

RSP CONTROL PROJECTS PVT.LTD., PLOT NO:222/223,WOMEN'S INDUSTRIAL PARK, THIRUMULLAIVAYOL CHENNAI-600062

Customer JSW-BELLARY

Project name SMS - 1

Application SEMI PORTAL CRANE

Job Sl.Number 1301146

Commissioning RSP CONTROL PROJECTS PVT.LTD.,

Manufacturer (company) RSP CONTROL PROJECTS PVT.LTD.,

Make ------

Type INDOOR

Supply Voltage 415V AC SUPPLY
Control Voltage 110V AC SUPPLY

Place of installation BELLARY

Part Feature SINAMICS S120 , PLC S7 - 300

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#### **DESIGN INSTRUCTION**

ALL DIMENSIONS ARE I				
PANEL IS FLOOR MOUN	TING TYPE	INCOMING SUPPLY	415V AC	
MENSION DETAILS  E-ROOM:  MAKE REPUTED  HEIGHT 2300 mm(EXTERNAL) / 2100 mm(INTERNAL)  WIDTH 1700 mm(EXTERNAL) / 1550 mm(INTERNAL)  DEPTH 6100 mm(EXTERNAL) / 5950 mm(INTERNAL)		POWER CABLES  CONTROL CABLES  CONTROL VOLTAGE INCOMING SUPPLY CABLE  IP CLASS PART FEATURES	4 SQ MM BLACK 2.5 SQ MM GRAY 110V AC SUPPLY  IP41 SINAMICS S120	
MOUNTING PLATE: MAKE HEIGHT WIDTH DEPTH THICKNESS MOUNTING PLATE		EARTH BUS STRIP TO BE PROVIDED AS SHROUDING TO BE PROVIDED AS PER		

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 SEMI PORTAL CRANE

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DESIGN INSTRUCTION

S.NO	MOTOR ITEMS	DESCRIPTION	TYPE NUMBER	QTY
1.	MAIN HOIST MOTOR	The 1SE0 284-6YA80, 69kW at S3-60% CDF, 6P,	1SE0 284-6YA80-Z	1
		Frame-280M, VPI & Dual Coat / Suitable for Inverter	Z=A14+K16+K26+K35+CDM +N09+VPI+L27+G56	
		Application, Insulated Bearing, 3 PTC for Trip, Epoxy		
		Paint, Standard Double Shaft Extension, HOG Encoder		
		mounting Facility, Insulation Class / Utilization - H/F,		
		Motor Amp = 120A. Terminal Box: TOP		
2.	CT MOTOR	The 1SE0 163-6YC80, 9 kW at S3-60% CDF, 6P,	1SE0 163-6YC80-Z	1
		Frame-160M, VPI & Dual Coat / Suitable for Inverter	Z=A14+K16+K26+K35+CDM +N09+IGT+G56	
		Application, 3 PTC for Trip, Epoxy Paint, Insulation		
		Class / Utilization - F/B, S1 Motor Amp = 18A.		
		Terminal Box: TOP		
3.	LT MOTOR	The 1SE0 223-6YA80, 37 kW at S3-60% CDF, 6P,	1SE0 223-6YA80-Z Z=A14+K16+K26+K35+CDM	2
		Frame-225M, VPI & Dual Coat / Suitable for Inverter	+N09+VPI+G56	
		Application, 3 PTC for Trip, Epoxy Paint, Insulation Class		
		/ Utilization - F/B, S1 Motor Amp = 69A. Terminal Box: TOP		

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RSP

MOTOR DETAILS

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Control voltage 110V AC SUPPLY

Job number 1301146

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Plant Designation

Classification GENERAL ARRANGEMENT

Control voltage 110V AC SUPPLY

Job number 1301146

**Application** SEMI PORTAL CRANE

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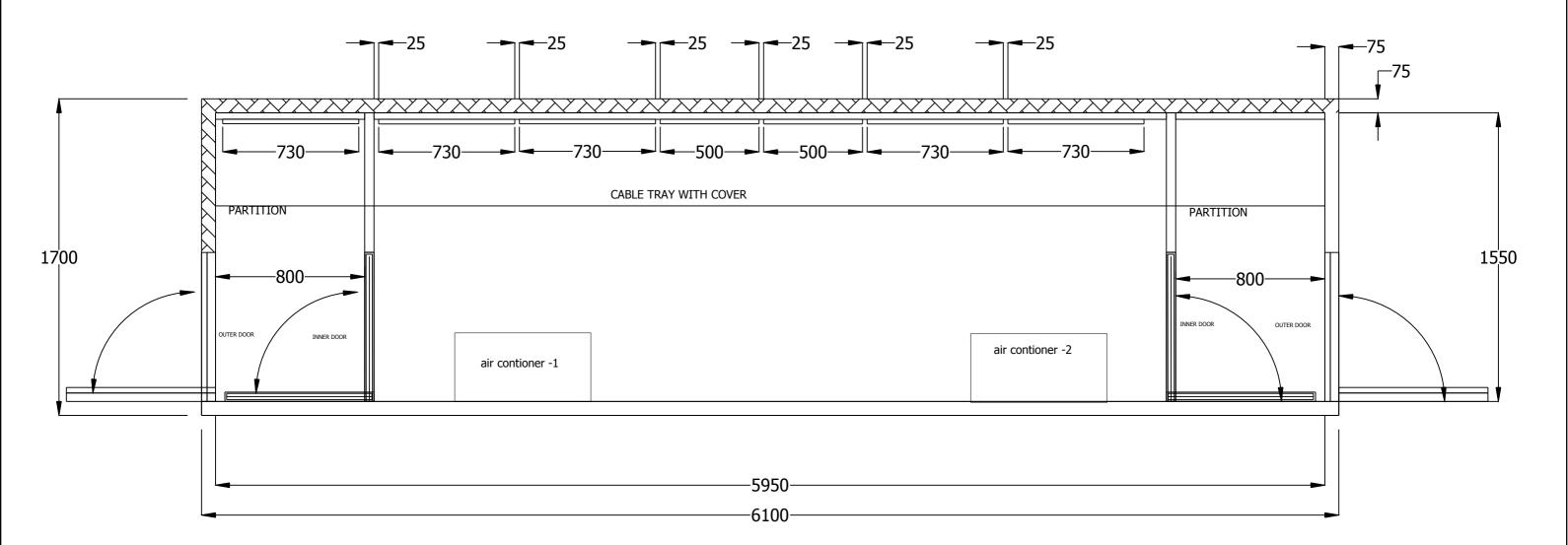


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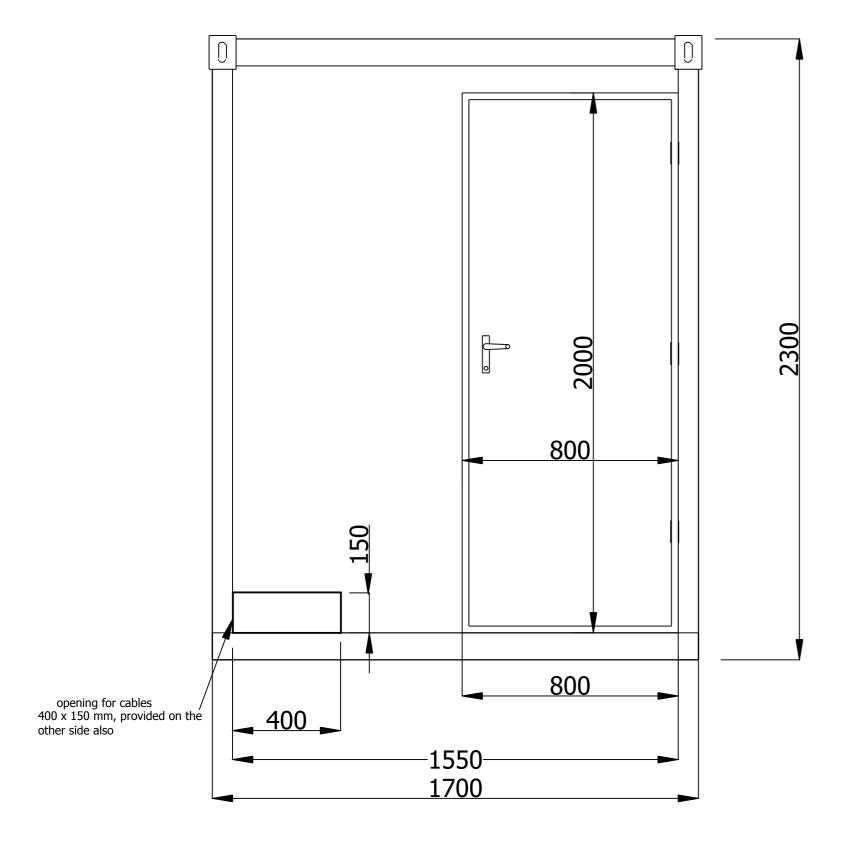


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## **FRONT VIEW**



Replacement of

NOTE:

CABLE OPENING 400 X 150mm

"C" CHANNEL FOR FIXING THE MOUNTING PLATES [35 X 40 X 35 ]mm ROOF SHOULD BE STRENGTHEN TO WITHSTAND THE LOAD OF A/C COMPRESSOR

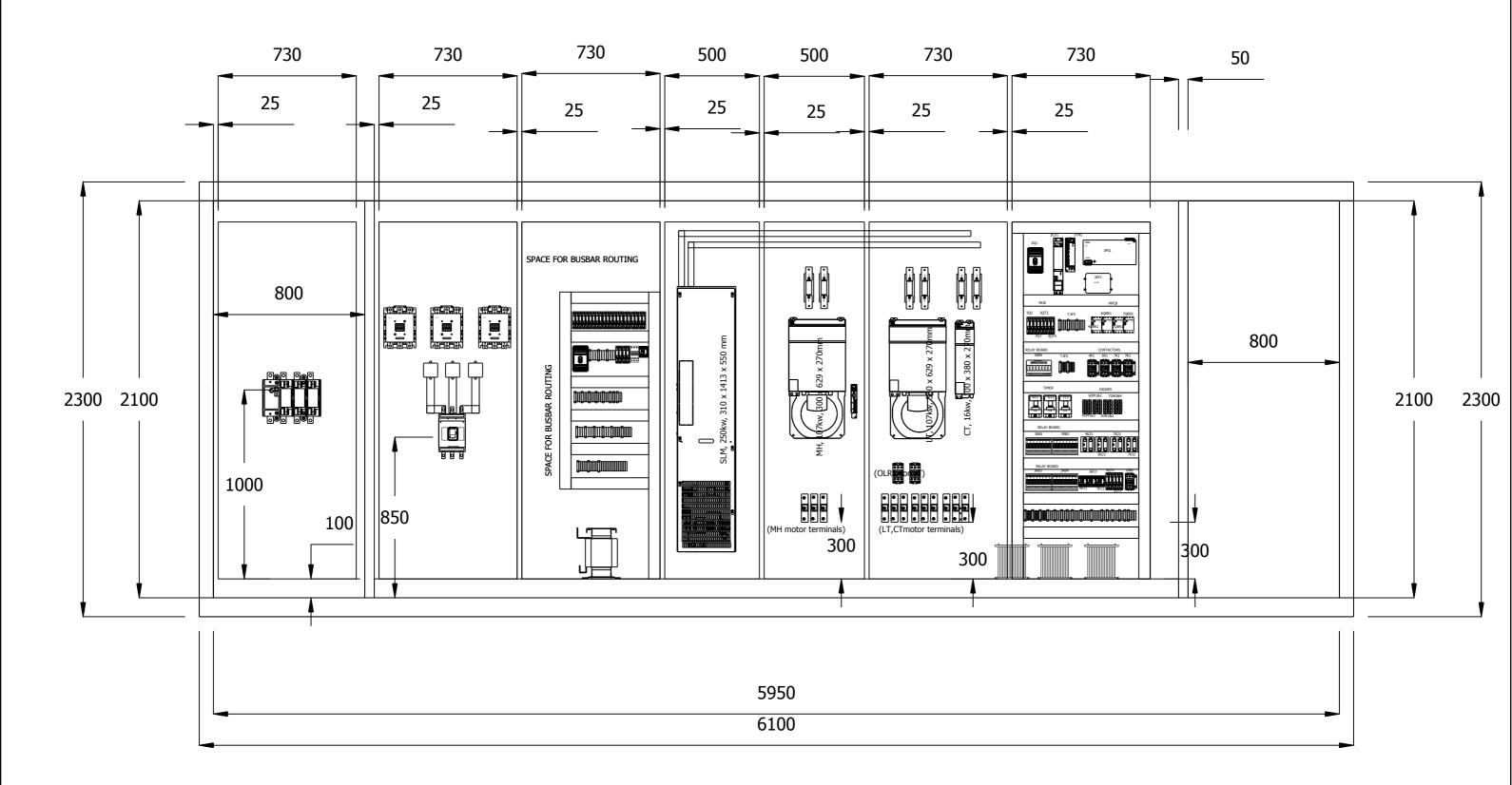
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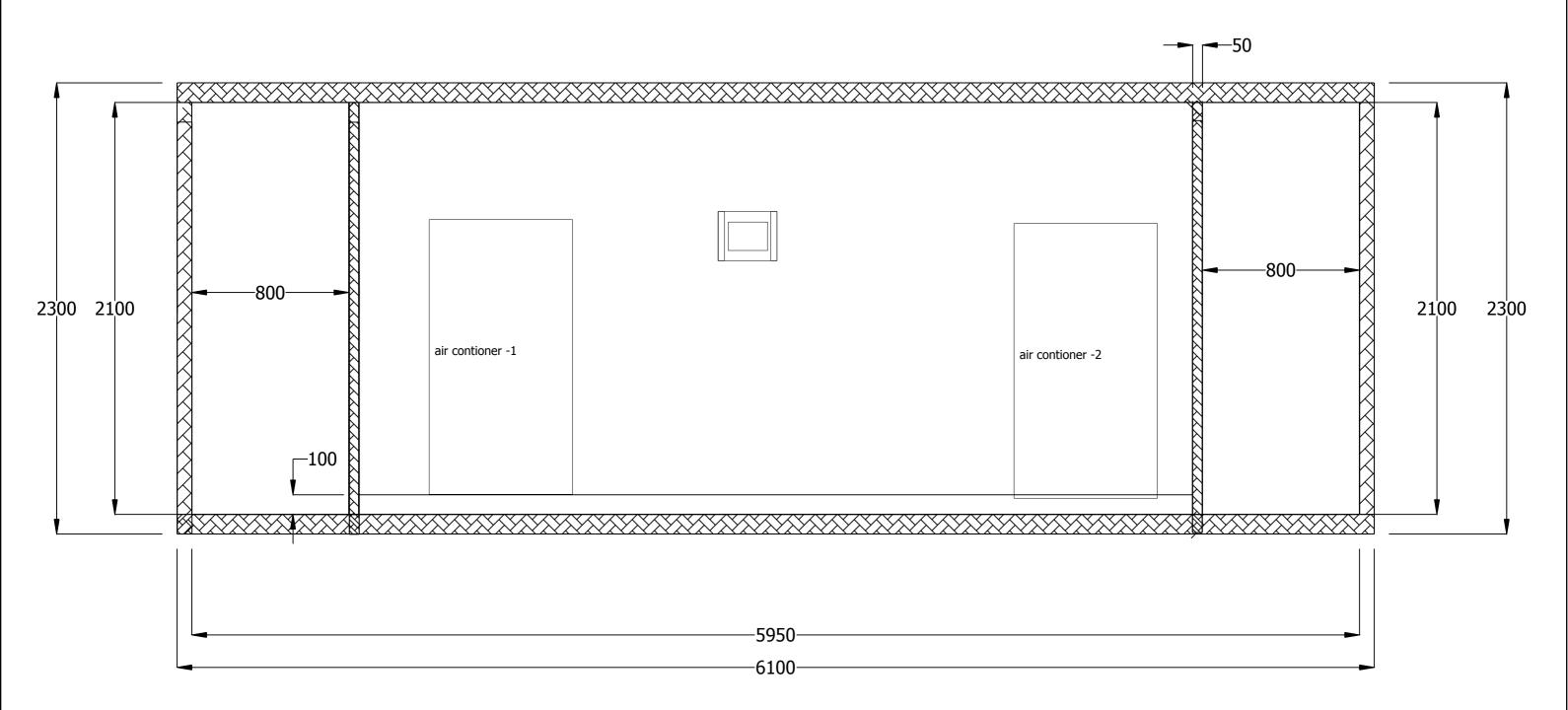
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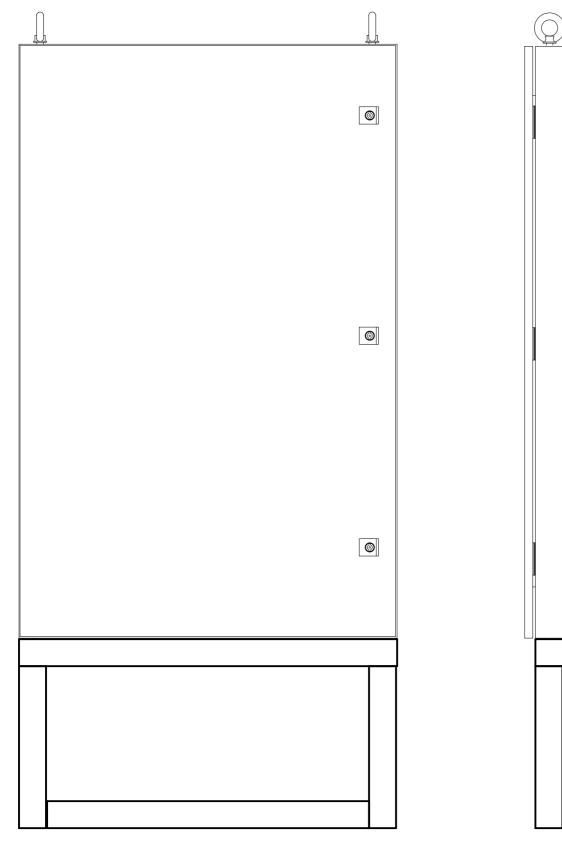


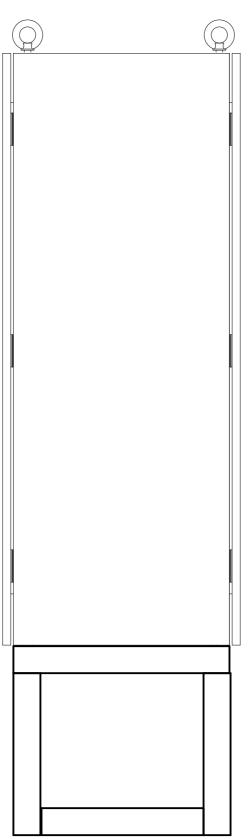
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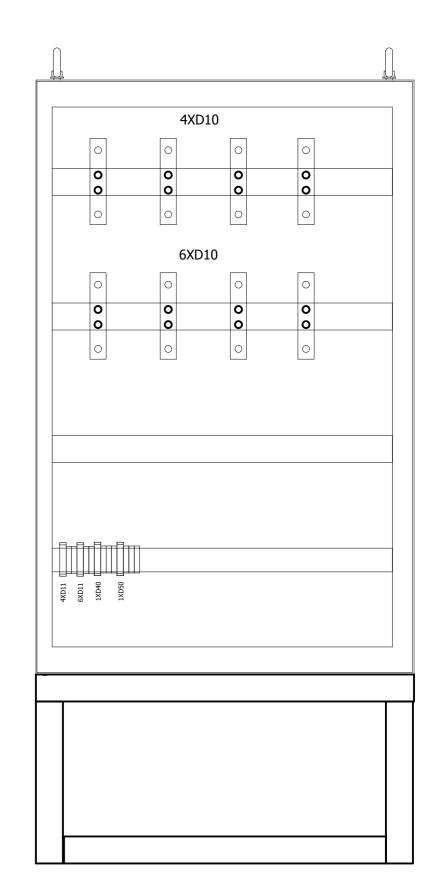
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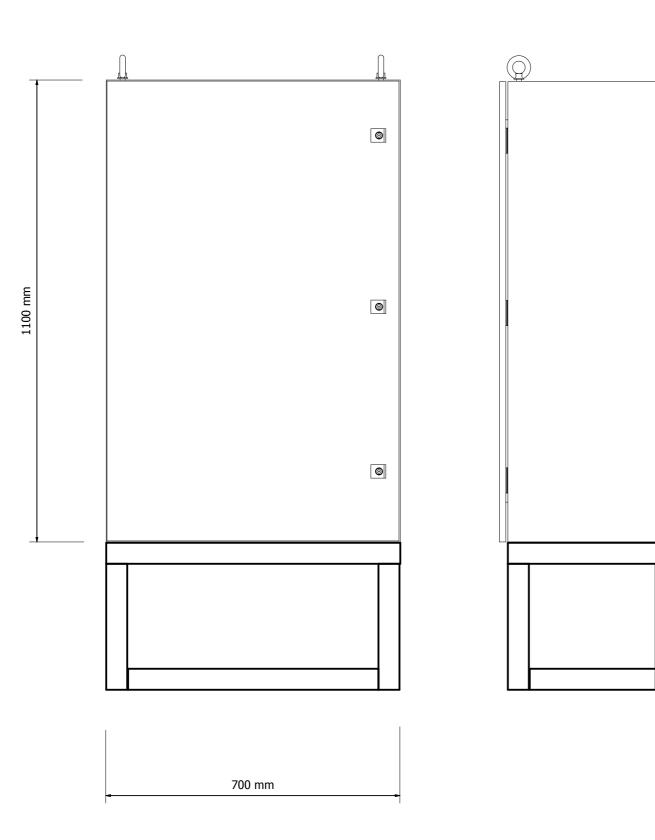
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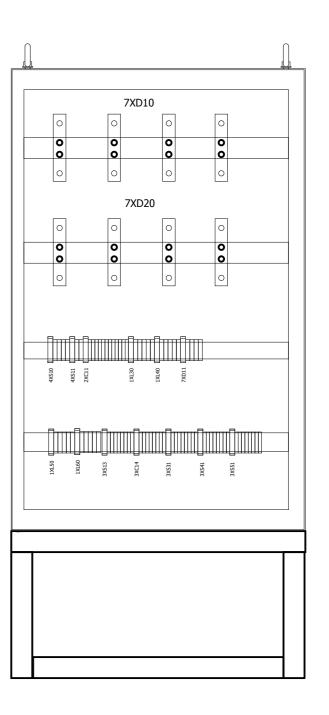
SEMI PORTAL CRANE

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# JUNCTION BOX - 3 & 4 (For Arm chair)





