



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


Created on	07-01-2013	Edit date	04-06-2013	Number of pages	105
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			Date	31/12/2012	Client : JSW-BELLARY		TITLE PAGE	DRWG No : 1301146		=
			Ed.	ASHOK.C						+
REVISION-0		ASHOK.C	Chk by	AKR						
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0	1	2	3	4	5	6	7	8	9
<div>SEMI PORTAL</div>									
<div>DESIGN INSTRUCTION</div>									
<div>ALL DIMENSIONS ARE IN MM</div> <div>PANEL IS FLOOR MOUNTING TYPE</div>				<div>INCOMING SUPPLY</div>		<div>415V AC</div>			
<div>DIMENSION DETAILS</div>				<div>POWER CABLES</div>		<div>4 SQ MM BLACK</div>			
<div>E-ROOM :</div>				<div>CONTROL CABLES</div>		<div>2.5 SQ MM GRAY</div>			
<div>MAKE</div>		<div>REPUTED</div>		<div>CONTROL VOLTAGE</div>		<div>110V AC SUPPLY</div>			
<div>HEIGHT</div>		<div>2300 mm(EXTERNAL) / 2100 mm(INTERNAL)</div>		<div>INCOMING SUPPLY CABLE</div>					
<div>WIDTH</div>		<div>1700 mm(EXTERNAL) / 1550 mm(INTERNAL)</div>		<div>IP CLASS</div>		<div>IP41</div>			
<div>DEPTH</div>		<div>6100 mm(EXTERNAL) / 5950 mm(INTERNAL)</div>		<div>PART FEATURES</div>		<div>SINAMICS S120</div>			
<div>MOUNTING PLATE :</div>									
<div>MAKE</div>		<div>-----</div>							
<div>HEIGHT</div>		<div>1880 mm</div>							
<div>WIDTH</div>		<div>530 mm , 730 mm</div>							
<div>DEPTH</div>		<div>25mm</div>							
<div>THICKNESS</div>		<div>3mm</div>							
<div>MOUNTING PLATE</div>		<div>G.I COATED</div>		<div>EARTH BUS STRIP TO BE PROVIDED AS PER STANDARD</div> <div>SHROUDING TO BE PROVIDED AS PER STANDARD</div>					

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

Project name	SMS - 1
Plant Designation	
Classification	TABLE OF CONTENT
Control voltage	110V AC SUPPLY

Job number	1301146
Application	SEMI PORTAL CRANE
Remarks	

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=TOC +T	TABLE OF CONTENT			
	4	COVER PAGE	REVISION-0	6
	5	TABLE OF CONTENT	REVISION-0	6
	6	TABLE OF CONTENT	REVISION-0	6
	7	TABLE OF CONTENT	REVISION-0	6
	8	TABLE OF CONTENT	REVISION-0	6
=G.A +A	9	TABLE OF CONTENT		6
	GENERAL ARRANGEMENT			
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	11	GENERAL ARRANGEMENT	REVISION-0	5
	12	GENERAL ARRANGEMENT	REVISION-0	5
=SLD	13	GENERAL ARRANGEMENT	REVISION-0	5
	14	GENERAL ARRANGEMENT	REVISION-0	5
	SINGLE LINE DIAGRAM			
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=ISO +A	18	SINGLE LINE DIAGRAM	REVISION-0	6
	19	COVER PAGE	REVISION-0	6
	20	OVER VIEW	REVISION-0	6
	ISOLATOR SECTION			
	21	COVER PAGE	REVISION-0	2
=ISO +P	22	GENERAL ARRANGEMENT	REVISION-0	2
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	23	COVER PAGE	REVISION-0	2

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=ISO +D		ISOLATOR SECTION		
	25	COVER PAGE	REVISION-0	2
	26	THREE LINE DIAGRAM	REVISION-0	2
=PRT +A		PROTECTIVE SECTION		
	27	COVER PAGE	REVISION-0	2
	28	GENERAL ARRANGEMENT	REVISION-0	2
=PRT +P		PROTECTIVE SECTION		
	29	COVER PAGE	REVISION-0	3
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	33	THREE LINE DIAGRAM	REVISION-0	5
	34	LIGHTING , A/C & WELDING	REVISION-0	5
	35	UB & UTILITIES	REVISION-0	5
	36	PRE-CHARGING SUPPLY	REVISION-0	5
=PRT +M		PROTECTIVE SECTION		
	37	COVER PAGE	REVISION-0	4
	38	CONTROL CIRCUIT	REVISION-0	4
	39	CONTROL CIRCUIT	REVISION-0	4
	40	CONTROL CIRCUIT	REVISION-0	4
=DRV +A		DRIVE SECTION		
	41	COVER PAGE	REVISION-0	2
	42	GENERAL ARRANGEMENT	REVISION-0	2
=DRV +P		DRIVE SECTION		
	43	COVER PAGE	REVISION-0	2
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=BRK +E	BRAKE SECTION			
	69	COVER PAGE	REVISION-0	4
	70	24V DC SUPPLY DISTRIBUTION	REVISION-0	4
	71	CU 320 2DP	REVISION-0	4
	72	TM 15	REVISION-0	4
=BRK +S	BRAKE SECTION			
	73	110V AC RELAY BOARD	REVISION-0	7
	74	110V AC RELAY BOARD	REVISION-0	7
	75	110V AC RELAY BOARD	REVISION-0	7
	76	110V AC RELAY BOARD	REVISION-0	7
	77	110V AC RELAY BOARD	REVISION-0	7
	78	24V DC RELAY BOARD	REVISION-0	7
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=LHOC +A	ARMCHAIR-LHOC			
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	81	GENERAL ARRANGEMENT	REVISION-0	5
	82	GENERAL ARRANGEMENT	REVISION-0	5
	83	GENERAL ARRANGEMENT	REVISION-0	5
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=LHOC +P	ARMCHAIR-LHOC			
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=LHOC +S	ARMCHAIR-LHOC			
	87	COVER PAGE	REVISION-0	6
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=LHOC +S		ARMCHAIR-LHOC		
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	92	INDICATION LAMP	REVISION-0	6
=RHOC +P		ARMCHAIR-RHOC		
	93	COVER PAGE	REVISION-0	2
	94	PART LIST	REVISION-0	2
=RHOC +S		ARMCHAIR-RHOC		
	95	COVER PAGE	REVISION-0	5
	96	24V DC SUPPLY DISTRIBUTION	REVISION-0	5
	97	MASTER CONTROLLER FOR MH	REVISION-0	5
	98	PUSH BUTTONS	REVISION-0	5
	99	INDICATION LAMP	REVISION-0	5

**Project name**

**SMS - 1**

## Plant Designation

## Classification

## GENERAL ARRANGEMENT

### Control voltage

## 110V AC SUPPLY

**Job number**

**1301146**

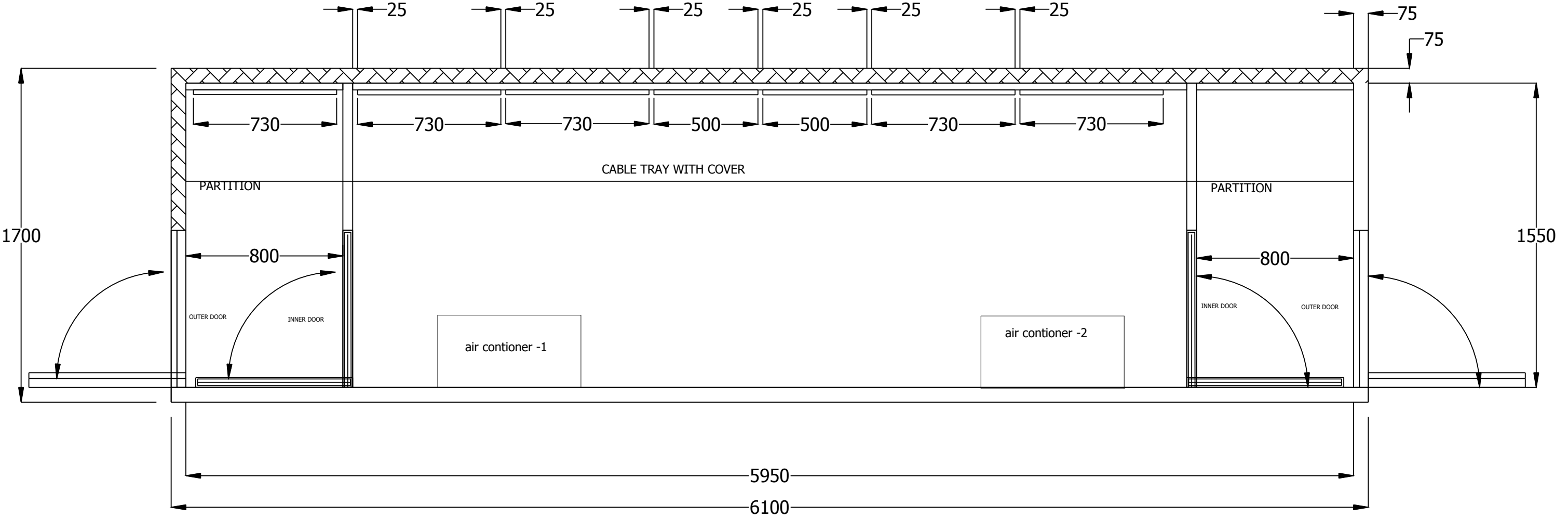
## Application

SEMI PORTAL CRANE

### Remarks

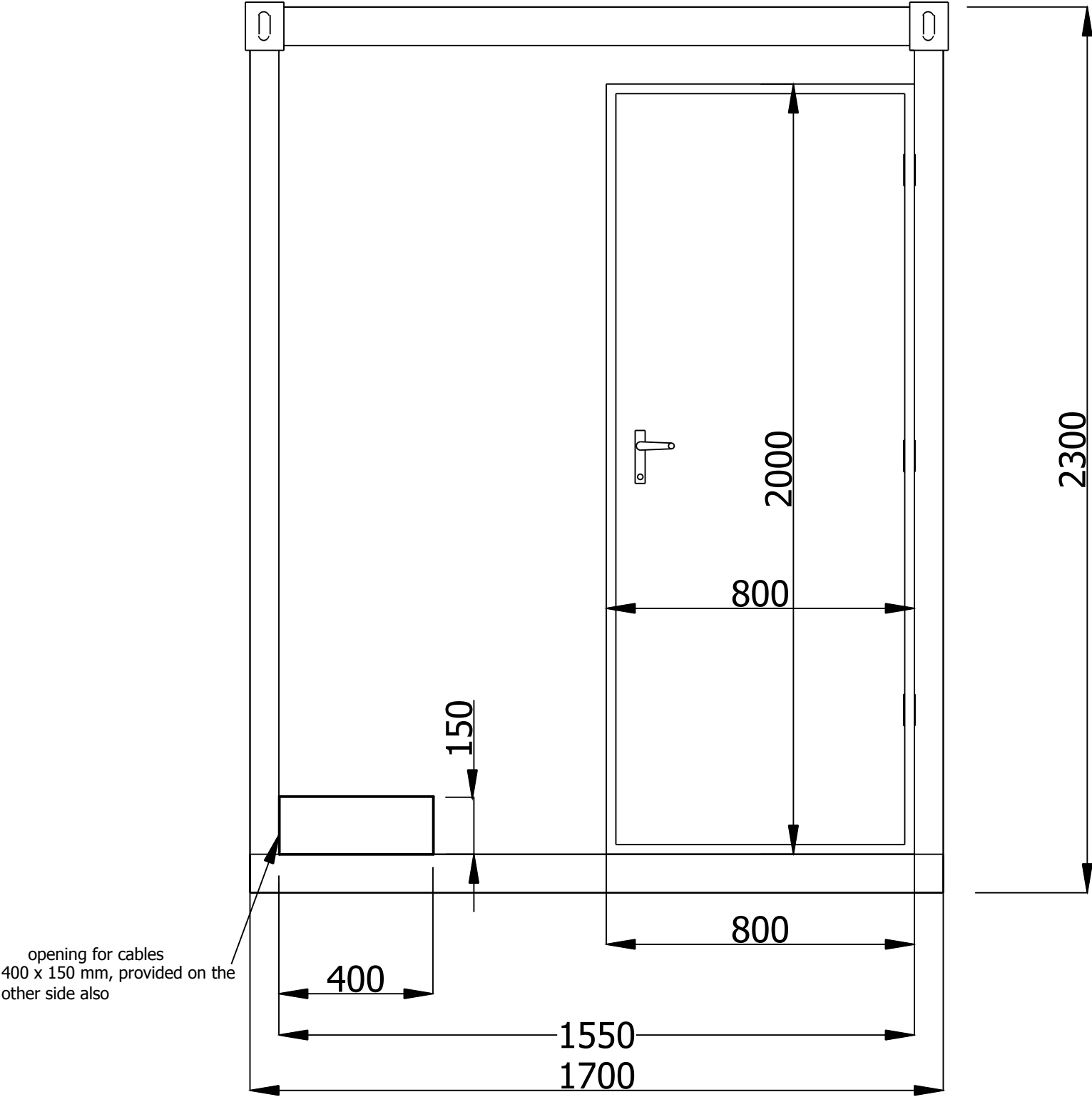
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REVISION-0		ASHOK.C	Chk by	AKR				Application : SEMI PORTAL CRANE			
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TOP VIEW



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			Ed.	ASHOK.C								+ A	
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FRONT VIEW



**NOTE:**

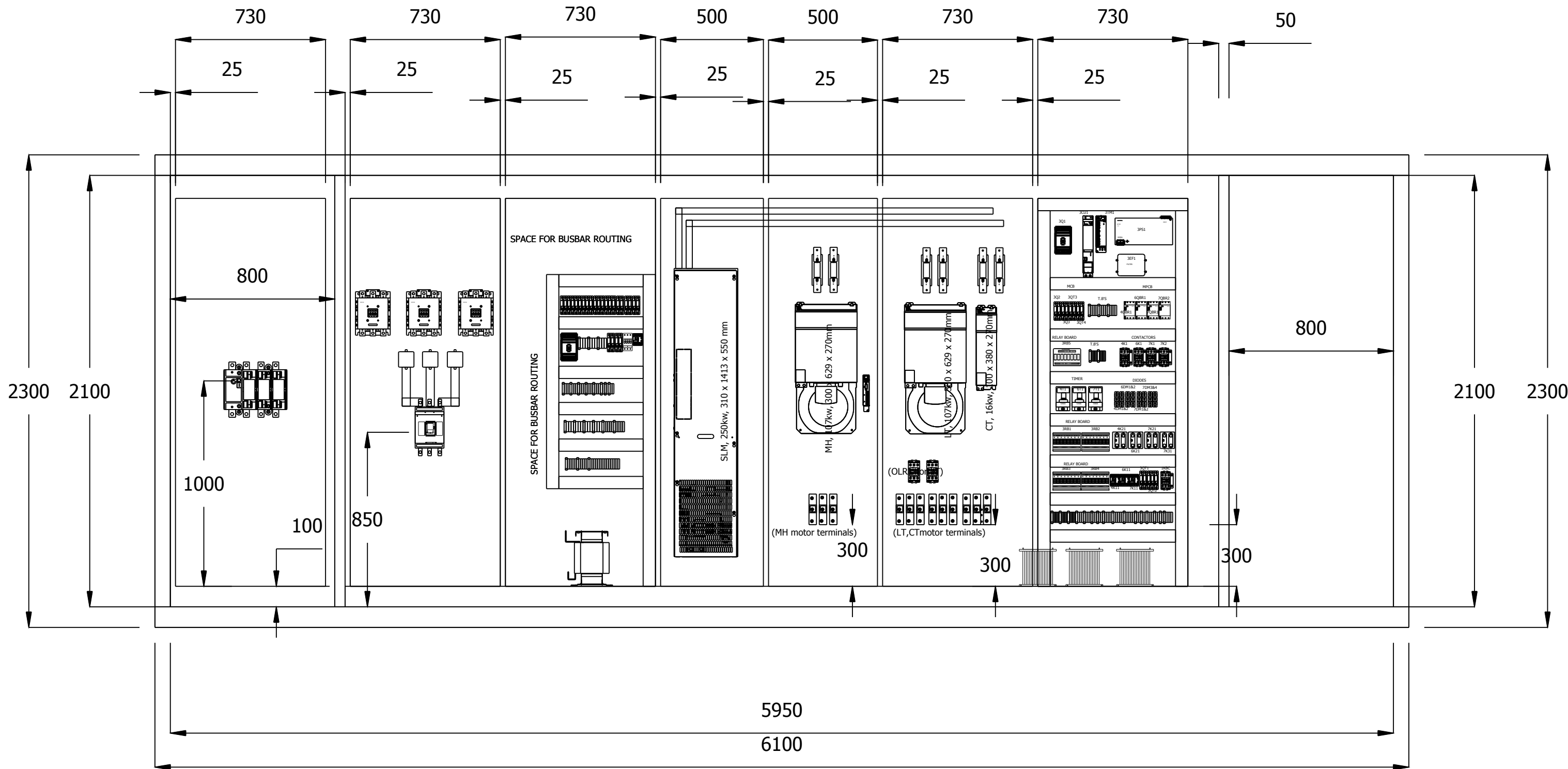
CABLE OPENING 400 X 150mm

"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

			Date	31/12/2012	Client : JSW-BELLARY		GENERAL ARRANGEMENT	DRWG No : 1301146	= G.A	
			Ed.	ASHOK.C					+ A	
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CROSS SECTION SIDE VIEW WALL-1



