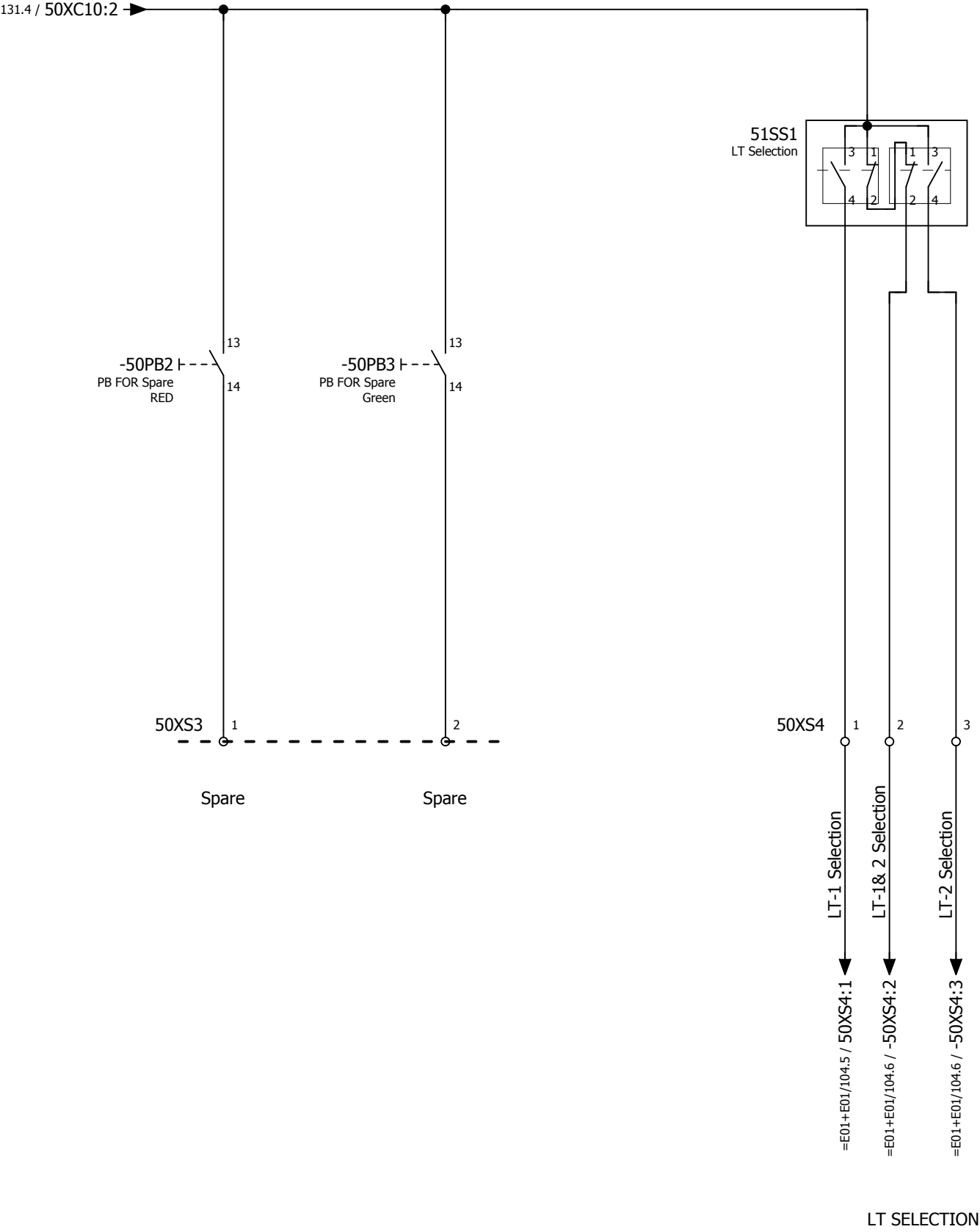


|   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