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**Plant Designation** 

Classification SINGLE LINE DIAGRAM

Control voltage 110V AC SUPPLY

Job number 1301146

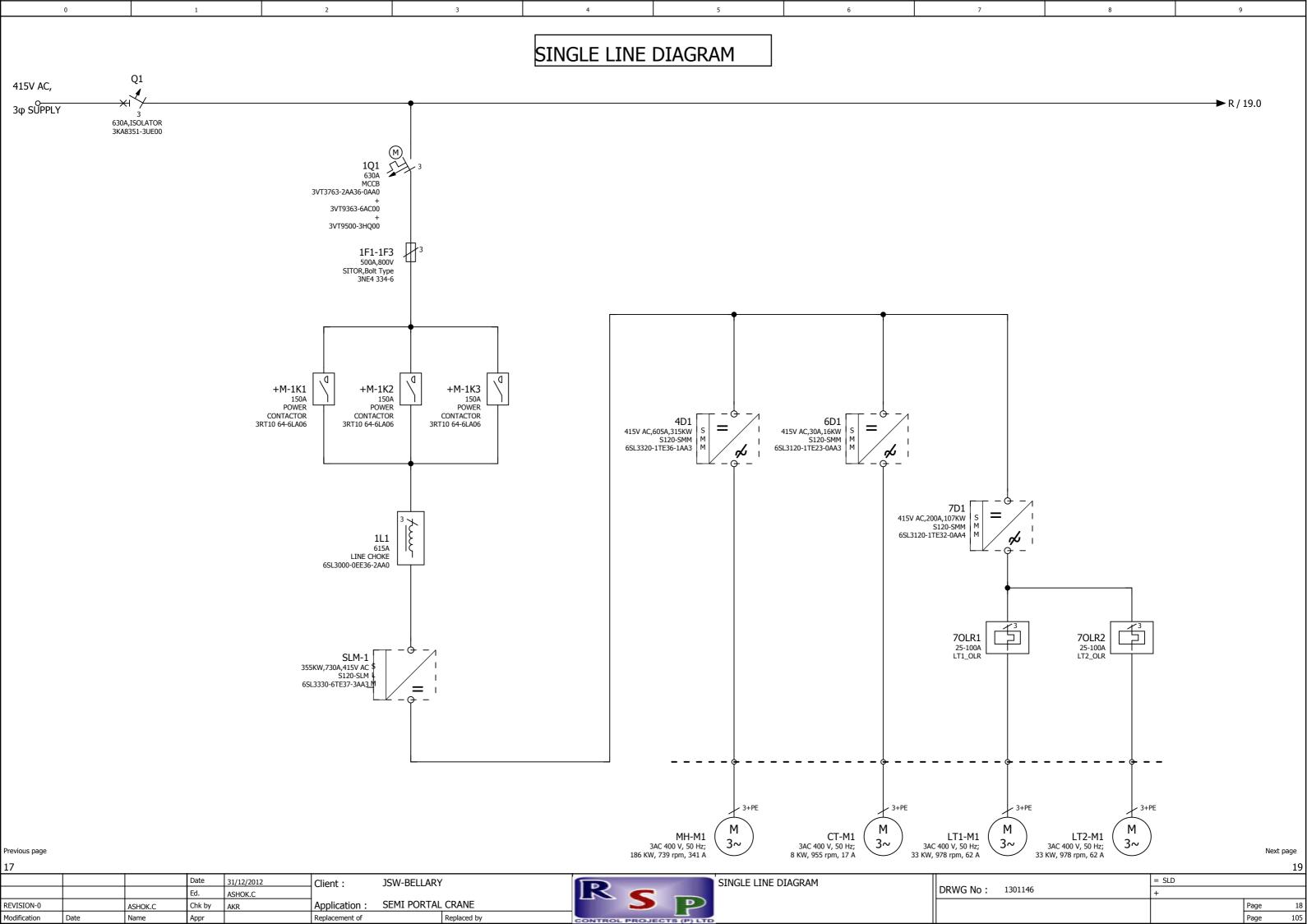
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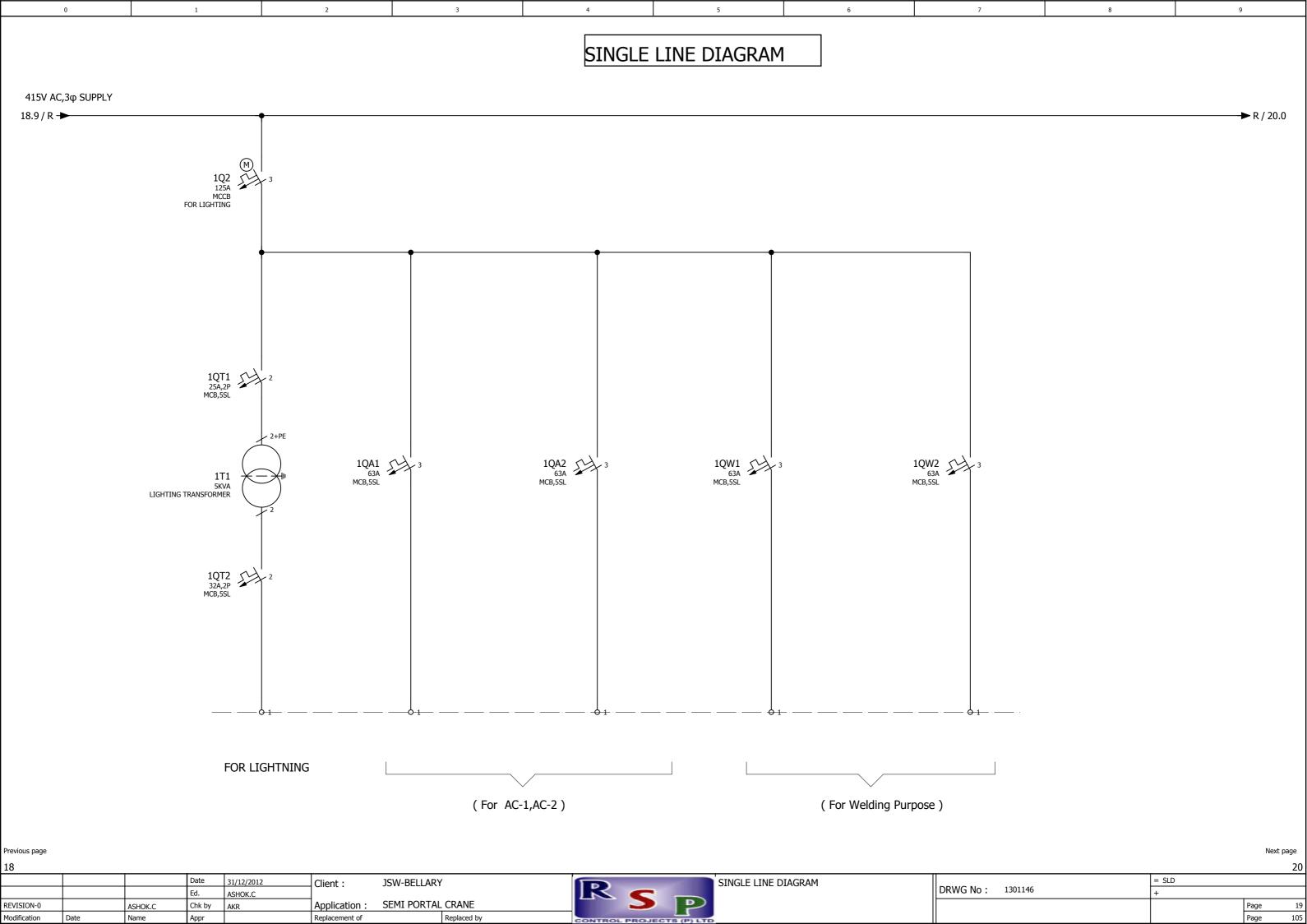
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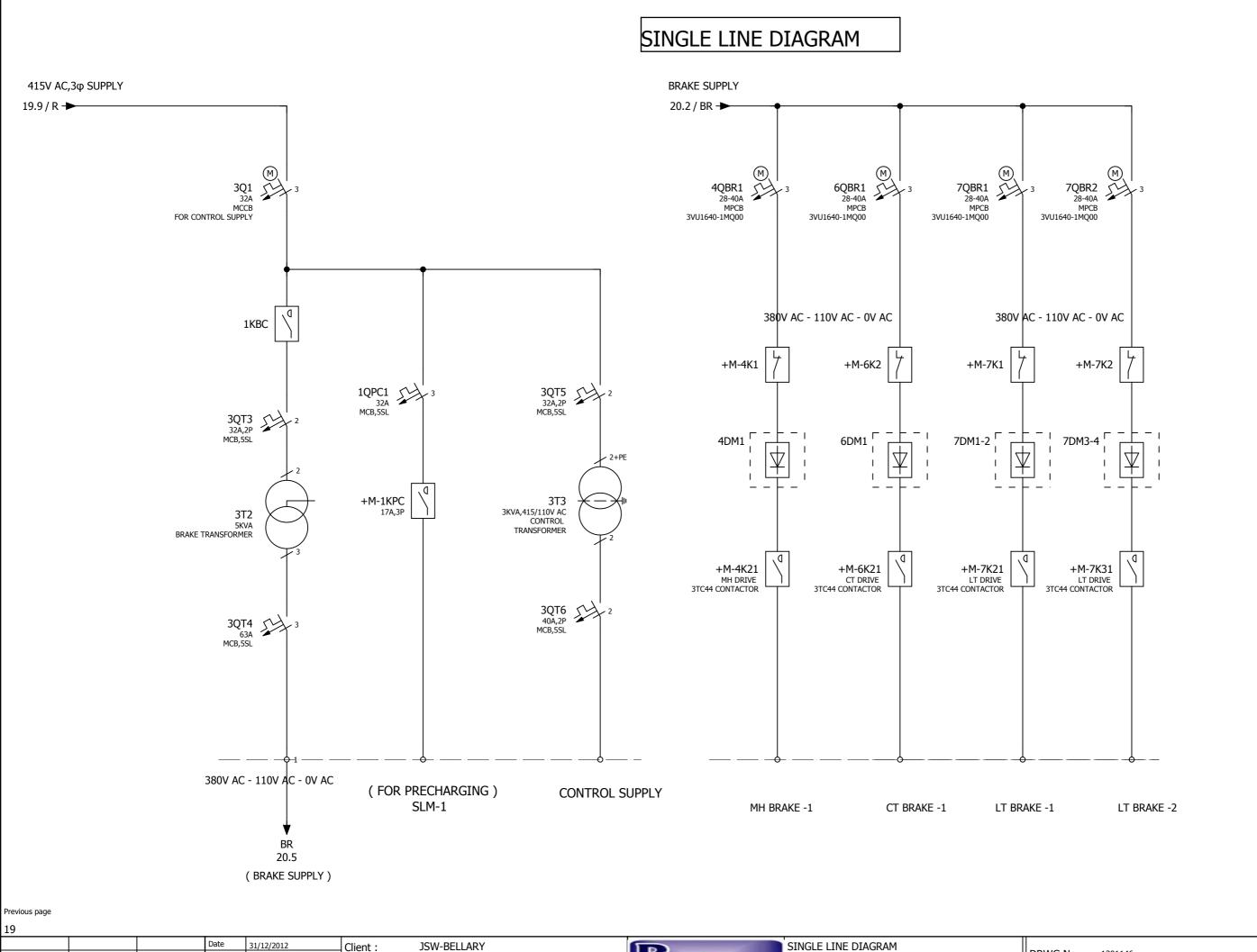
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Project name SMS - 1

Plant Designation

Classification COMMUNICATION OVERVIEW

Control voltage 110V AC SUPPLY

Job number 1301146

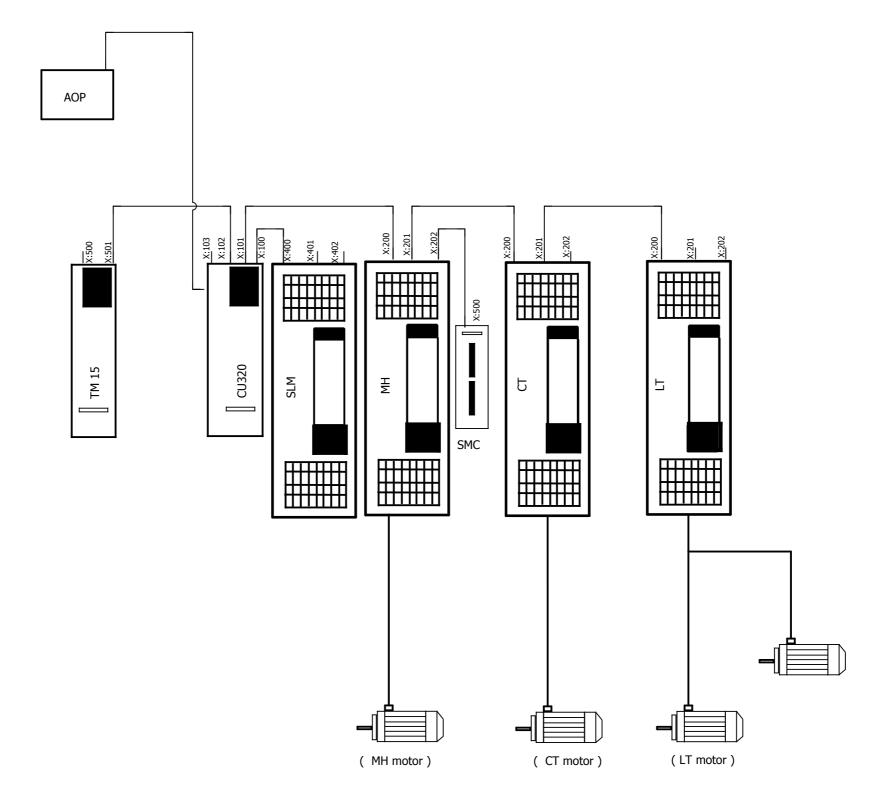
**Application** SEMI PORTAL CRANE

Remarks

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OVERVIEW OF DRIVE CLIQ SYSTEM



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Project name SMS - 1

**Plant Designation** ISOLATOR SECTION

Classification GENERAL ARRANGRMENT

Control voltage 110V AC SUPPLY

Job number 1301146

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SEMI PORTAL CRANE

**Application** SEMI PORTAL CRANE

Remarks

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REVISION-0

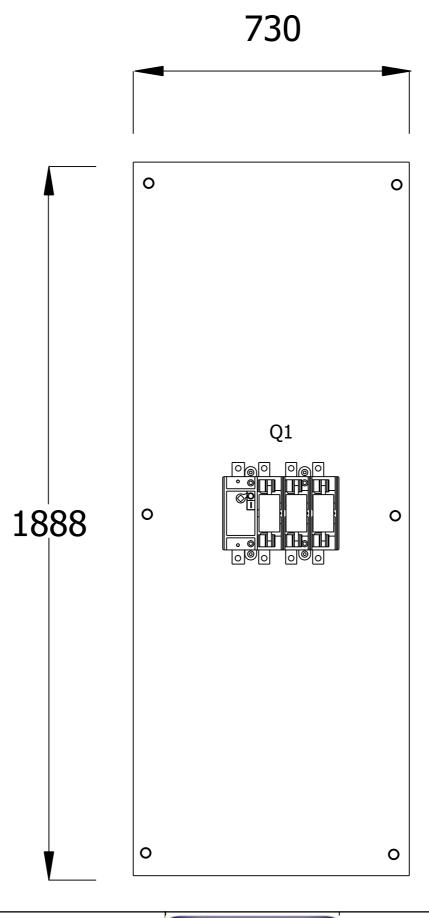
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DRWG No: 1301146

+ A

## **ISOLATOR PANEL**



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JSW-BELLARY GENERAL ARRANGEMENT 31/12/2012 Client : DRWG No: 1301146 + A ASHOK.C SEMI PORTAL CRANE REVISION-0 Chk by Application: ASHOK.C AKR Modification

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Project name SMS - 1

Plant Designation ISOLATOR SECTION

**Classification** PART LIST

Control voltage 110V AC SUPPLY

Job number 1301146

**Application** SEMI PORTAL CRANE

Remarks

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### Parts list

Device Designation Schematic / position	Quantity	DESCRIPTION	PART NUMBER	MANUFACTURER	FUNCTION TEXT
+D-Q1 +D/26.1	1	630A,ISOLATOR	3KA8351-3UE00	SIEMENS	

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31/12/2012 JSW-BELLARY PART LIST Client : DRWG No: 1301146 + P ASHOK.C SEMI PORTAL CRANE REVISION-0 Chk by Application: ASHOK.C AKR

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Project name SMS - 1

Plant Designation ISOLATOR SECTION

Classification THREE LINE DIAGRAM

Control voltage 110V AC SUPPLY

Job number 1301146

**Application** SEMI PORTAL CRANE

Remarks

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### INCOMING SUPPLY



415VAC,3Ph SUPPLY

CLIENT SCOPE

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**Plant Designation** PROTECTIVE SECTION

Classification GENERAL ARRANGEMENT

Control voltage 110V AC SUPPLY

Job number 1301146

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SEMI PORTAL CRANE

**Application** SEMI PORTAL CRANE

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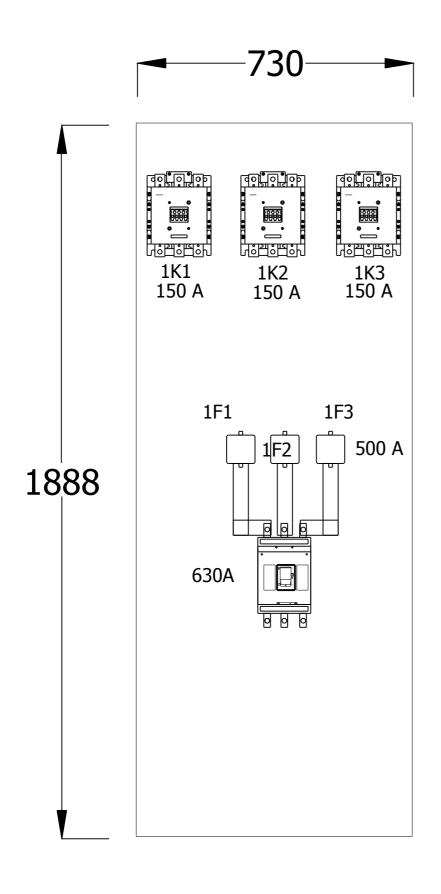


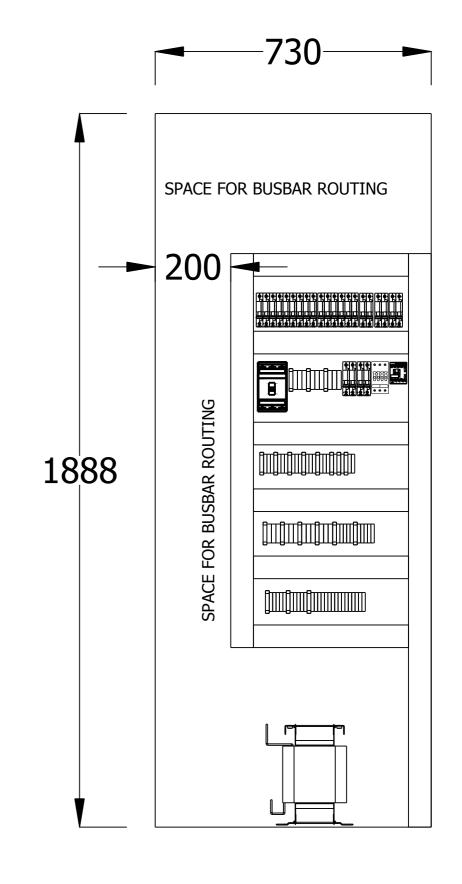
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**INCOMER SECTION** 

# **PROTECTIVE SECTION**





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GENERAL ARRANGEMENT

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Project name SMS - 1

Plant Designation PROTECTIVE SECTION

**Classification** PART LIST

Control voltage 110V AC SUPPLY

Job number 1301146

**Application** SEMI PORTAL CRANE

Remarks

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## Parts list

Device Designation Schematic / position	Quantity	DESCRIPTION	PART NUMBER	MANUFACTURER	FUNCTION TEXT
+D-1F1 +D/33.3	1	500A,SITOR FUSE	3NE4 334-6	SIEMENS	SITOR,Bolt Type
+D-1F2 +D/33.4	1	500A,SITOR FUSE	3NE4 334-6	SIEMENS	=
+D-1F3 +D/33.6	1	500A,SITOR FUSE	3NE4 334-6	SIEMENS	=
+D-1L1 +D/33.4	1	615A,LINE CHOKE	6SL3000-0EE36-2AA0	SIEMENS	LINE CHOKE
+D-1Q1 +D/33.2	1	630A,MCCB	3VT3763-2AA36-0AA0	SIEMENS	МССВ
+D-1Q1 +D/33.2	1	TRIP UNIT	3VT9363-6AC00	SIEMENS	=
+D-1Q1 +D/33.2	1	MCCB OPERATING HANDLE	3VT9500-3HQ00	SIEMENS	=
+D-1Q2 +D/34.1	1	125A,MCCB	3VT1712-2DA36-0AA0	SIEMENS	FOR LIGHTING
+D-1QA1 +D/34.3	1	63A,MCB,3P	5SL63637RC	SIEMENS	MCB,5SL
+D-1QA2 +D/34.4	1	63A,MCB,3P	5SL63637RC	SIEMENS	=
+D-1QPC1 +D/36.5	1	32A,MCB,3P	5SL63327RC	SIEMENS	=
+D-1QT1 +D/34.1	1	25A,MCB,2P	5SL62257RC	SIEMENS	=
+D-1QT2 +D/34.1	1	32A,MCB,2P	5SL62327RC	SIEMENS	=
+D-1QU +D/35.3	1	32A,MCB,2P	5SL62327RC	SIEMENS	=
+D-1QUB +D/35.6	1	32A,MCB,2P	5SL62327RC	SIEMENS	=
+D-1QW1 +D/34.5	1	63A,MCB,3P	5SL63637RC	SIEMENS	=
+D-1QW2 +D/34.7	1	63A,MCB,3P	5SL63637RC	SIEMENS	=
+D-1T1 +D/34.1	1	LIGHTING TRANSFORMER	TRANS - 415/230V	VAISHNAV	LIGHTING TRANSFORMER
+M-ES1 +M/39.7	1	MPB/RED/110V AC	3SB50 00-1NC01	SIEMENS	

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SEMI PORTAL CRANE REVISION-0 Chk by Application: ASHOK.C AKR Modification



+ P

### Parts list

Device Designation Schematic / position	Quantity	DESCRIPTION	PART NUMBER	MANUFACTURER	FUNCTION TEXT
+M-1K1 +M/40.6	1	POWER CONTACTOR,150A	3RT10 55-6AF36	SIEMENS	POWER CONTACTOR
+M-1K2 +M/40.7	1	POWER CONTACTOR,150A	3RT10 55-6AF36	SIEMENS	=
+M-1K3 +M/40.9	1	POWER CONTACTOR,150A	3RT10 55-6AF36	SIEMENS	=
+M-1K11 +M/40.4	1	6A,CONTROL CONTACTOR	3RH11 40-1AF00	SIEMENS	CONTROL CONTACTOR
+M-1KPC +M/39.9	1	17A,POWER CONTACTORS	3RT10 25-1AG20	SIEMENS	

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SEMI PORTAL CRANE REVISION-0 Chk by Application: ASHOK.C AKR Modification Replacement of