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

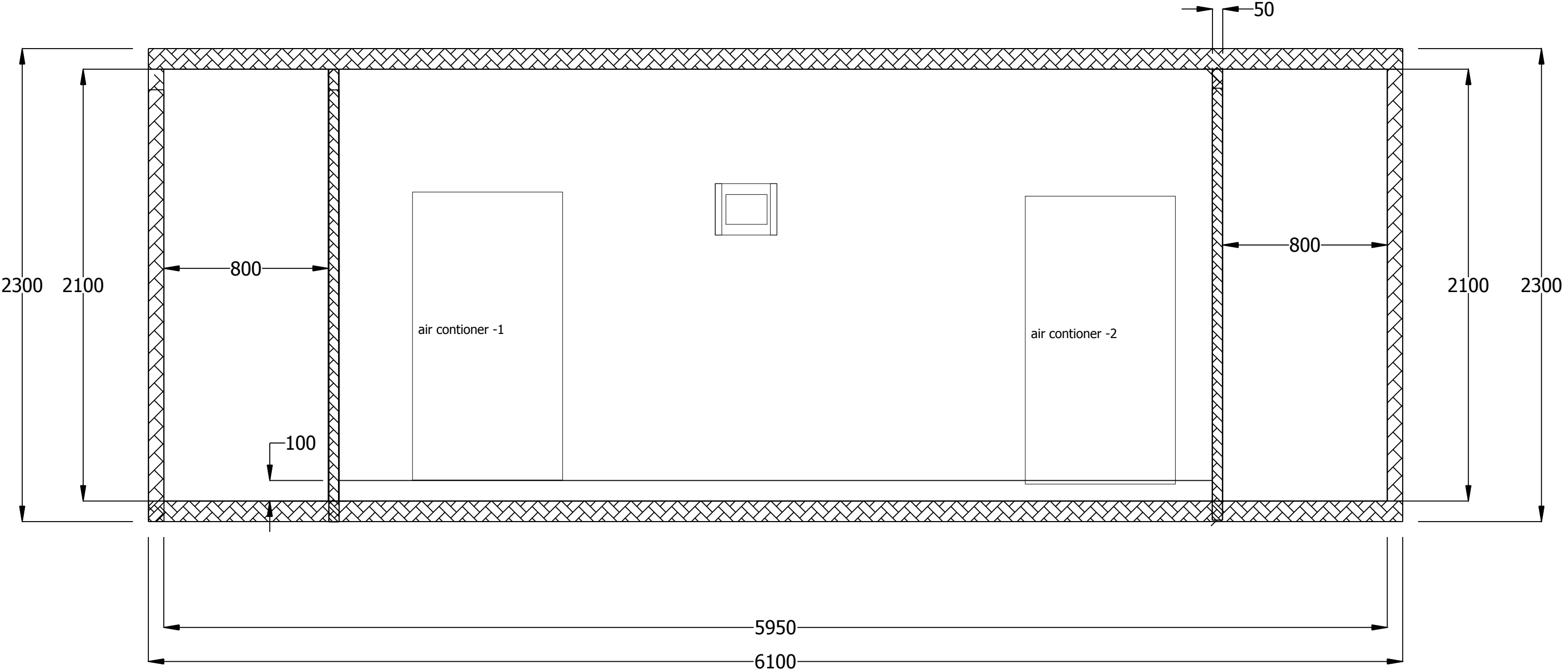


GENERAL ARRANGEMENT

DRWG No : 1301146	= G.A	
	+ A	
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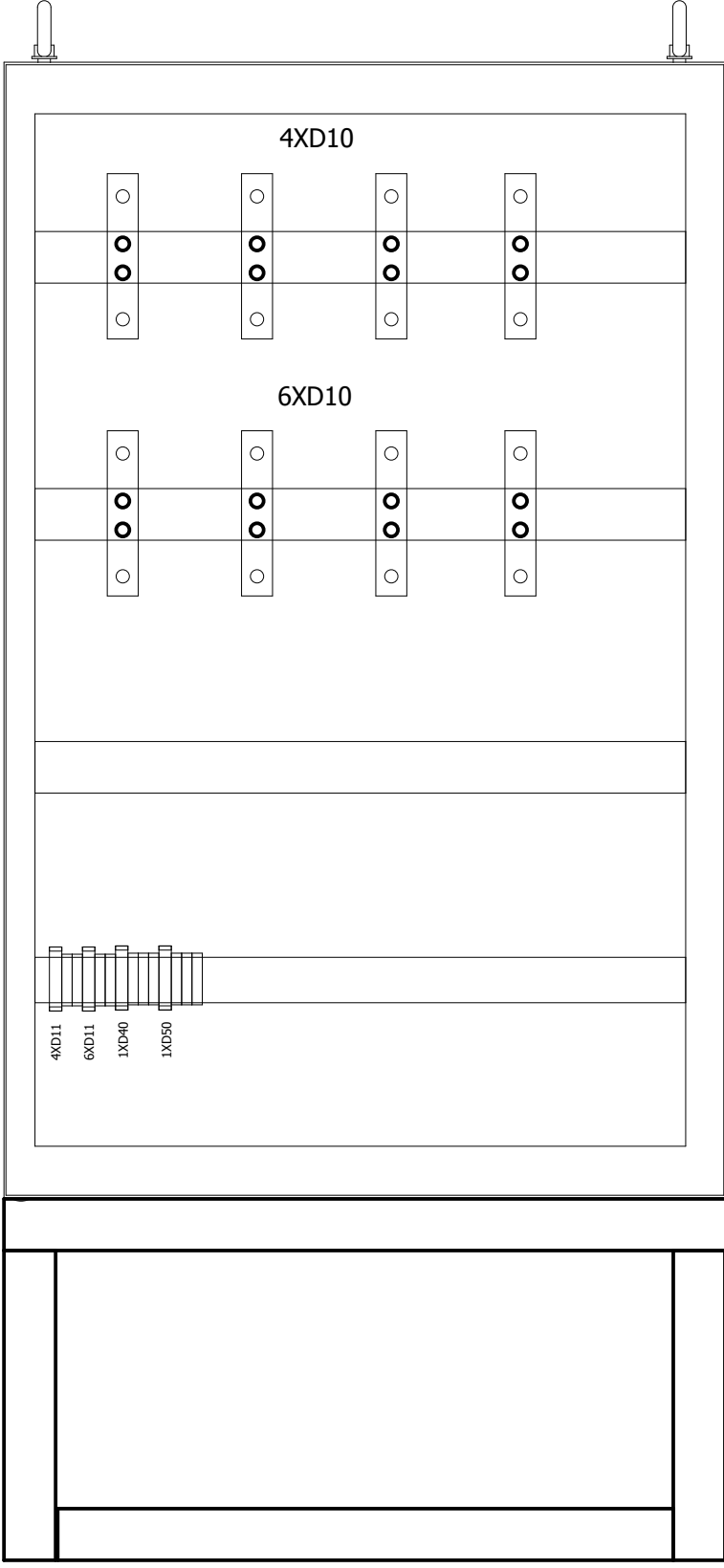
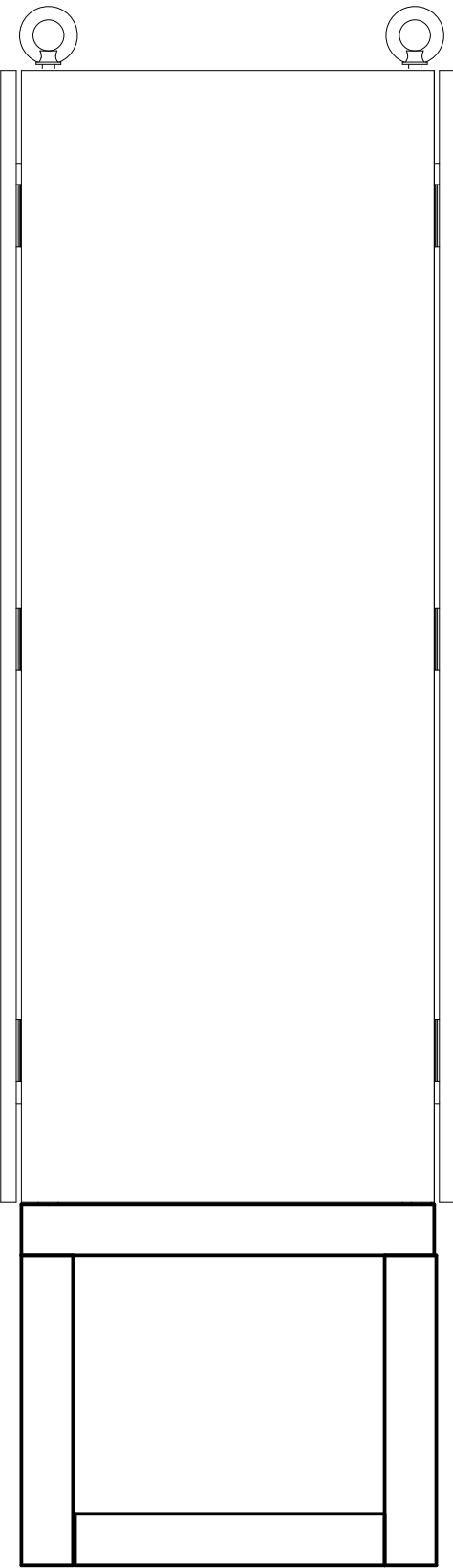
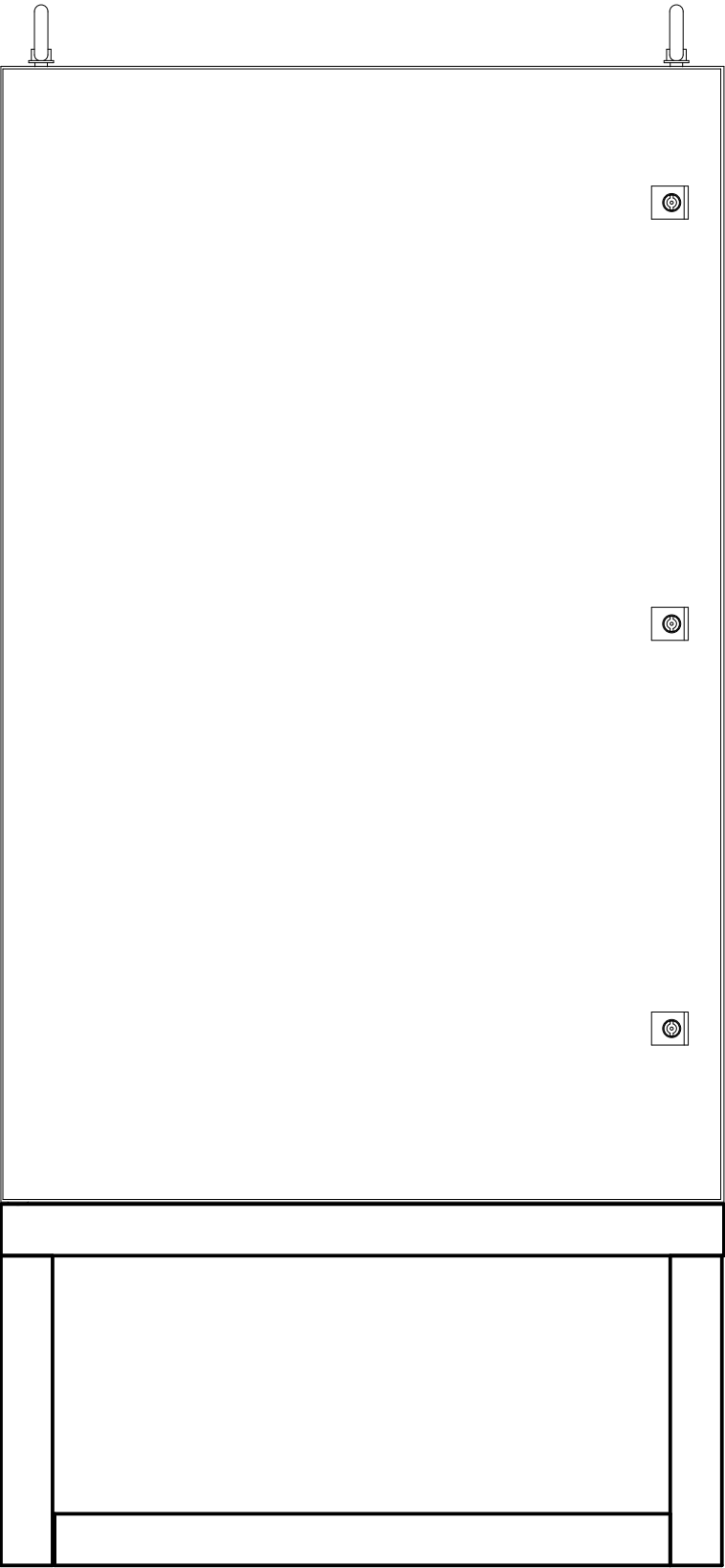
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CROSS SECTION SIDE VIEW WALL-2



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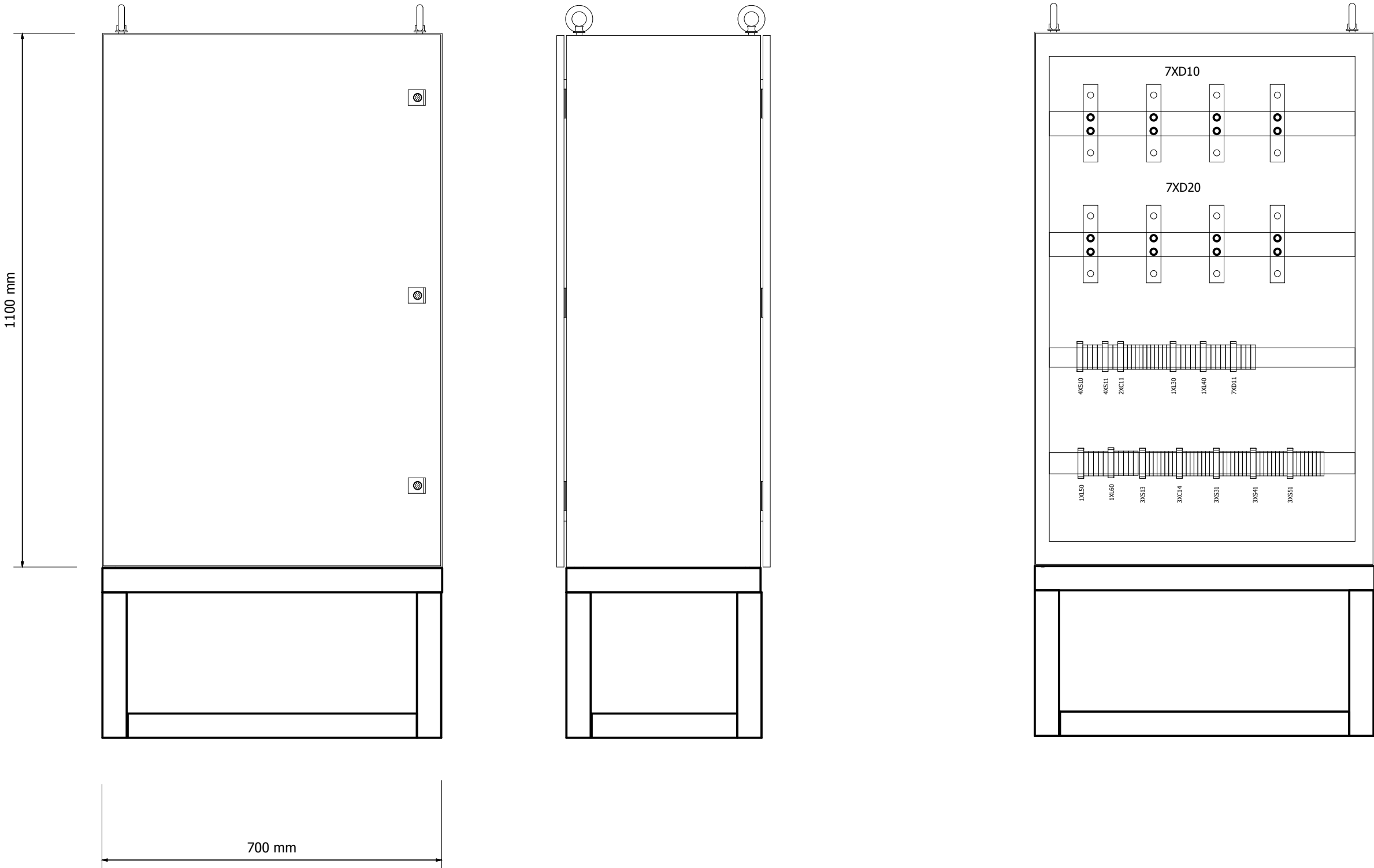
JUNCTION BOX - 1 & 2  
(FOR MH & CT & LT)



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JUNCTION BOX - 3 & 4  
(For Arm chair)



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**Project name**

**SMS - 1**

## Plant Designation

## Classification

### SINGLE LINE DIAGRAM

## Control voltage

## 110V AC SUPPLY

**Job number**

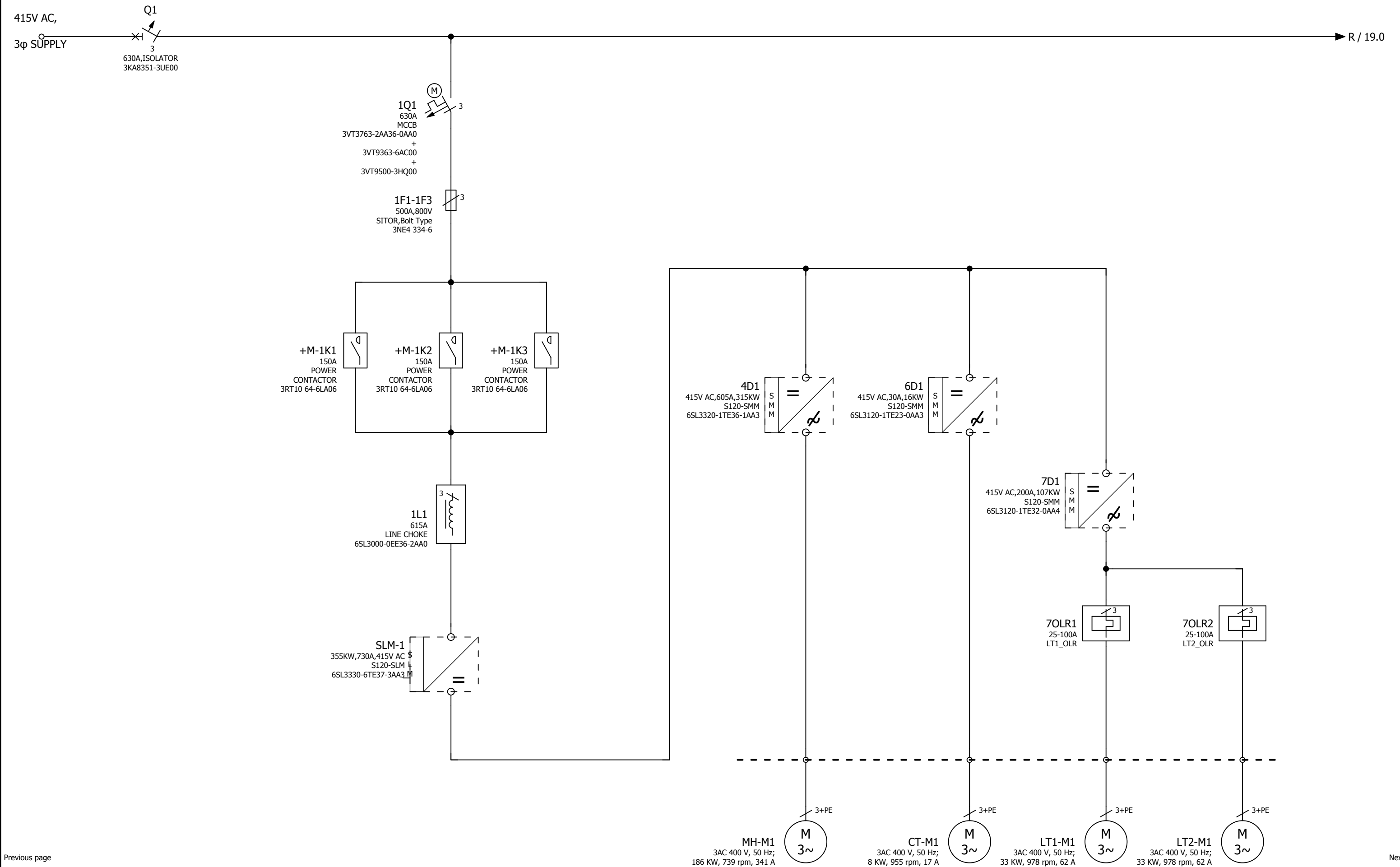
**1301146**

## Application

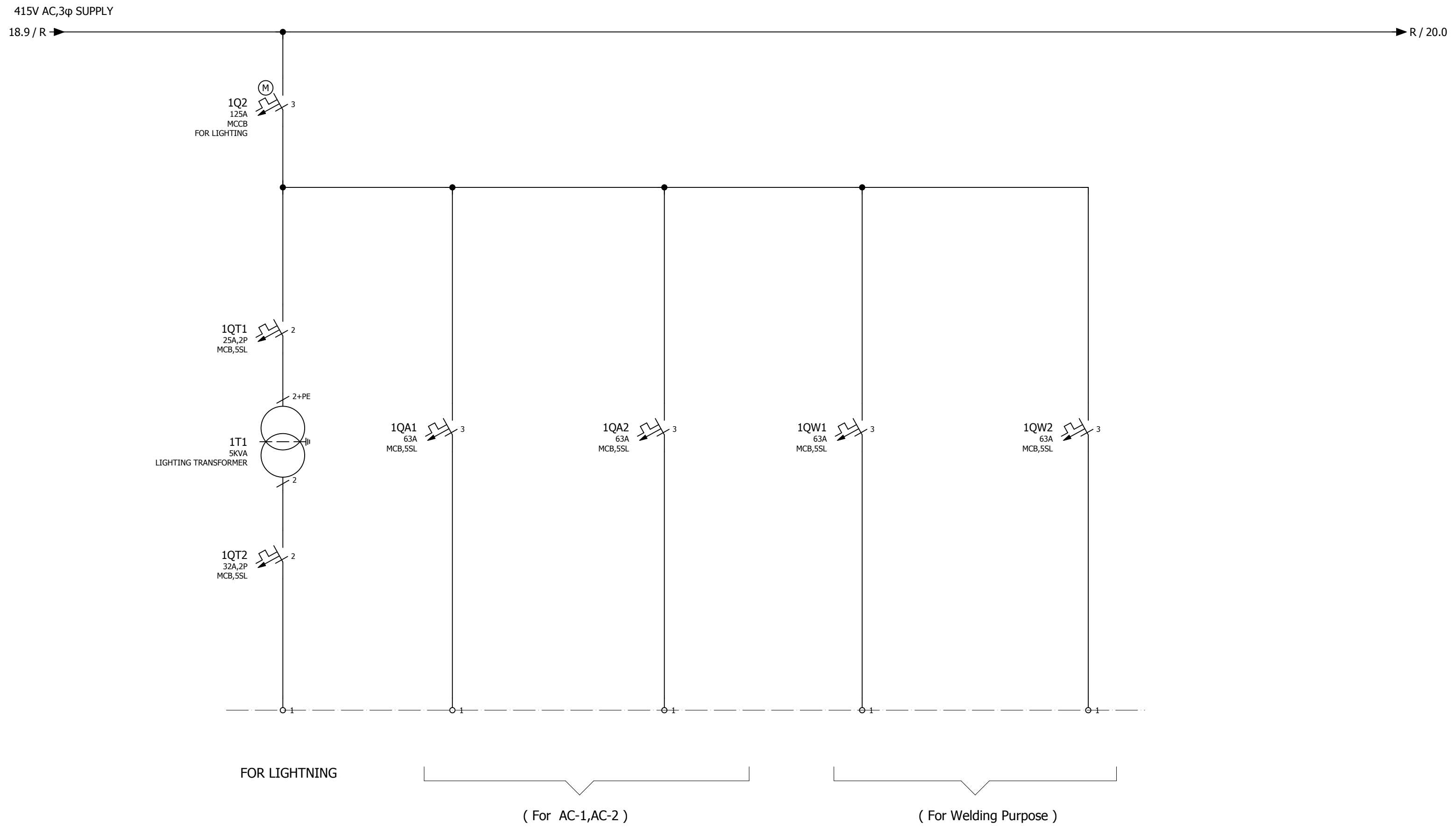
SEMI PORTAL CRANE

### Remarks

			Date	31/12/2012	Client : JSW-BELLARY		COVER PAGE	DRWG No : 1301146		= SLD
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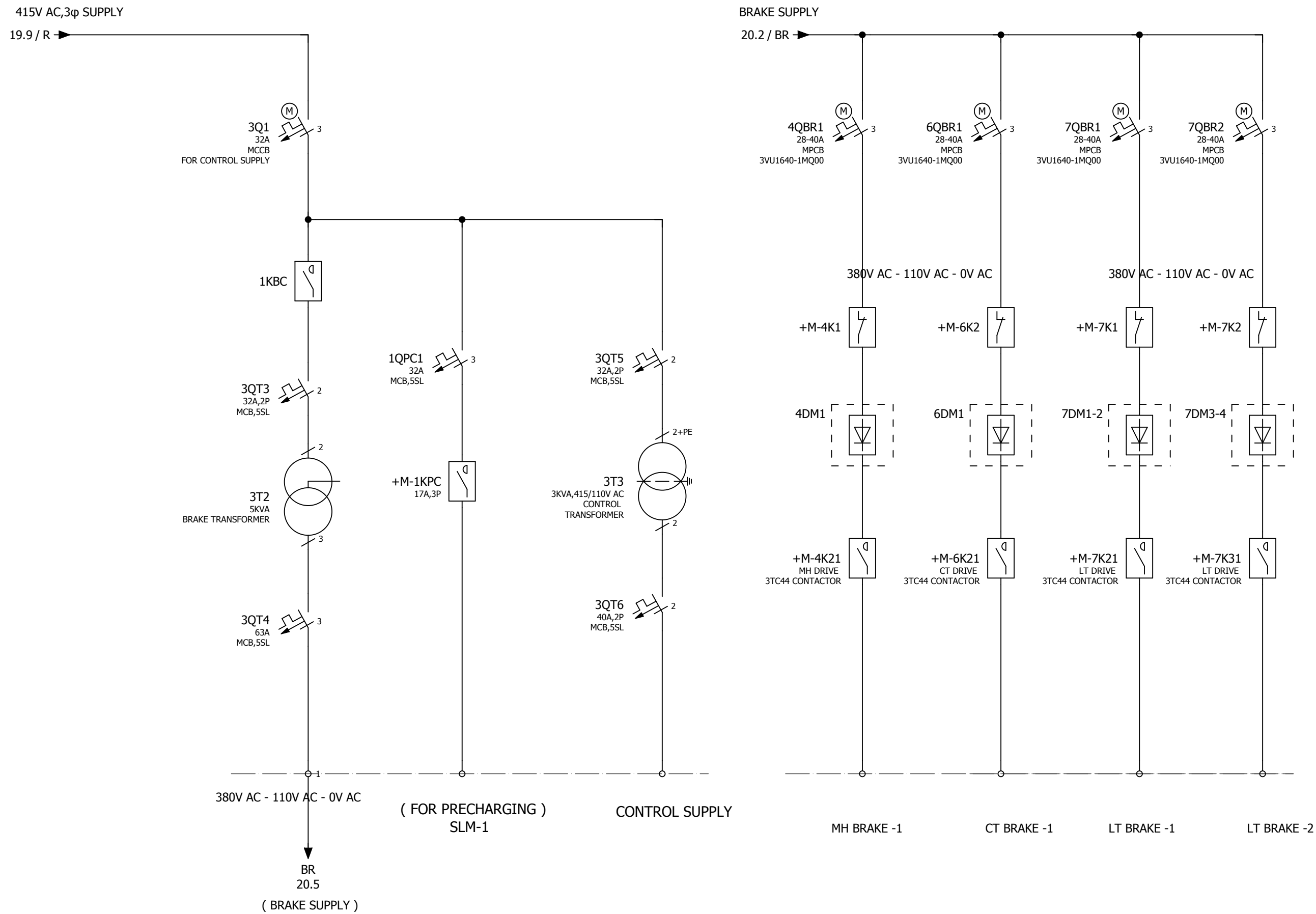


SINGLE LINE DIAGRAM



			Date	31/12/2012	Client : JSW-BELLARY			SINGLE LINE DIAGRAM	DRWG No : 1301146		= SLD		
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SINGLE LINE DIAGRAM