|

=A01 + LH1

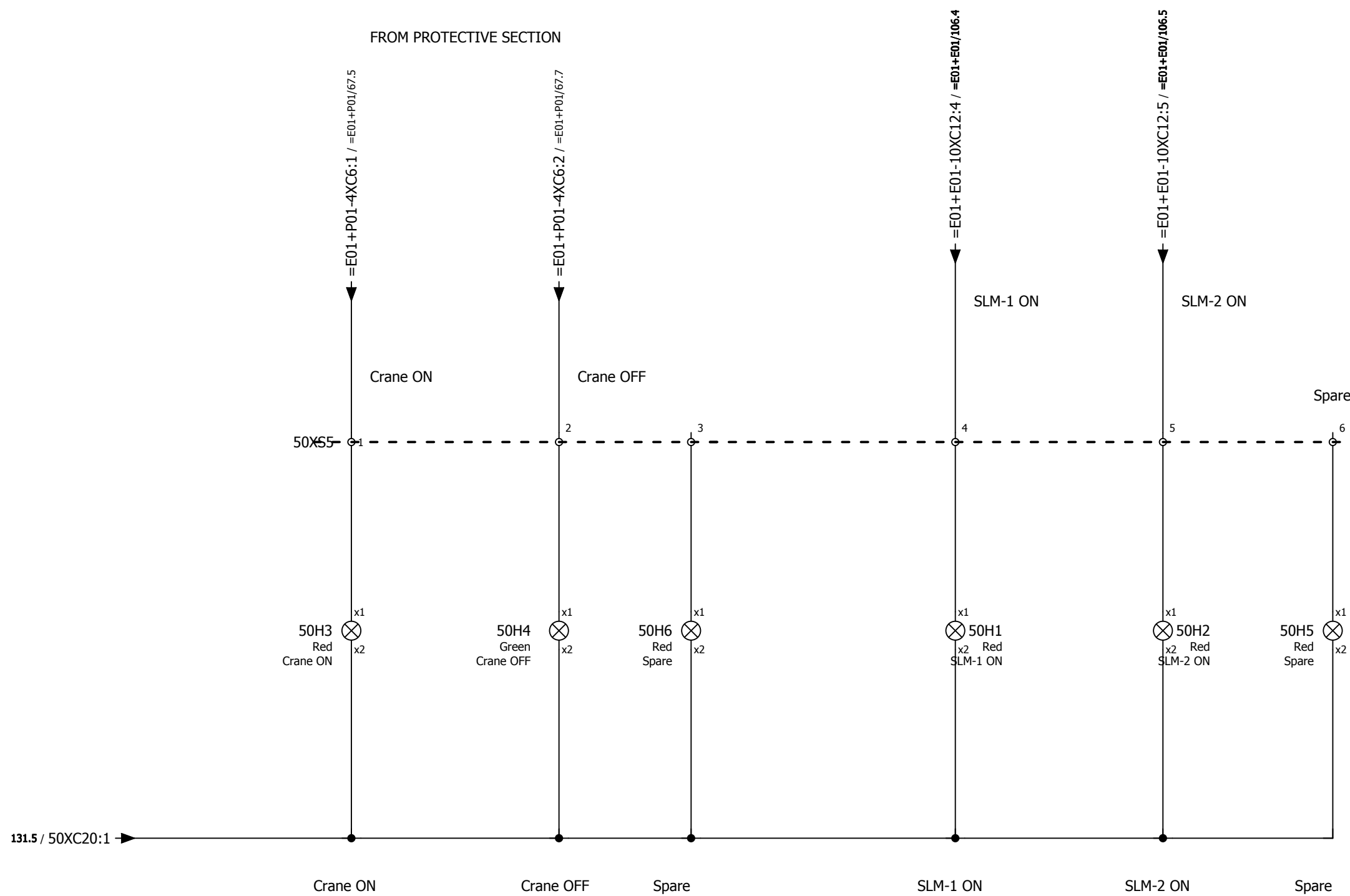
ARMCHAIR(LHS)