DRWG No: 1301146 + P

Project name SMS - 1

Plant Designation PROTECTIVE SECTION

Classification THREE LINE DIAGRAM

Control voltage 110V AC SUPPLY

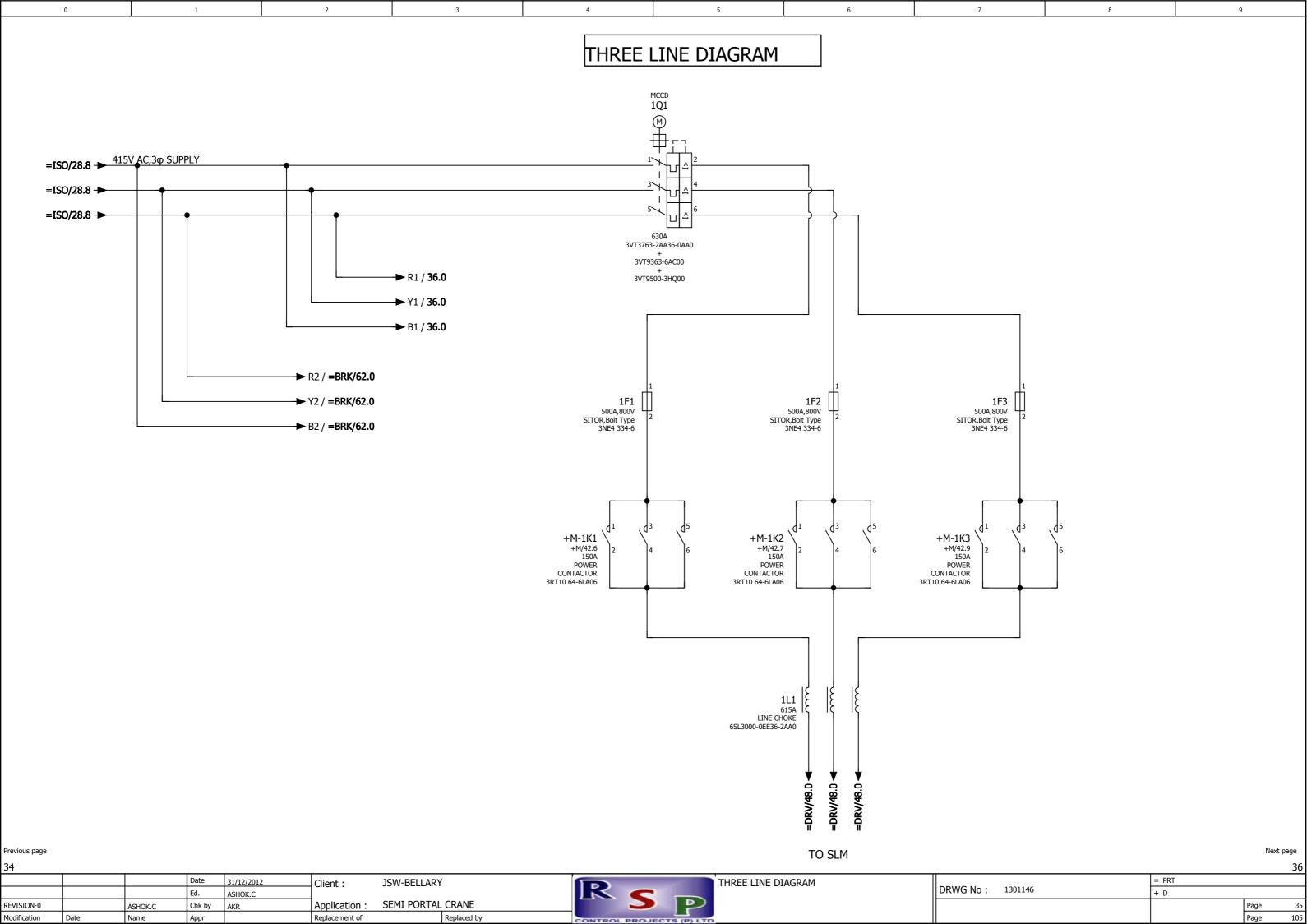
Job number 1301146

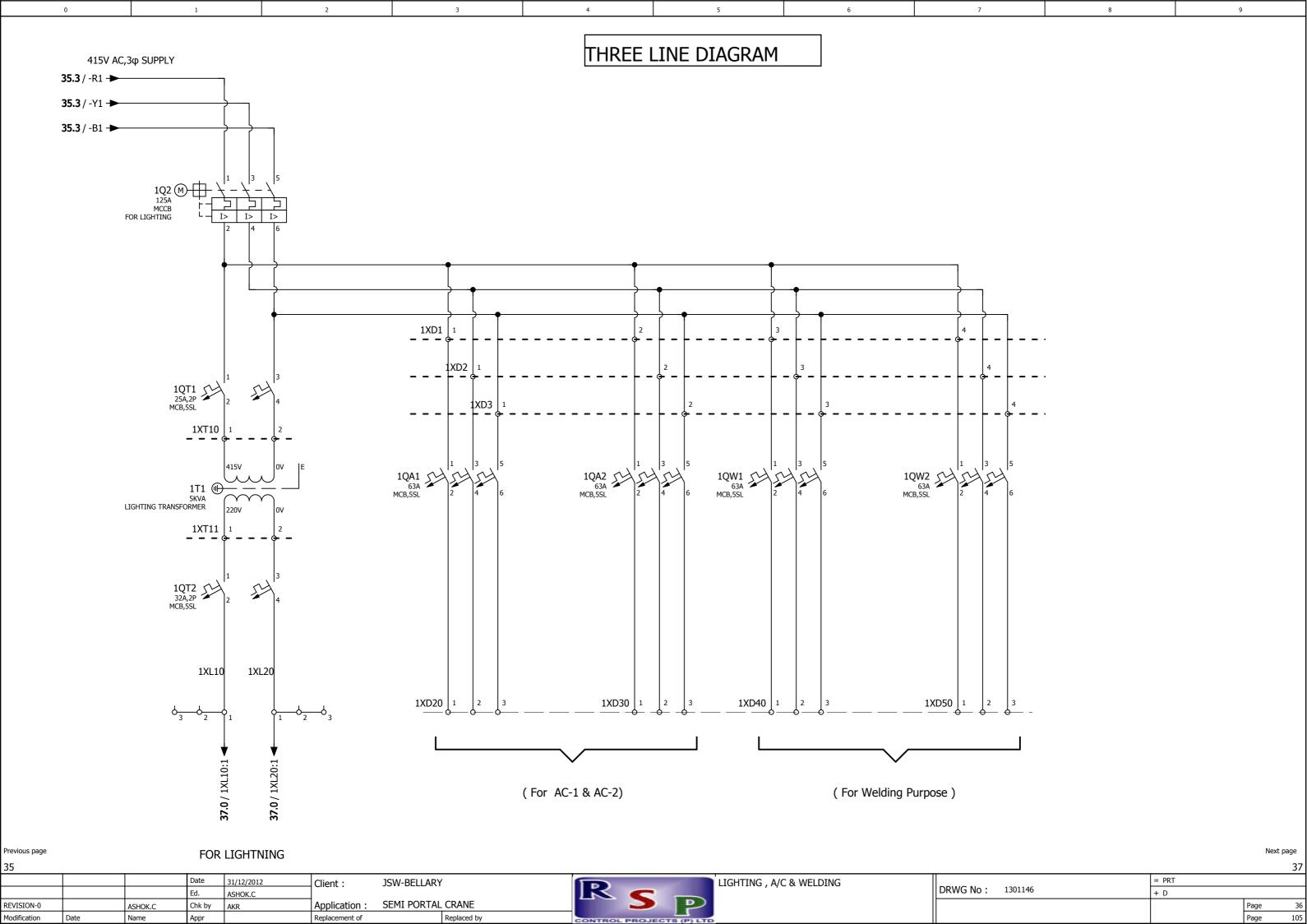
**Application** SEMI PORTAL CRANE

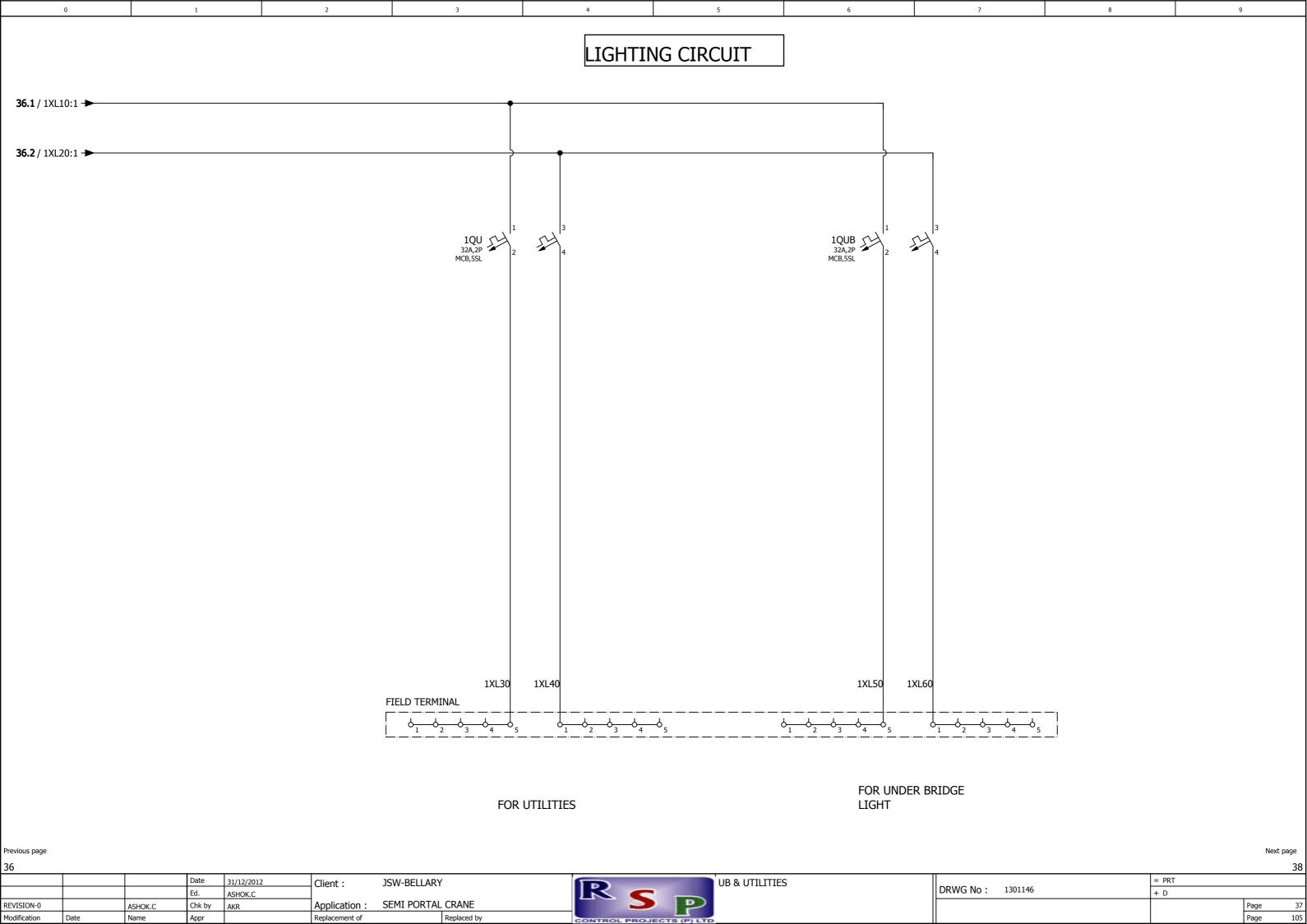
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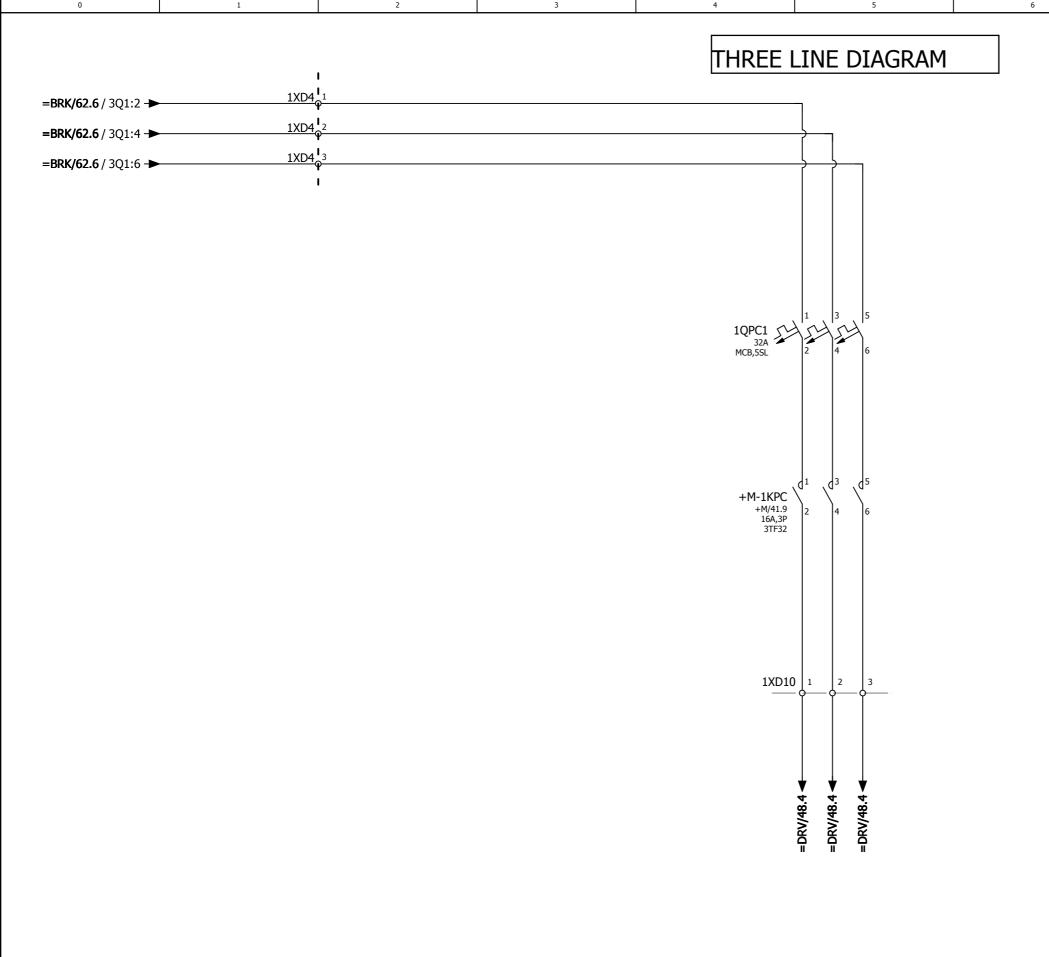
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( FOR PRECHARGING ) SLM

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PRE-CHARGING SUPPLY

DRWG No: 1301146 + D

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Project name SMS - 1

Plant Designation PROTECTIVE SECTION

Classification CONTROL CIRCUIT

Control voltage 110V AC SUPPLY

Job number 1301146

**Application** SEMI PORTAL CRANE

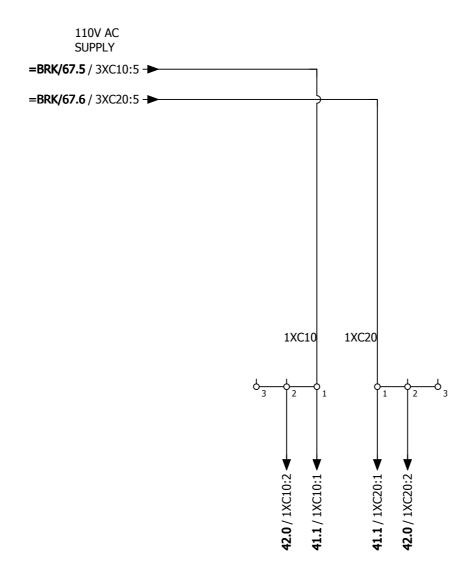
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| Date | 31/12/2012 | Client : | JSW-BELLARY | DRWG No : 1301146 | | PRT | | PRT | | PRT | | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PRT | PR

### 110V AC SUPPLY DISTRIBUTION



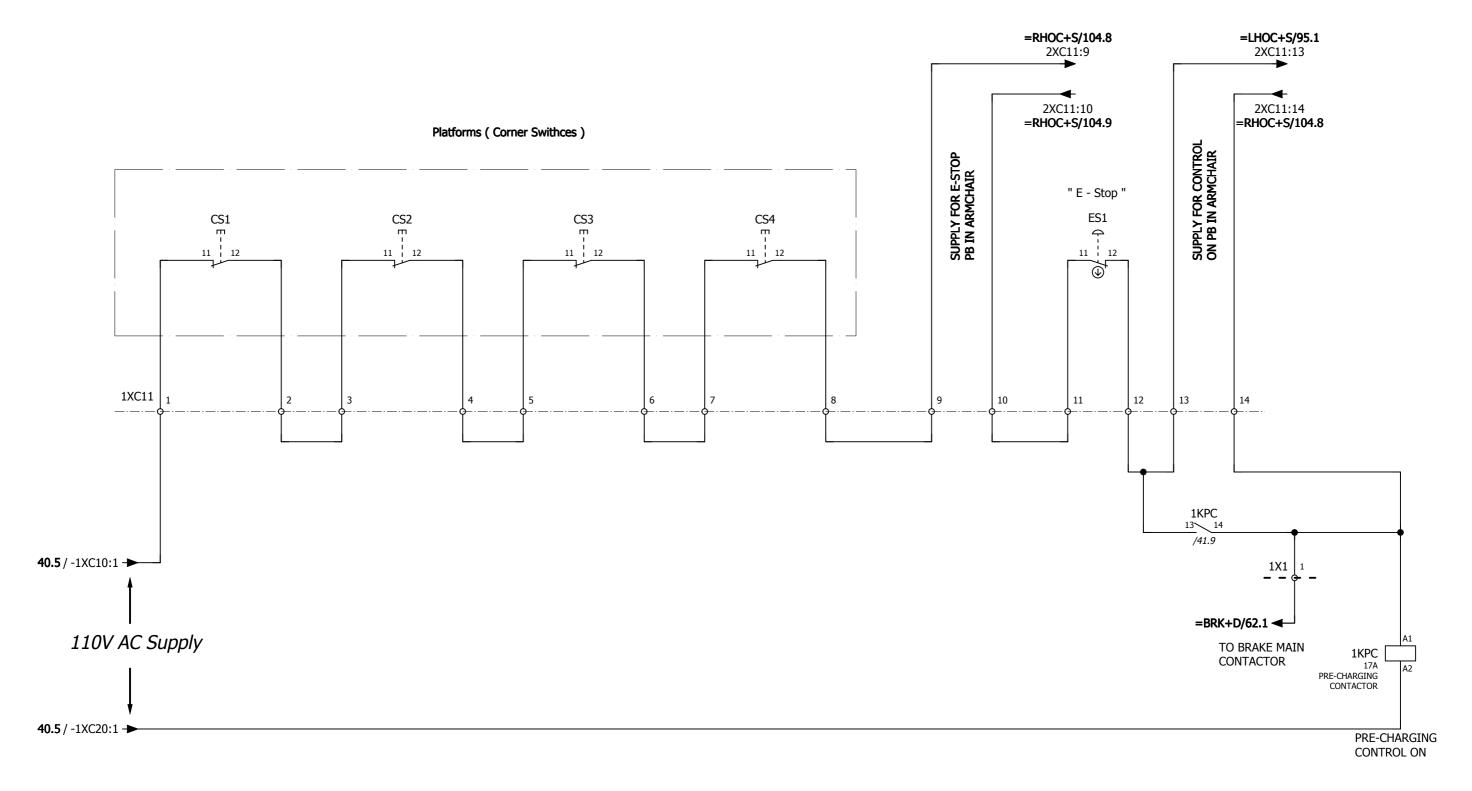
CONTROL SUPPLY

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### CONTROL CIRCUIT



1 0 2 +D/38.5 3 0 4 +D/38.5 5 0 6 +D/38.5 13 - 14 /41.7 23 - 24 /42.2 53 - 54 /42.4

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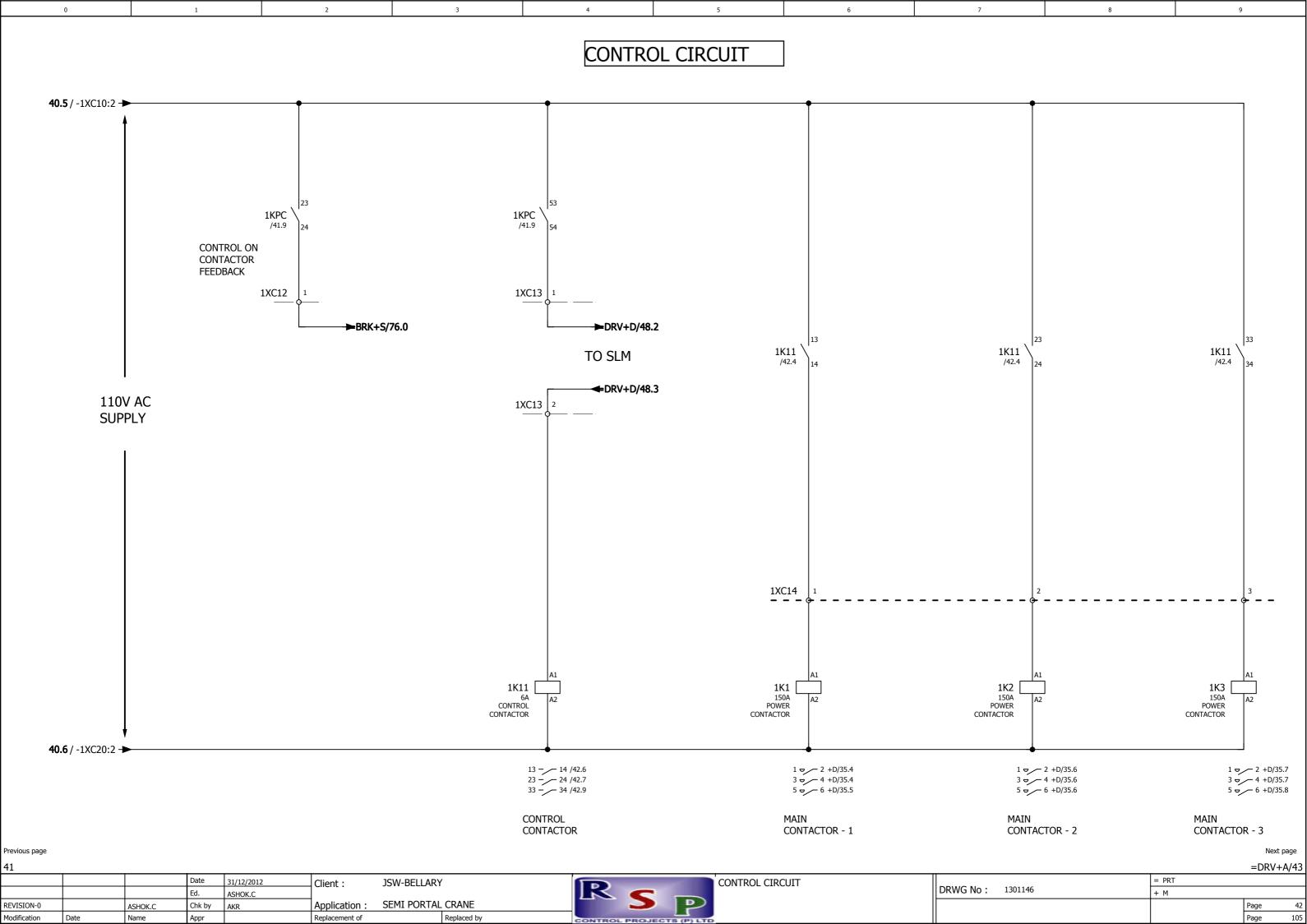
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**Plant Designation** DRIVE SECTION

Classification GENERAL ARRANGEMENT

Control voltage 110V AC SUPPLY

Job number 1301146

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**Application** SEMI PORTAL CRANE

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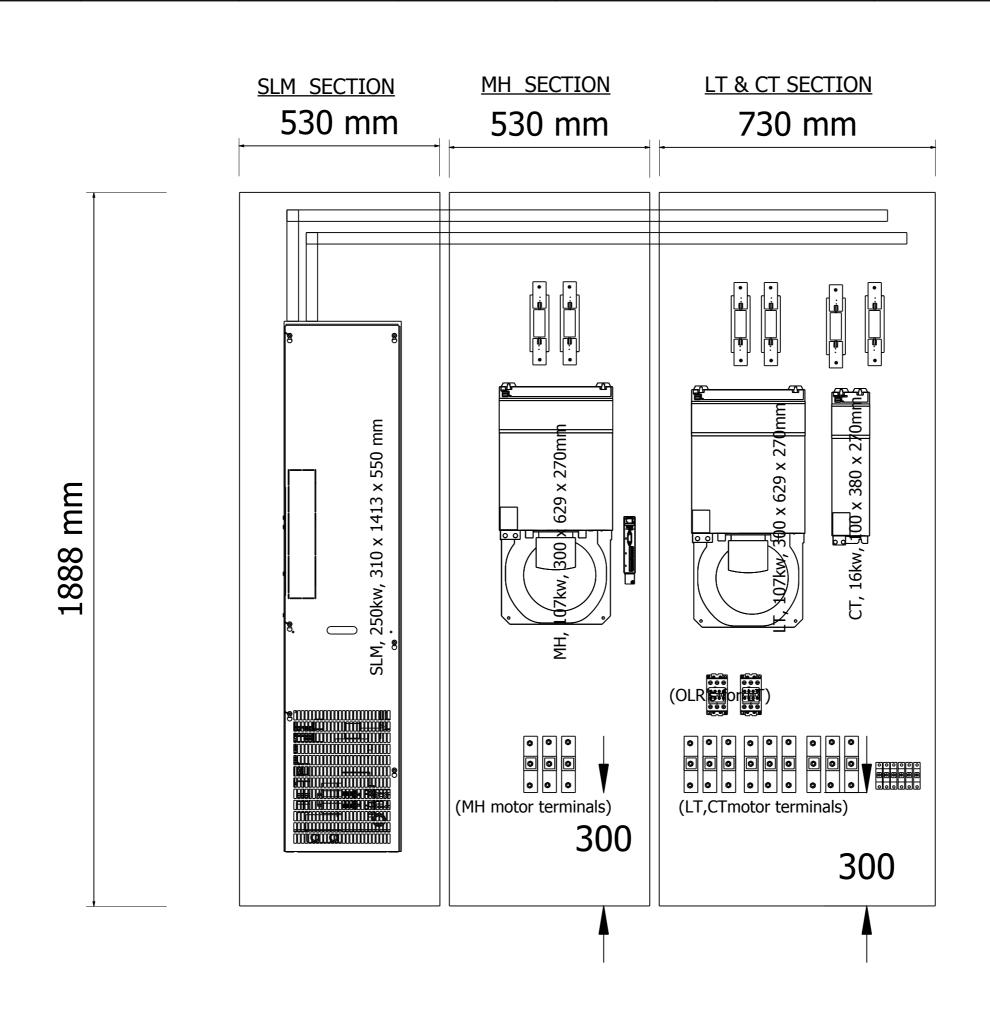
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RSPGE

GENERAL ARRANGEMENT

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Project name SMS - 1

Plant Designation DRIVE SECTION

**Classification** PART LIST

Control voltage 110V AC SUPPLY

Job number 1301146

**Application** SEMI PORTAL CRANE

Remarks

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Modification

## Parts list

Device Designation Schematic / position	Quantity	DESCRIPTION	PART NUMBER	MANUFACTURER	FUNCTION TEXT
+D-2D1 +D/46.0	1	250KW,550A,SLM	6SL3330-6TE35-5AA3	SIEMENS	SLM
+D-4D1 +D/47.1	1	107KW,200A,S120-SMM	6SL3120-1TE32-0AA4	SIEMENS	S120-SMM
+D-6D1 +D/48.1	1	16KW,30A,SMM	6SL3120-1TE23-0AA3	SIEMENS	=
+D-7D1 +D/49.1	1	107KW,200A,SMM	6SL3120-1TE32-0AA4	SIEMENS	=
+D-4F1-4F2 +D/47.1	2	250A,FUSE,DIN SIZE - 1	3NE1227 - 0	SIEMENS	DIN - 1
+D-6F1-6F2 +D/48.1	2	32A,FUSE,DIN SIZE - 1	3NE4 101	SIEMENS	=
+D-7F1-7F2 +D/49.1	2	250A,FUSE,DIN SIZE - 1	3NE1227 - 0	SIEMENS	=
+D-MH-EN1 +D/47.5	1	Hollow Shaft,16mm,HTL,1024PPR,6 Channel,861 Series	861-900170	LEINE LINDE	MH ENCODER
+D-70LR1 +D/49.3	1	25 - 100 A,OLR	3UA62 30-5E	SIEMEN	LT1_OLR
+D-70LR2 +D/49.5	1	25 - 100 A,OLR	3UA62 30-5E	SIEMEN	LT2_OLR
+D-4S1 +D/47.8	1	SMC 30,SENSOR MODULE	6SL3055-0AA00-5CA2	SIEMENS	SMC 30
+E-MH/OSLS +E/52.3	1	OVER SPEED SWITCH	208070	LEINE AND LINDE	

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+D/47 45 31/12/2012 JSW-BELLARY PART LIST = DRV Client : DRWG No: 1301146 + P ASHOK.C

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Project name SMS - 1

Plant Designation DRIVE SECTION

Classification THREE LINE DIAGRAM

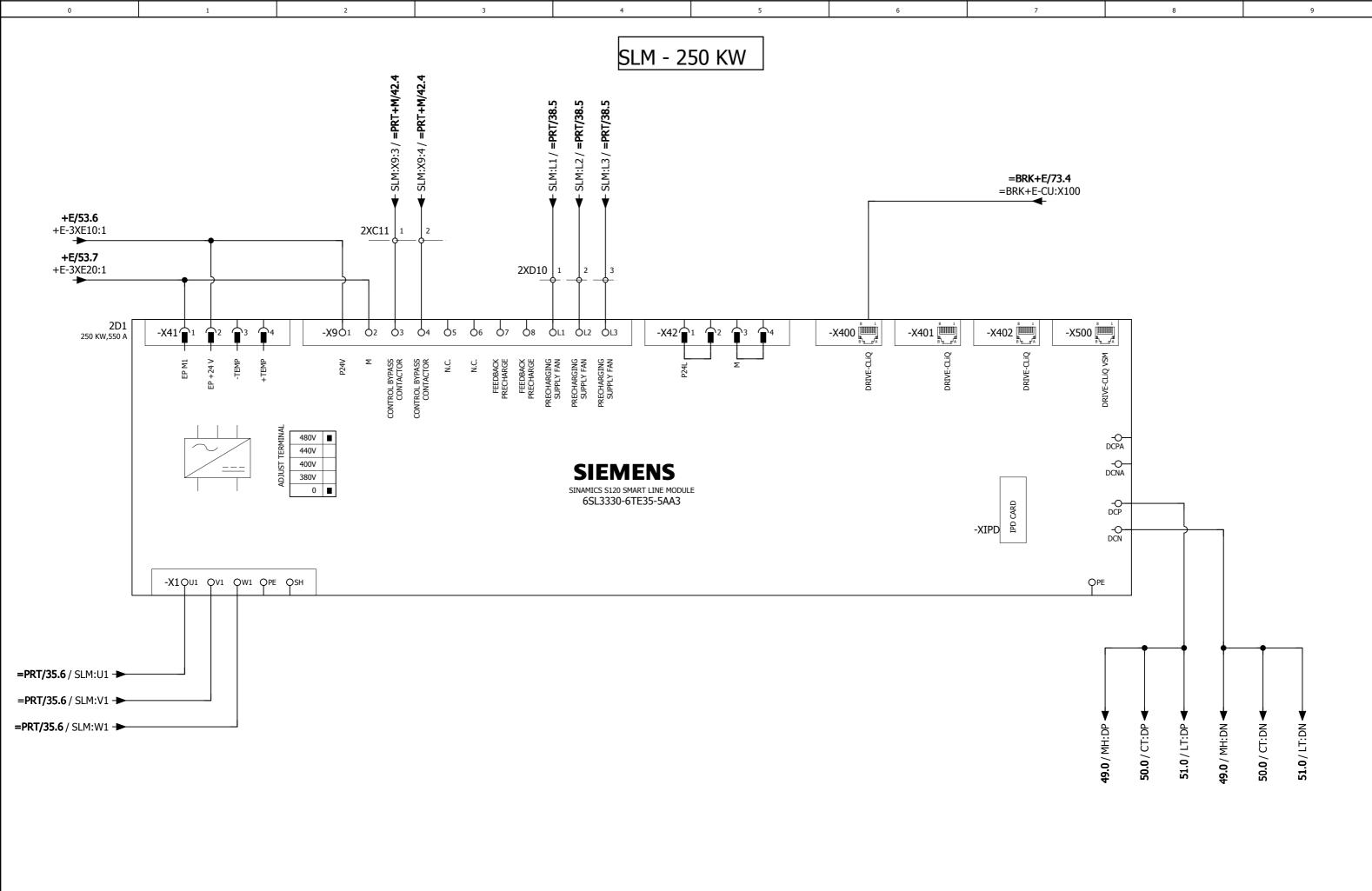
Control voltage 110V AC SUPPLY

Job number 1301146

**Application** SEMI PORTAL CRANE

Remarks

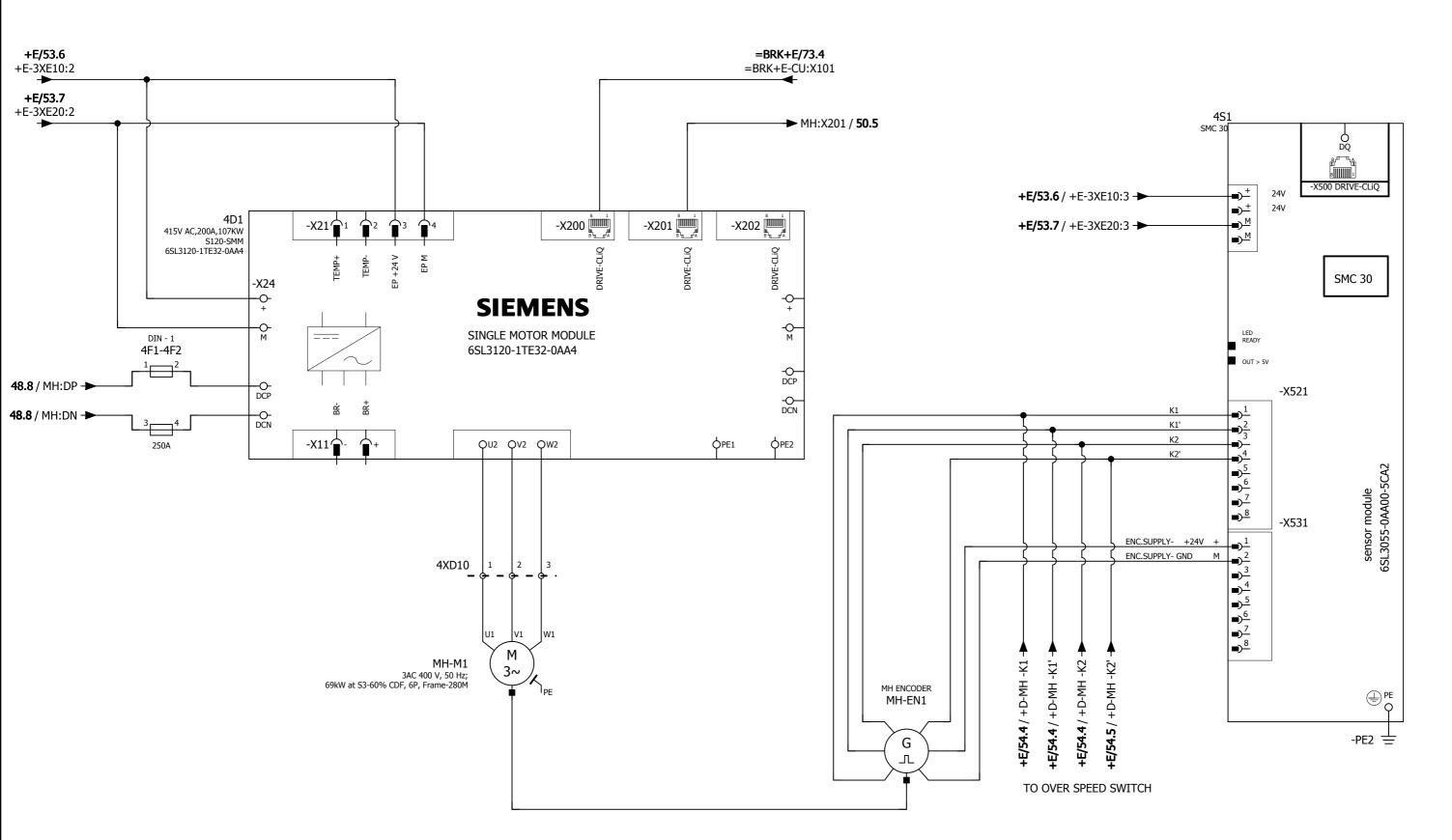
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MH - 107 KW



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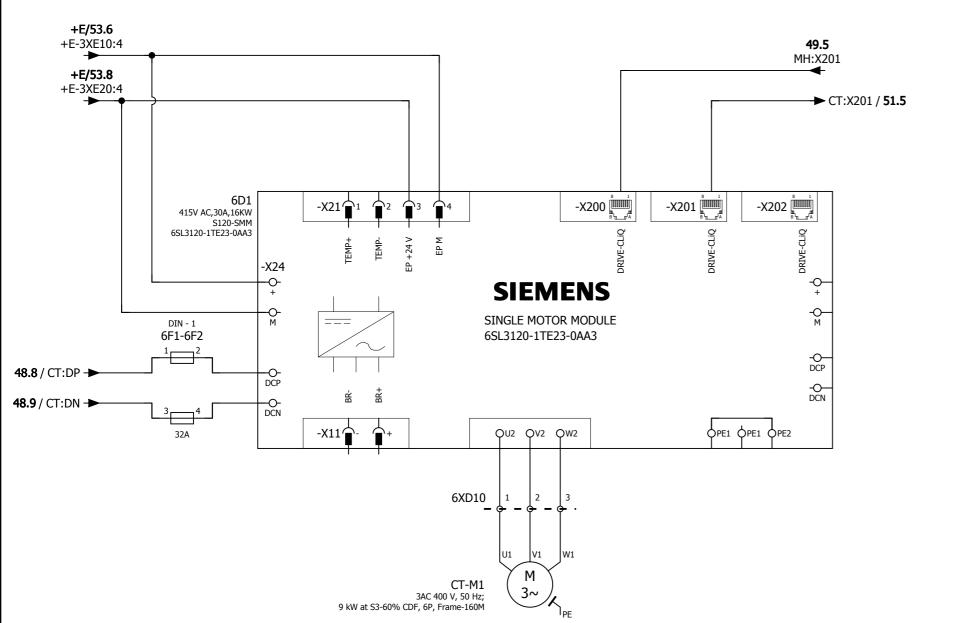
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CT - 16 KW