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**Project name**

**SMS - 1**

## Plant Designation

## Classification

## COMMUNICATION OVERVIEW

## Control voltage

## 110V AC SUPPLY

**Job number**

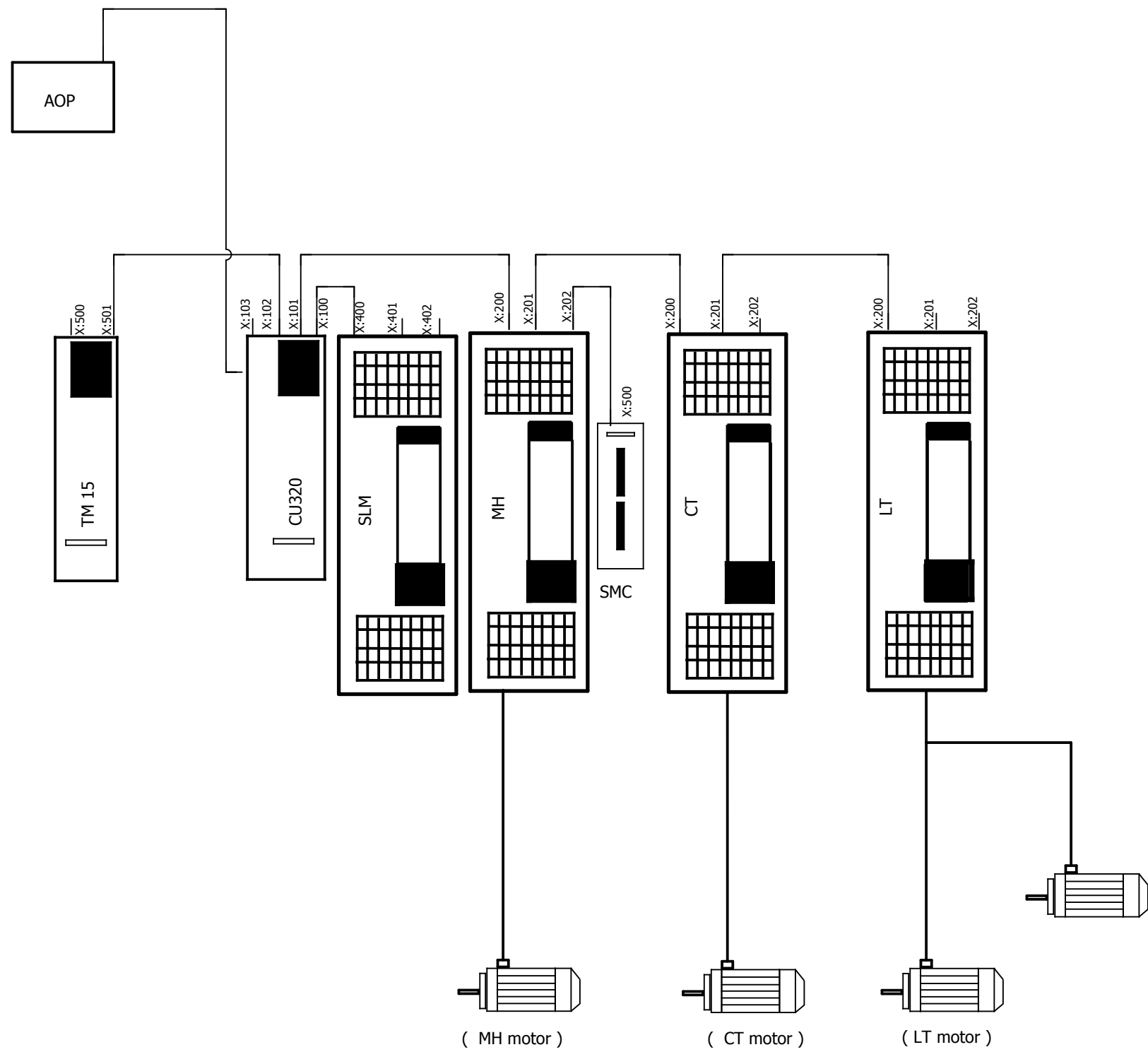
**1301146**

## Application

SEMI PORTAL CRANE

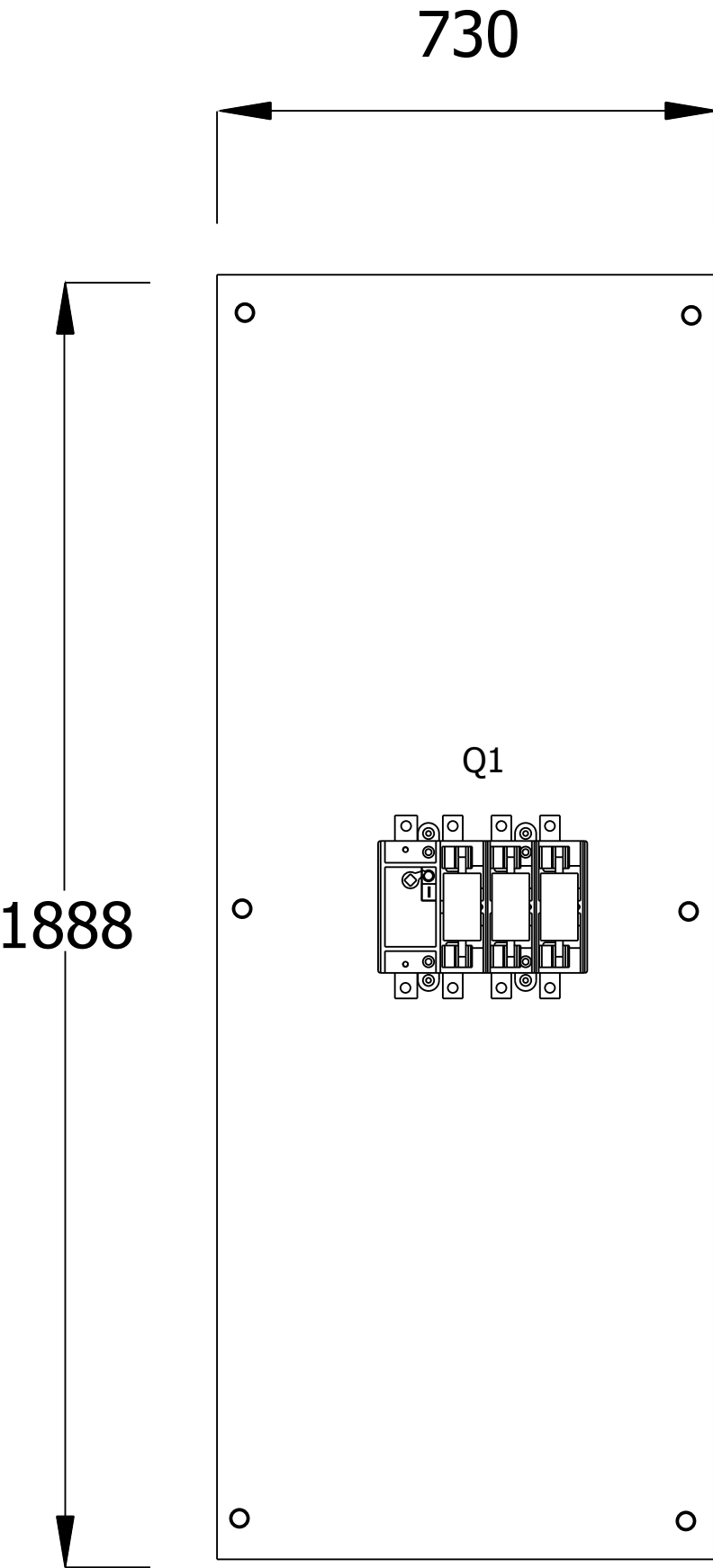
### Remarks

OVERVIEW OF DRIVE CLIQ SYSTEM





ISOLATOR PANEL





Project name	SMS - 1
Plant Designation	ISOLATOR SECTION
Classification	PART LIST
Control voltage	110V AC SUPPLY

Job number	1301146
Application	SEMI PORTAL CRANE
Remarks	



### Project name

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## Plant Designation

ISOLATOR SECTION

## Classification

### THREE LINE DIAGRAM

### Control voltage

## 110V AC SUPPLY

**Job number**

**1301146**

## Application

SEMI PORTAL CRANE

## Remarks

## INCOMING SUPPLY

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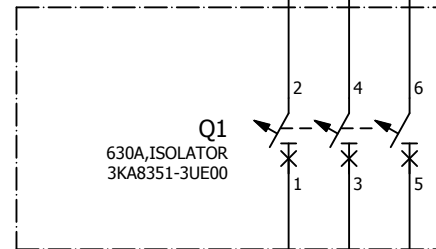
AFTER ISOLATOR

►  $R / = PRT / 35.0$

►  $Y / = PRT/35.0$

►  $B / = PRT/35.0$

ISOLATOR SECTION



A diagram showing three vertical lines hanging from a horizontal bar. The lines are labeled R, Y, and B from left to right. Each line ends in a small circle.

415VAC ,3Ph SUPPLY

## CLIENT SCOPE

		Date	31/12/2012	Client : JSW-BELLARY		THREE LINE DIAGRAM	= ISO			
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**Project name**

**SMS - 1**

## Plant Designation

## PROTECTIVE SECTION

## Classification

## GENERAL ARRANGEMENT

### Control voltage

## 110V AC SUPPLY

**Job number**

**1301146**

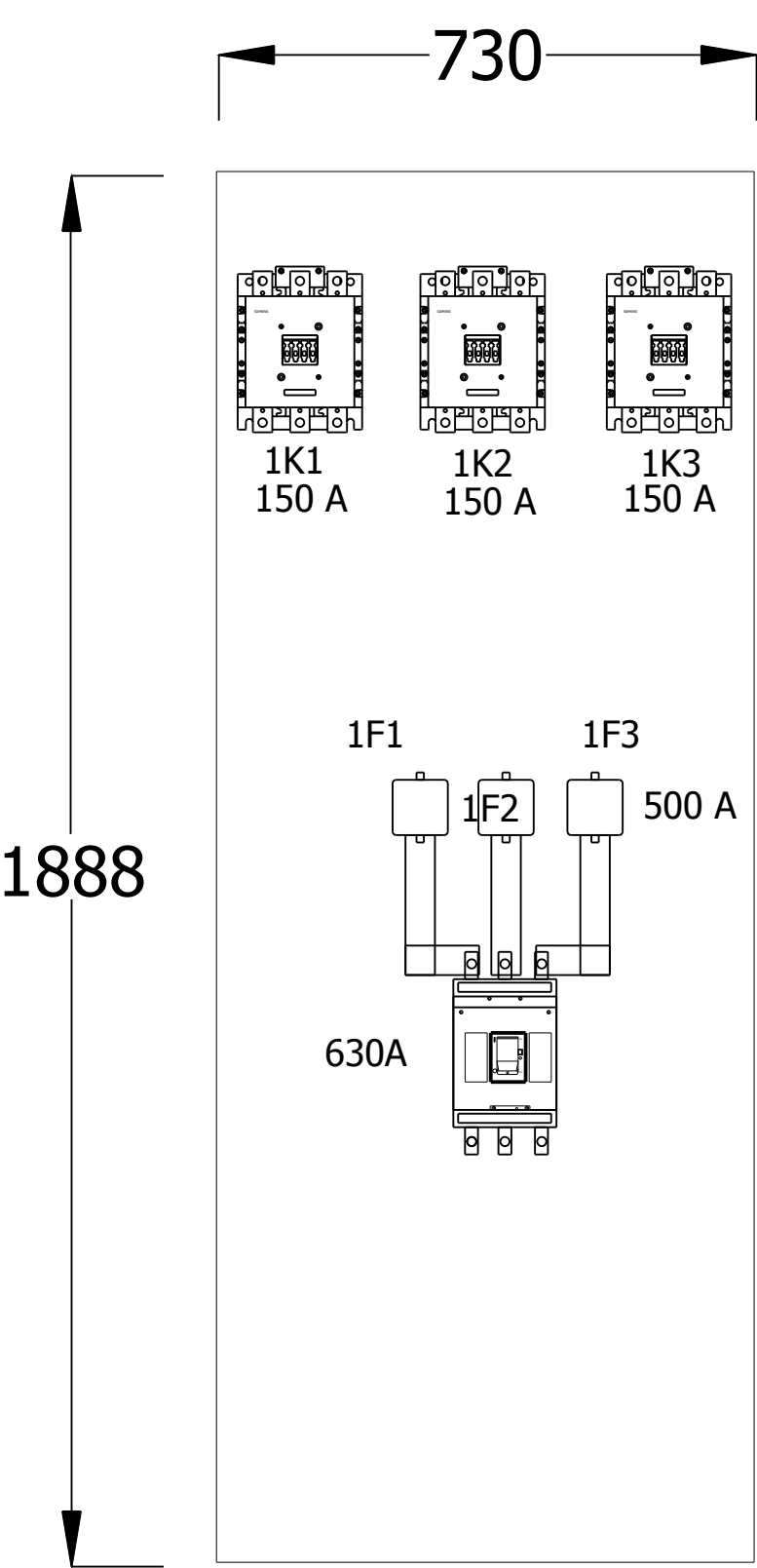
## Application

SEMI PORTAL CRANE

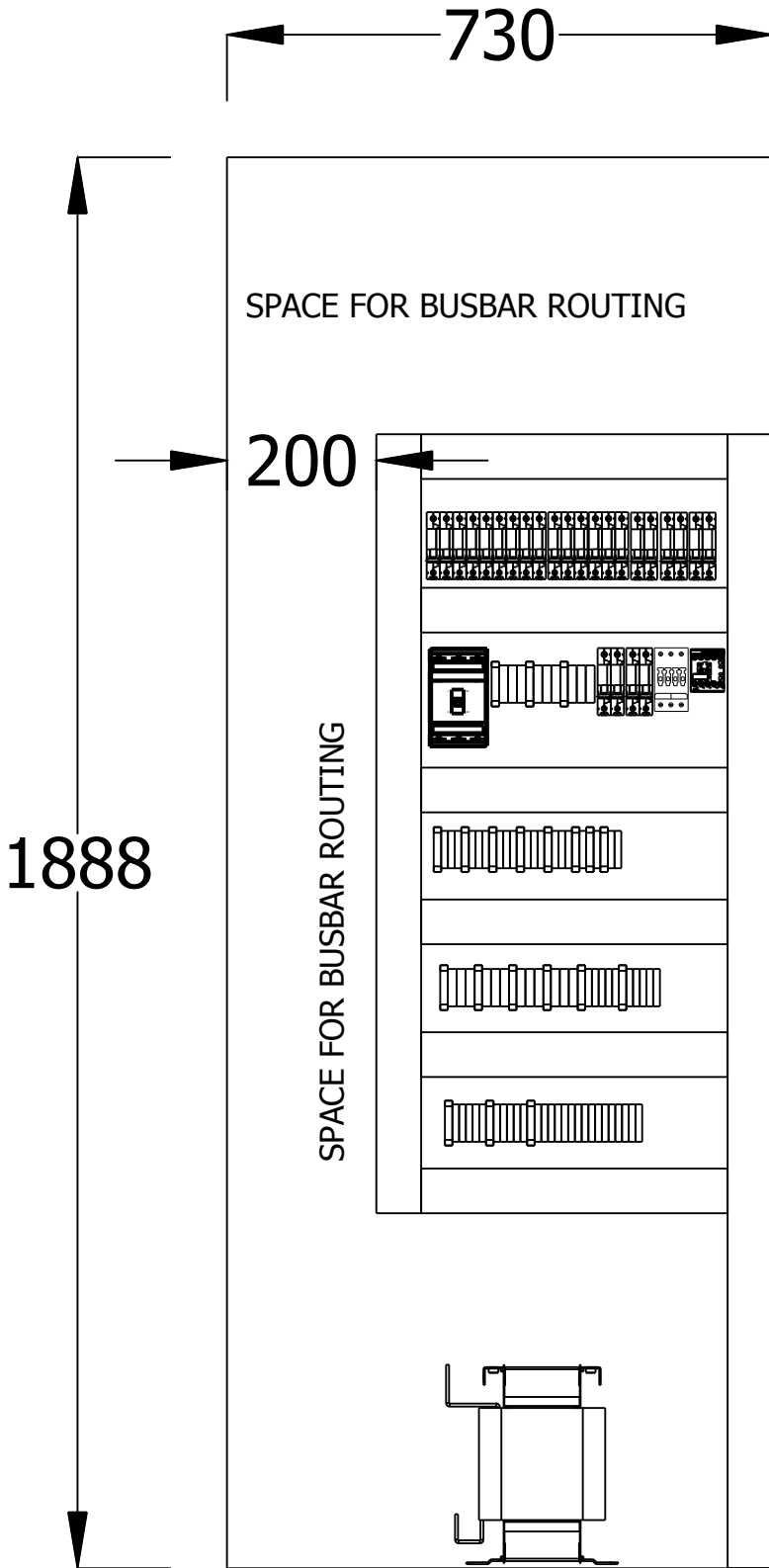
### Remarks

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INCOMER SECTION



PROTECTIVE SECTION



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**Project name**

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## Plant Designation

## PROTECTIVE SECTION

## Classification

## PART LIST

## Control voltage

## 110V AC SUPPLY

**Job number**

**1301146**

## Application

SEMI PORTAL CRANE

### Remarks

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	MCCB
+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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**Project name**

**SMS - 1**

## Plant Designation

## PROTECTIVE SECTION

## Classification

### THREE LINE DIAGRAM

### Control voltage

## 110V AC SUPPLY

**Job number**

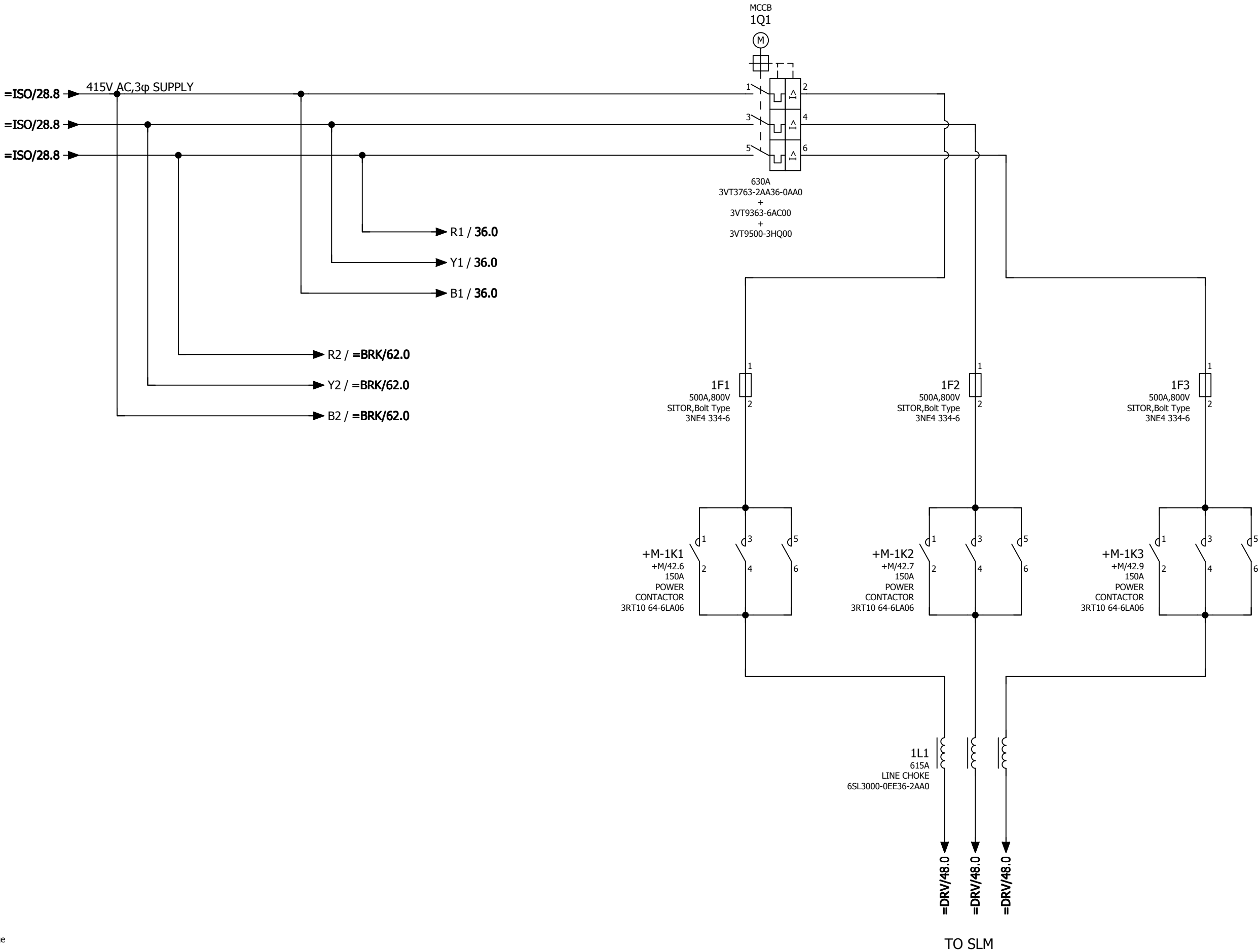
**1301146**

## Application

SEMI PORTAL CRANE

### Remarks

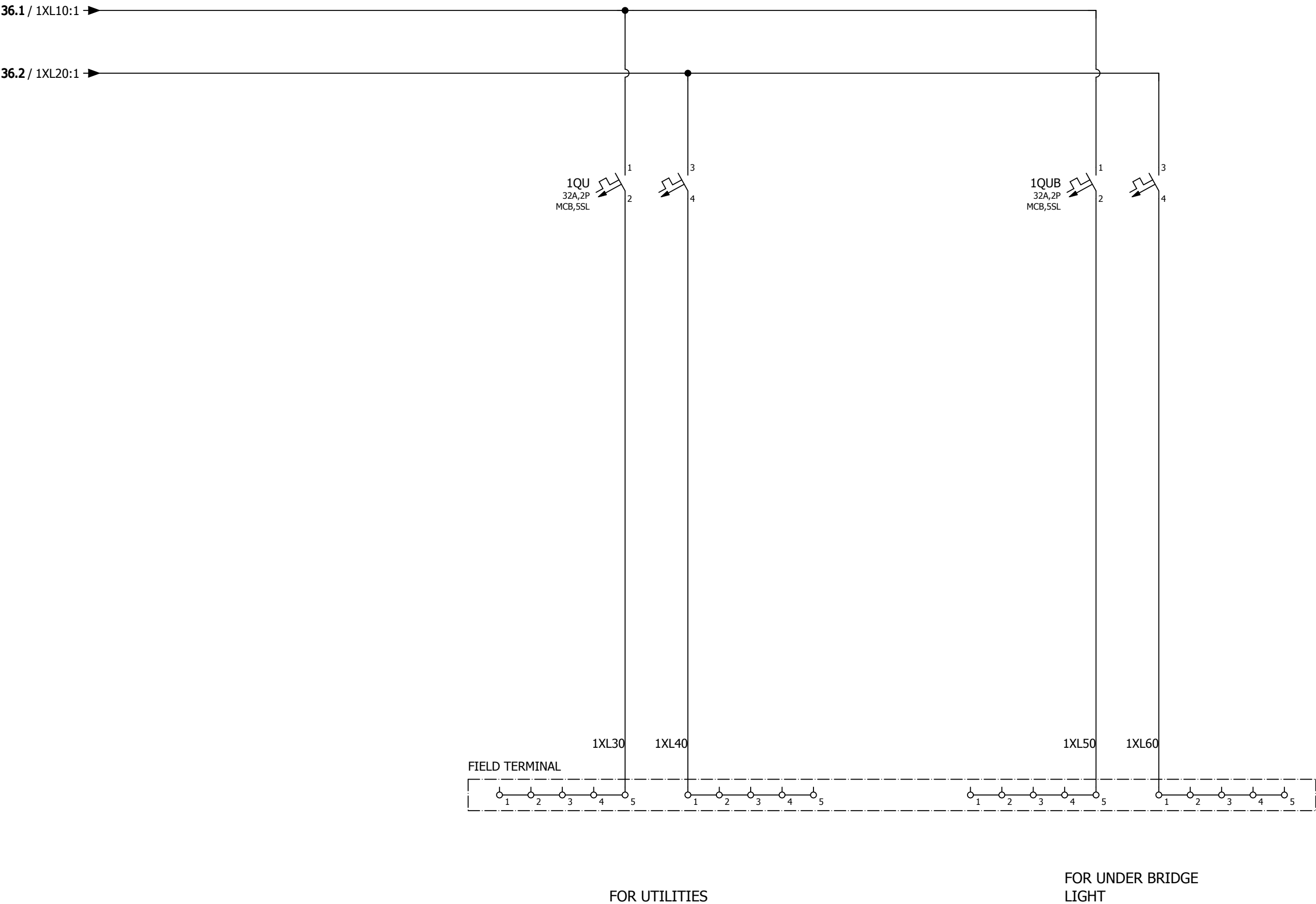
THREE LINE DIAGRAM



			Date	31/12/2012	Client : JSW-BELLARY			THREE LINE DIAGRAM	DRWG No : 1301146		= PRT		
			Ed.	ASHOK.C							+ D		
REVISION-0		ASHOK.C	Chk by	AKR	Application : SEMI PORTAL CRANE							Page	35
Modification	Date	Name	Appr		Replacement of	Replaced by						Page	105