PUSH BUTTONS



$$=A01 + LH1$$

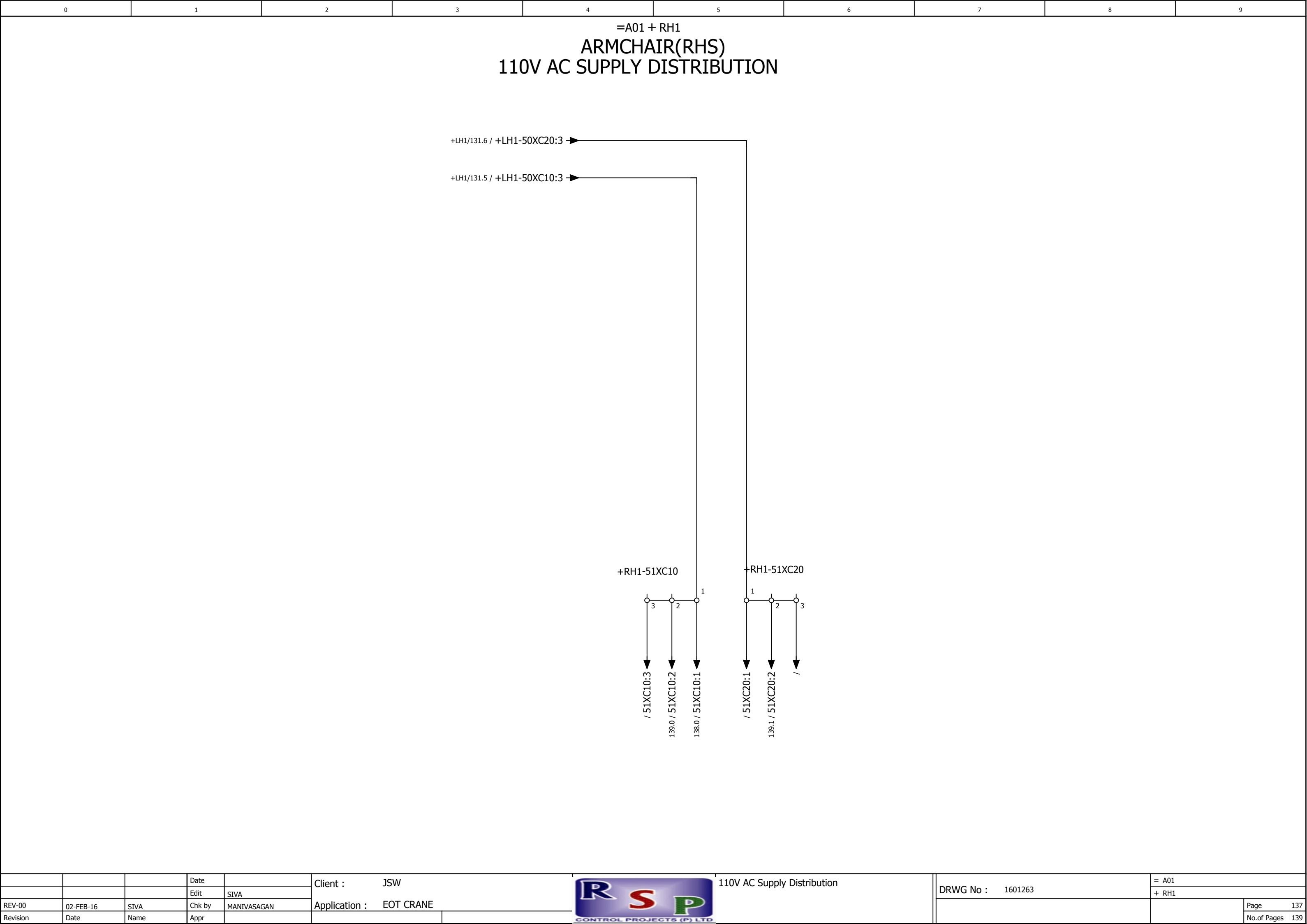
## ARMCHAIR(LHS) INDICATION LAMPS



|          |           |      |        |             |              |   |                 |                         |       |          |
|----------|-----------|------|--------|-------------|--------------|---|-----------------|-------------------------|-------|----------|
|          |           |      | Date   |             | Client : JSW |  | Indication Lamp | = A01                   |       |          |
|          |           |      | Edit   | SIVA        |              |   |                 | DRWG No : 1601263       | + LH1 |          |
| REV-00   | 02-FEB-16 | SIVA | Chk by | MANIVASAGAN |              |   |                 | Application : EOT CRANE |       | Page 135 |
| Revision | Date      | Name | Appr   |             |              |   |                 | No.of Pages 139         |       |          |







=A01 + RH1

# ARMCHAIR(RHS)

## MASTER CONTROLLER FOR MH