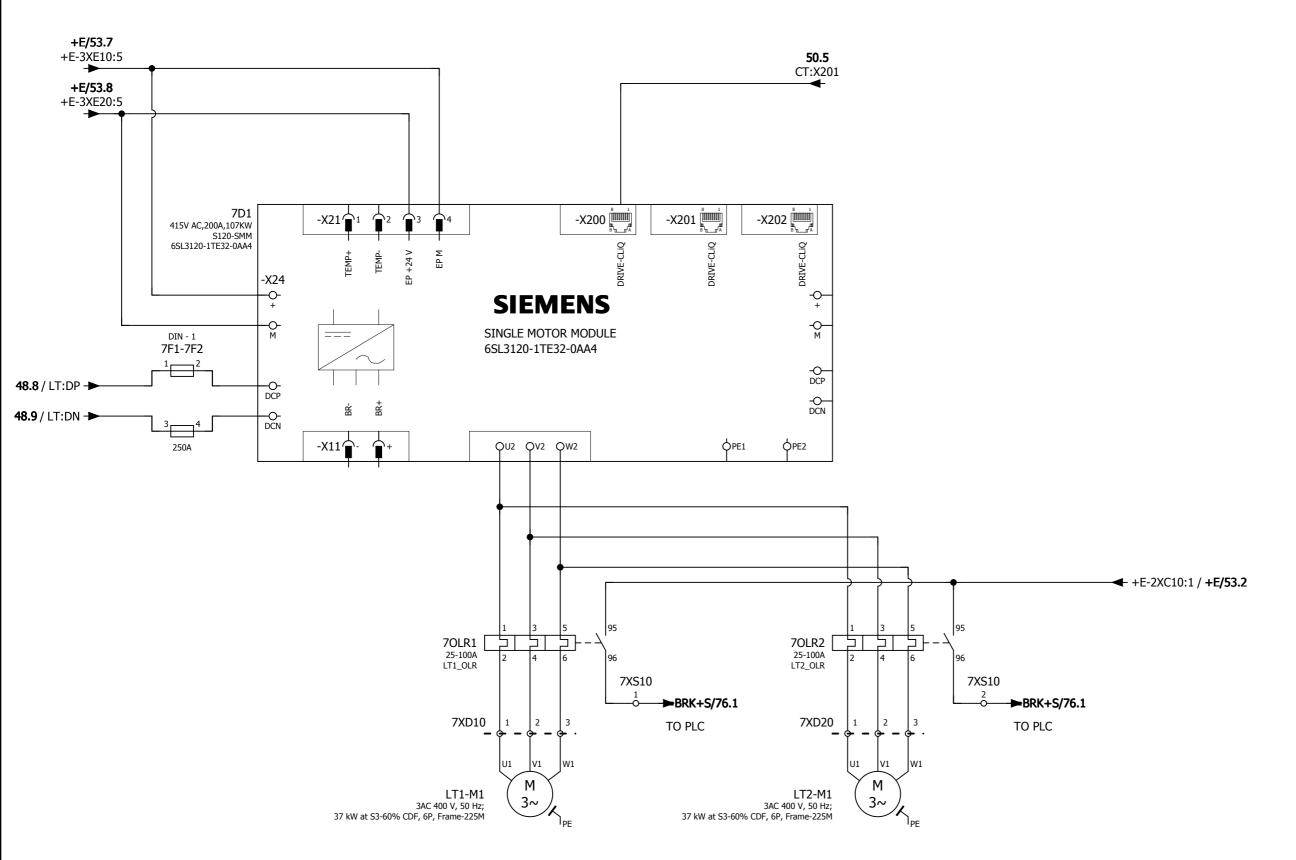


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LT - 107 KW



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Project name SMS - 1

Plant Designation DRIVE SECTION

**Classification** ELECTRONICS

Control voltage 110V AC SUPPLY

Job number 1301146

**Application** SEMI PORTAL CRANE

Remarks

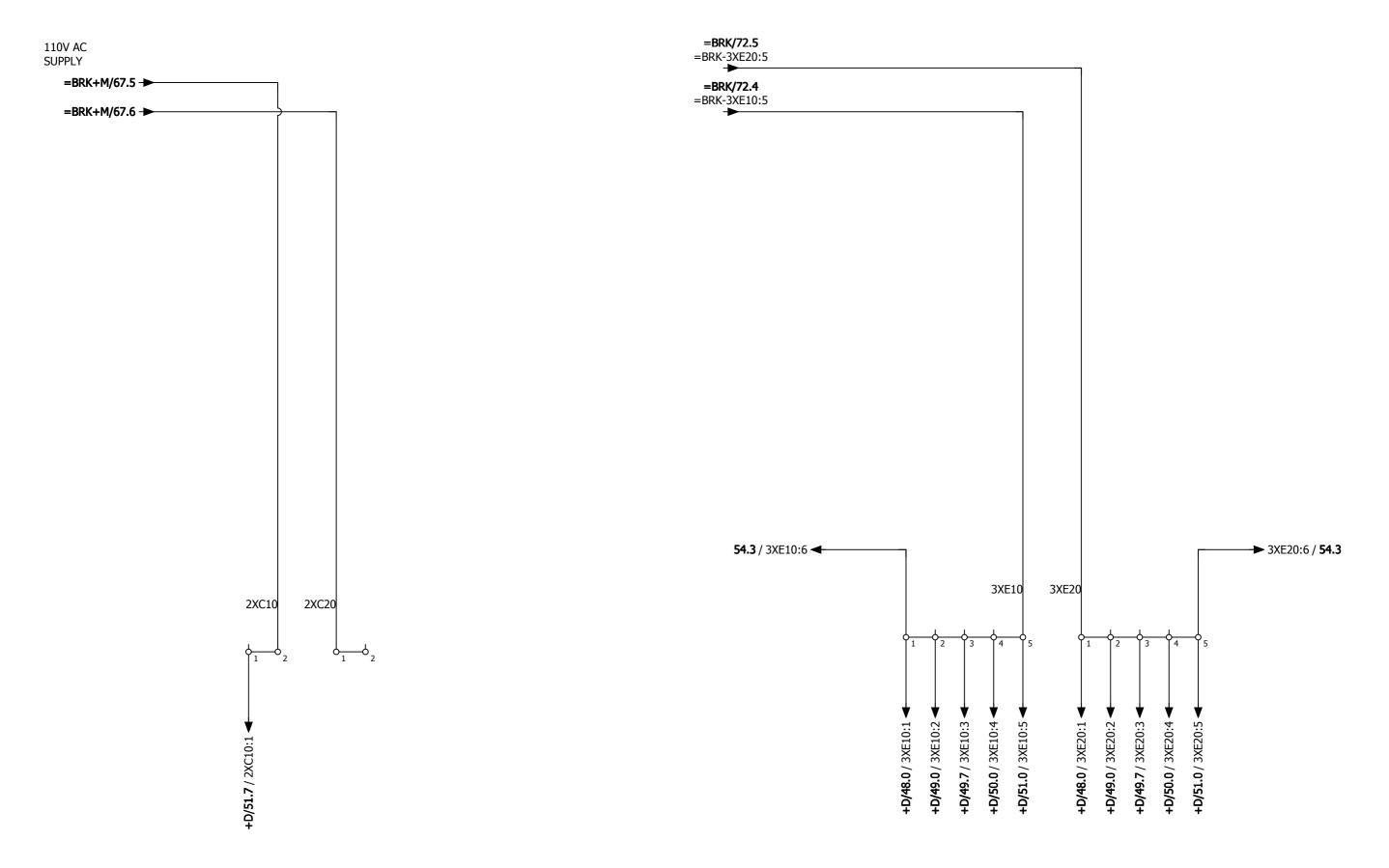
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| Date | 31/12/2012 | Client : | JSW-BELLARY | DRWG No : 1301146 | | DRWG No : 1301146 | | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page | 10 | Page

### 110V AC SUPPLY DISTRIBUTION

### 24V DC SUPPLY DISTRIBUTION

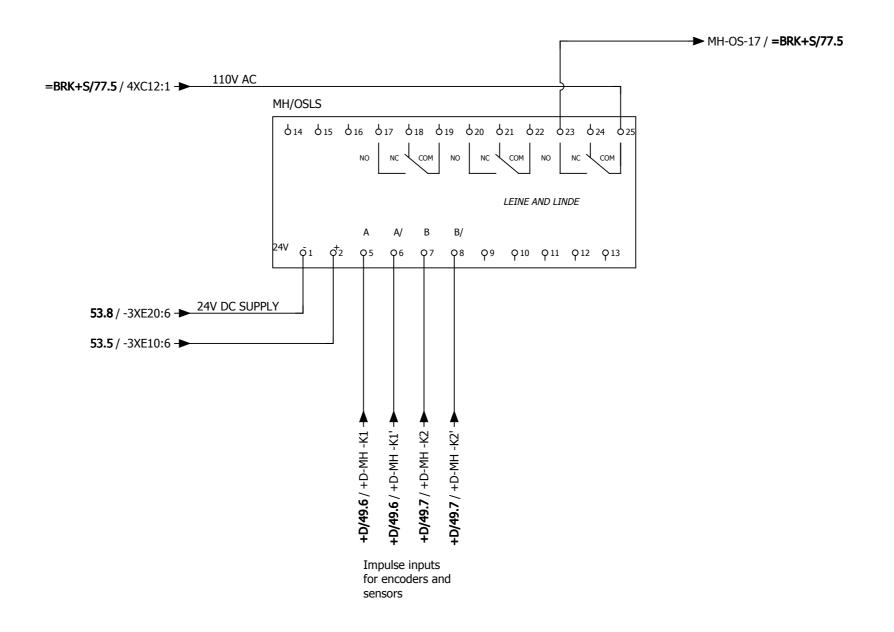


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52 31/12/2012 JSW-BELLARY 110V AC & 24V DC SUPPLY DISTRIBUTION Client: DRWG No: 1301146 + E ASHOK.C Application: SEMI PORTAL CRANE REVISION-0 ASHOK.C Chk by AKR

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Project name SMS - 1

**Plant Designation** BRAKE SECTION

Classification GENERAL ARRANGEMENT

Control voltage 110V AC SUPPLY

Job number 1301146

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AKR

Chk by

ASHOK.C

Client :

Application:

JSW-BELLARY

SEMI PORTAL CRANE

**Application** SEMI PORTAL CRANE

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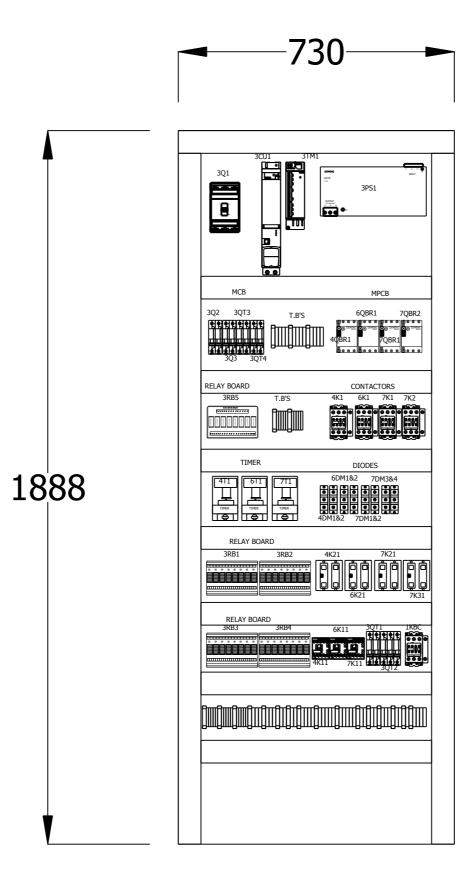
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DRWG No: 1301146

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# **BRAKE SECTION**



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31/12/2012 JSW-BELLARY GENERAL ARRANGEMENT Client : DRWG No: 1301146 + A ASHOK.C SEMI PORTAL CRANE REVISION-0 ASHOK.C Chk by AKR Application:

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Project name SMS - 1

Plant Designation BRAKE SECTION

**Classification** PART LIST

Control voltage 110V AC SUPPLY

Job number 1301146

**Application** SEMI PORTAL CRANE

Remarks

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# Parts list

Device Designation Schematic / position	Quantity	DESCRIPTION	PART NUMBER	MANUFACTURER	FUNCTION TEXT
+D-4DM1 +D/63.4	1	DIODE MODULE	SEMI.MD7LU9512	SIEMENS	
+D-4DM2 +D/63.4	1	DIODE MODULE	SEMI.MD7LU9512	SIEMENS	
+D-6DM1 +D/64.4	1	DIODE MODULE	SEMI.MD7LU9512	SIEMENS	
+D-6DM2 +D/64.4	1	DIODE MODULE	SEMI.MD7LU9512	SIEMENS	
+D-7DM1 +D/65.4	1	DIODE MODULE	SEMI.MD7LU9512	SIEMENS	
+D-7DM2 +D/65.4	1	DIODE MODULE	SEMI.MD7LU9512	SIEMENS	
+D-7DM3 +D/65.4	1	DIODE MODULE	SEMI.MD7LU9512	SIEMENS	
+D-7DM4 +D/65.4	1	DIODE MODULE	SEMI.MD7LU9512	SIEMENS	
+D-1KBC +D/62.3	1	50A,POWER CONTACTORS	3RT10 36-1AG20	SIEMENS	
+D-3Q1 +D/62.4	1	32A,MCCB	3VT1703-2DC36-0AA0	SIEMENS	FOR CONTROL SUPPLY
+D-4QBR1 +D/63.2	1	45 - 63A,MPCB,1NO+1NC	3VU16 40-1LS00	SIEMENS	MPCB
+D-6QBR1 +D/64.2	1	22-32A,MPCB,1NO+1NC	3VU16 40-1MP00	SIEMENS	=
+D-7QBR1 +D/65.2	1	22-32A,MPCB,1NO+1NC	3VU16 40-1MP00	SIEMENS	=
+D-7QBR2 +D/65.2	1	22-32A,MPCB,1NO+1NC	3VU16 40-1MP00	SIEMENS	=
+D-3QT1 +D/62.4	1	32A,MCB,2P	5SL62327RC	SIEMENS	MCB,5SL
+D-3QT2 +D/62.4	1	63A,MCB,3P	5SL63637RC	SIEMENS	=
+D-3T2 +D/62.4	1	BRAKE TRANSFORMER	TRANS - 415/0V-65V-265V	VAISHNAV	BRAKE TRANSFORMER
+M-4K1 +M/68.6	1	55A,POWER CONTACTOR	3RT15 35-1AF00	SIEMENS	POWER CONTACTOR
+M-4K21 +M/68.3	1	32A,DC CONTACTOR	3TC44 17-0BF0	SIEMENS	DC CONTACTOR

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Chk by AKR Application: SEMI PORTAL CRANE

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# Parts list

Device Designation Schematic / position	Quantity	DESCRIPTION	PART NUMBER	MANUFACTURER	FUNCTION TEXT
+M-6K1 +M/69.6	1	22A,POWER CONTACTOR	3RT15 17-1AF00	SIEMENS	POWER CONTACTOR
+M-6K21 +M/69.3	1	32A,DC CONTACTOR	3TC44 17-0BF0	SIEMENS	DC CONTACTOR
+M-7K1 +M/70.6	1	40A,POWER CONTACTOR	3RT15 26-1AF00	SIEMENS	POWER CONTACTOR
+M-7K2 +M/70.7	1	40A,POWER CONTACTOR	3RT15 26-1AF00	SIEMENS	=
+M-7K21 +M/70.3	1	32A,DC CONTACTOR	3TC44 17-0BF0	SIEMENS	DC CONTACTOR
+M-7K31 +M/70.4	1	32A,DC CONTACTOR	3TC44 17-0BF0	SIEMENS	=
+M-3QT3 +M/67.5	1	32A,MCB,2P	5SL62327RC	SIEMENS	MCB,5SL
+M-3QT4 +M/67.5	1	40A,MCB,2P	5SL62407RC	SIEMENS	=
+M-3T3 +M/67.5	1	3KVA,CONTROL TRANSFORMER	TRANS - 415/110V	VAISHNAV	CONTROL TRANSFORMER
+M-4T1 +M/68.5	1	TIMER	BCH.CAT NO.KRTPN10	BCH	MH DRIVE TIMER
+M-6T1 +M/69.5	1	TIMER	BCH.CAT NO.KRTPN10	BCH	=
+M-7T1 +M/70.5	1	TIMER	BCH.CAT NO.KRTPN10	BCH	=
+E-3AOP-1 +E/73.8	1	AOP,ADVANCED OPERATOR PANEL	6SL3055-0AA00-4CA5	SIEMENS	
+E-3CU1 +E/73.0	1	CU320 2DP,CONTROL UNIT	6SL3040-1MA00-0AA0	SIEMENS	
+E-3CU1 +E/73.0	1	CF CARD	6SL3054-0ED01-1BA0	SIEMENS	
+E-3EF1 +E/72.4	1	EMI FILTER,6A	SAK DRV-6/440	SAKURA	EMI FILTER
+E-3PS1 +E/72.4	1	20A,POWER SUPPLY	6EP13362BA00	SIEMENS	POWER SUPPLY
+E-3Q2 +E/72.4	1	16A,MCB,2P	5SL62167RC	SIEMENS	
+E-3Q3 +E/72.4	1	25A,MCB,2P	5SX42257RC	SIEMENS	

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31/12/2012 JSW-BELLARY Client : ASHOK.C SEMI PORTAL CRANE REVISION-0 Chk by Application: ASHOK.C AKR



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# Parts list

Device Designation Schematic / position	Quantity	DESCRIPTION	PART NUMBER	MANUFACTURER	FUNCTION TEXT
+E-3TM1 +E/74.0	1	TM 15,TERMINAL MODULE	6SL3055-0AA00-3FA0	SIEMENS	
+E-3TM2 +E/75.0	1	TM 15,TERMINAL MODULE	6SL3055-0AA00-3FA0	SIEMENS	
+S-4K11 +S/80.1	1	6A,CONTROL CONTACTOR	3RH11 40-1AF00	SIEMENS	CONTROL CONTACTOR
+S-6K11 +S/80.2	1	6A,CONTROL CONTACTOR	3RH11 40-1AF00	SIEMENS	=
+S-7K11 +S/80.3	1	6A,CONTROL CONTACTOR	3RH11 40-1AF00	SIEMENS	=
+S-4PB1 +S/76.5	1	PB/BLACK/110V AC	3SB50 00-0AB01	SIEMENS	FAULT RESET
+S-3RB1 +S/76.1	1	8CH,110V AC RELAY BOARD	PC110DO8-COB	PHEONIX	
+S-3RB2 +S/77.1	1	8CH,110V AC RELAY BOARD	PC110DO8-COB	PHEONIX	
+S-3RB3 +S/78.1	1	8CH,110V AC RELAY BOARD	PC110DO8-COB	PHEONIX	
+S-3RB4 +S/80.1	1	8CH,24V DC RELAY BOARD	PC24DO8-COB	PHEONIX	
+S-3RB5 +S/81.1	1	8CH,24V DC RELAY BOARD	PC24DO8-COB	PHEONIX	
+S-3RB6 +S/79.1	1	8CH,110V AC RELAY BOARD	PC110DO8-COB	PHEONIX	
+S3RB7 +S-/83.1	1	8CH,110V AC RELAY BOARD	PC110DO8-COB	PHEONIX	
+S3RB8 +S-/84.1	1	8CH,110V AC RELAY BOARD	PC110DO8-COB	PHEONIX	
+S3RB9 +S-/85.1	1	8CH,24V DC RELAY BOARD	PC24DO8-COB	PHEONIX	

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PART LIST

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Project name SMS - 1

Plant Designation BRAKE SECTION

Classification THREE LINE DIAGRAM

Control voltage 110V AC SUPPLY

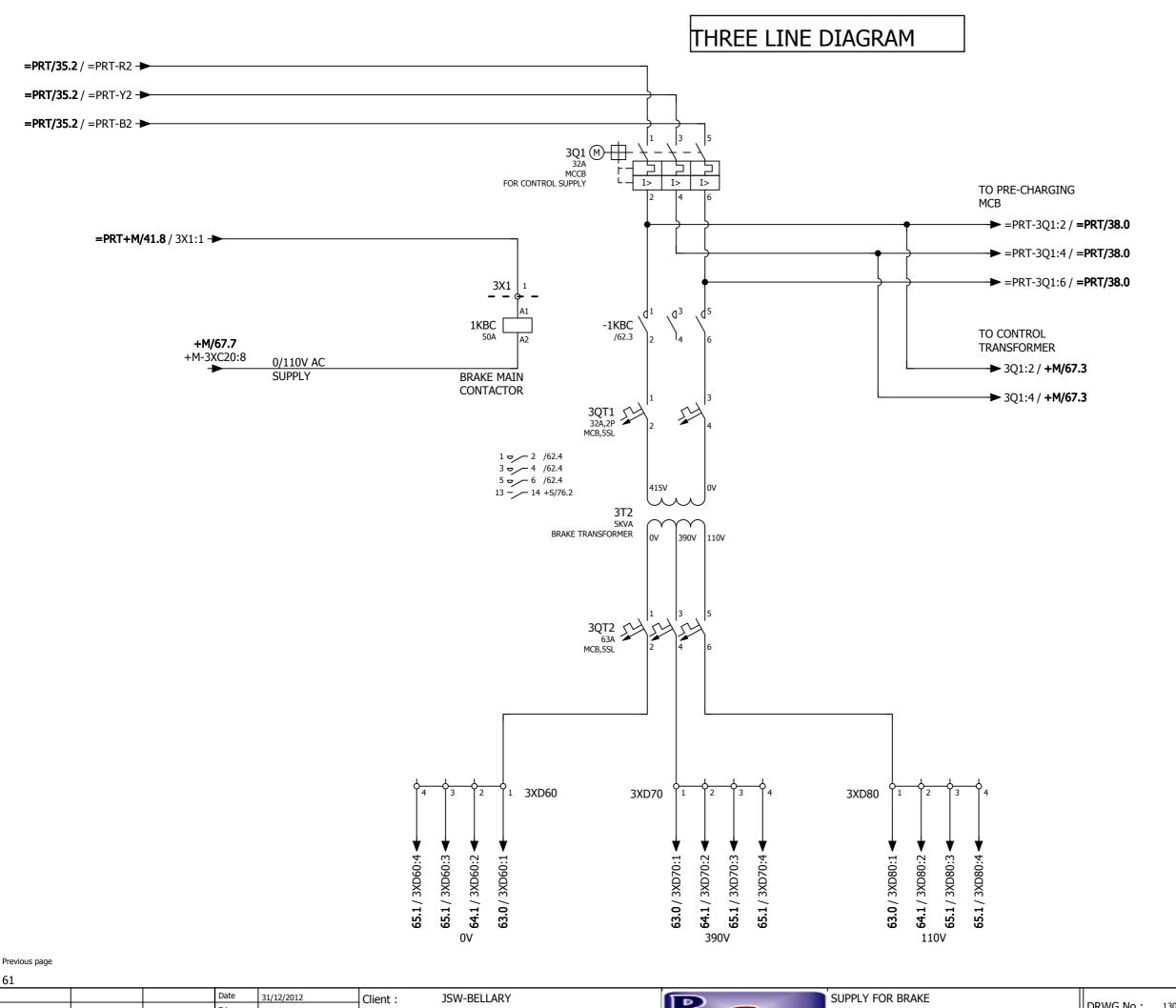
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**Application** SEMI PORTAL CRANE

Remarks

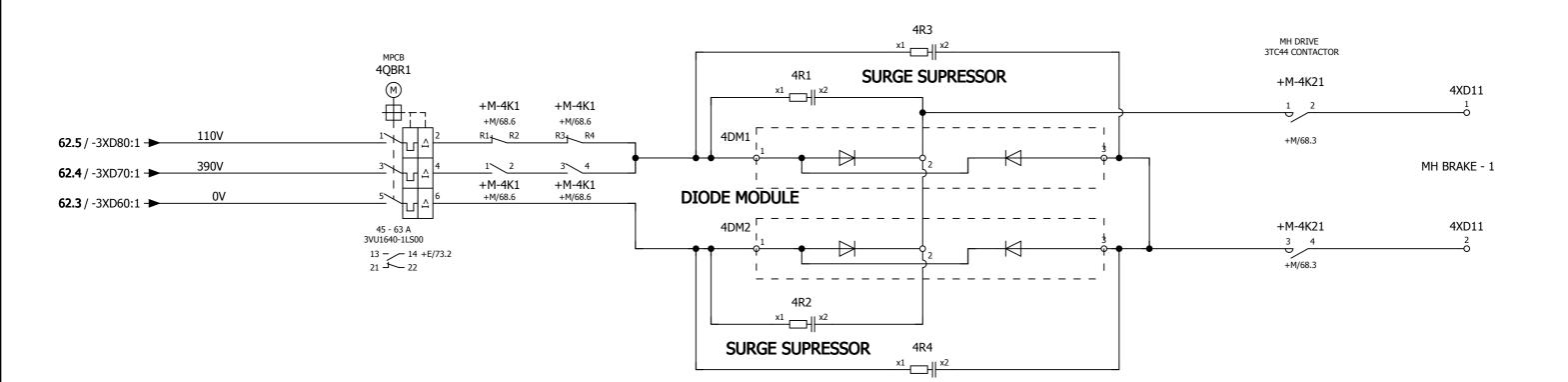
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Modification



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### THREE LINE DIAGRAM



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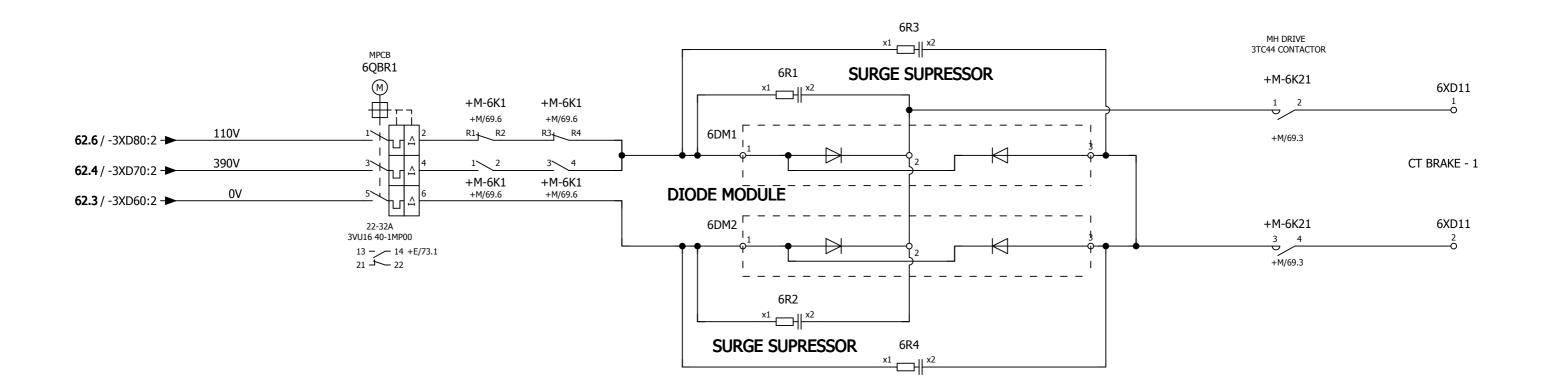
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THREE LINE DIAGRAM