LIGHTING CIRCUIT



### THREE LINE DIAGRAM



( FOR PRECHARGING )  
SLM

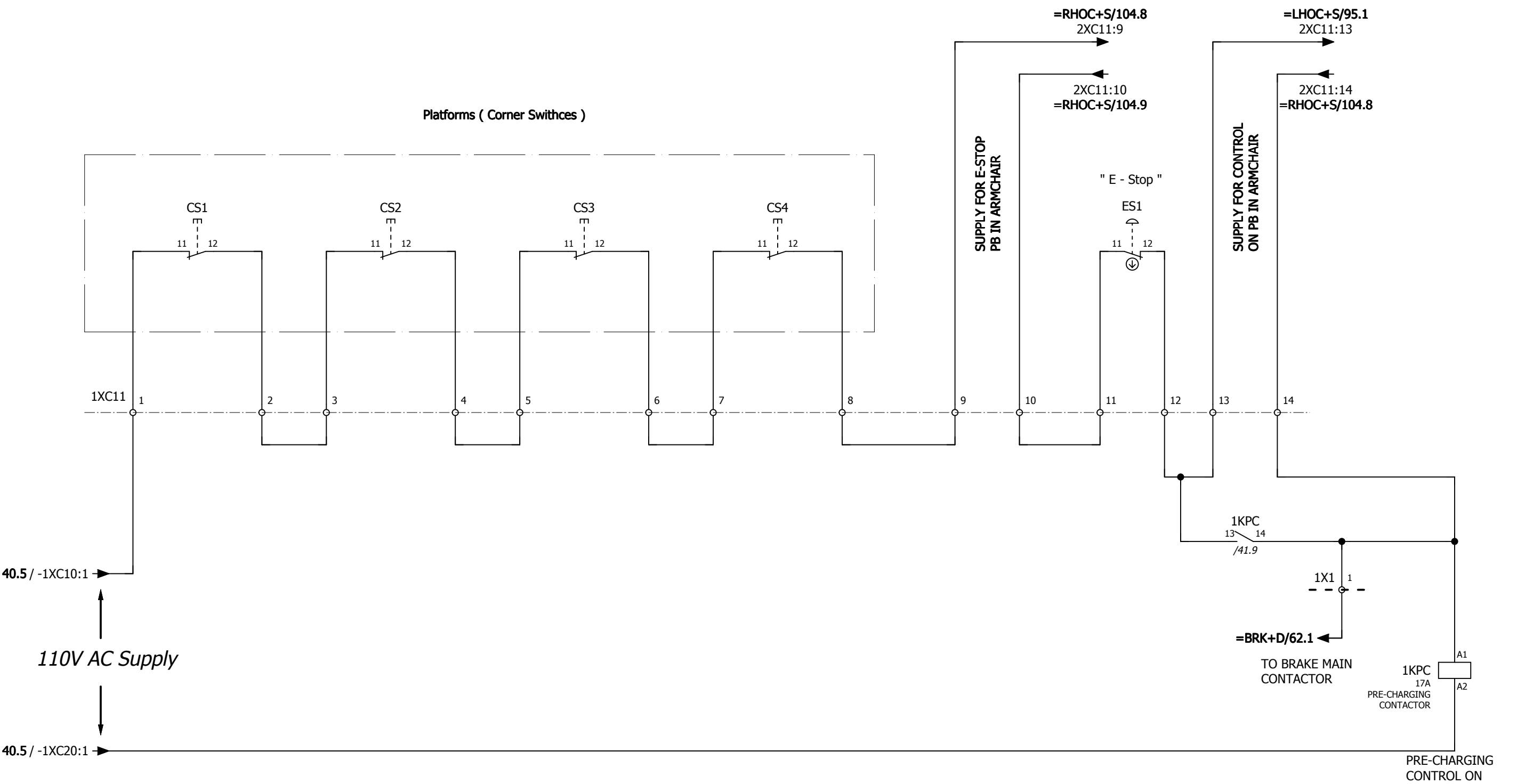
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REVISION-0		ASHOK.C	Chk by	AKR				Application : SEMI PORTAL CRANE					
Modification	Date	Name	Appr		Replacement of	Replaced by				Page	38		
										Page	105		

0	1	2	3	4	5	6	7	8	9	
<div></div>										
<div></div>										
<div><div><div><div><div>Project name</div><div>SMS - 1</div></div><div><div>Plant Designation</div><div>PROTECTIVE SECTION</div></div><div><div>Classification</div><div>CONTROL CIRCUIT</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>1301146</div></div><div><div>Application</div><div>SEMI PORTAL CRANE</div></div><div><div>Remarks</div></div></div></div></div>										
<div></div>										
<div></div>										
<div><div><div>Previous page</div><div>Next page</div></div><div>+D/38<div>40</div></div></div>										
			Date	31/12/2012	Client : JSW-BELLARY		<div>COVER PAGE</div> <div><div>R</div><div>S</div><div>P</div><div>CONTROL PROJECTS (P) LTD</div></div>	= PRT		
			Ed.	ASHOK.C	Application : SEMI PORTAL CRANE			+ M		
REVISION-0		ASHOK.C	Chk by	AKR						
Modification	Date	Name	Appr		Replacement of	Replaced by			<div>Page</div> <div>39</div>	
								<div>Page</div> <div>105</div>		



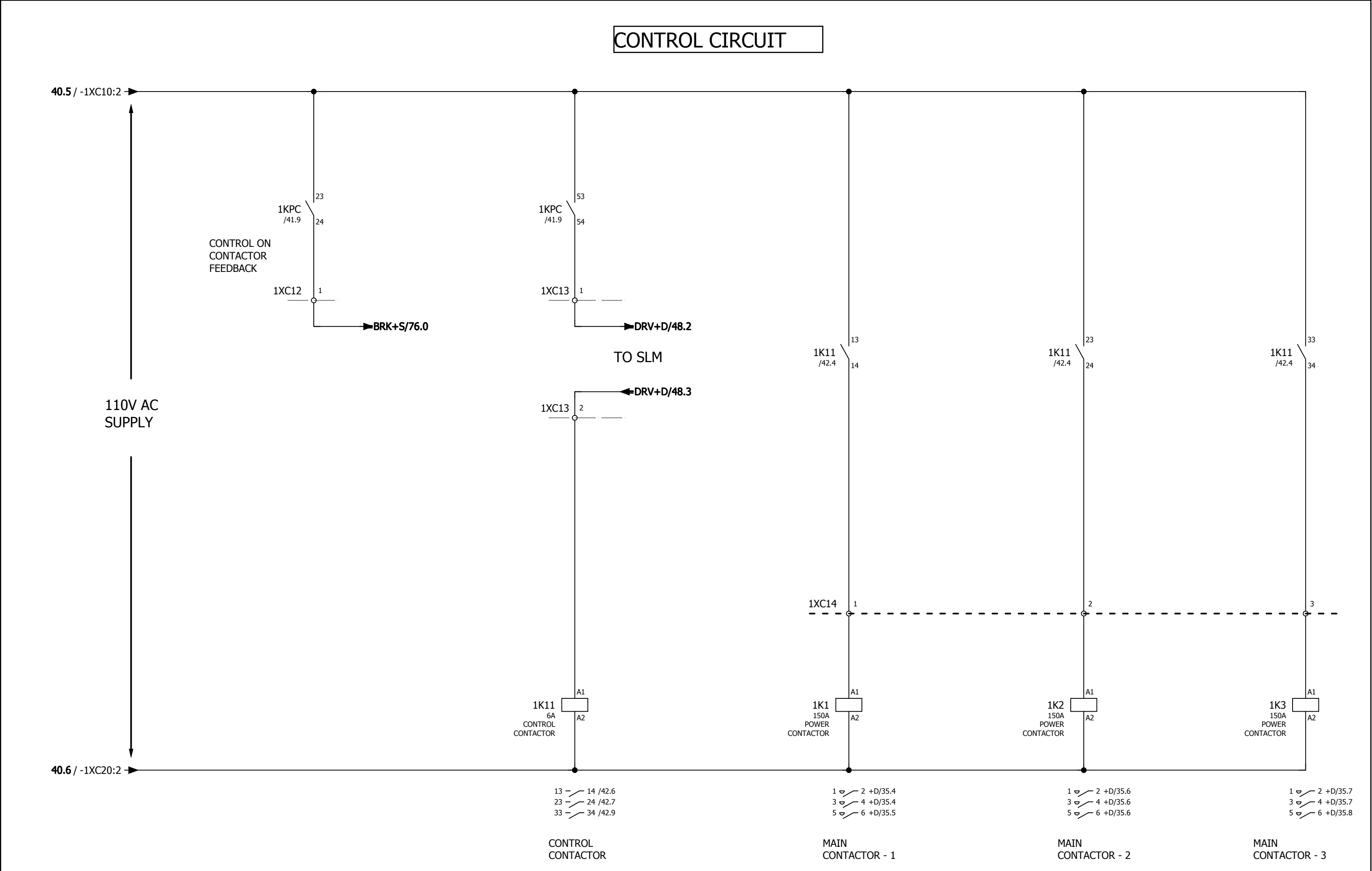


CONTROL CIRCUIT



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

			Date	31/12/2012	Client : JSW-BELLARY Application : SEMI PORTAL CRANE Replacement of Replaced by		CONTROL CIRCUIT	DRWG No : 1301146	= PRT	
			Ed.	ASHOK.C					+ M	
REVISION-0		ASHOK.C	Chk by	AKR					Page	41
Modification	Date	Name	Appr						Page	105



			Date	31/12/2012	Client : JSW-BELLARY			CONTROL CIRCUIT		DRWG No : 1301146		= PRT		
			Ed.	ASHOK.C								+ M		
REVISION-0		ASHOK.C	Chk by	AKR	Application : SEMI PORTAL CRANE								Page	42
Modification	Date	Name	Appr		Replacement of	Replaced by							Page	105

**Project name**

**SMS - 1**

## Plant Designation

DRIVE SECTION

## Classification

## GENERAL ARRANGEMENT

## Control voltage

## 110V AC SUPPLY

**Job number**

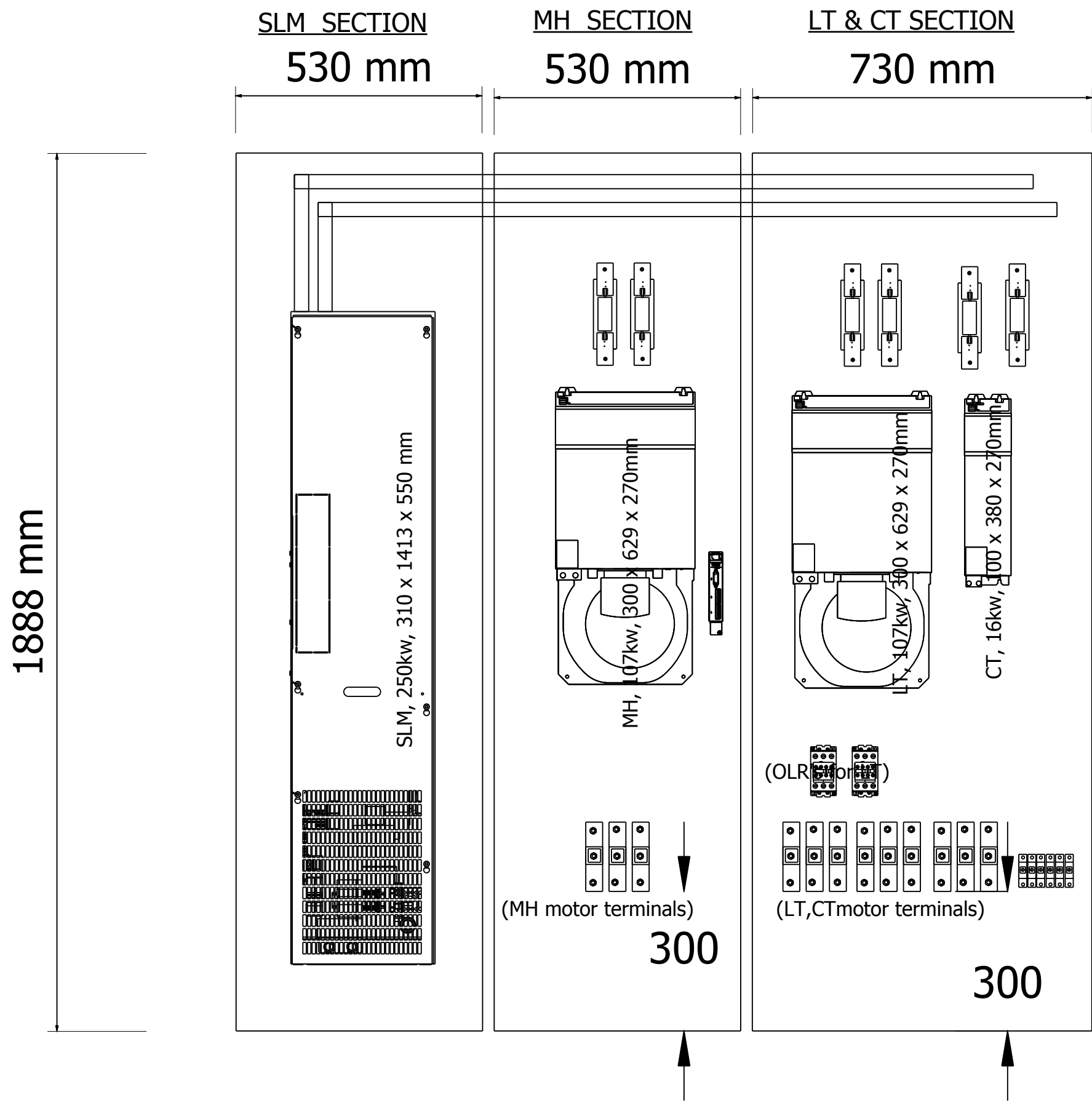
**1301146**

## Application

SEMI PORTAL CRANE

### Remarks

			Date	31/12/2012	Client : JSW-BELLARY		COVER PAGE	= DRV			
			Ed.	ASHOK.C				DRWG No : 1301146		+ A	
REVISION-0		ASHOK.C	Chk by	AKR				Application : SEMI PORTAL CRANE			Page 43
Modification	Date	Name	Appr		Replacement of	Replaced by			Page 105		



			Date	31/12/2012	Client : JSW-BELLARY			GENERAL ARRANGEMENT	DRWG No : 1301146		= DRV	
			Ed.	ASHOK.C							+ A	
REVISION-0		ASHOK.C	Chk by	AKR	Application : SEMI PORTAL CRANE						Page	44
Modification	Date	Name	Appr		Replacement of	Replaced by					Page	105

Project name	SMS - 1
Plant Designation	DRIVE SECTION
Classification	PART LIST
Control voltage	110V AC SUPPLY

Job number	1301146
Application	SEMI PORTAL CRANE
Remarks	



**Project name**

**SMS - 1**

## Plant Designation

DRIVE SECTION

## Classification

### THREE LINE DIAGRAM

## Control voltage

## 110V AC SUPPLY

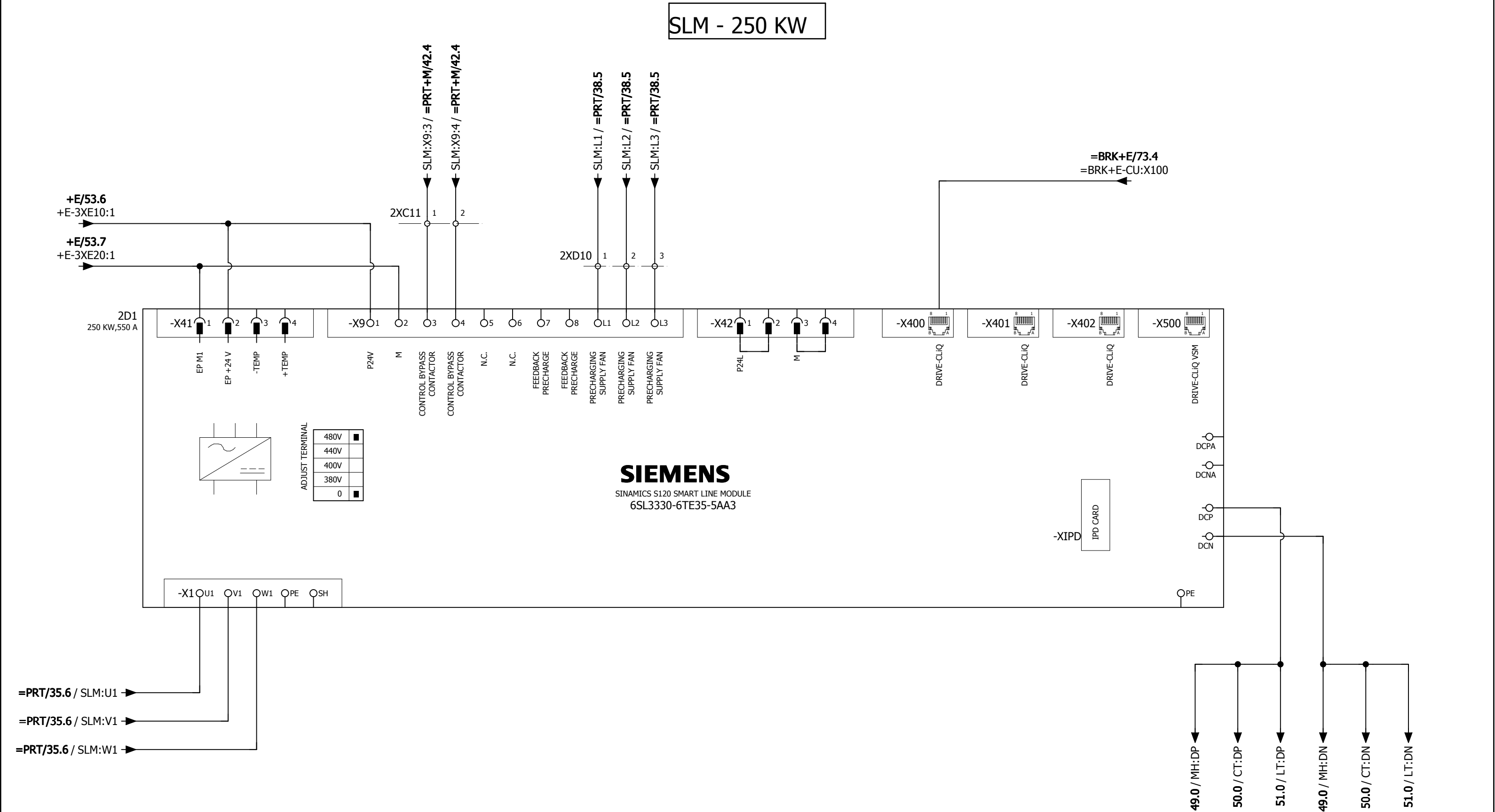
**Job number**

**1301146**

## Application

SEMI PORTAL CRANE

### Remarks



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			Ed.	ASHOK.C
REVISION-0		ASHOK.C	Chk by	AKR
Modification	Date	Name	Appr	

Client :	JSW-BELLARY
Application :	SEMI PORTAL CRANE
Replacement of	Replaced by

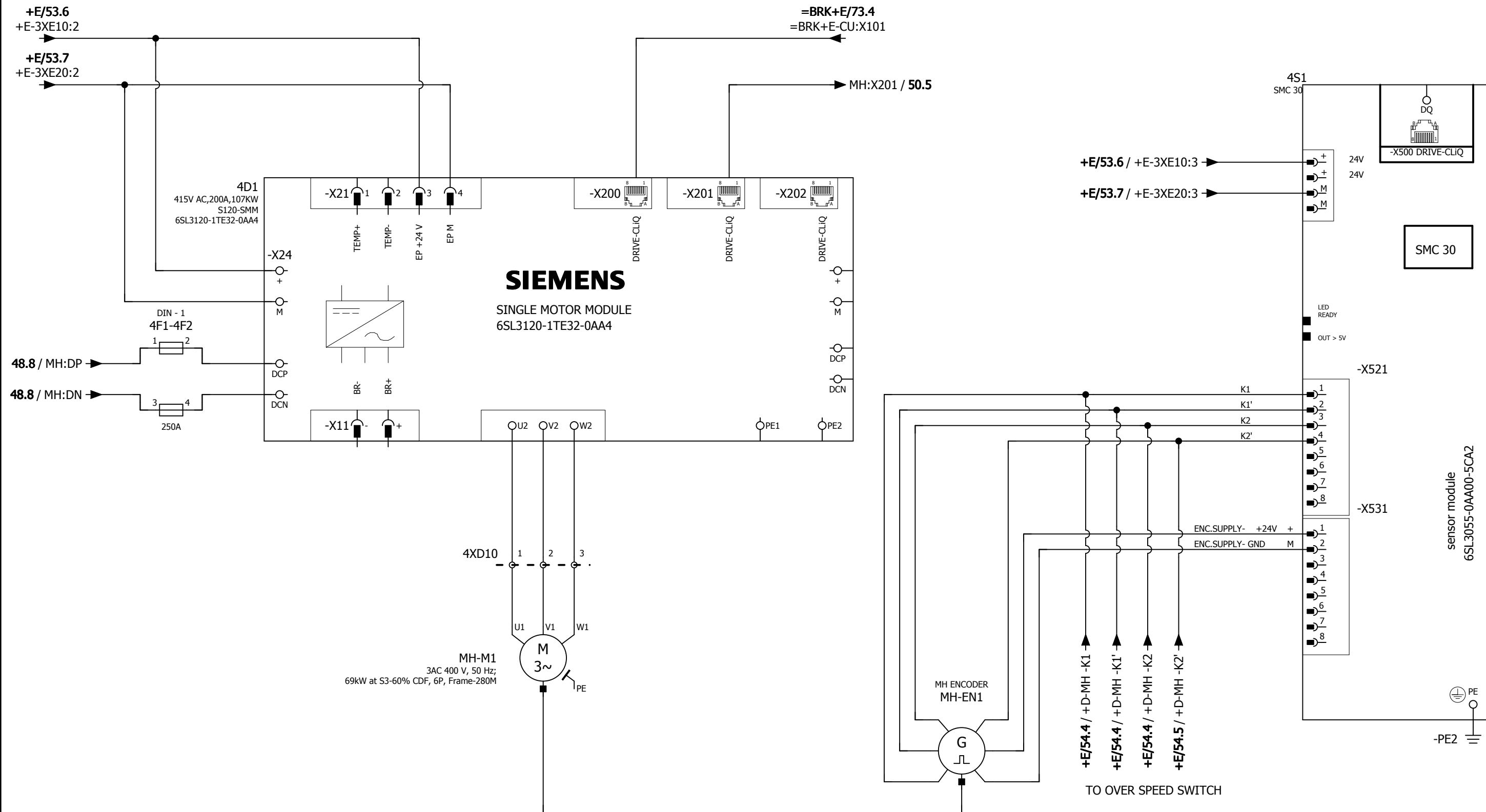


SLM - 250 KW

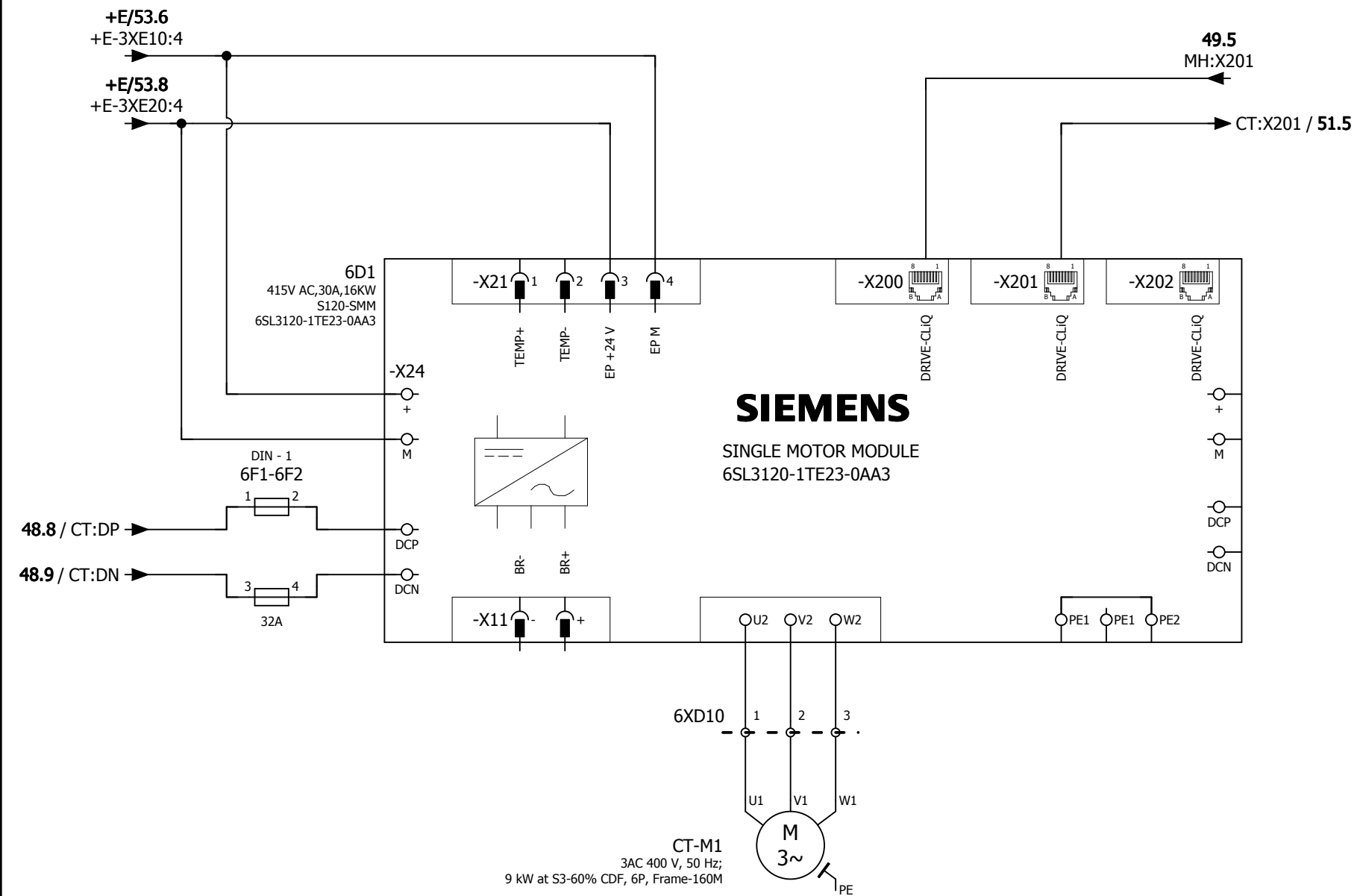
DRWG No :	1301146
-----------	---------

= DRV	
+ D	
Page	48
Page	105





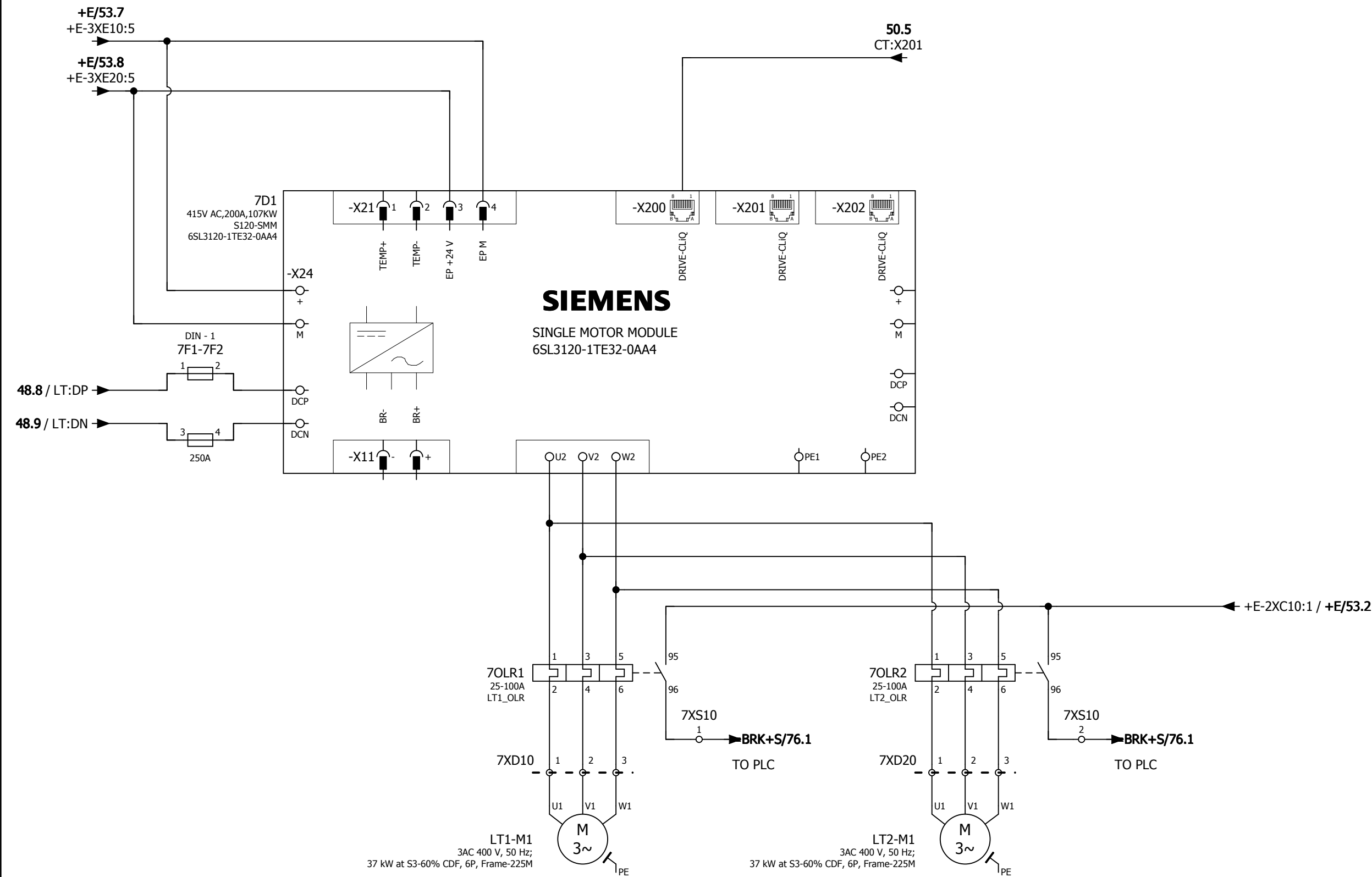
CT - 16 KW



			Date	31/12/2012	Client : JSW-BELLARY Application : SEMI PORTAL CRANE Replacement of Replaced by	CT - 16 KW	DRWG No : 1301146	= DRV	
			Ed.	ASHOK.C				+ D	
REVISION-0		ASHOK.C	Chk by	AKR					Page 50
Modification	Date	Name	Appr						Page 105



LT - 107 KW



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+E/52

			Date	31/12/2012	Client : JSW-BELLARY	Application : SEMI PORTAL CRANE		LT - 107 KW	DRWG No : 1301146	= DRV	
			Ed.	ASHOK.C						+ D	
REVISION-0		ASHOK.C	Chk by	AKR						Page	51
Modification	Date	Name	Appr		Replacement of	Replaced by				Page	105

**Project name**

**SMS - 1**

## Plant Designation

DRIVE SECTION

## Classification

ELECTRONICS

## Control voltage

## 110V AC SUPPLY

**Job number**

**1301146**

## Application

SEMI PORTAL CRANE

### Remarks

			Date	31/12/2012	Client : JSW-BELLARY		COVER PAGE	DRWG No : 1301146		= DRV
			Ed.	ASHOK.C				+ E		
REVISION-0		ASHOK.C	Chk by	AKR						Page
Modification	Date	Name	Appr		Replacement of	Replaced by			Page	105

110V AC SUPPLY DISTRIBUTION

24V DC SUPPLY DISTRIBUTION

110V AC  
SUPPLY

=BRK+M/67.5

=BRK+M/67.6

2XC10

2XC20

1 2

1 2

+D/51.7 / 2XC10:1

=BRK/72.5  
=BRK-3XE20:5

=BRK/72.4  
=BRK-3XE10:5

54.3 / 3XE10:6

3XE10

3XE20

1 2 3 4 5

1 2 3 4 5

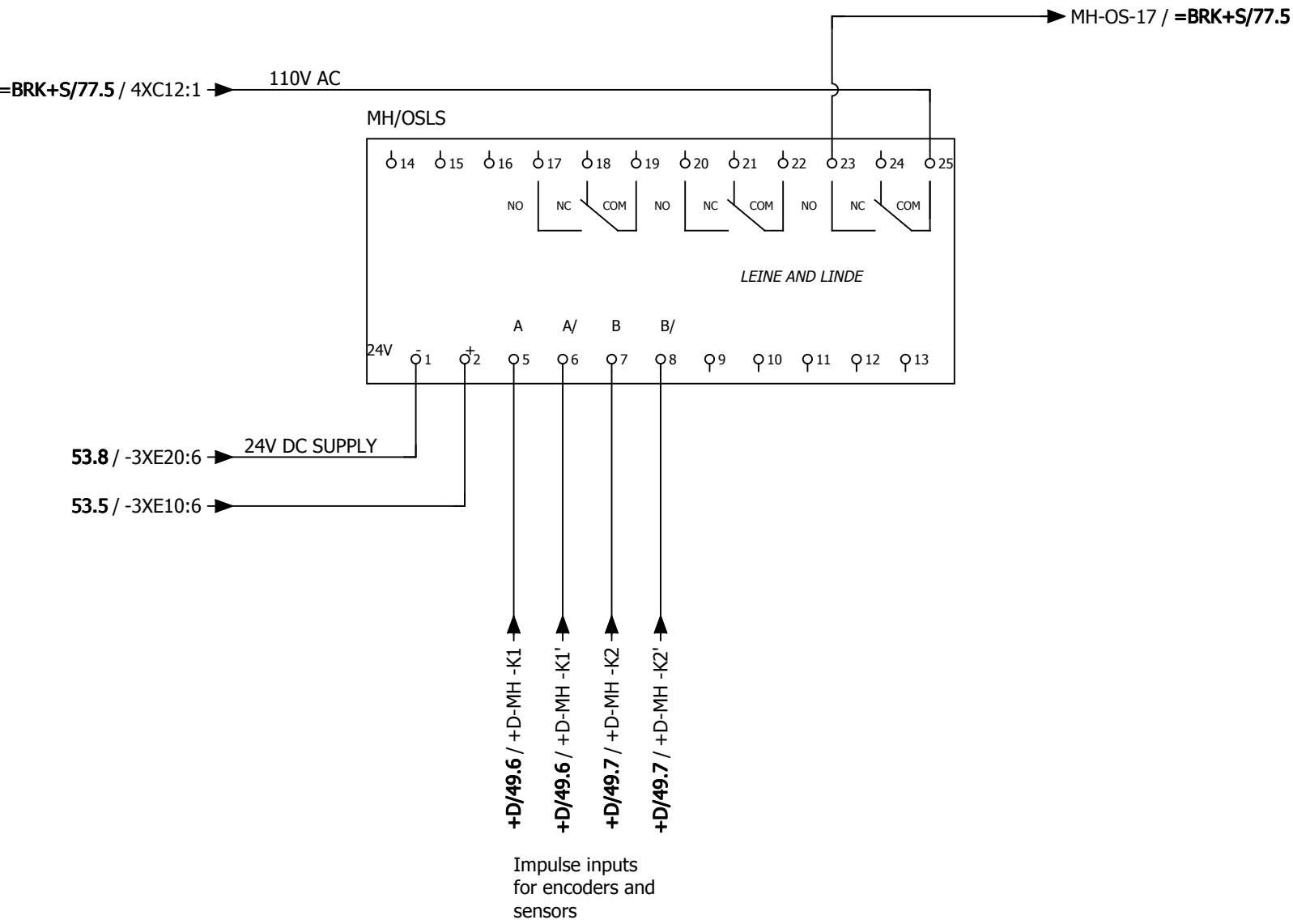
+D/48.0 / 3XE10:1  
+D/49.0 / 3XE10:2  
+D/49.7 / 3XE10:3  
+D/50.0 / 3XE10:4  
+D/51.0 / 3XE10:5

+D/48.0 / 3XE20:1  
+D/49.0 / 3XE20:2  
+D/49.7 / 3XE20:3  
+D/50.0 / 3XE20:4  
+D/51.0 / 3XE20:5

3XE20:6 / 54.3

			Date	31/12/2012	Client : JSW-BELLARY			110V AC & 24V DC SUPPLY DISTRIBUTION	DRWG No : 1301146		= DRV		
			Ed.	ASHOK.C							+ E		
REVISION-0		ASHOK.C	Chk by	AKR	Application : SEMI PORTAL CRANE							Page	53
Modification	Date	Name	Appr		Replacement of	Replaced by						Page	105

OVER SPEED SWITCH FOR MH



			Date	31/12/2012	Client : JSW-BELLARY Application : SEMI PORTAL CRANE Replacement of Replaced by		OVER SPEED SWITCH	DRWG No : 1301146	= DRV	
			Ed.	ASHOK.C					+ E	
REVISION-0		ASHOK.C	Chk by	AKR						Page 54
Modification	Date	Name	Appr							Page 105

**Project name**

**SMS - 1**

## Plant Designation

## BRAKE SECTION

## Classification

## GENERAL ARRANGEMENT

## Control voltage

## 110V AC SUPPLY

**Job number**

**1301146**

## Application

SEMI PORTAL CRANE

### Remarks

			Date	31/12/2012	Client : JSW-BELLARY		COVER PAGE	DRWG No : 1301146		= BRK
			Ed.	ASHOK.C						+ A
REVISION-0		ASHOK.C	Chk by	AKR				Application : SEMI PORTAL CRANE		
Modification	Date	Name	Appr		Replacement of	Replaced by			Page	105





**Project name**

**SMS - 1**

## Plant Designation

## BRAKE SECTION

## Classification

## PART LIST

## Control voltage

## 110V AC SUPPLY

**Job number**

**1301146**

## Application

SEMI PORTAL CRANE

### Remarks

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

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	



### Project name

**SMS - 1**

## Plant Designation

## BRAKE SECTION

## Classification

### THREE LINE DIAGRAM

### Control voltage

## 110V AC SUPPLY

**Job number**

**1301146**

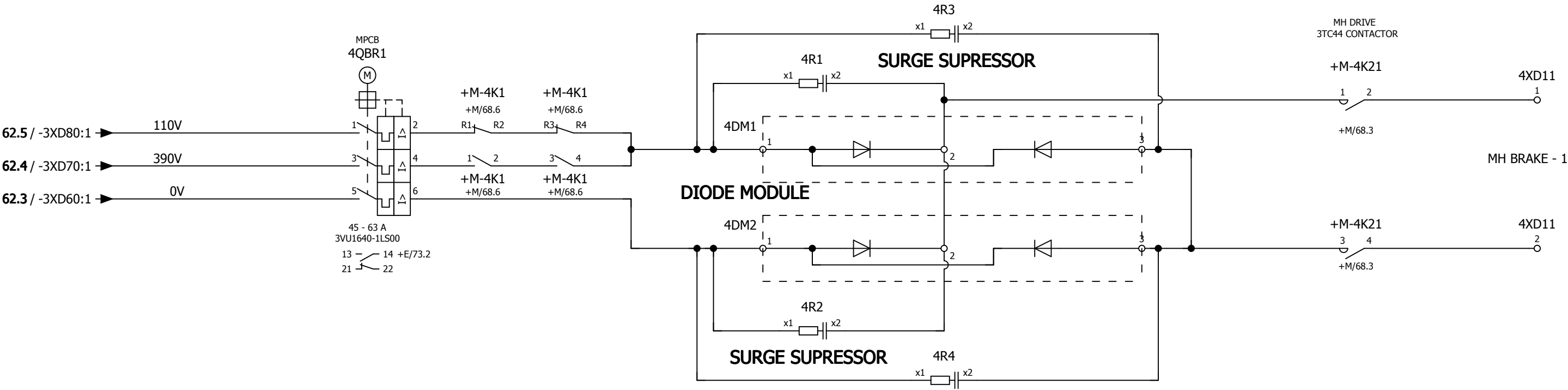
## Application

SEMI PORTAL CRANE

### Remarks

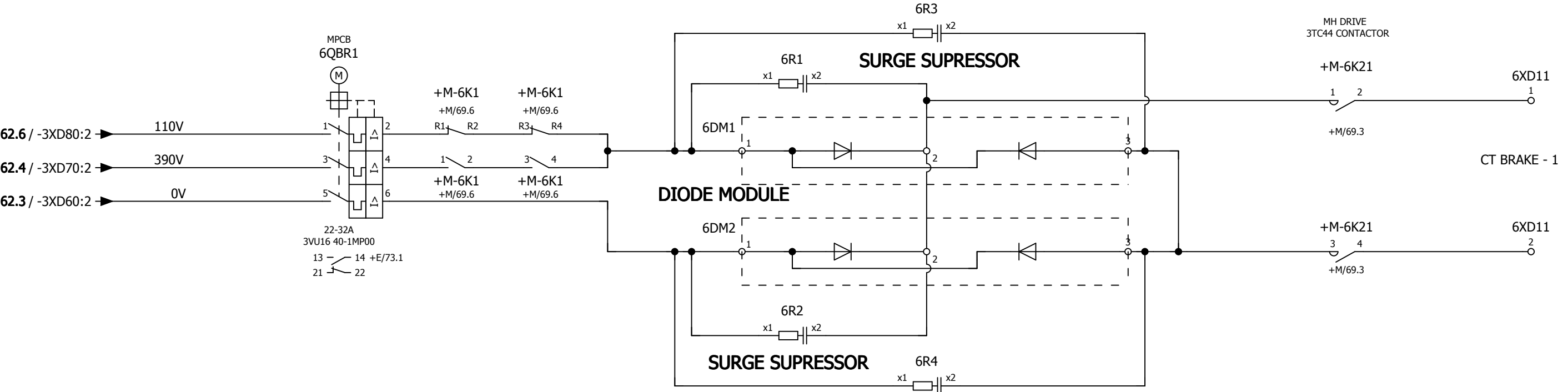


THREE LINE DIAGRAM

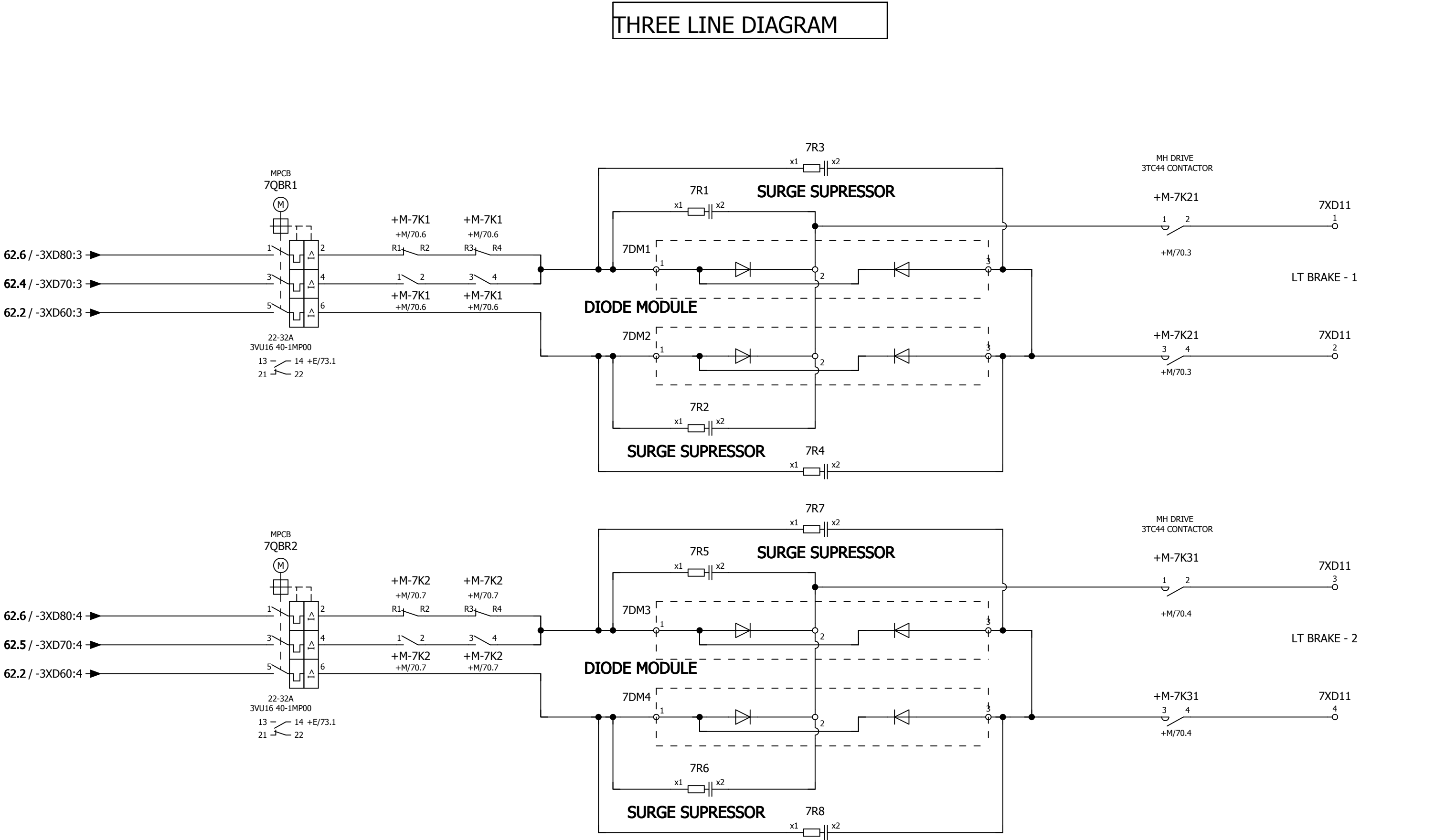


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			Ed.	ASHOK.C						+ D	
REVISION-0		ASHOK.C	Chk by	AKR							Page 63
Modification	Date	Name	Appr		Replacement of	Replaced by					Page 105

THREE LINE DIAGRAM





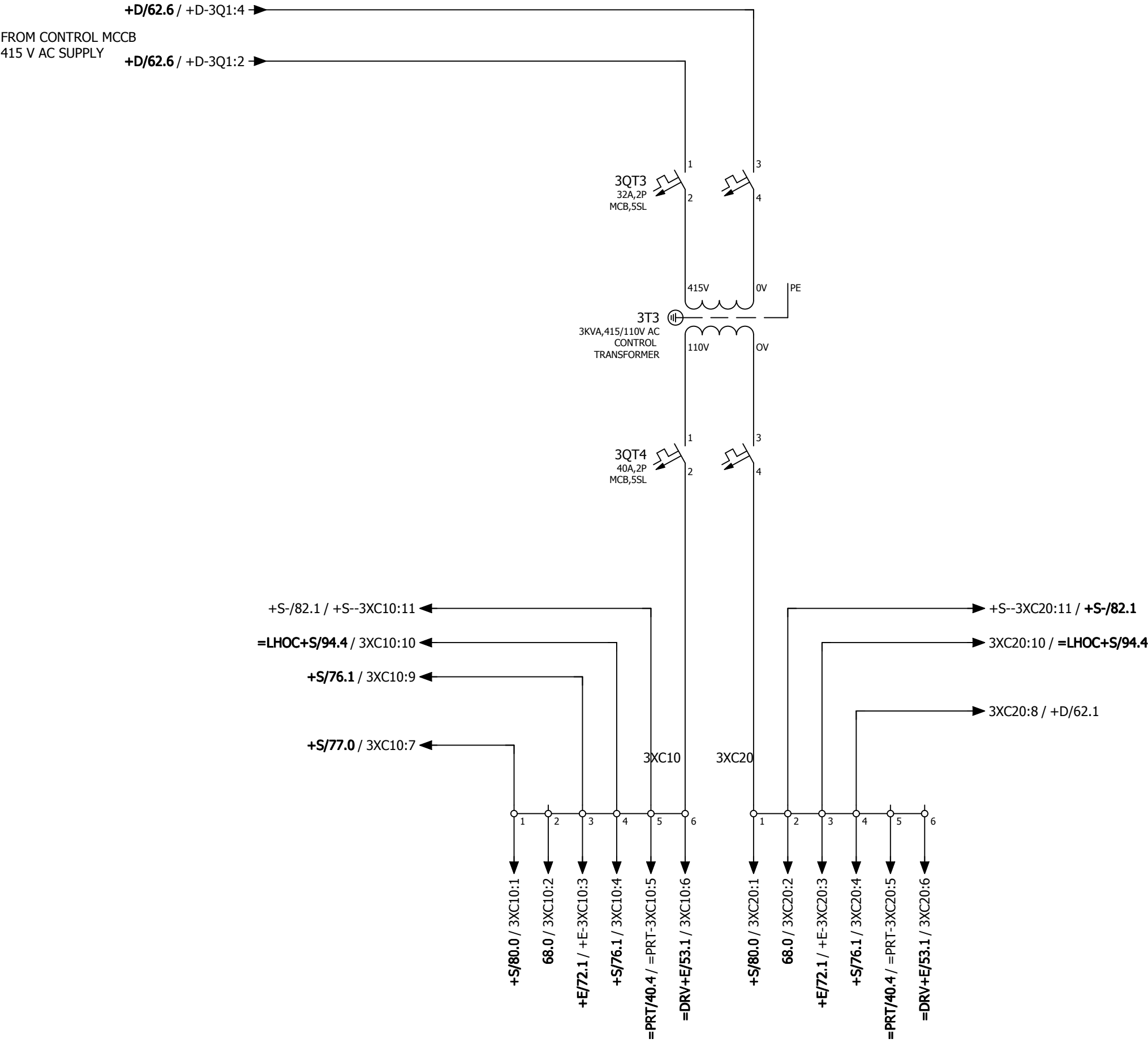


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			Ed.	ASHOK.C						+ D	
			Chk by	AKR						Page	65
Modification	Date	Name	Appr		Replacement of	Replaced by				Page	105