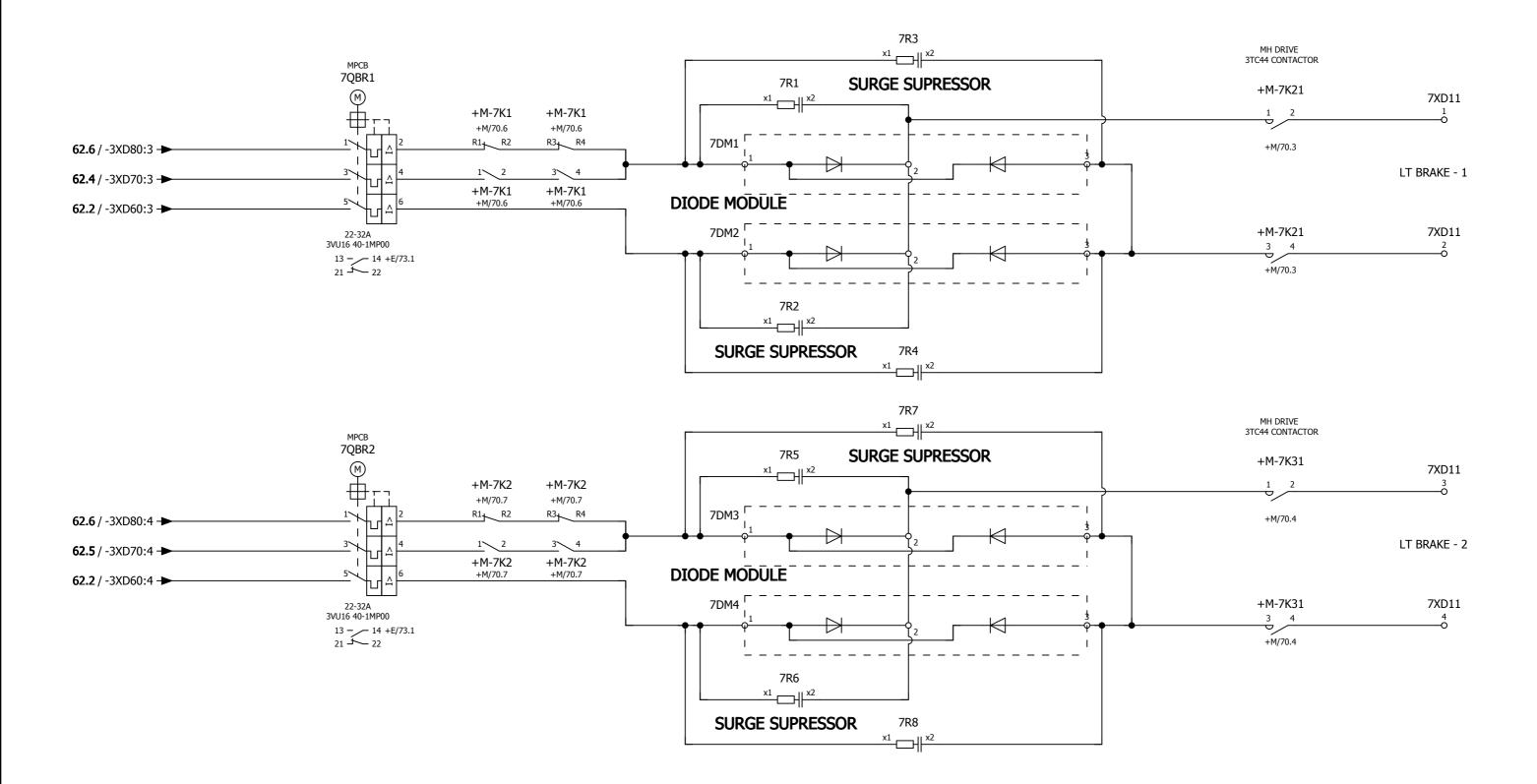
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### THREE LINE DIAGRAM



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Project name SMS - 1

Plant Designation BRAKE SECTION

Classification CONTROL CIRCUIT

Control voltage 110V AC SUPPLY

Job number 1301146

**Application** SEMI PORTAL CRANE

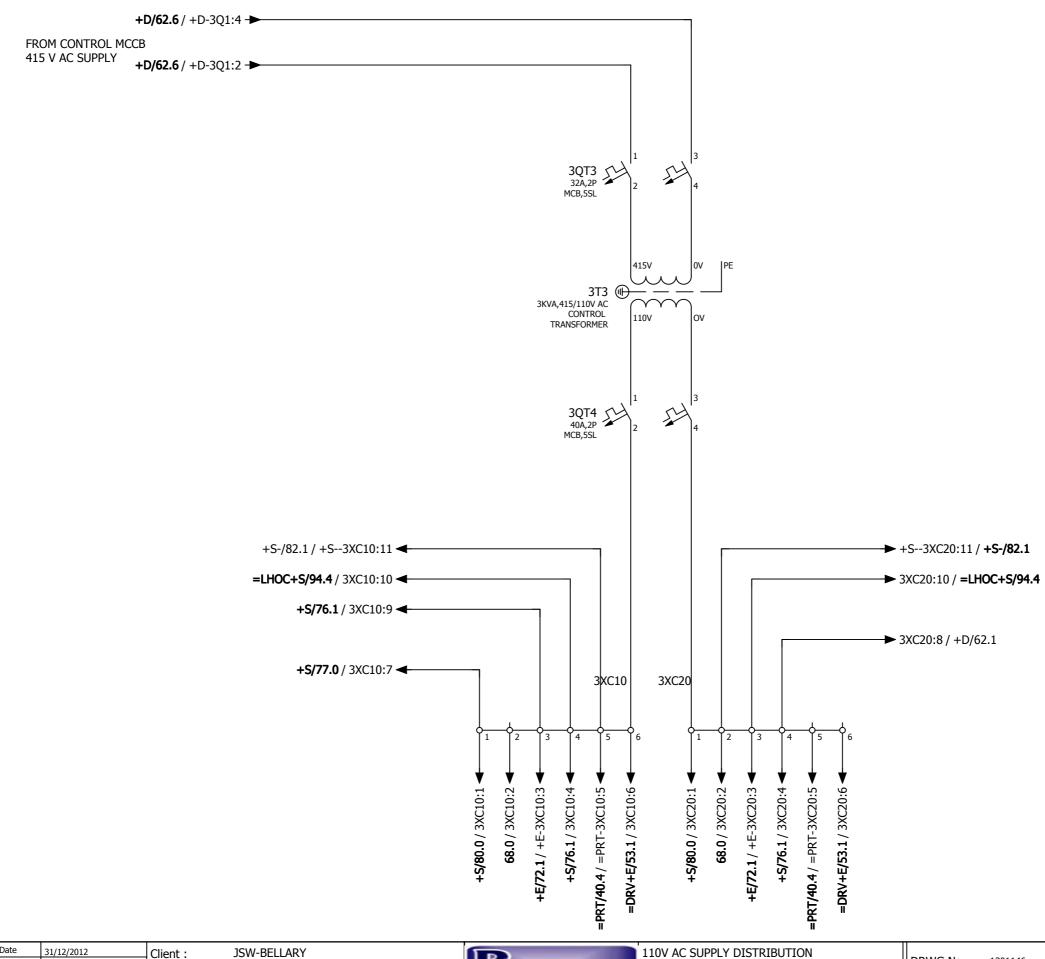
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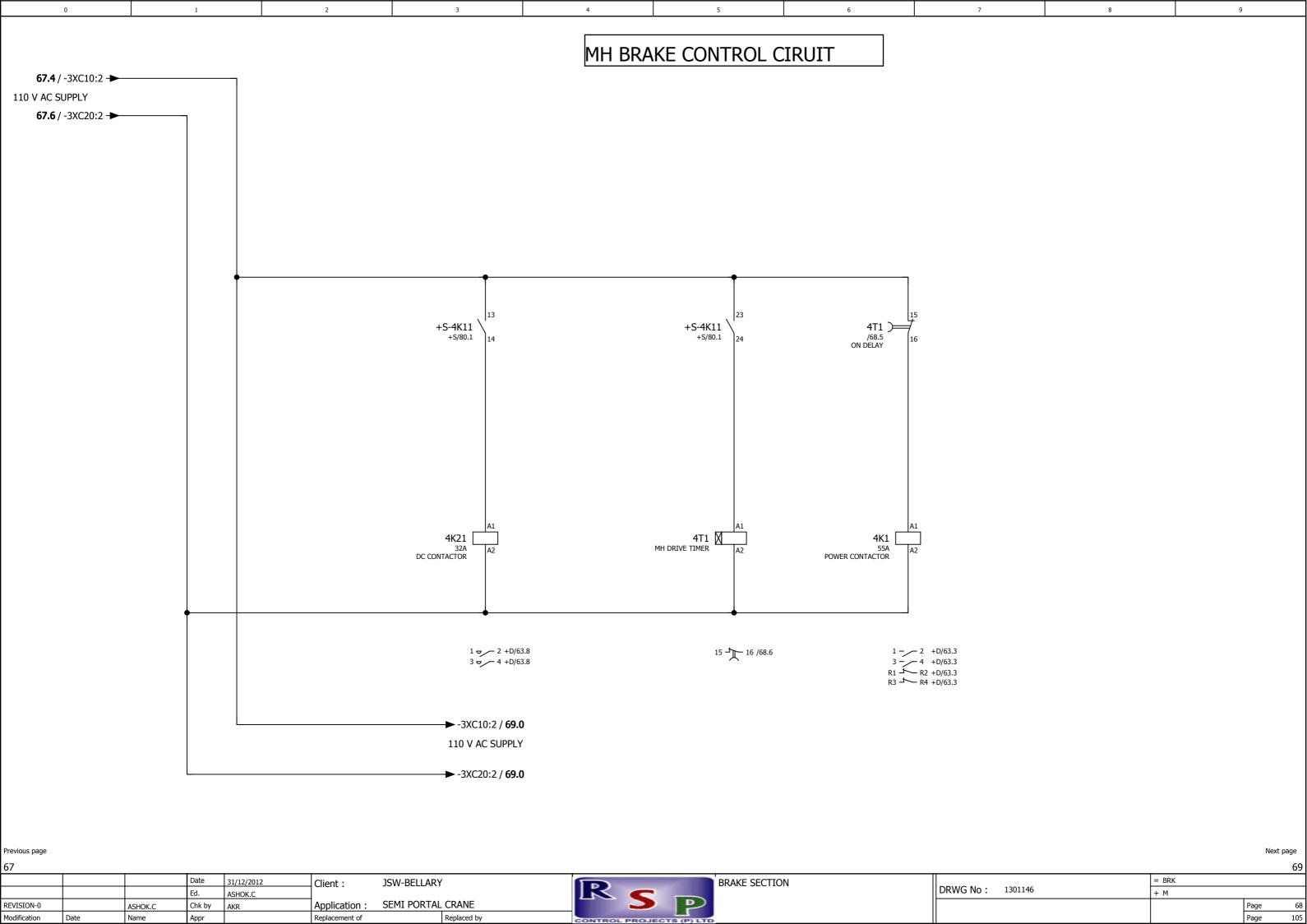
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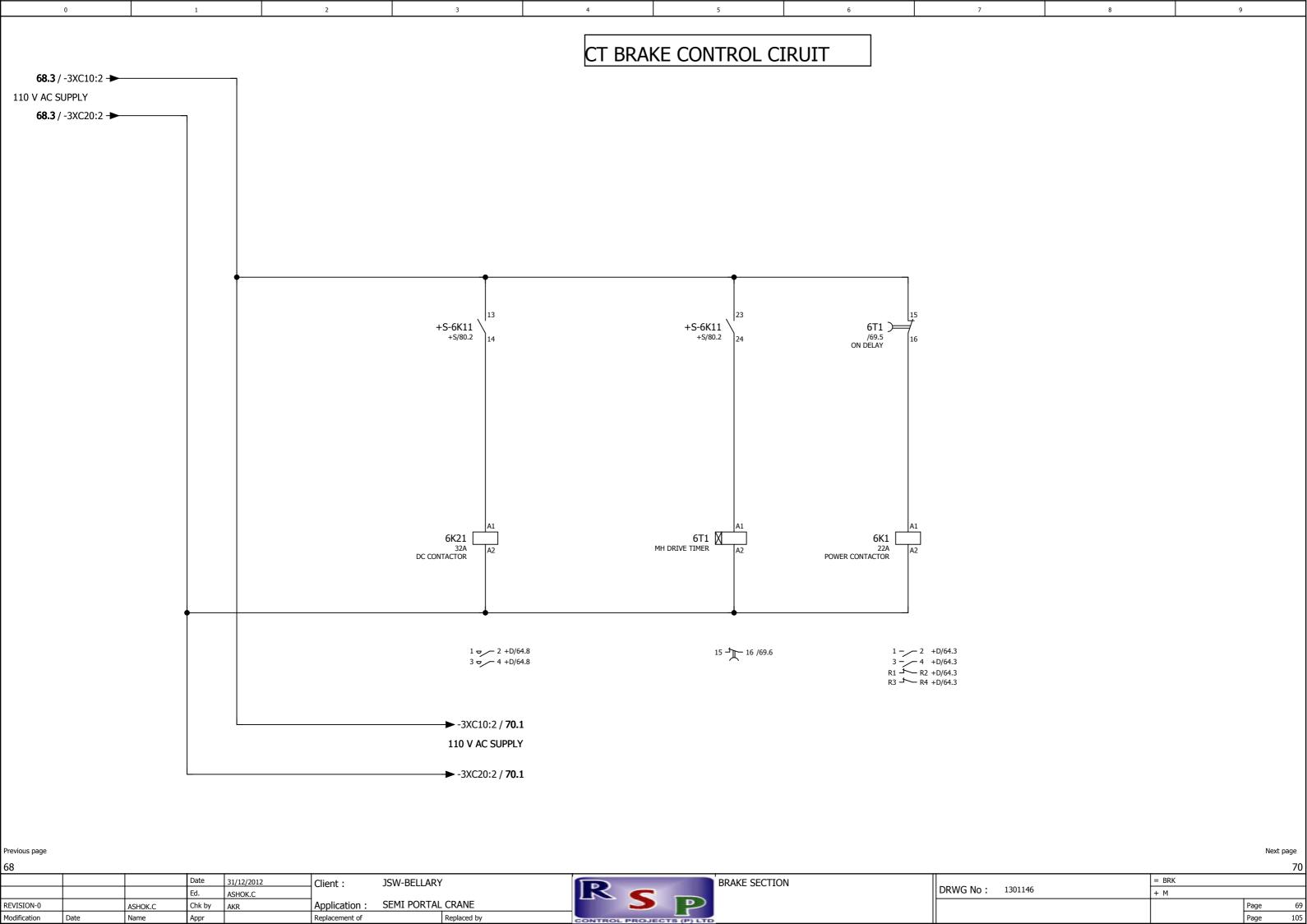
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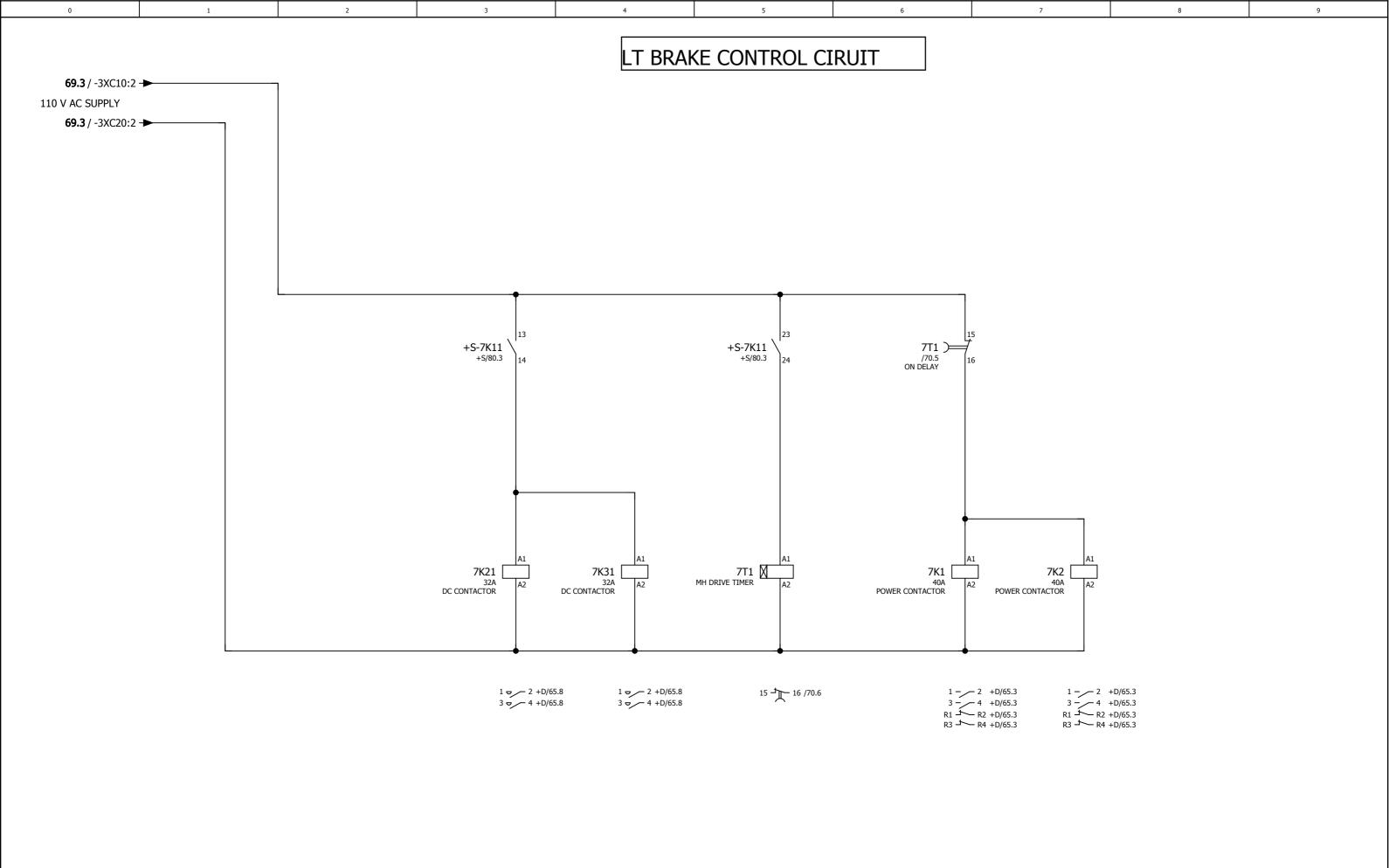
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110V AC SUPPLI DISTRIBUTIO

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 Name
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BRAKE SECTION

DRWG No : 1301146

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Project name SMS - 1

Plant Designation BRAKE SECTION

**Classification** ELECTRONICS

Control voltage 110V AC SUPPLY

Job number 1301146

**Application** SEMI PORTAL CRANE

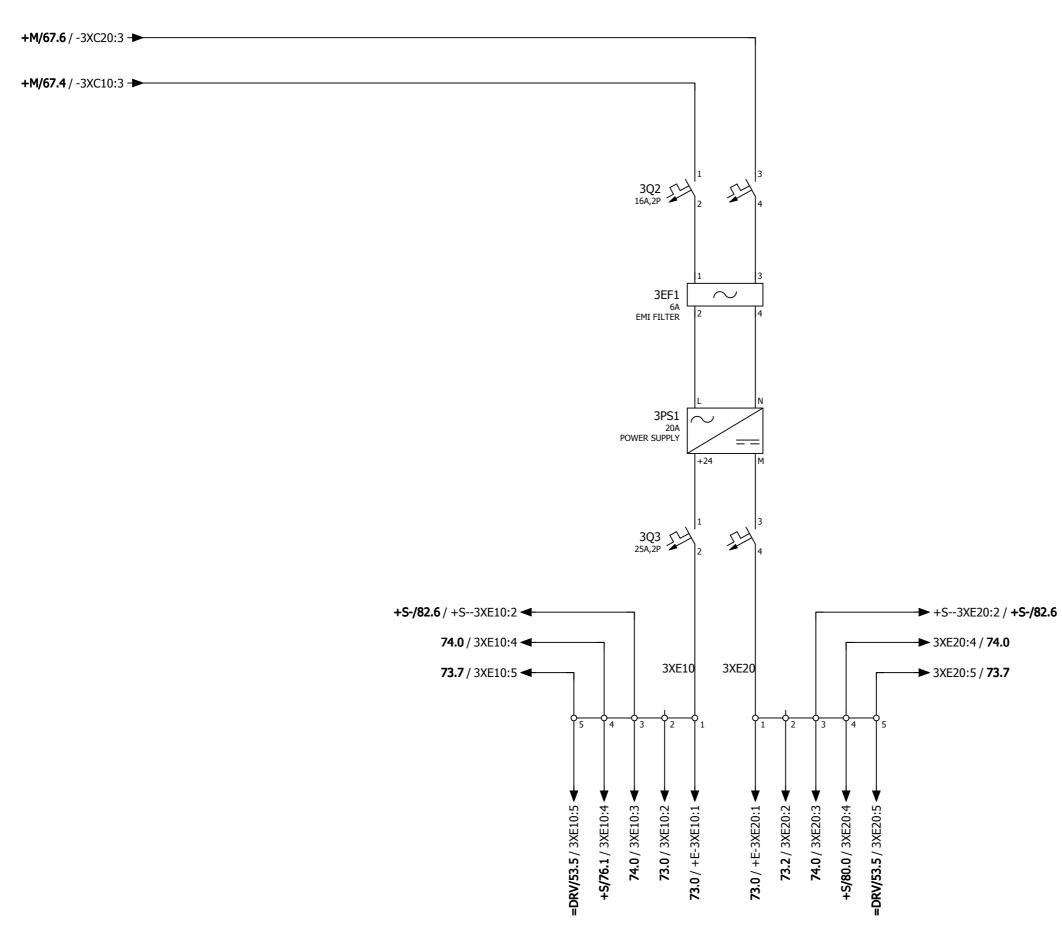
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24V DC SUPPLY DISTRIBUTION