Project name	SMS - 1
Plant Designation	BRAKE SECTION
Classification	CONTROL CIRCUIT
Control voltage	110V AC SUPPLY

Job number	1301146
Application	SEMI PORTAL CRANE
Remarks	

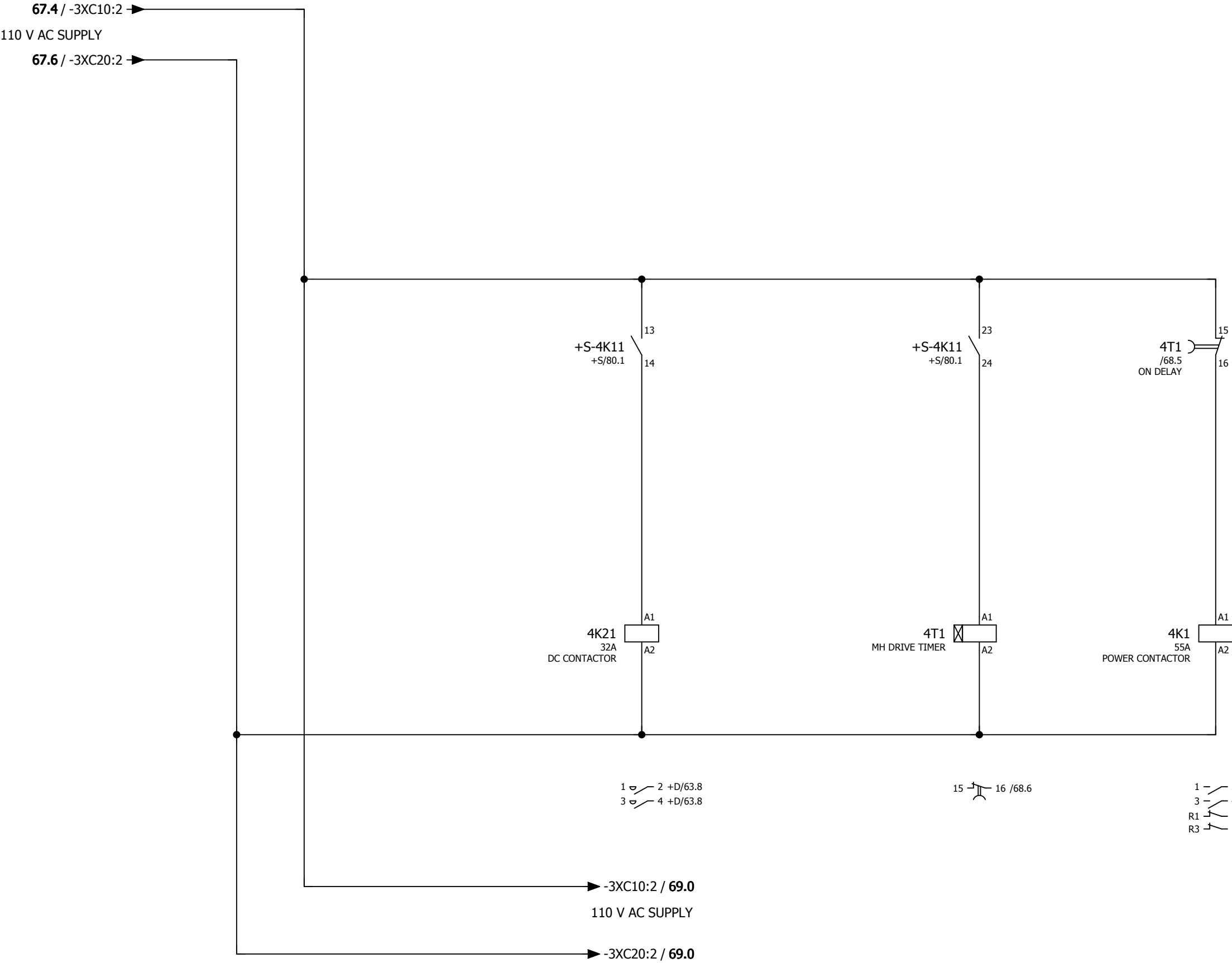
110V AC SUPPLY DISTRIBUTION



Previous page

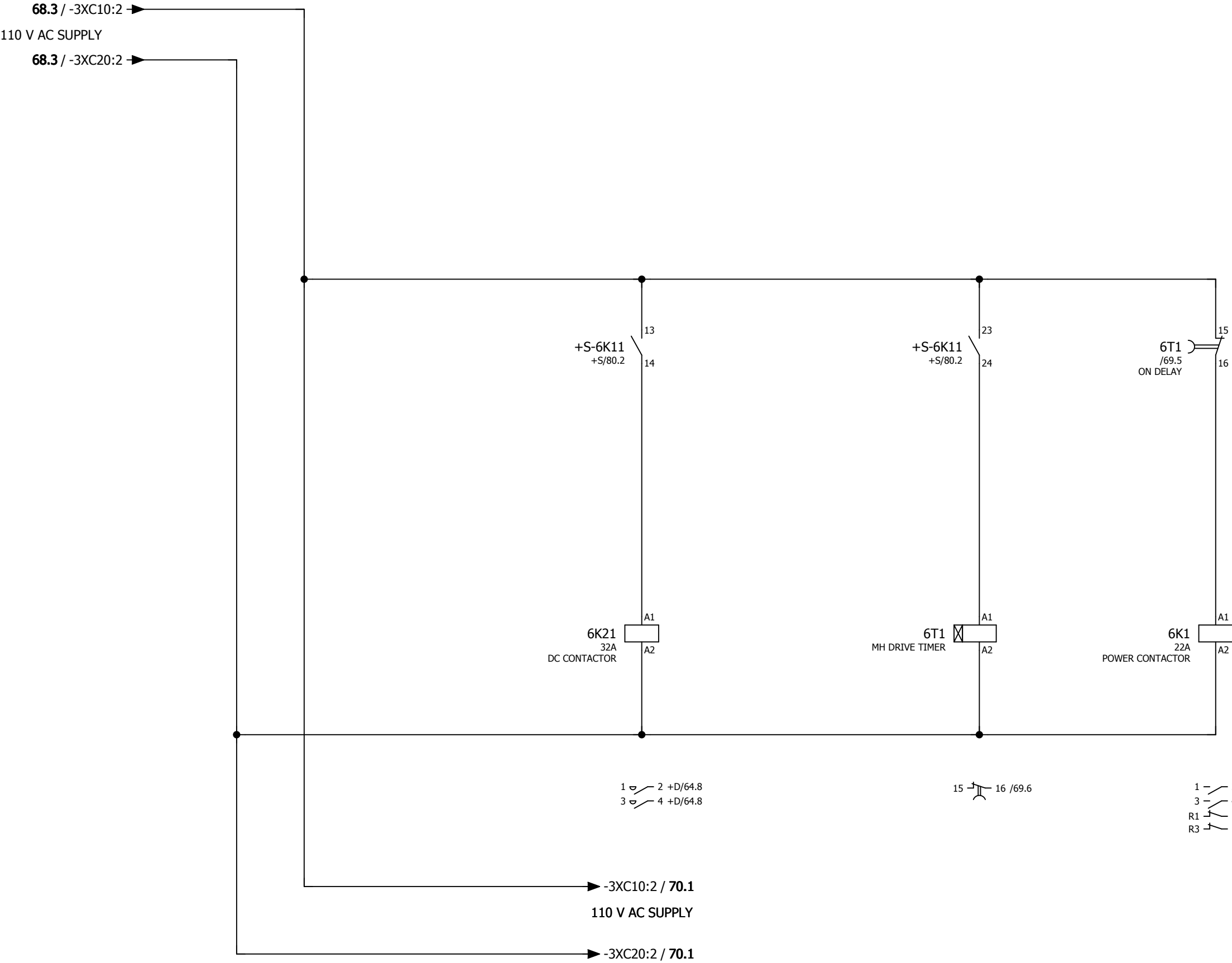
Next page

MH BRAKE CONTROL CIRUIT



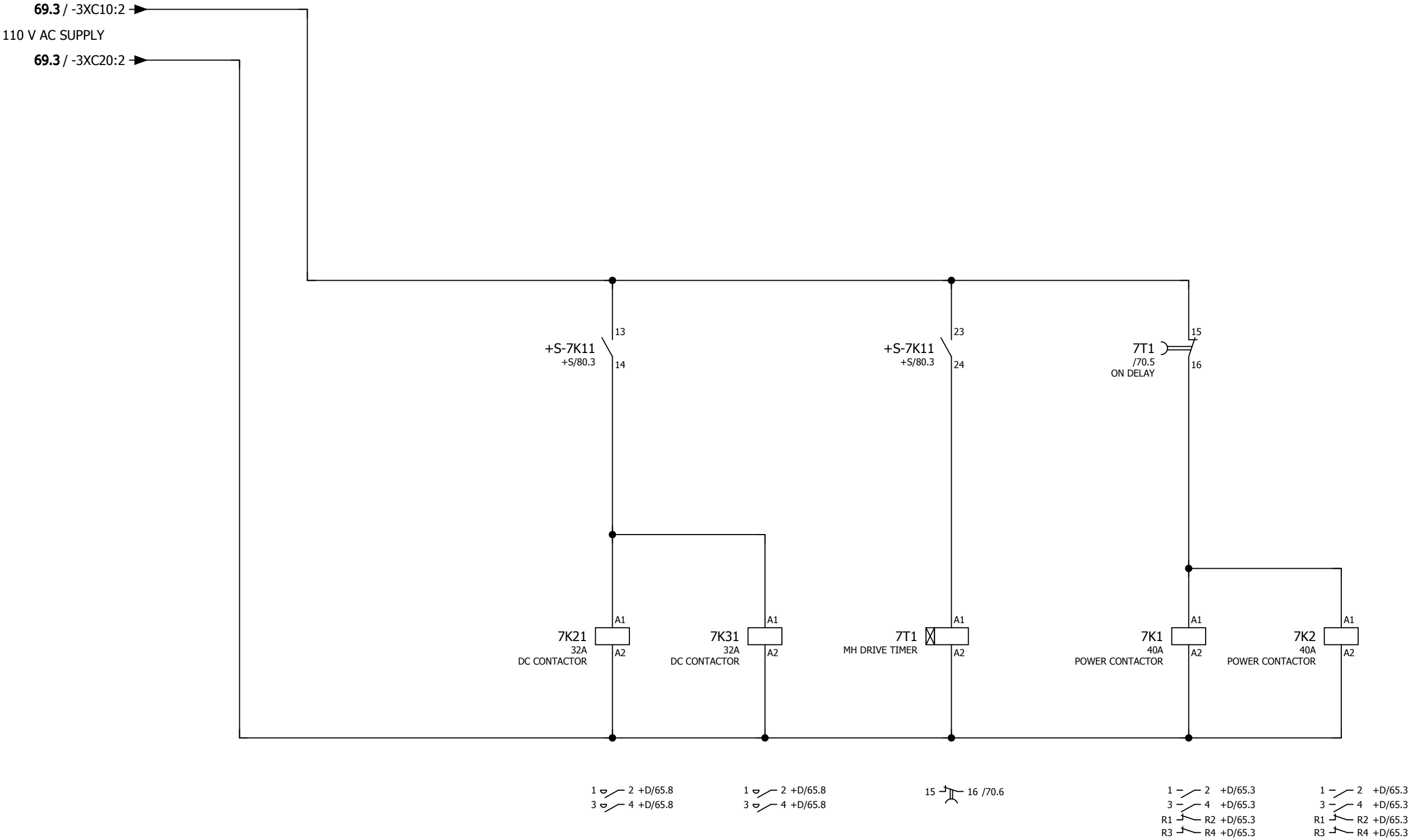
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			Ed.	ASHOK.C				+ M			
VISION-0		ASHOK.C	Chk by	AKR						Page	68
Modification	Date	Name	Appr		Replacement of		Replaced by			Page	105

CT BRAKE CONTROL CIRUIT



			Date	31/12/2012	Client : JSW-BELLARY		BRAKE SECTION	DRWG No : 1301146		= BRK	
			Ed.	ASHOK.C				+ M			
VISION-0		ASHOK.C	Chk by	AKR						Page	69
Modification	Date	Name	Appr		Replacement of		Replaced by			Page	105

LT BRAKE CONTROL CIRUIT



### Project name

**SMS - 1**

## Plant Designation

## BRAKE SECTION

## Classification

ELECTRONICS

### Control voltage

## 110V AC SUPPLY

**Job number**

**1301146**

## Application

SEMI PORTAL CRANE

### Remarks

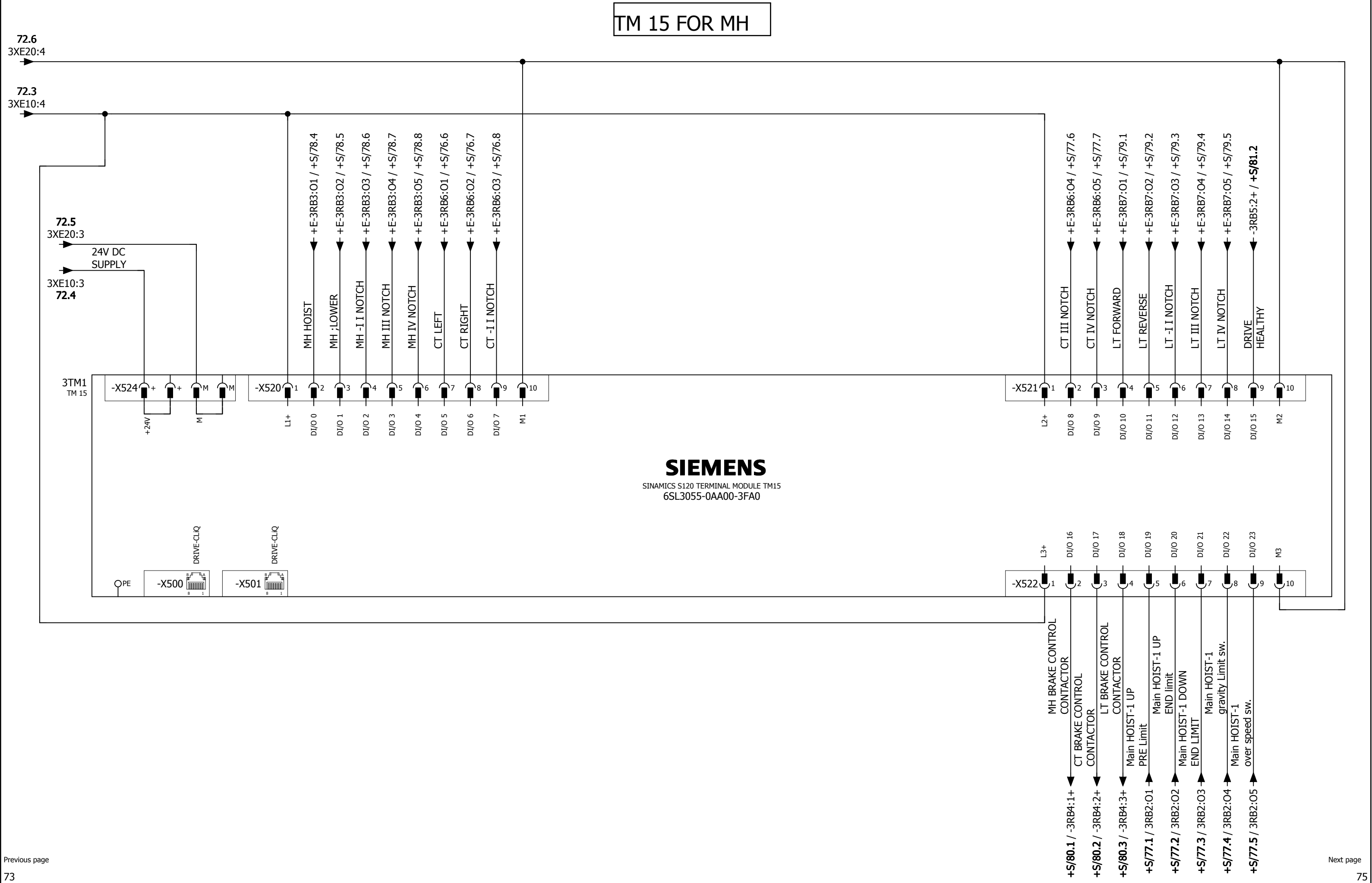
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REVISION-0		ASHOK.C	Chk by	AKR				Application : SEMI PORTAL CRANE			Page 71
Modification	Date	Name	Appr		Replacement of	Replaced by			Page 105		



			Date	31/12/2012	Client : JSW-BELLARY		24V DC SUPPLY DISTRIBUTION	DRWG No : 1301146		= BRK
			Ed.	ASHOK.C						+ E
REVISION-0		ASHOK.C	Chk by	AKR				Application : SEMI PORTAL CRANE		
Modification	Date	Name	Appr		Replacement of	Replaced by			Page 105	







			Date	31/12/2012	Client : JSW-BELLARY	
			Ed.	ASHOK.C		
REVISION-0		ASHOK.C	Chk by	AKR	Application : SEMI PORTAL CRANE	
Modification	Date	Name	Appr		Replacement of	Replaced by



TM 15

DRWG No : 1301146

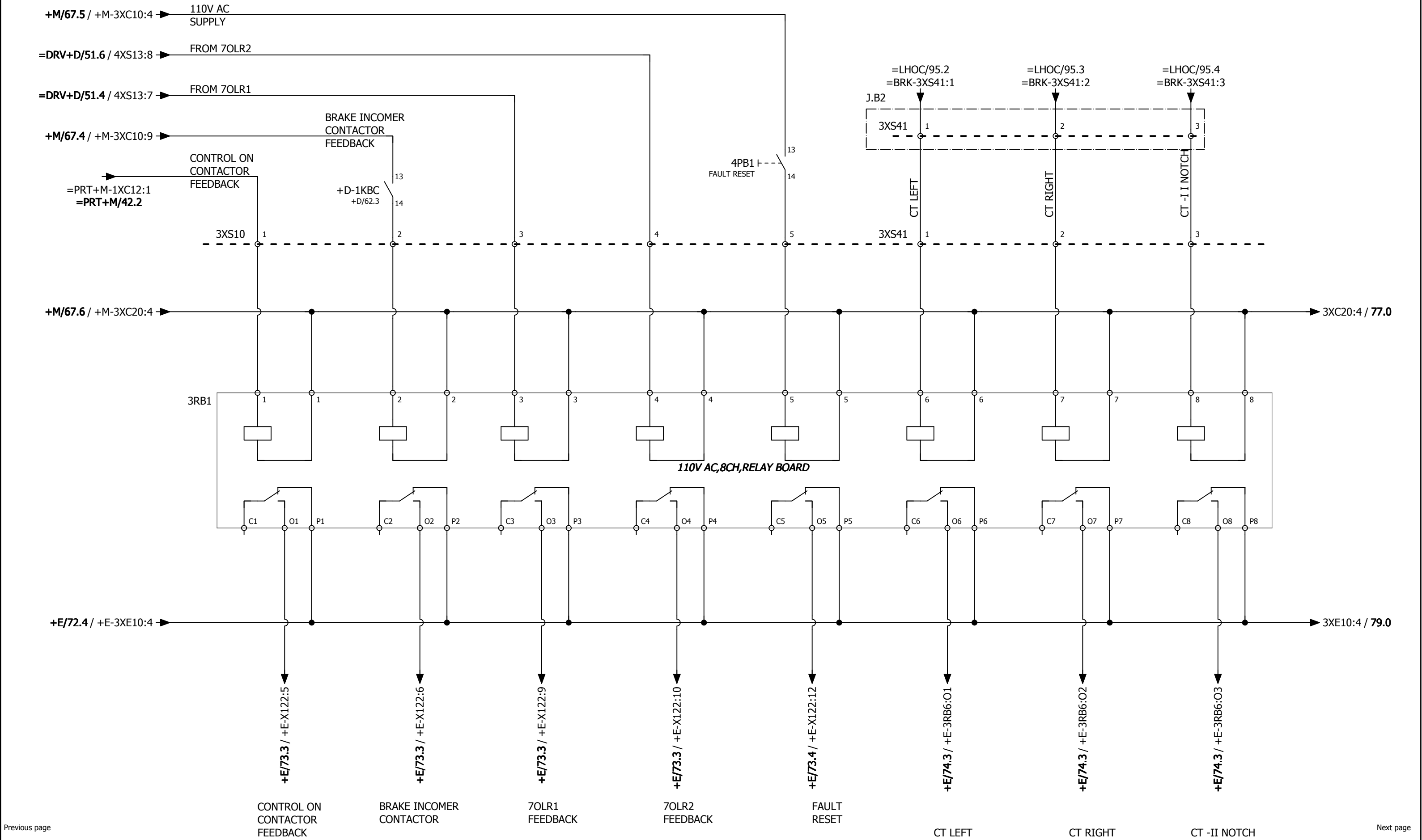
= BRK  
+ E



SINAMICS S120 TERMINAL MODULE TM15  
6SL3055-0AA00-3FA0

			Date	31/12/2012	Client : JSW-BELLARY		TM 15	\$ + \$ + \$ + \$ + \$ + \$ = BAK \$		
			Ed.	ASHOK.C				DRWG No : 1301146	+ E	
REVISION-0		ASHOK.C	Chk by	AKR						Page 75
Modification	Date	Name	Appr		Replacement of	Replaced by			Page 105	

110V AC RELAY BOARD



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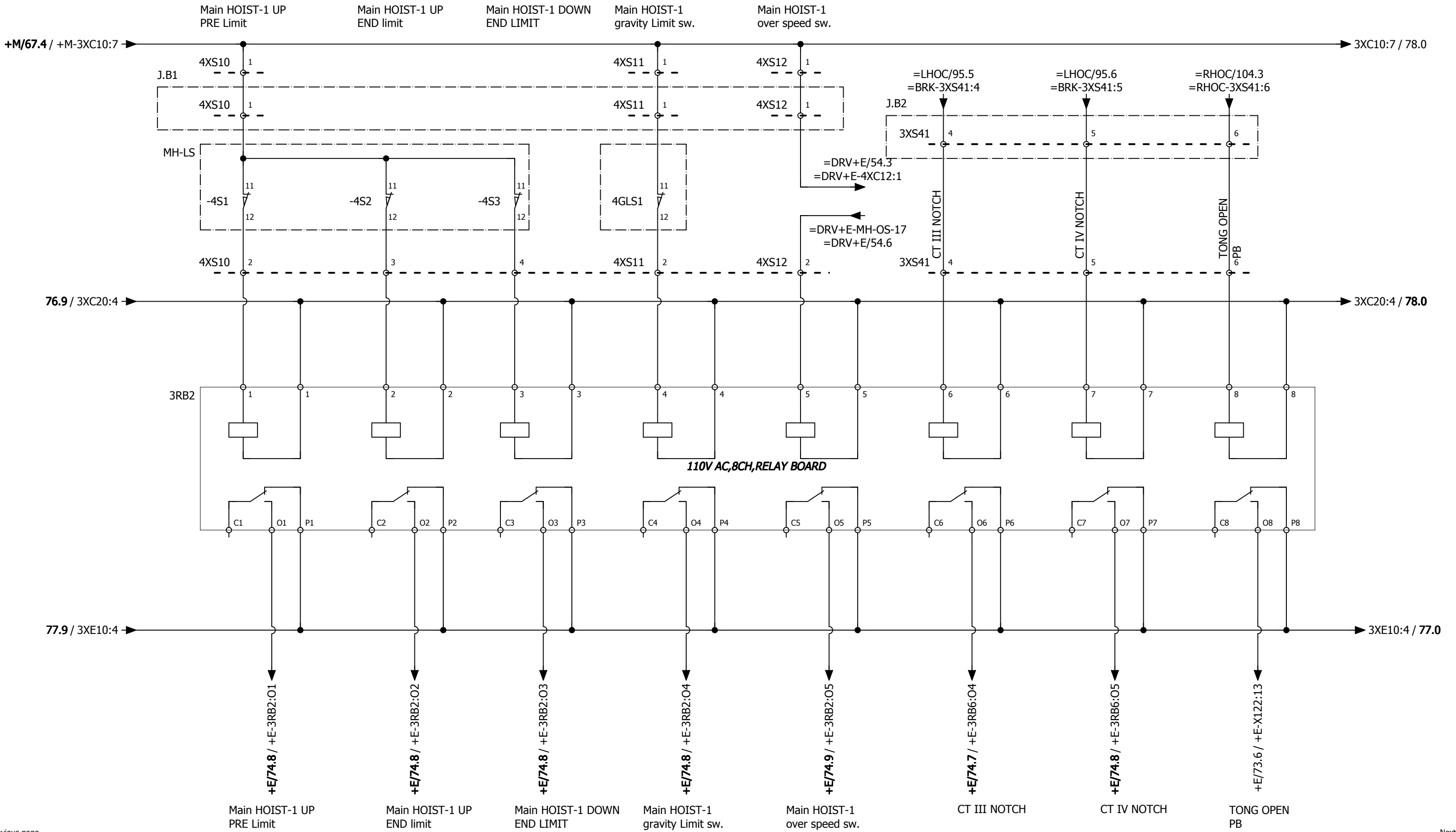
+E/75