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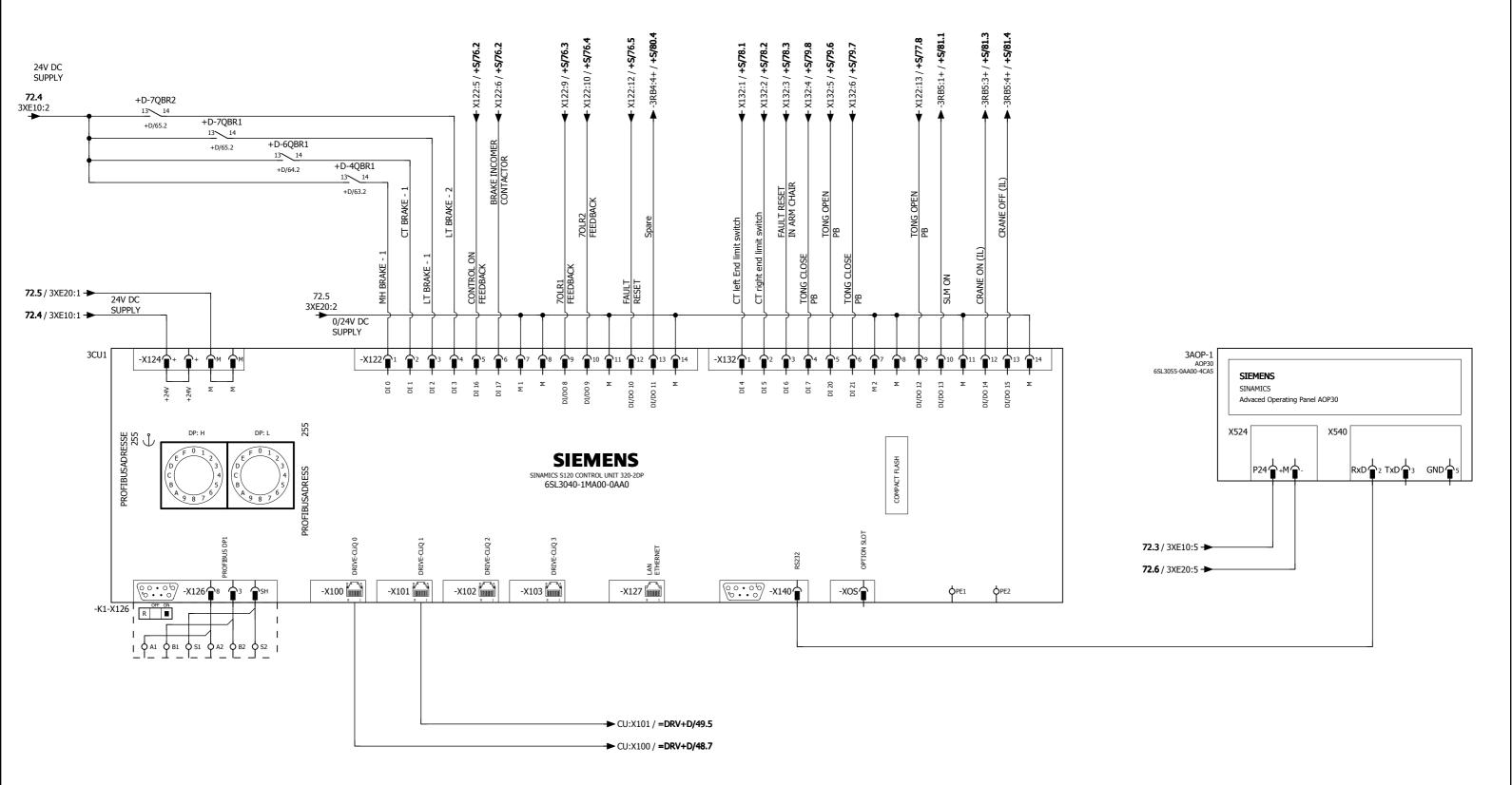
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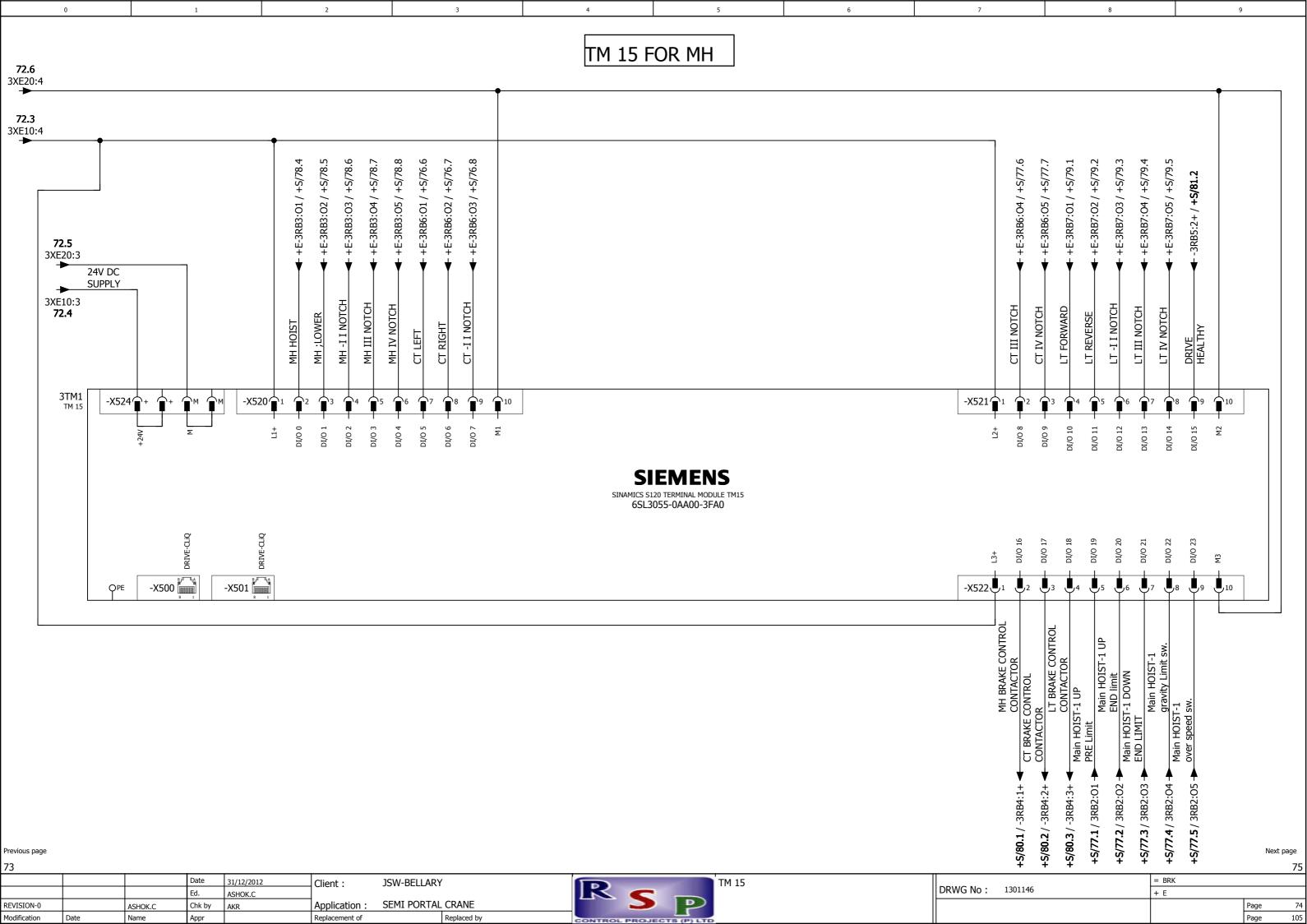
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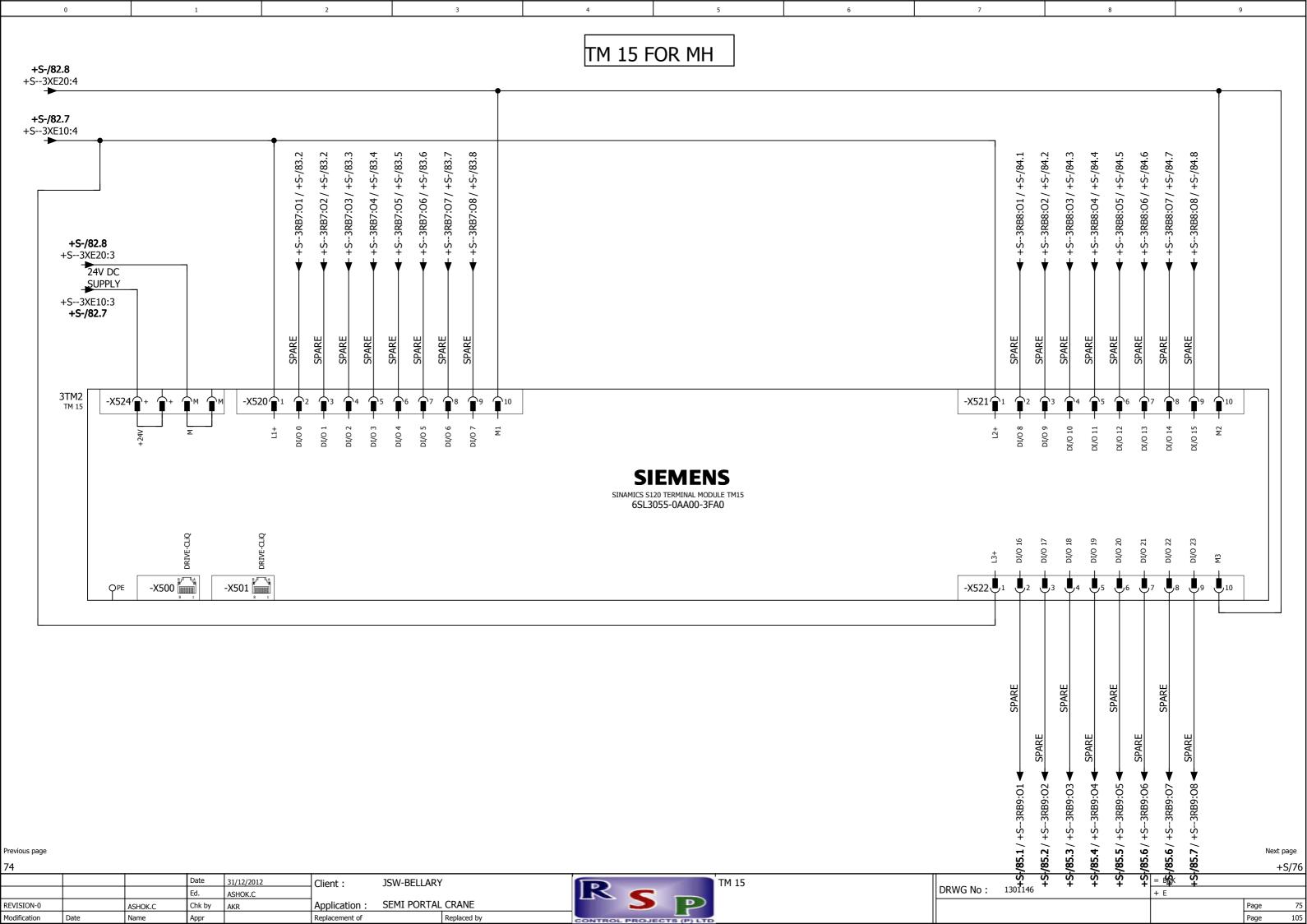
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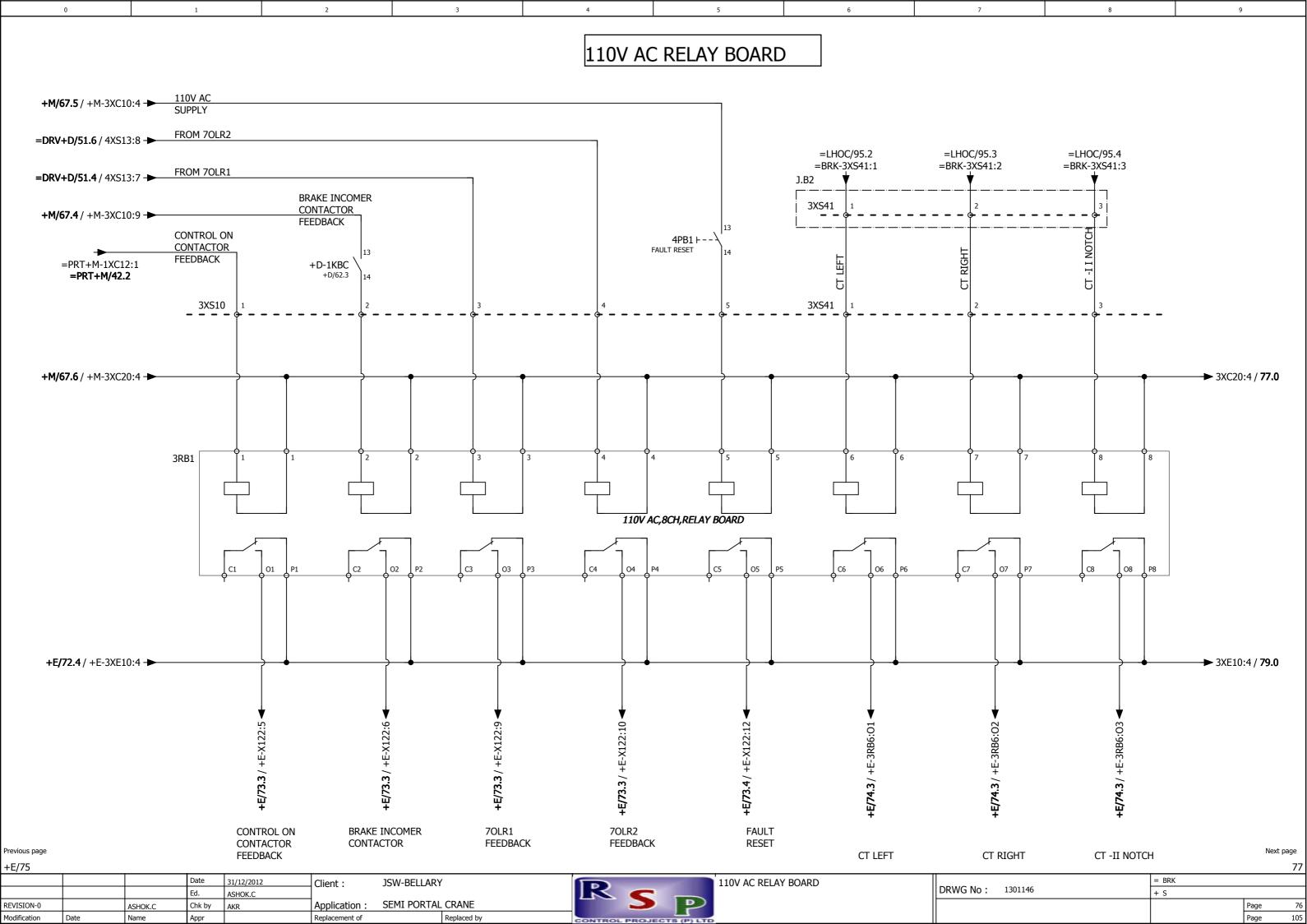


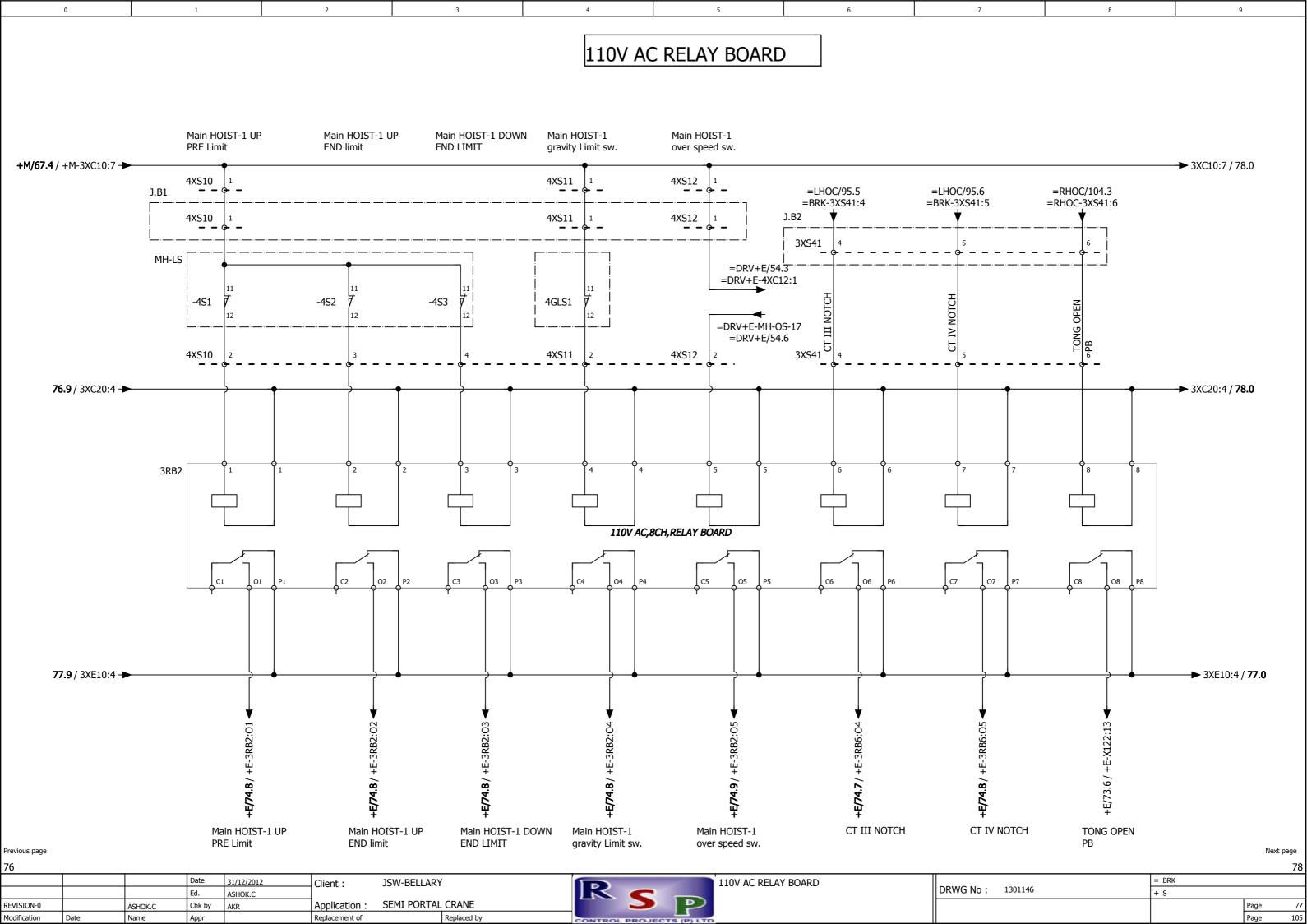
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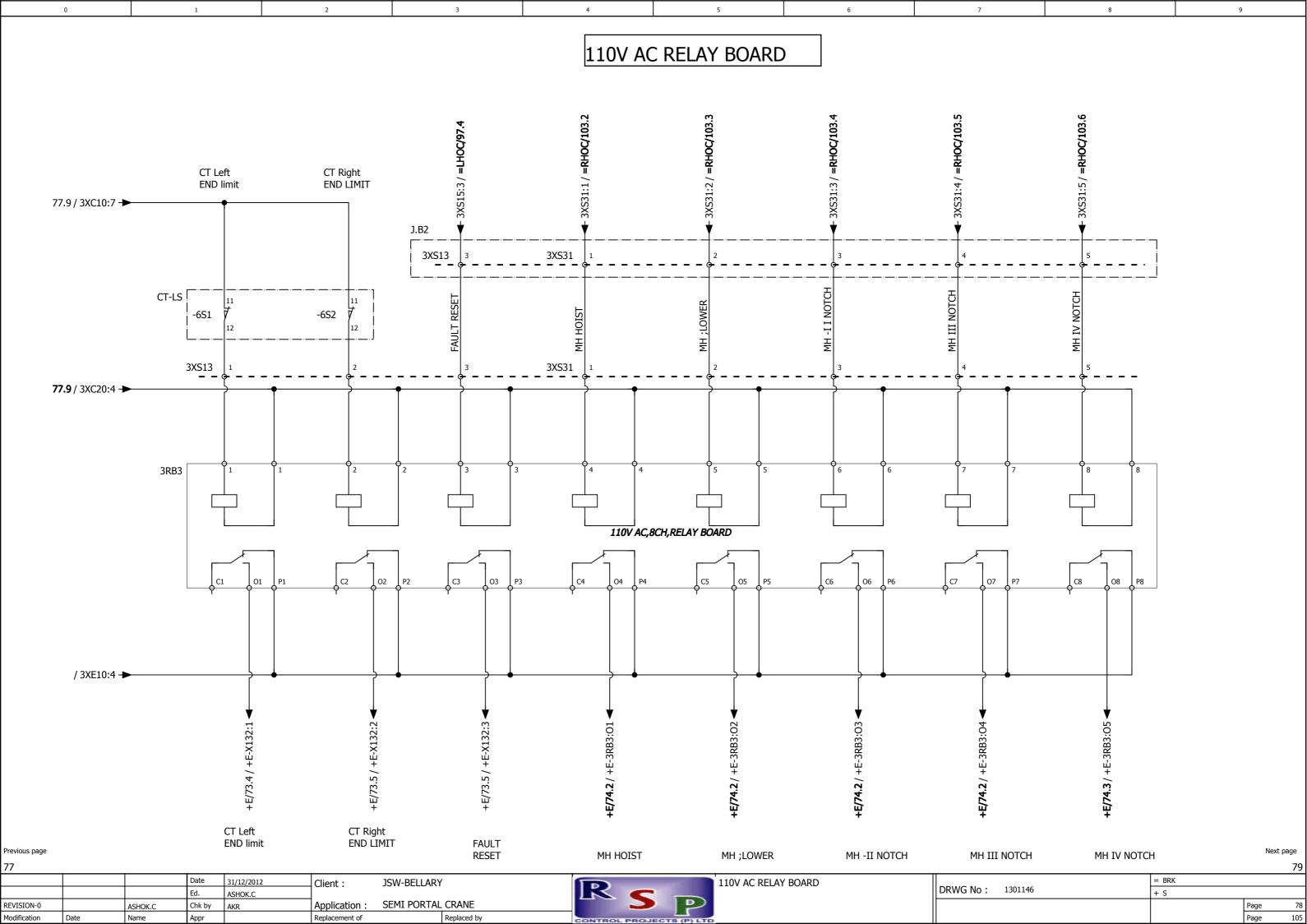
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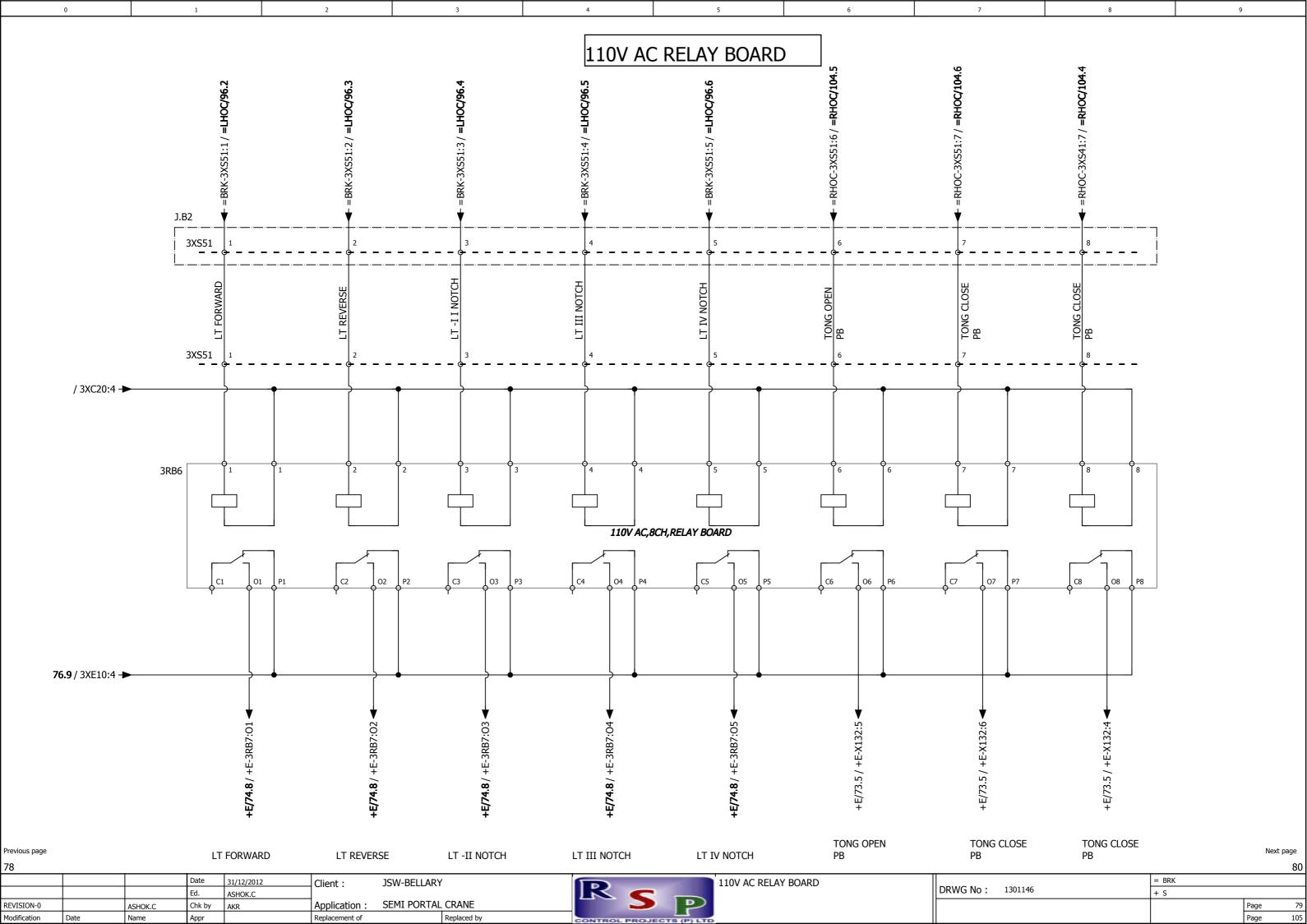


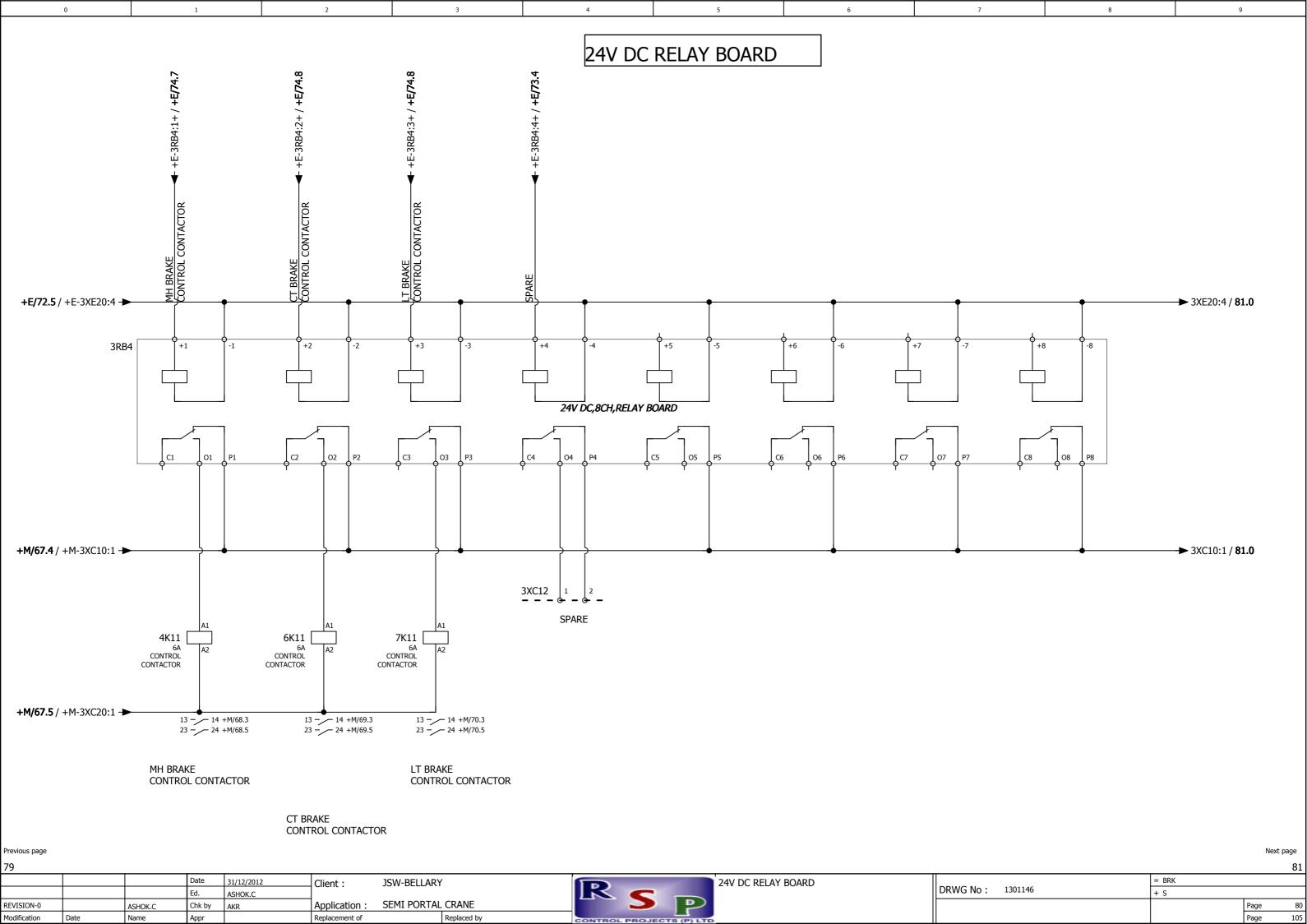


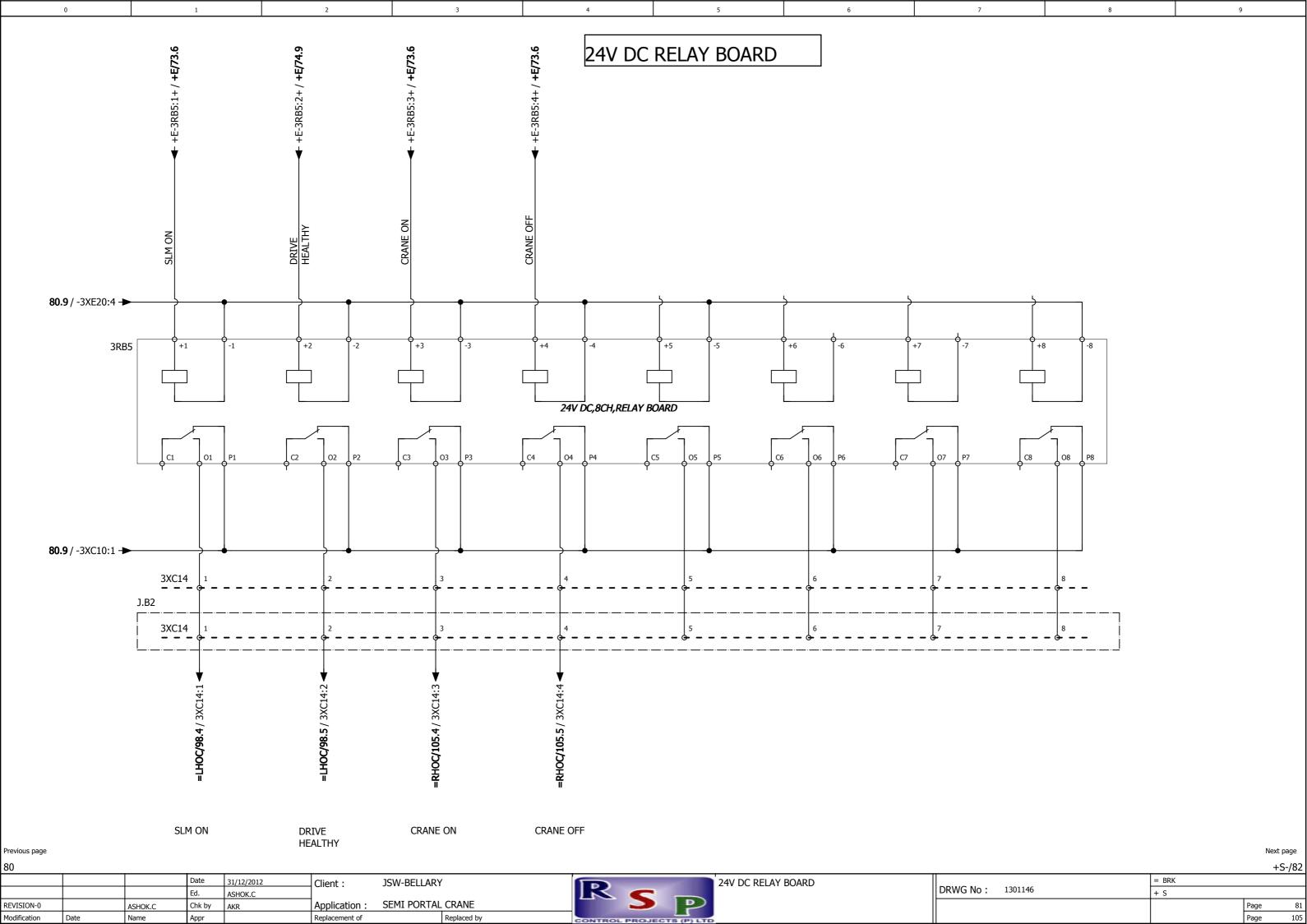






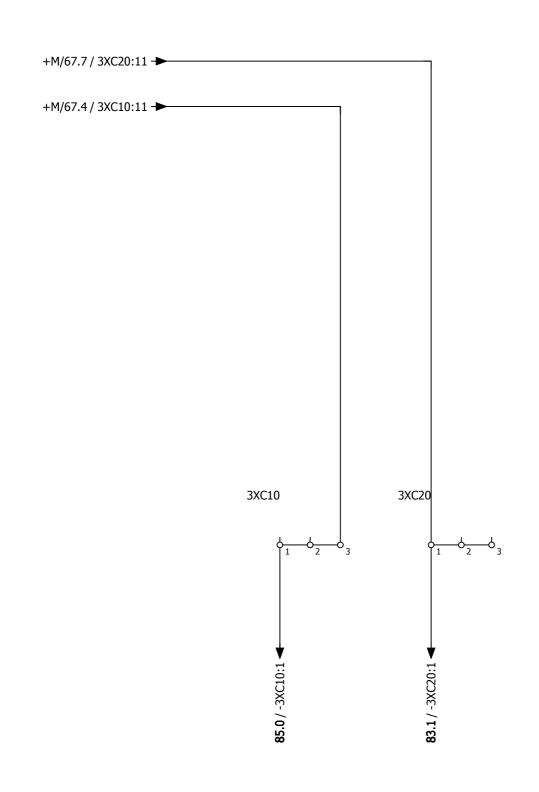


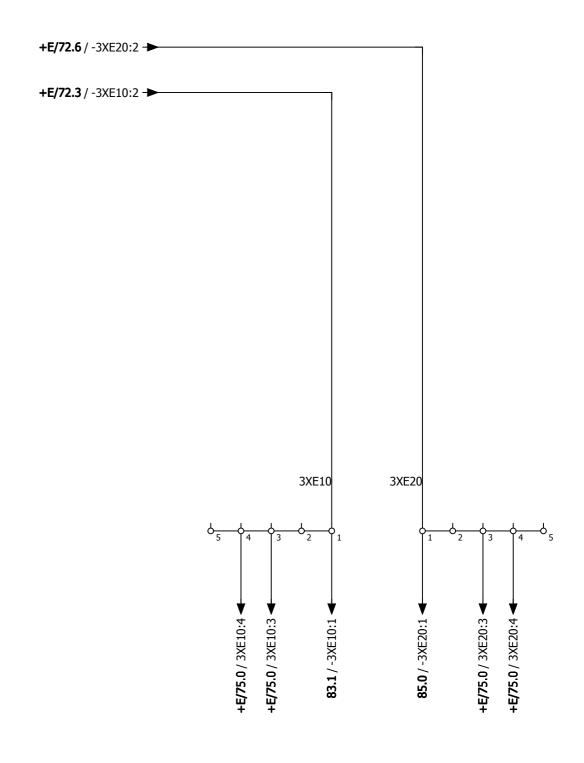




#### 110V AC SUPPLY DISTRIBUTION

#### 24V DC SUPPLY DISTRIBUTION





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REVISION-0

Modification

Date	31/12/2012	
Ed.	ASHOK.C	
ASHOK.C	Chk by	AKR
Date	Name	Appr

JSW-BELLARY

SEMI PORTAL CRANE

Client:

Application:

R S P

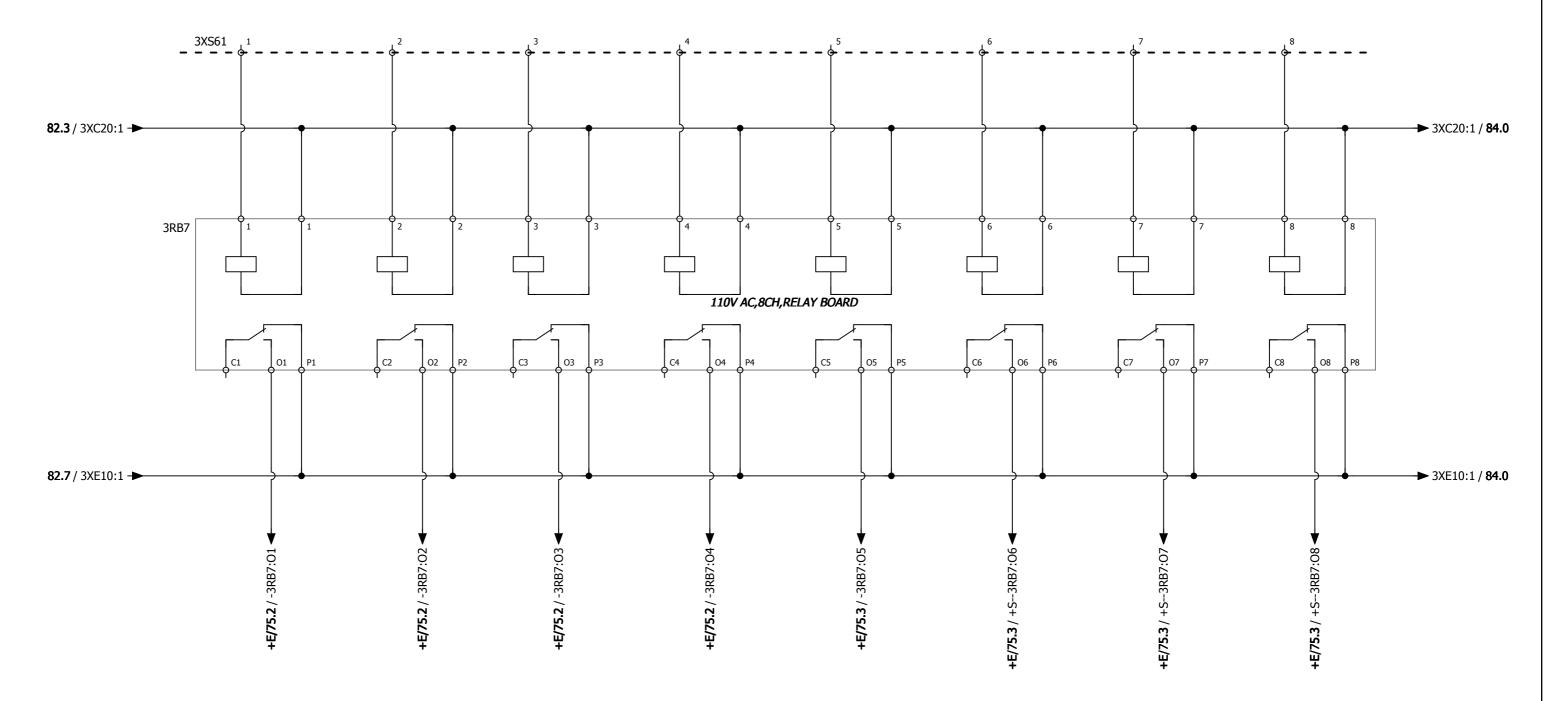
110 V AC DISTRIBUTION

BUTION

DRWG No : 1301146

= BRK + S-Page

### 110V AC RELAY BOARD

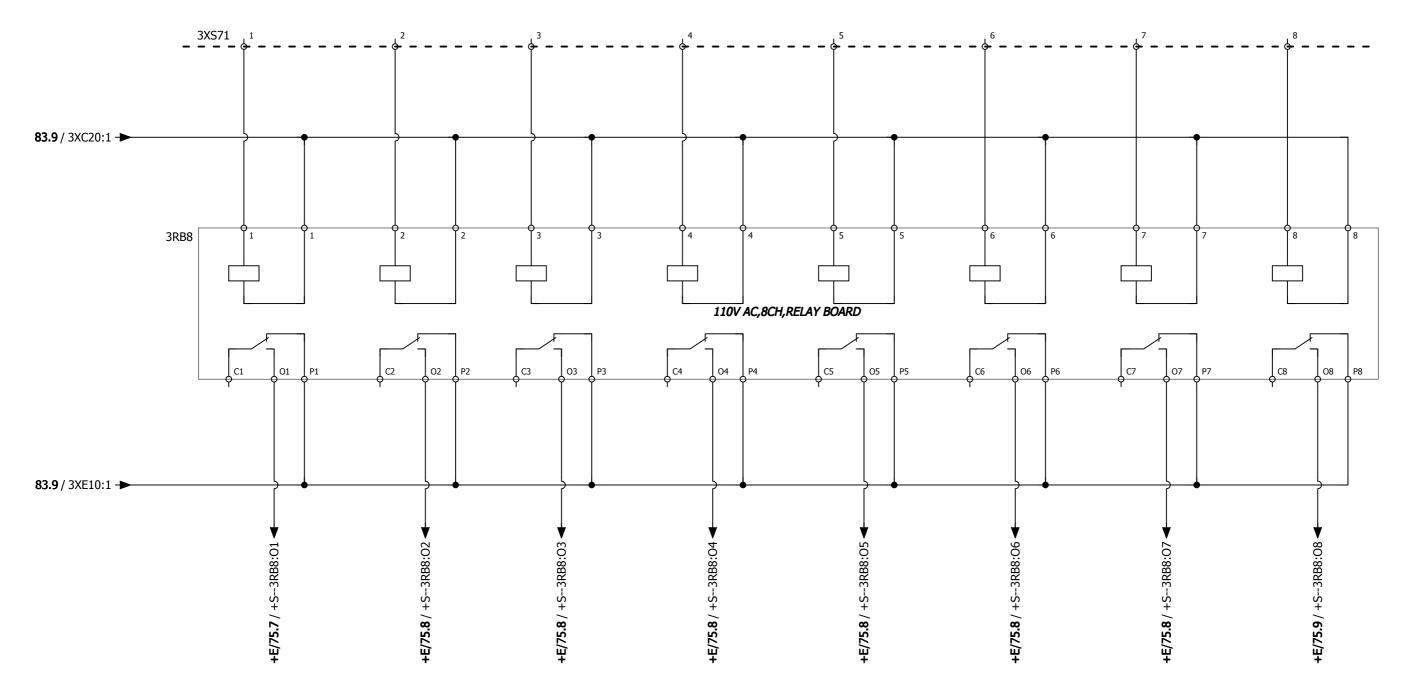


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### 110V AC RELAY BOARD

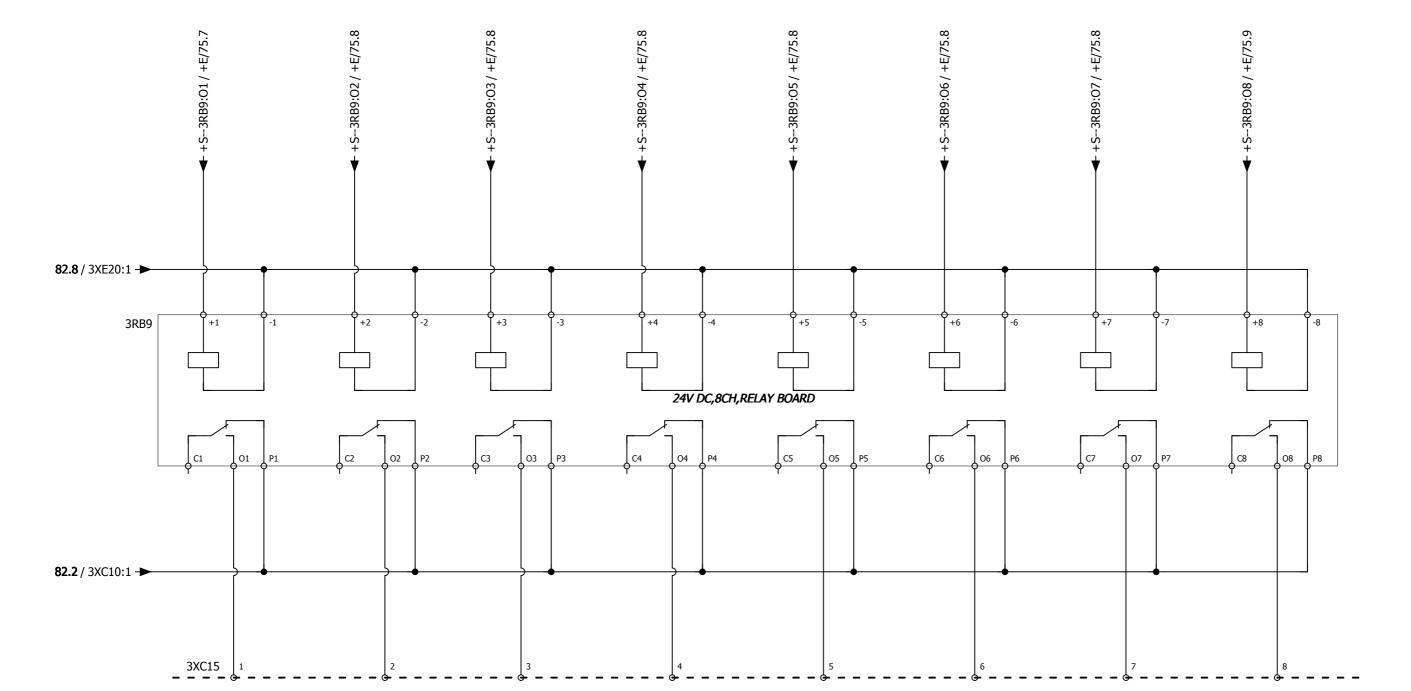


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### 24V DC RELAY BOARD



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| Client : JSW-BELLARY | SW-BELLARY ject name SMS - 1

ARMCHAIR **Plant Designation** 

Classification GENERAL ARRANGEMENT

Control voltage 110V AC SUPPLY

Job number 1301146

**Application** LANCE CRANE

31/12/2012

ASHOK.C

AKR

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JSW-BELLARY

SEMI PORTAL CRANE

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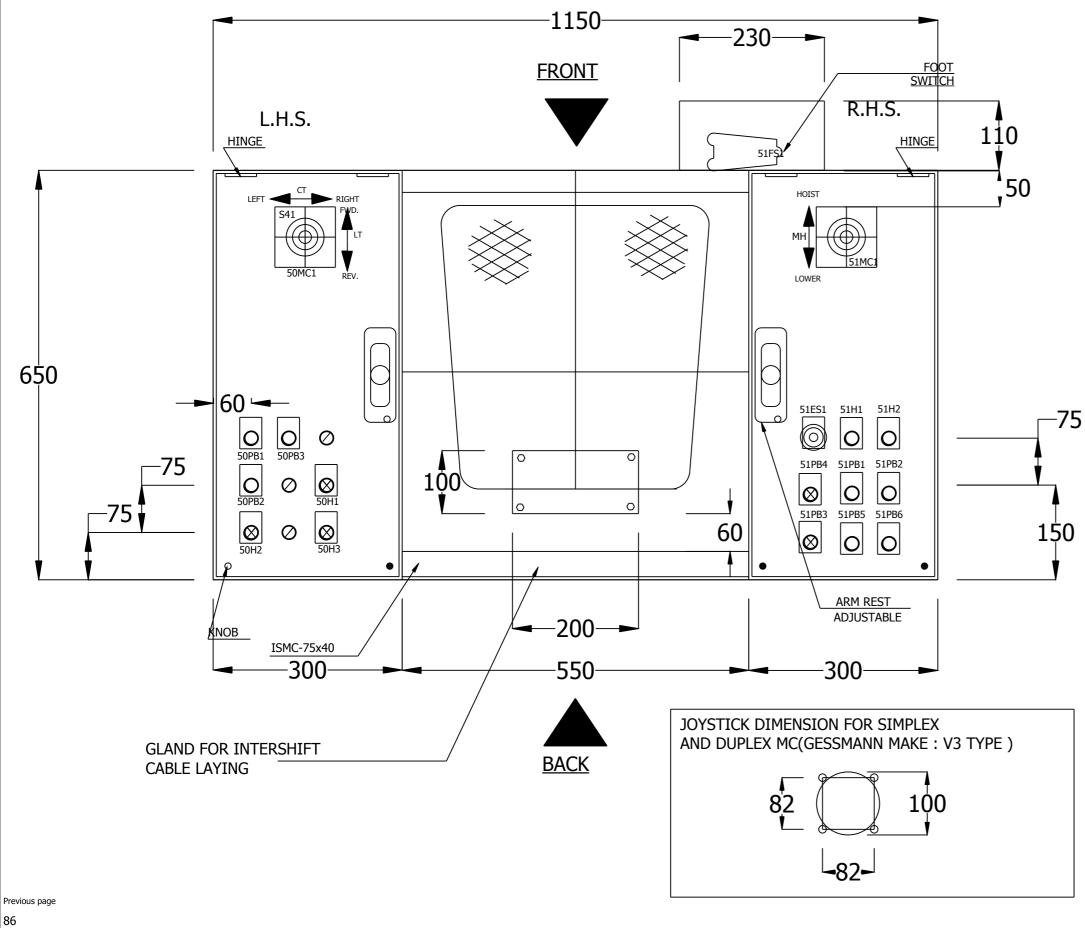
DRWG No: 1301146

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COVER PAGE

# TOP VIEW



LEGEND	NAME PLATE				
	RIGHT DESK				
51MC1	MAIN HOIST MASTER				
	CONTROLER (SIMPLEX)				
51PB1	CRANE ON (PB GREEN)				
51PB2	CRANE OFF (PB RED)				
51ES1	EM. STOP (PLTR RED)				
51FS1	FOOT SWITCH				
51PB3	TONG OPEN (PB BLUE)				
51PB4	TONG CLOSE (PB YELOW)				
51PB5	TONG OPEN (PB BLUE)				
51PB6	TONG CLOSE (PB YELLOW)				
51H1	CRANE ON (IL GREEN)				
51H2	CRANE OFF (IL RED)				
	<u>LEFT DESK</u>				
50MC1	CT/LT. MASTER CONTROLER				
JOINCI	(DUPLEX)				
50PB1	FAULT RESET (PB BLACK)				
50PB2	SPARE (PB GREEN)				
50PB3	SPARE (PB GREEN)				
50H1	SLM ON (IL RED)				
50H2	DRIVE FAULT (IL AMBER)				
50H3	SPARE (IL RED)				

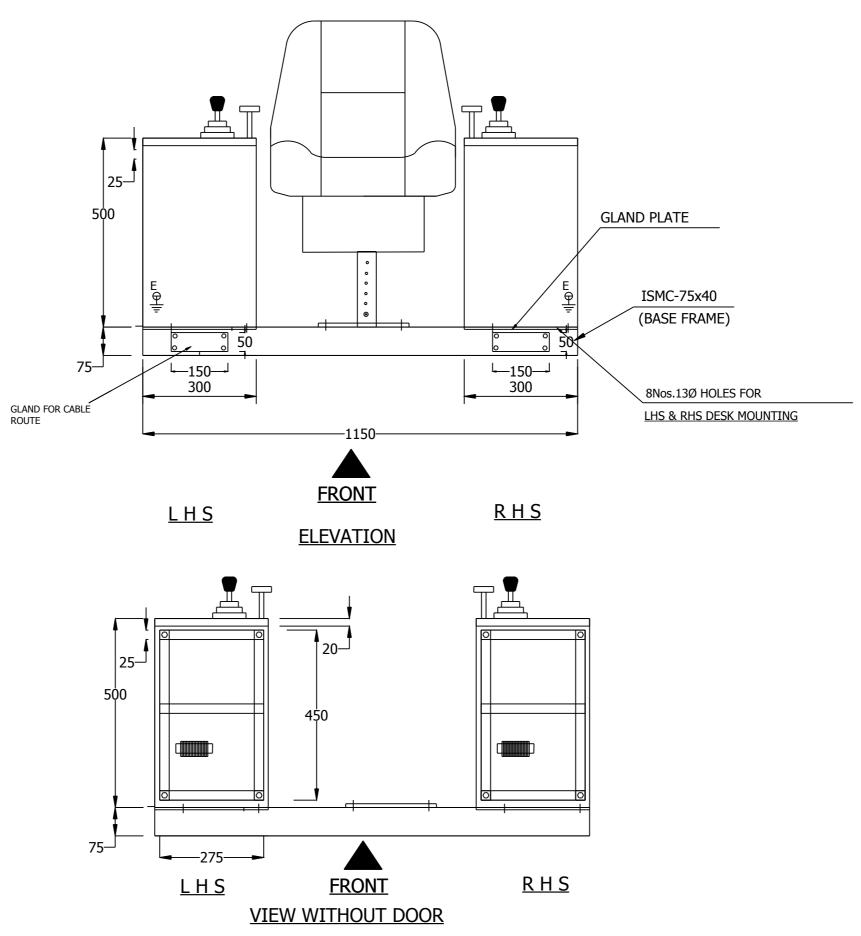
31/12/2012 JSW-BELLARY Client : ASHOK.C SEMI PORTAL CRANE REVISION-0 Chk by Application: ASHOK.C AKR Modification



GENERAL ARRANGEMENT

= LHOC DRWG No: 1301146 + A

### **FRONT VIEW**



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AKR

ASHOK.C

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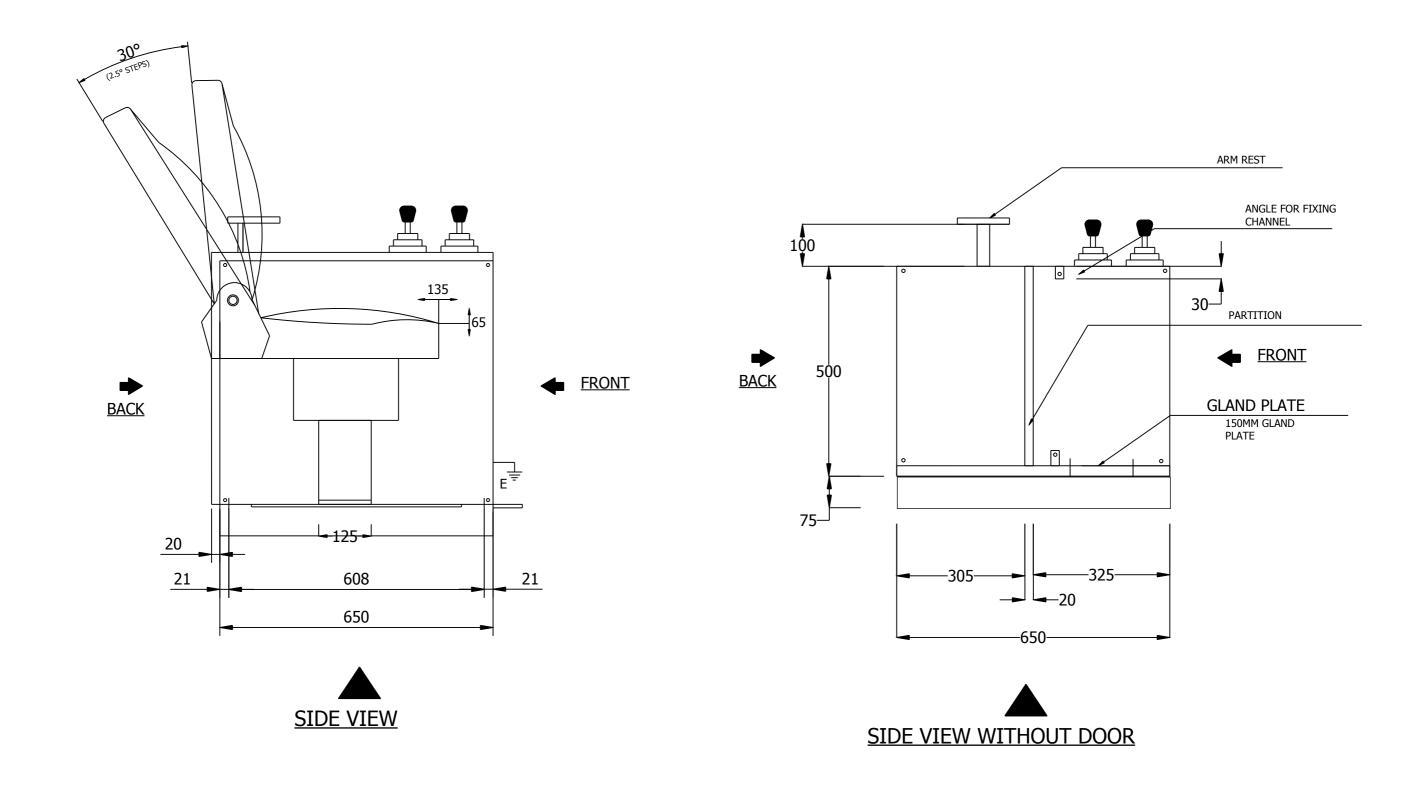
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SEMI PORTAL CRANE

Application:

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### **SIDE VIEW**



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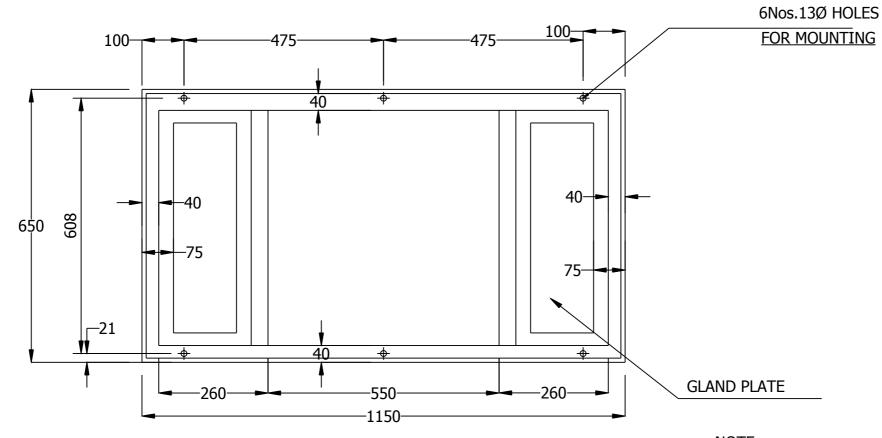
ENERAL ARRANGEMENT

DRWG No: 1301146

= LHOC
+ A

Page

#### **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 7032.
- 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 ±5 MM, EXCEPT FIXING.