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REVISION-0		ASHOK.C	Date	31/12/2012	Client : JSW-BELLARY	Application : SEMI PORTAL CRANE		110V AC RELAY BOARD	DRWG No : 1301146	= BRK + S	Page 76
			Ed.	ASHOK.C							
			Chk by	AKR							
Modification	Date	Name	Appr		Replacement of	Replaced by					Page 105

# 110V AC RELAY BOARD



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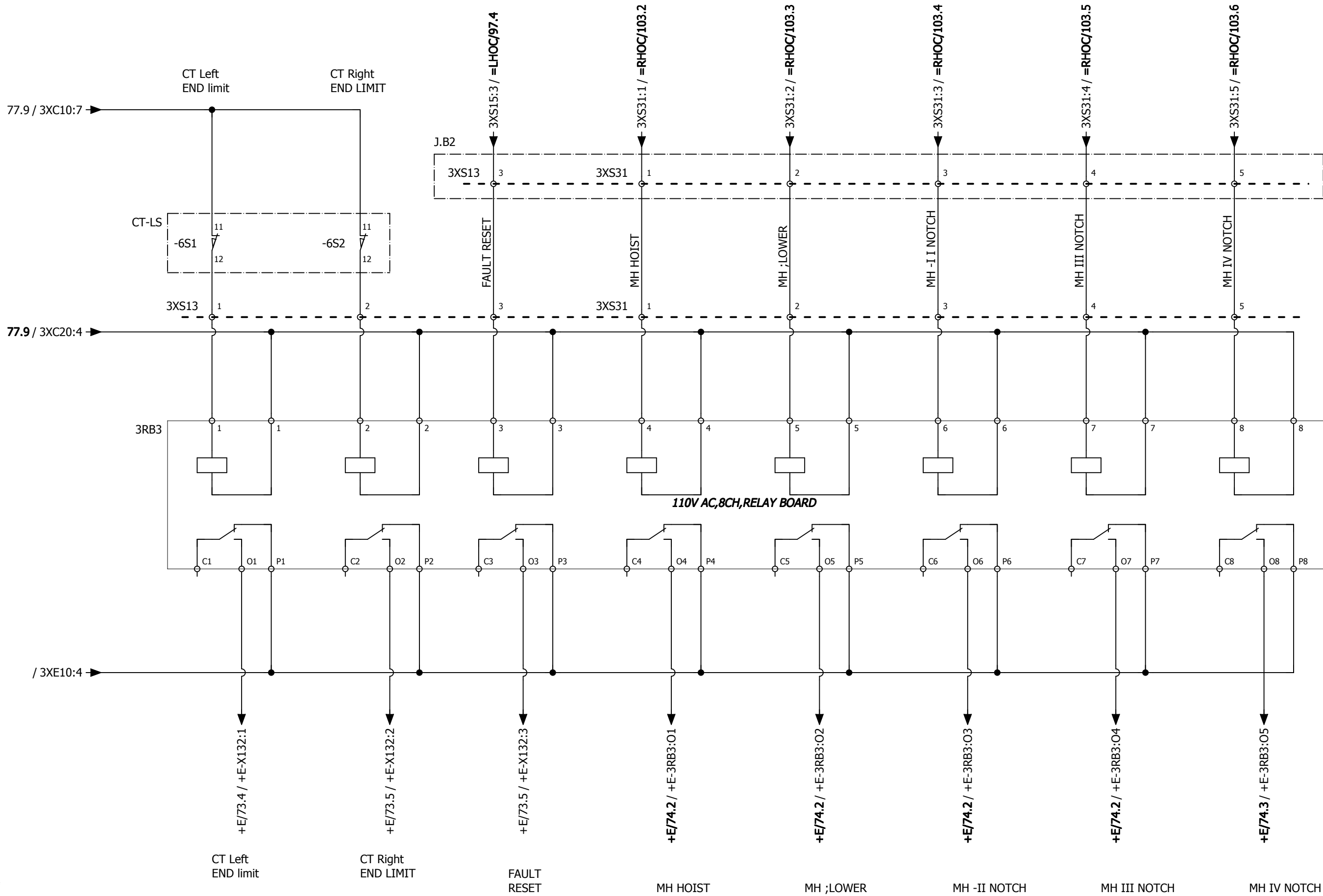
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REVISION-0		ASHOK.C	Chk by	AKR					Application : SEMI PORTAL CRANE			
Modification	Date	Name	Appr		Replacement of	Replaced by					Page	105



110V AC RELAY BOARD

110V AC RELAY BOARD

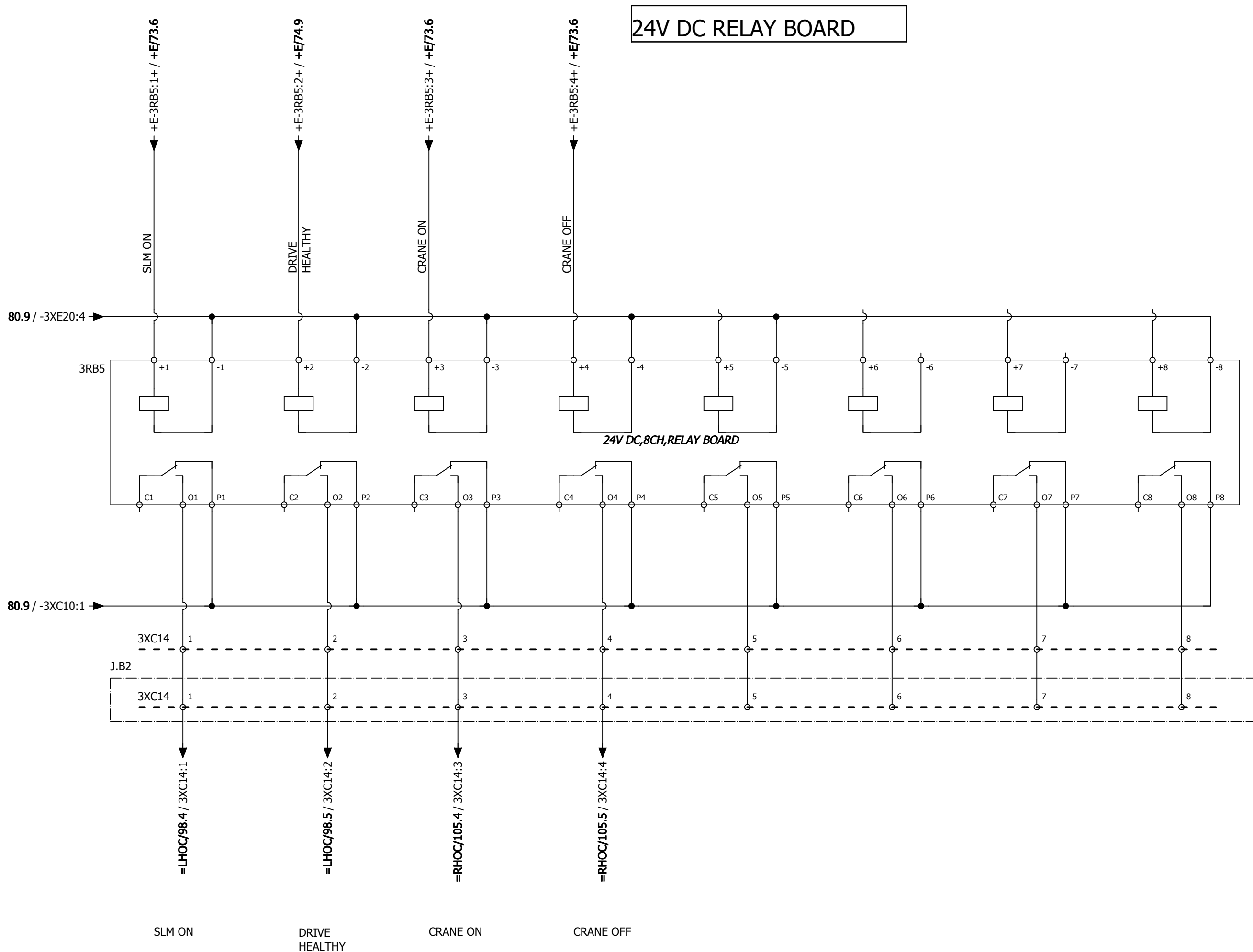


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			Ed.	ASHOK.C							+ S	
REVISION-0		ASHOK.C	Chk by	AKR	Application : SEMI PORTAL CRANE						Page	78
Modification	Date	Name	Appr						Replacement of	Replaced by		



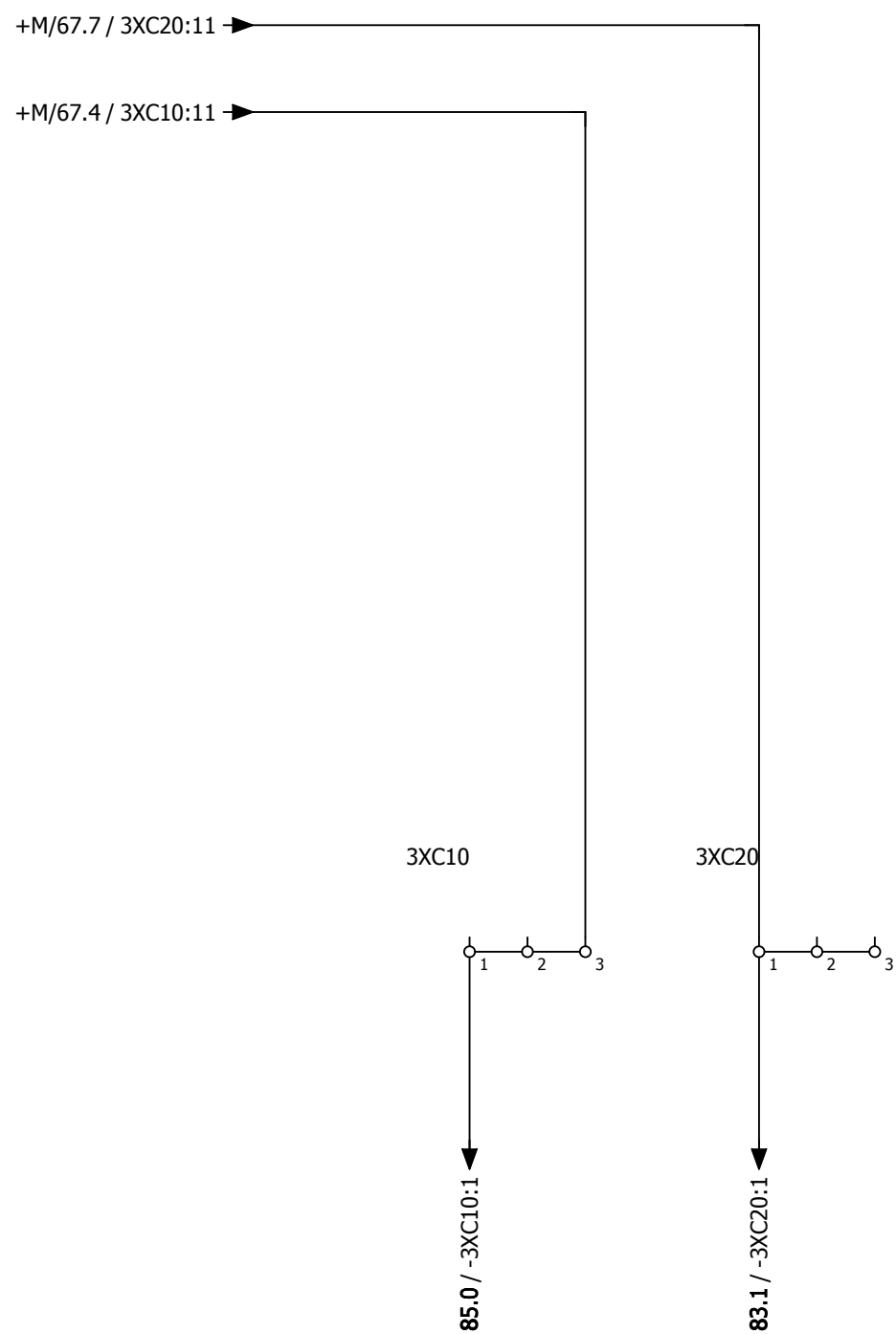




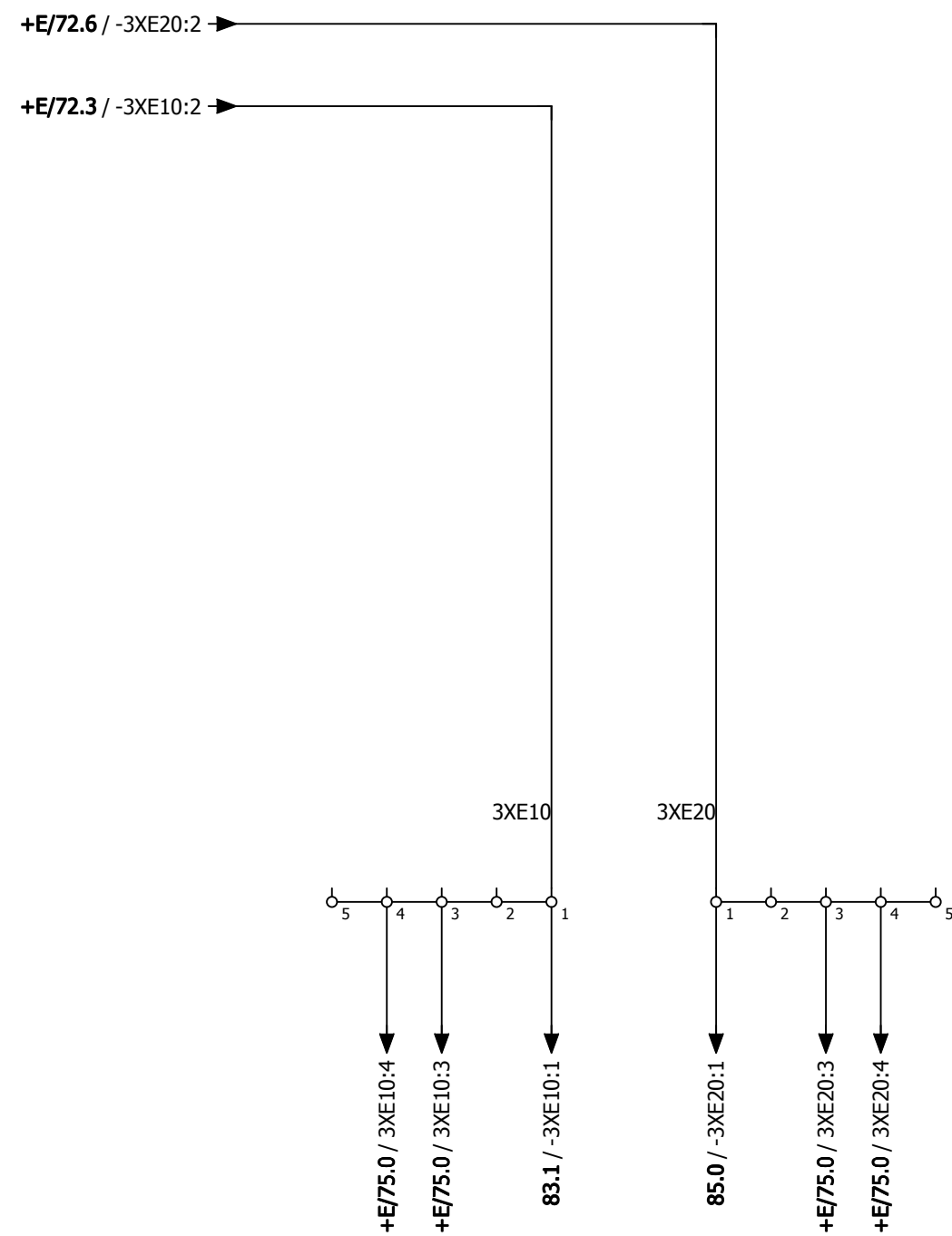


			Date	31/12/2012	Client : JSW-BELLARY	<div><div>RSP</div><div>CONTROL PROJECTS (P) LTD</div></div>	24V DC RELAY BOARD	DRWG No : 1301146	= BRK	
			Ed.	ASHOK.C					+ S	
REVISION-0		ASHOK.C	Chk by	AKR						Page 81
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## 110V AC SUPPLY DISTRIBUTION



## 24V DC SUPPLY DISTRIBUTION

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+S/81

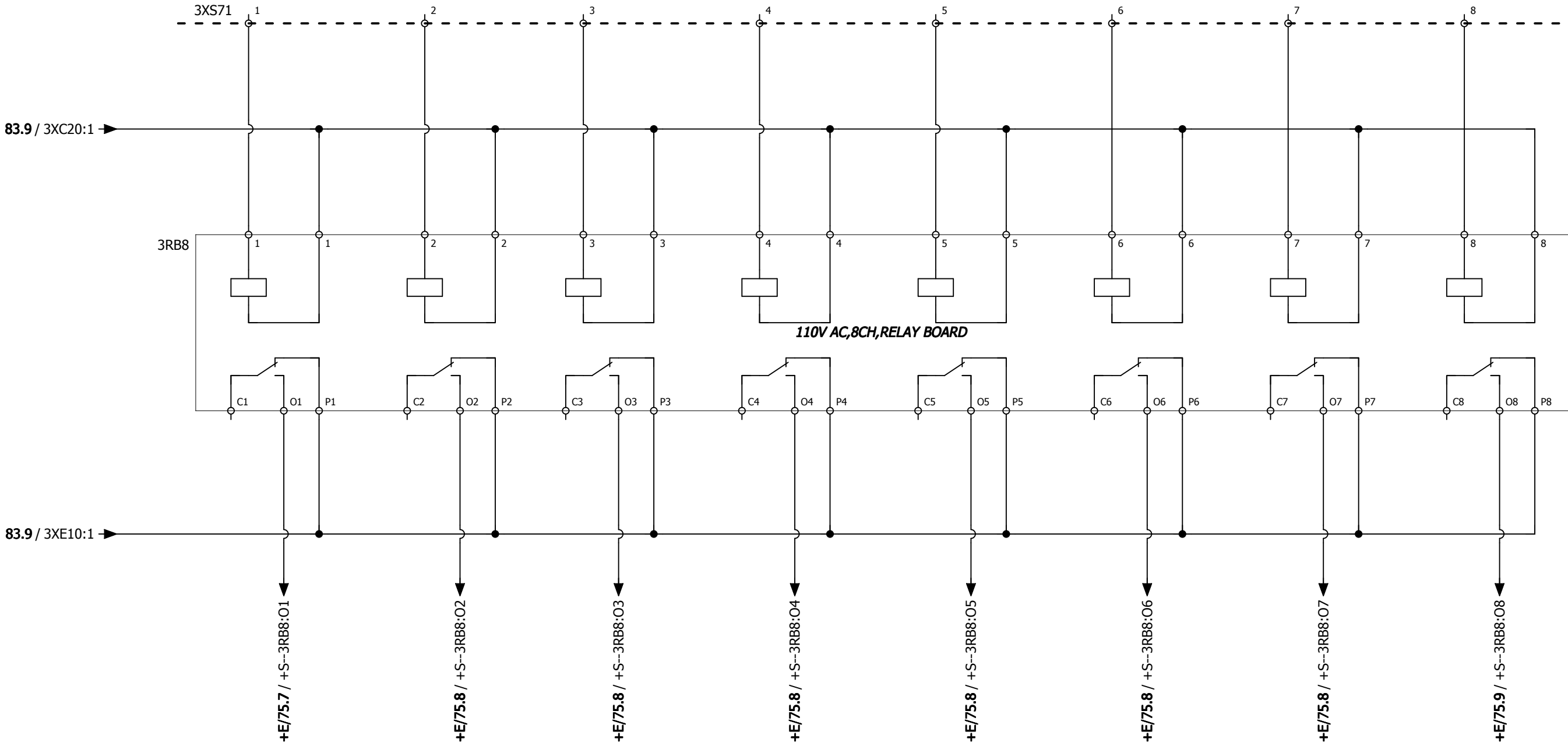
83

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REVISION-0		ASHOK.C	Chk by	AKR				Application : SEMI PORTAL CRANE		
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			Date	31/12/2012	Client : JSW-BELLARY		110V AC RELAY BOARD	DRWG No : 1301146		= BRK			
			Ed.	ASHOK.C						+ S-			
REVISION-0		ASHOK.C	Chk by	AKR				Application : SEMI PORTAL CRANE				Page 83	
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110V AC RELAY BOARD



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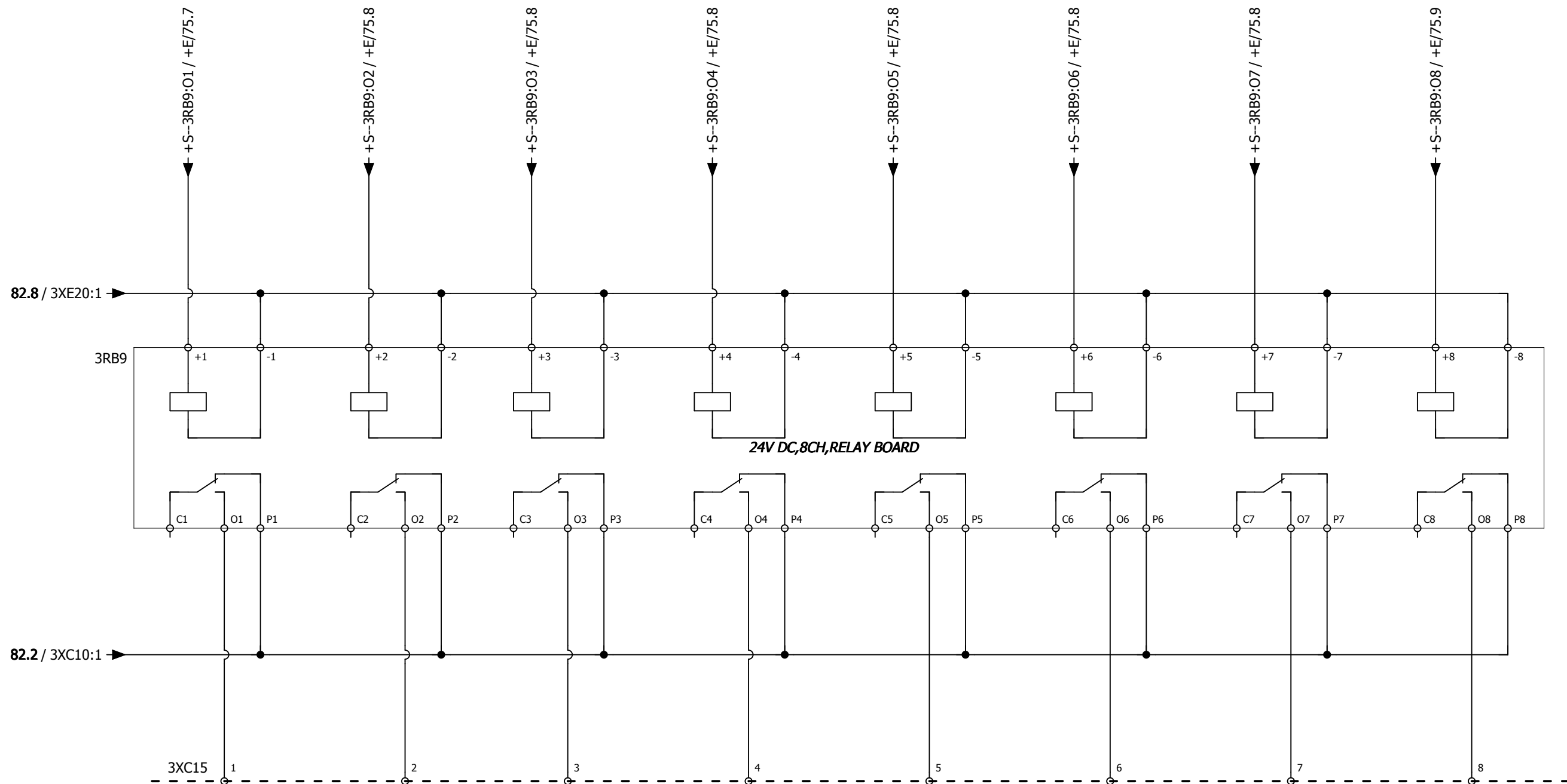
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85