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GENERAL ARRANGEMENT

DRWG No: 1301146

= LHOC

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Project name SMS - 1

Plant Designation ARMCHAIR LEFT CONSOLE

**Classification** PART LIST

Control voltage 110V AC SUPPLY

Job number 1301146

**Application** SEMI PORTAL CRANE

Remarks

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Modification

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## Parts list

Device Designation Quantity		DESCRIPTION	DADT NUMBER	MANUEACTURER		
Schematic / position	Quantity	DESCRIPTION	PART NUMBER	MANUFACTURER	FUNCTION TEXT	
+S-50H1 +S/92.4	1	LAMP/RED	3SB52 85-6HC02	SIEMENS	RED SLM ON	
+S-50H2 +S/92.5	1	LAMP/AMBER	3SB52 85-6HL02	SIEMENS	AMBER DRIVE HEALTHY	
+S-50H3 +S/92.6	1	LAMP/AMBER	3SB52 85-6HL02	SIEMENS	AMBER SPARE	
+S-50MC1 +S/89.0	1	5-0-5 Notch,8CAM,DUPLEX,JOYSTICK	V3	GESMANN	Master controller Duplex	
+S-50S1 +S/91.4	1	PB/BLACK	3SB50 00-0AB01	SIEMENS	BLACK FAULT RESET	
+S-50S2 +S/91.5	1	PB/GREEN	3SB50 00-0AE01	SIEMENS	SPARE GREEN	
+S-50S2 +S/91.5	1	NO ELEMENT	3SB54 00-0B	SIEMENS	=	
+S-50S3 +S/91.6	1	PB/GREEN	3SB50 00-0AE01	SIEMENS	=	
+S-50S3 +S/91.6	1	NO ELEMENT	3SB54 00-0B	SIEMENS	=	

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+S/93 31/12/2012 JSW-BELLARY PART LIST = LHOC Client : DRWG No: 1301146 + P

ASHOK.C SEMI PORTAL CRANE REVISION-0 Chk by Application: ASHOK.C AKR Modification Replacement of



Project name SMS - 1

Plant Designation ARMCHAIR LEFT CONSOLE

Classification PLC CONNECTION

Control voltage 110V AC SUPPLY

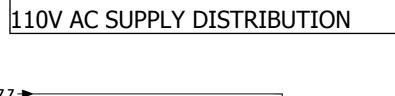
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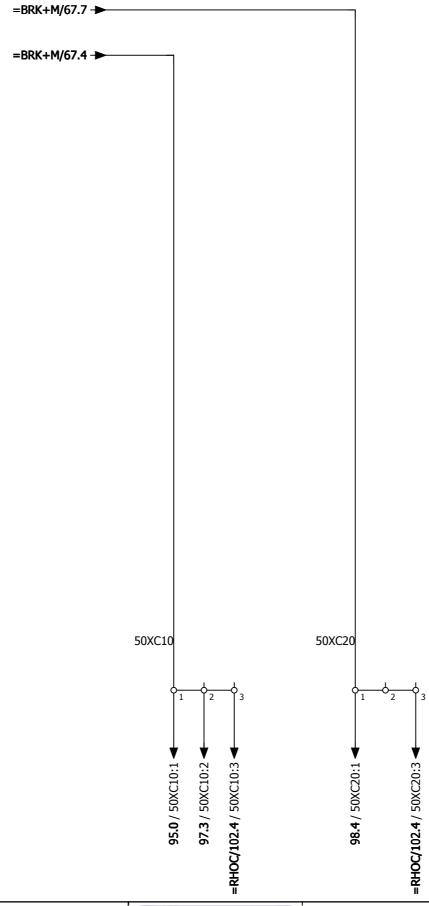
**Application** SEMI PORTAL CRANE

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31/12/2012

JSW-BELLARY

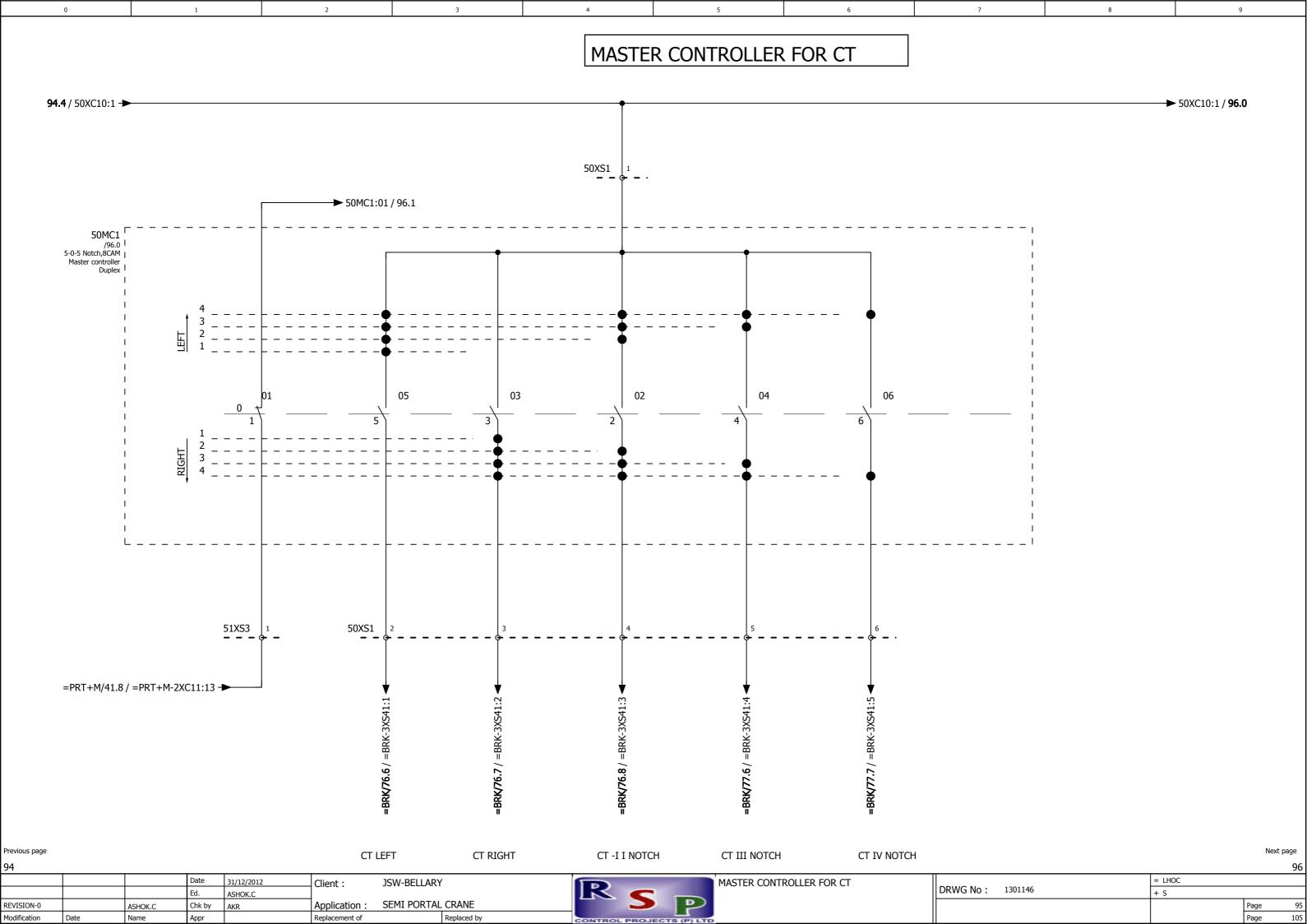
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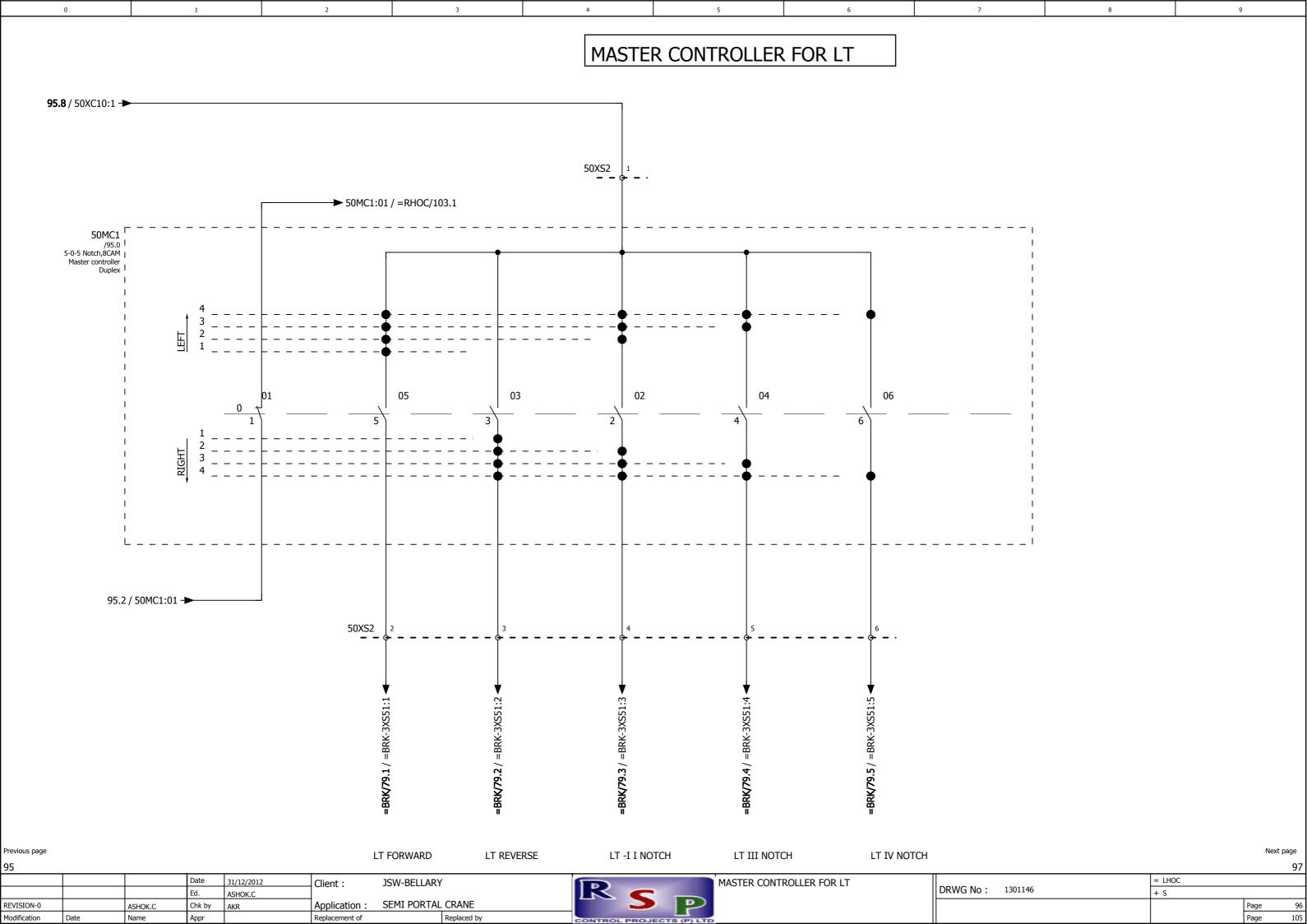
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110V AC SUPPLY DISTRIBUTION

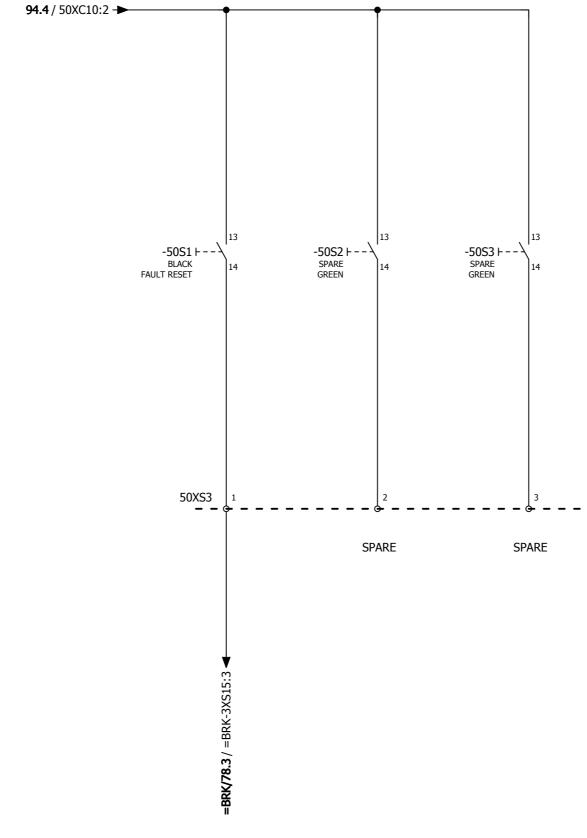
DRWG No : 1301146

= LHOC + S





PUSH BUTTONS



FAULT RESET

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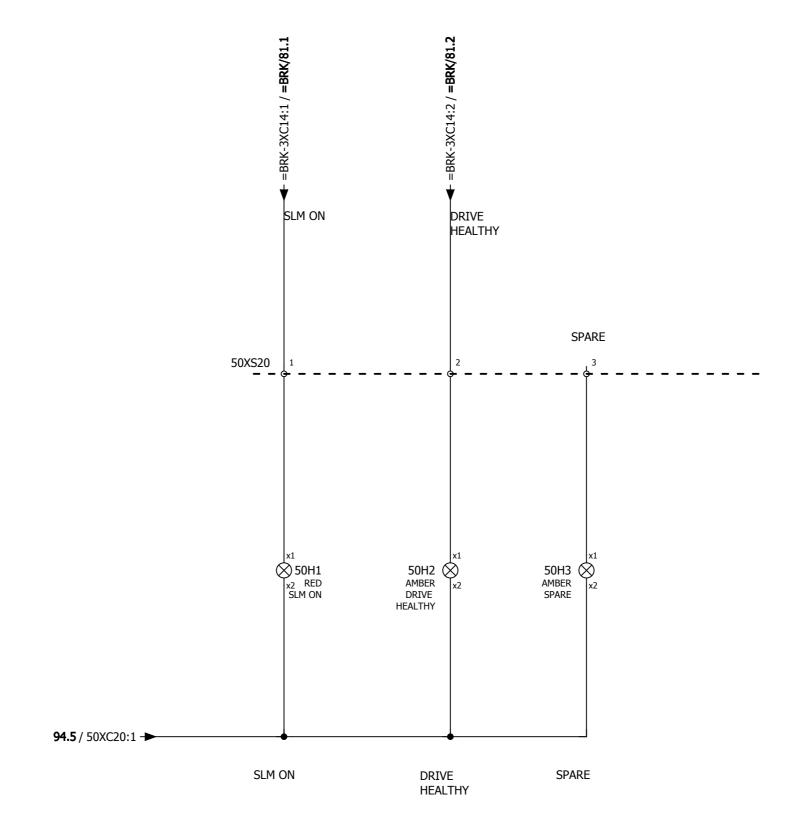
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| Date | 31/12/2012 | Client : | JSW-BELLARY | PUSH BUTTONS | PUSH BUTTONS | ELHOC | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BUTTONS | PUSH BU

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| FOST BOTTONS | DRWG No : 1301146 | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost | Fost |

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INDICATION LAMP = LHOC DRWG No: 1301146

Project name SMS - 1

Plant Designation ARMCHAIR RIGHT CONSOLE

**Classification** PART LIST

Control voltage 110V AC SUPPLY

Job number 1301146

31/12/2012

ASHOK.C

AKR

Chk by

ASHOK.C

**Application** SEMI PORTAL CRANE

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JSW-BELLARY

SEMI PORTAL CRANE

Client :

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DRWG No : 1301146

= RHOC + P Page

## Parts list

1 1 1 1 1 1 1	PB/GREEN  NO ELEMENT  LAMP/RED  LAMP/GREEN  LAMP/GREEN  LAMP/GREEN	3SB50 00-0AE01  3SB54 00-0B  3SB52 85-6HC02  3SB52 85-6HE02  3SB52 85-6HE02	SIEMENS  SIEMENS  SIEMENS  SIEMENS	CRANE ON GREEN PB  =  RED CRANE ON  GREEN CRANE OFF
1 1 1	LAMP/RED  LAMP/GREEN  LAMP/GREEN	3SB52 85-6HC02 3SB52 85-6HE02	SIEMENS	RED CRANE ON
1 1	LAMP/GREEN  LAMP/GREEN	3SB52 85-6HE02	SIEMENS	
1	LAMP/GREEN			GREEN CRANE OFF
1		3SB52 85-6HE02	SIEMENS	
	LAMP/RED			SPARE
1		3SB52 85-6HC02	SIEMENS	=
	5-0-5 Notch,8CAM,SIMPLEX,JOYSTICK	V31	GESMANN	Master controller SIMPLEX
1	PB/RED	3SB50 00-0AC01	SIEMENS	CRANE OFF RED PB
1	NC ELEMENT	3SB54 00-0C	SIEMENS	=
1	MPB/RED	3SB52 03-0UC01	SIEMENS	E-STOP RED MPB
1	PB/BLUE	3SB50 00-0AF01	SIEMENS	TONG OPEN BLUE PB
1	NO ELEMENT	3SB54 00-0B	SIEMENS	=
1	PB/YELLOW	3SB50 00-0AD01	SIEMENS	TONG CLOSE YELLOW PB
1	NO ELEMENT	3SB54 00-0B	SIEMENS	=
1	PB/BLUE	3SB50 00-0AF01	SIEMENS	TONG OPEN BLUE PB
1	NO ELEMENT	3SB54 00-0B	SIEMENS	=
1	PB/YELLOW	3SB50 00-0AD01	SIEMENS	TONG CLOSE YELLOW PB
1	NO ELEMENT	3SB54 00-0B	SIEMENS	=
	1 1 1 1 1 1 1 1 1 1 1	1 NC ELEMENT  1 MPB/RED  1 PB/BLUE  1 NO ELEMENT  1 PB/YELLOW  1 NO ELEMENT  1 PB/BLUE  1 NO ELEMENT  1 PB/BLUE  1 PB/BLUE	1       NC ELEMENT       3SB54 00-0C         1       MPB/RED       3SB52 03-0UC01         1       PB/BLUE       3SB50 00-0AF01         1       NO ELEMENT       3SB54 00-0B         1       PB/YELLOW       3SB50 00-0AD01         1       NO ELEMENT       3SB54 00-0B         1       PB/BLUE       3SB50 00-0AF01         1       NO ELEMENT       3SB54 00-0B         1       PB/YELLOW       3SB50 00-0AD01	1       NC ELEMENT       3SB54 00-0C       SIEMENS         1       MPB/RED       3SB52 03-0UC01       SIEMENS         1       PB/BLUE       3SB50 00-0AF01       SIEMENS         1       NO ELEMENT       3SB54 00-0B       SIEMENS         1       PB/YELLOW       3SB50 00-0AD01       SIEMENS         1       NO ELEMENT       3SB54 00-0B       SIEMENS         1       PB/BLUE       3SB50 00-0AF01       SIEMENS         1       NO ELEMENT       3SB54 00-0B       SIEMENS         1       PB/YELLOW       3SB50 00-0AD01       SIEMENS

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Project name SMS - 1

Plant Designation ARMCHAIR RIGHT CONSOLE

Classification PLC CONNECTION

Control voltage 110V AC SUPPLY

Job number 1301146

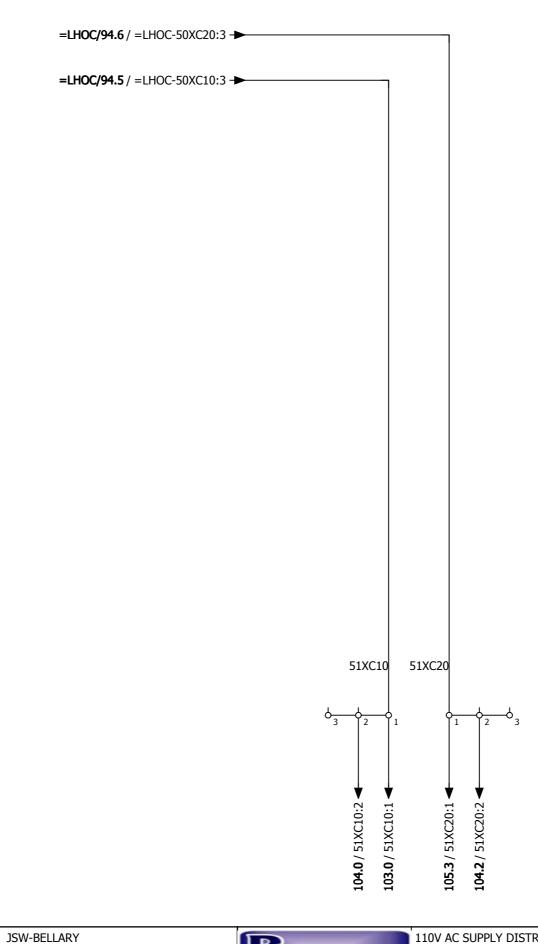
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#### 110V AC SUPPLY DISTRIBUTION



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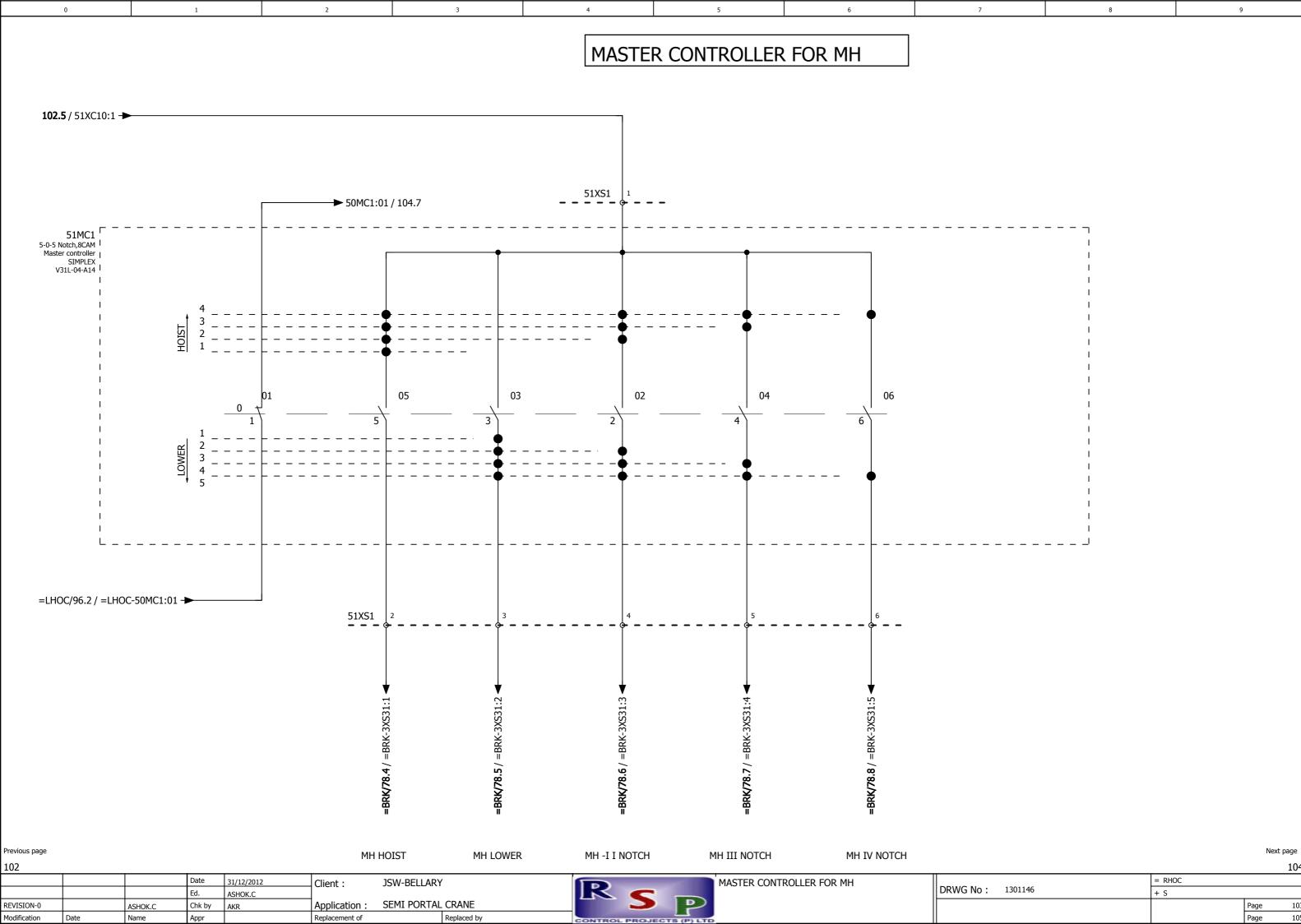
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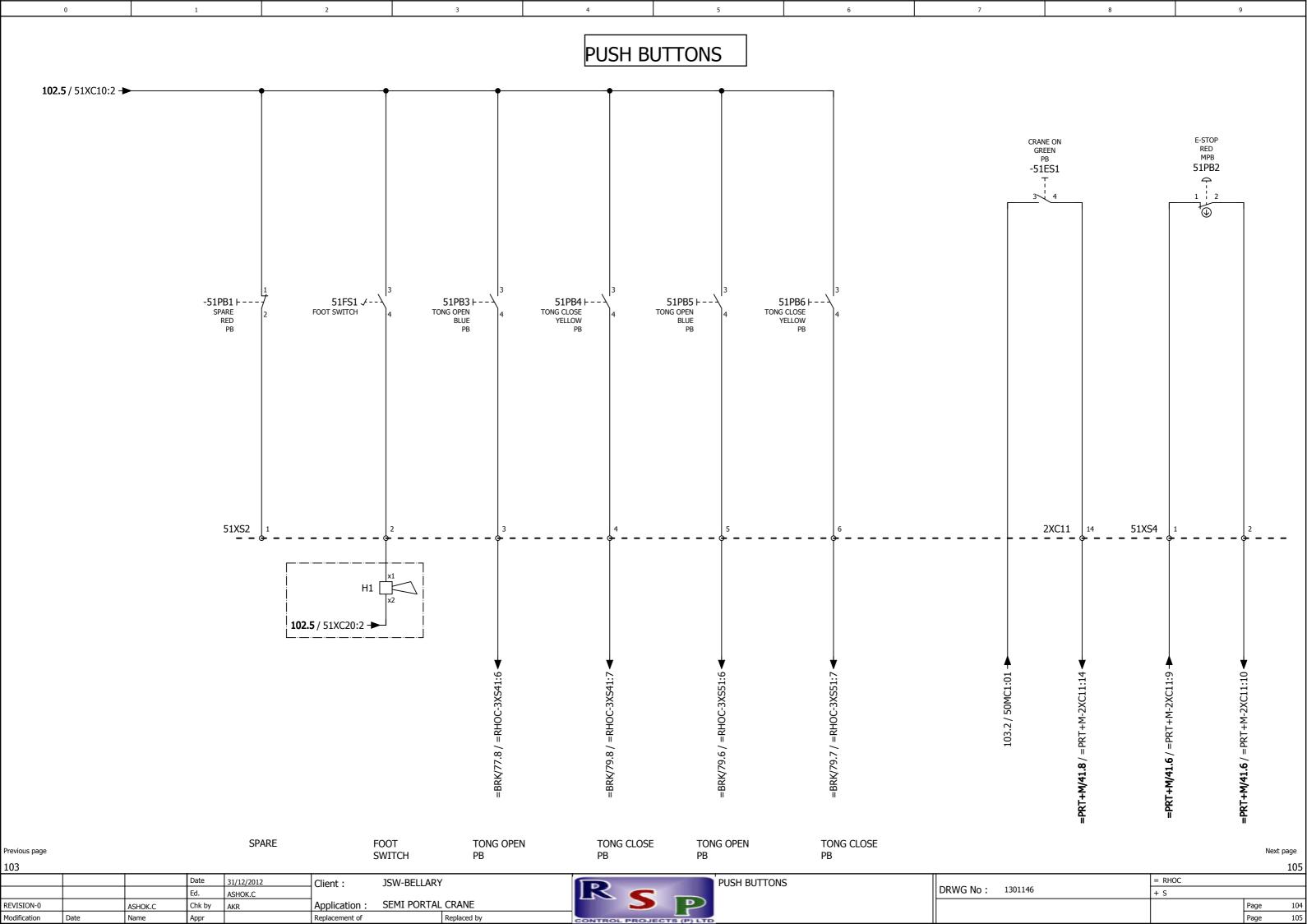
SEMI PORTAL CRANE

110V AC SUPPLY DISTRIBUTION

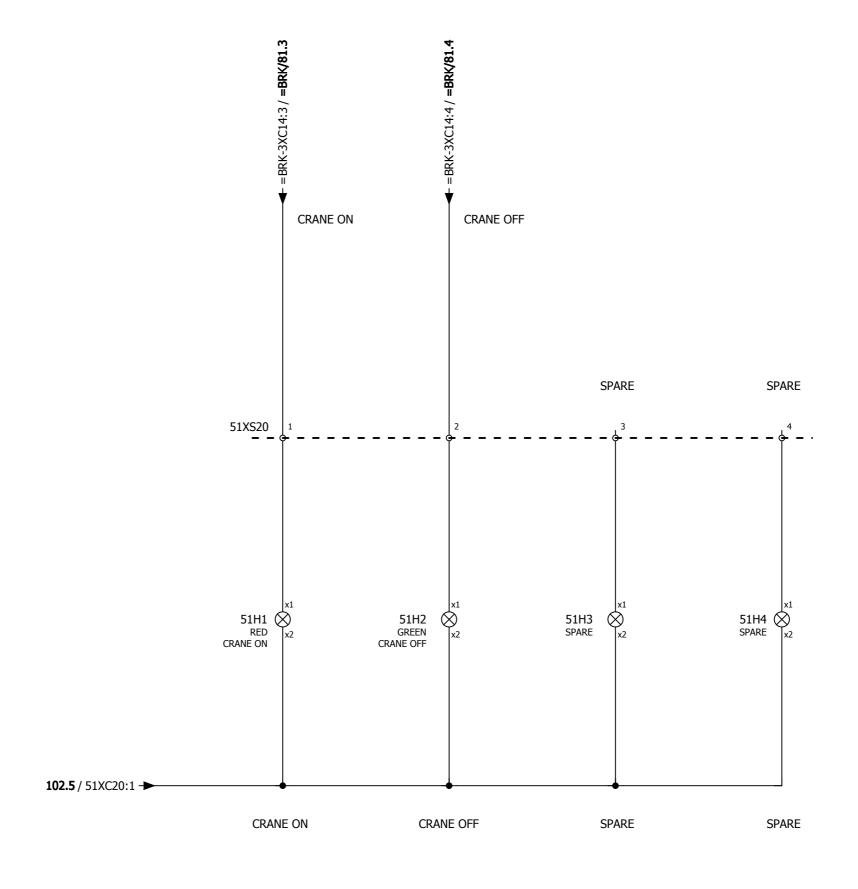
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SEMI PORTAL CRANE

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