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			Ed.	ASHOK.C					+ S-	
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## 24V DC RELAY BOARD

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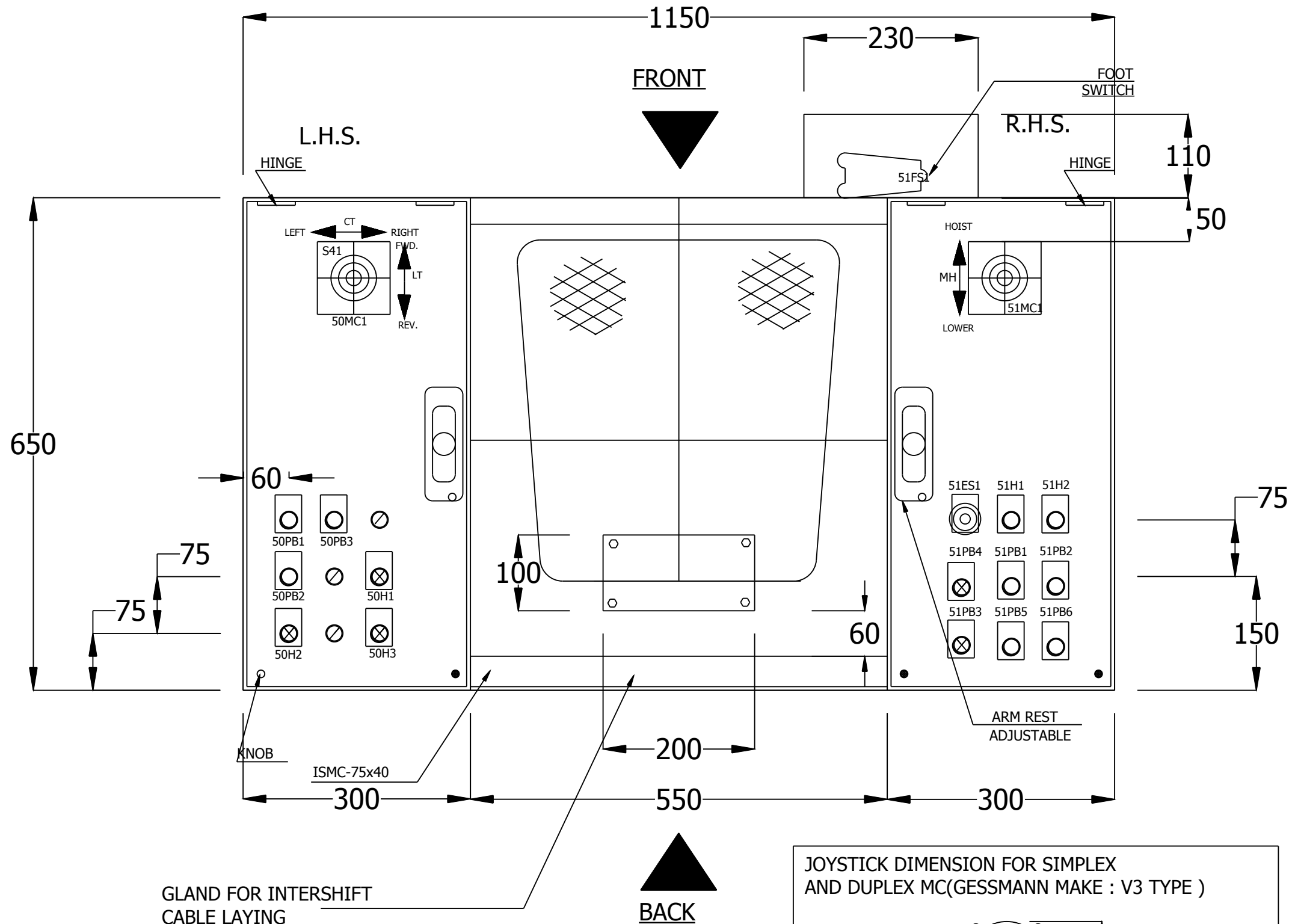
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$$=LHOC+A/86$$

			Date	31/12/2012	Client : JSW-BELLARY			24V DC RELAY BOARD	DRWG No : 1301146		= BRK			
			Ed.	ASHOK.C							+ S-			
REVISION-0		ASHOK.C	Chk by	AKR					Application : SEMI PORTAL CRANE					
Modification	Date	Name	Appr		Replacement of	Replaced by					Page	85		
											Page	105		



### TOP VIEW

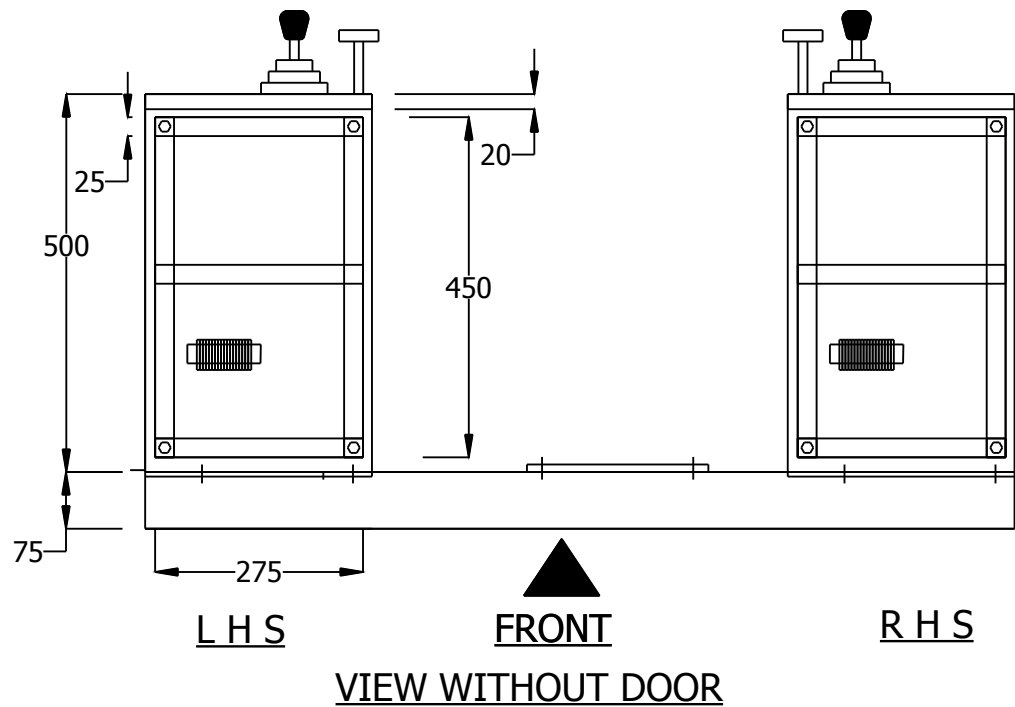
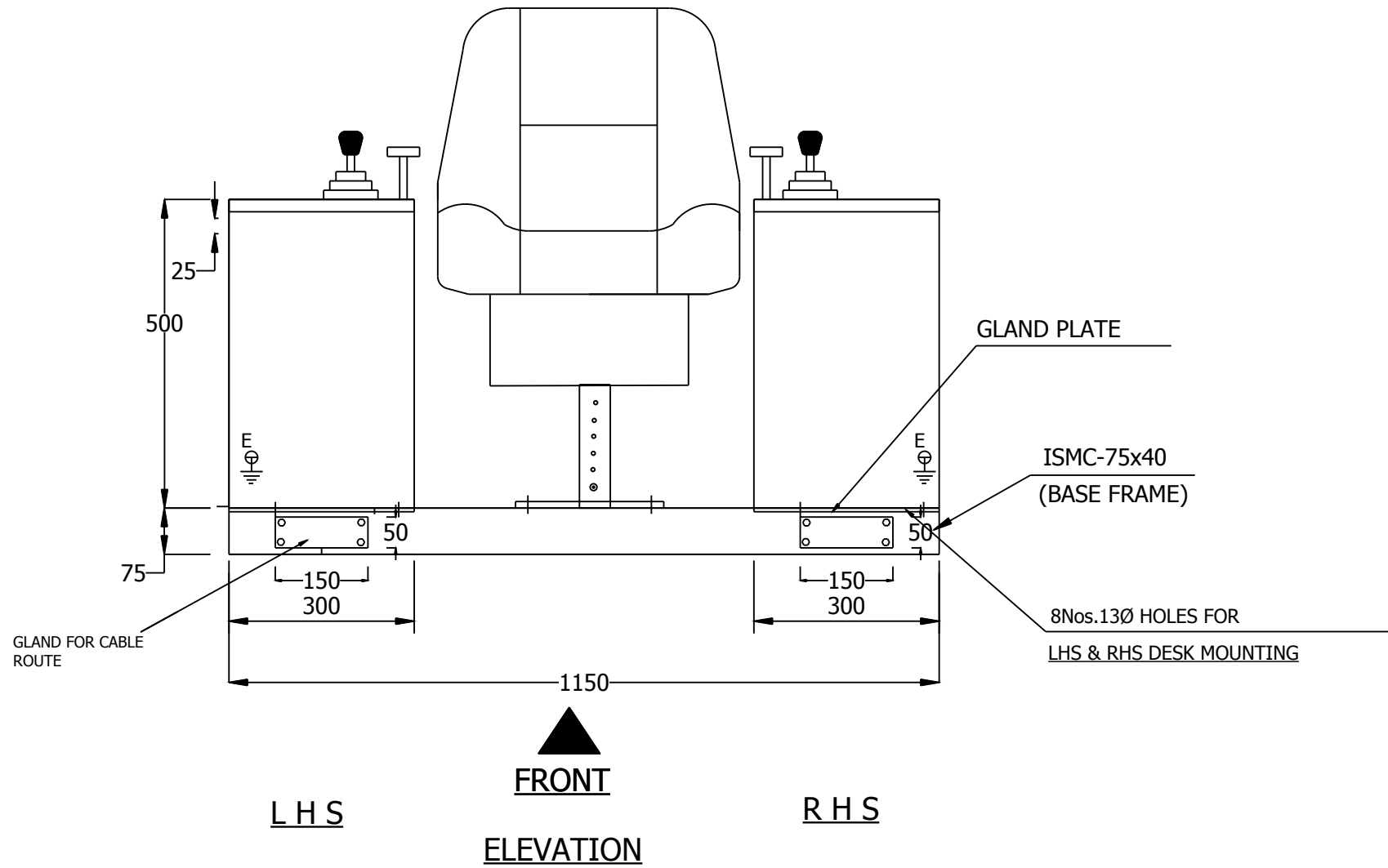


LEGEND	NAME PLATE
	<u>RIGHT DESK</u>
51MC1	MAIN HOIST MASTER CONTROLLER (SIMPLEX)
51PB1	CRANE ON (PB GREEN)
51PB2	CRANE OFF (PB RED)
51ES1	EM. STOP (PLTR RED)
51FS1	FOOT SWITCH
51PB3	TONG OPEN (PB BLUE)
51PB4	TONG CLOSE (PB YELLOW)
51PB5	TONG OPEN (PB BLUE)
51PB6	TONG CLOSE (PB YELLOW)
51H1	CRANE ON (IL GREEN)
51H2	CRANE OFF (IL RED)
	<u>LEFT DESK</u>
50MC1	CT/LT. MASTER CONTROLLER (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)

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			Date	31/12/2012	Client : JSW-BELLARY		GENERAL ARRANGEMENT	= LHOC		
			Ed.	ASHOK.C				DRWG No : 1301146	+ A	
REVISION-0		ASHOK.C	Chk by	AKR				Application : SEMI PORTAL CRANE		Page 87
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FRONT VIEW



			Date	31/12/2012	Client : JSW-BELLARY	
			Ed.	ASHOK.C		
REVISION-0		ASHOK.C	Chk by	AKR	Application : SEMI PORTAL CRANE	
Modification	Date	Name	Appr		Replacement of	Replaced by



GENERAL ARRANGEMENT

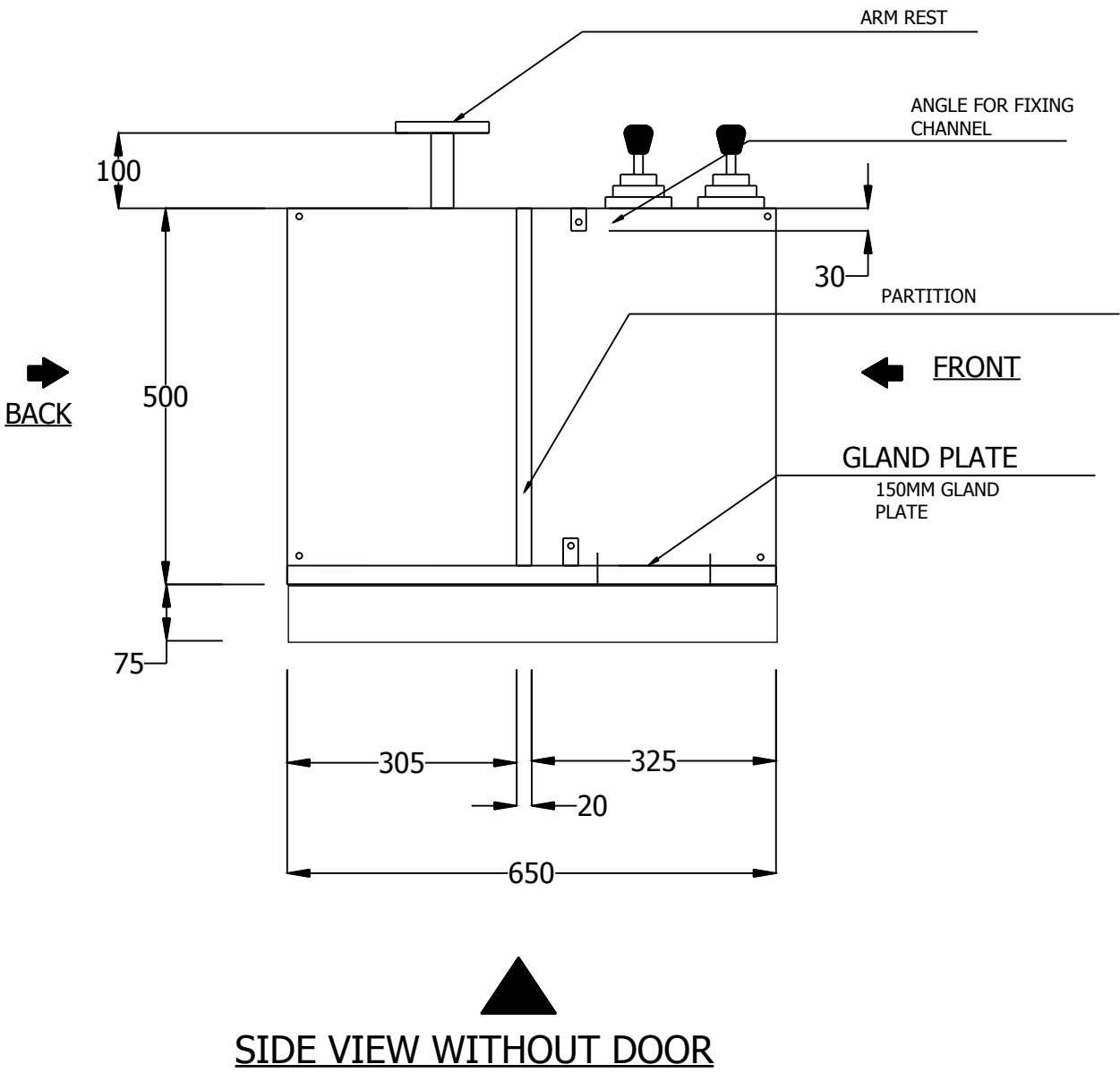
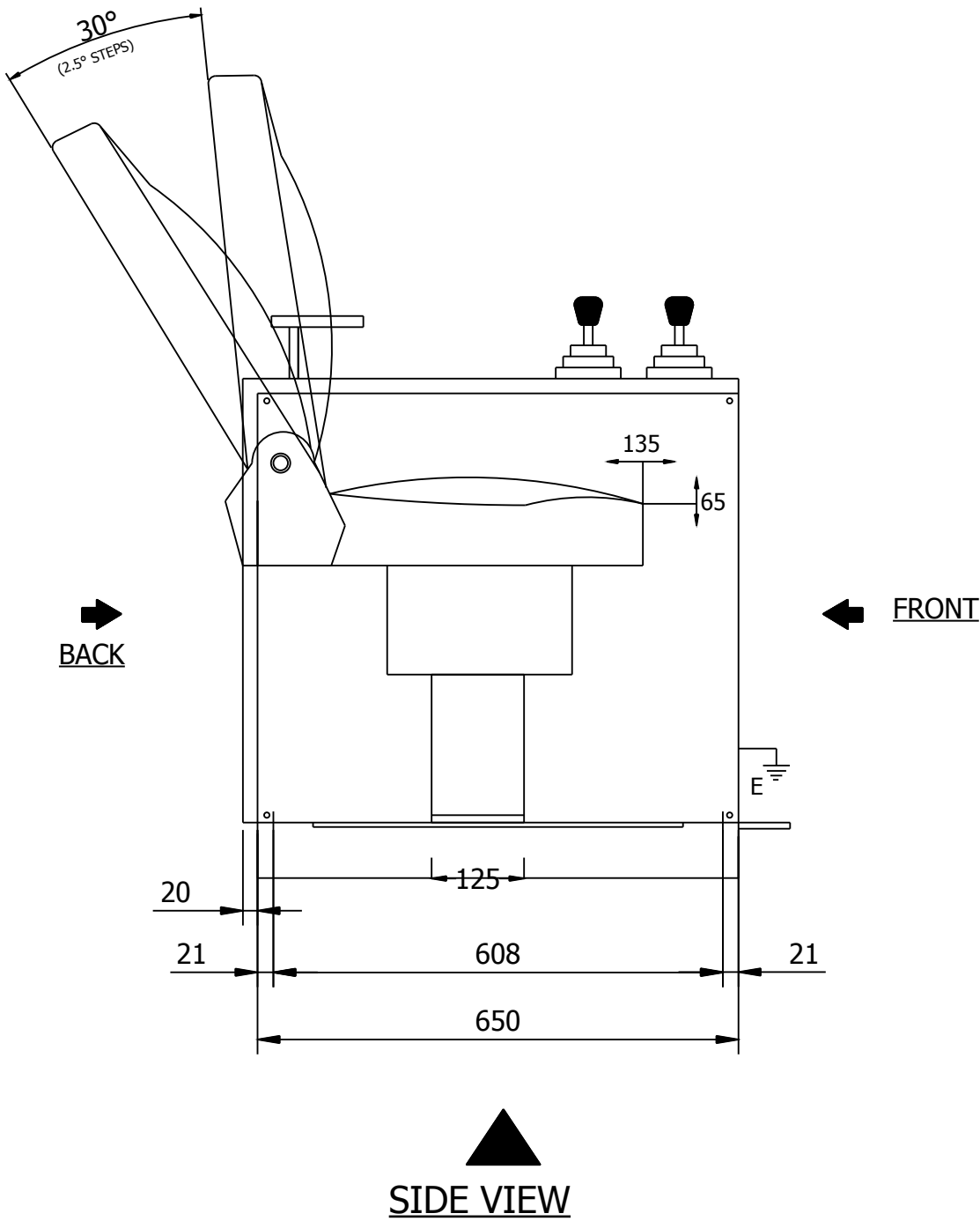
DRWG No : 1301146

= LHOC

+ A

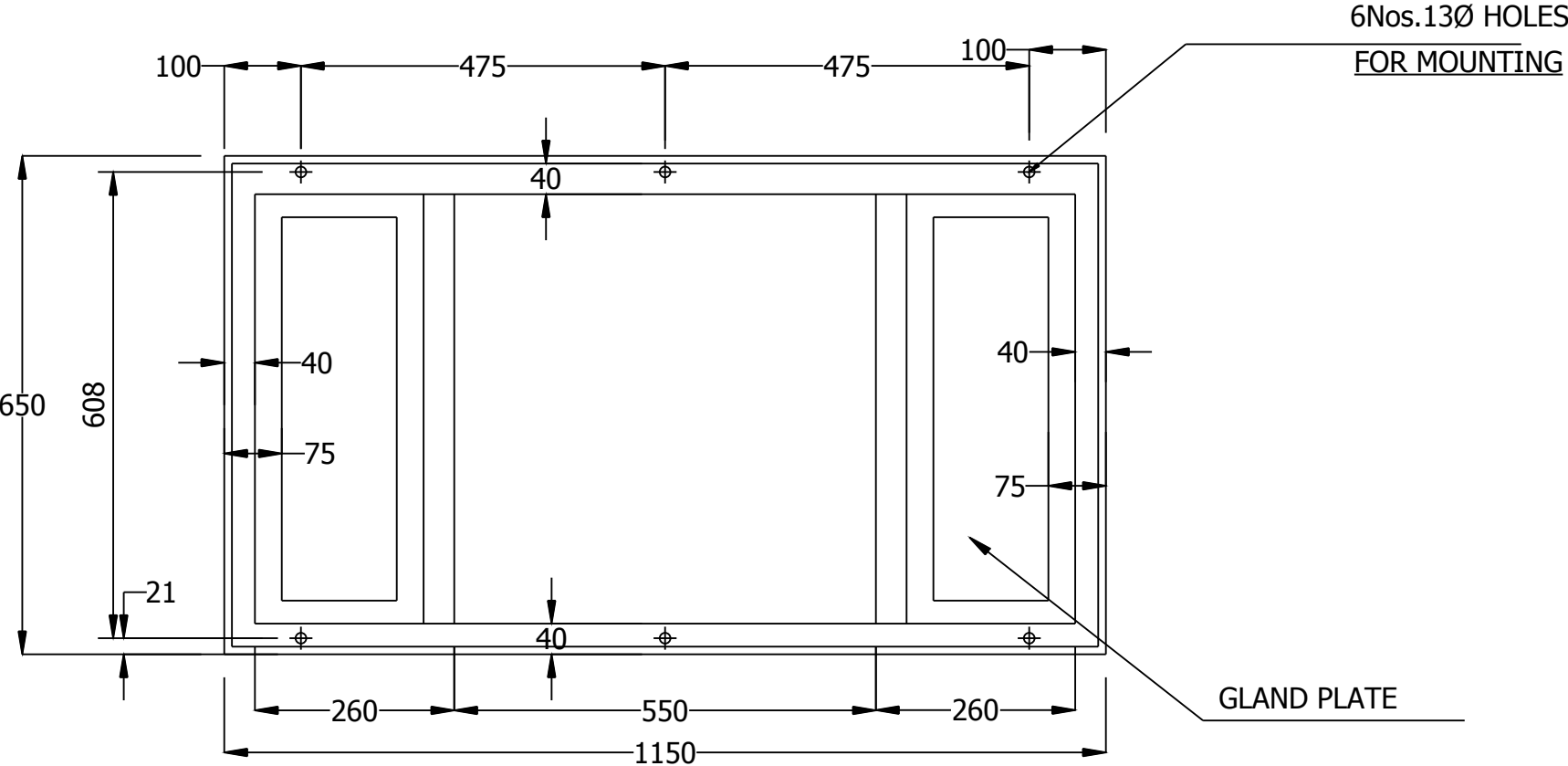


SIDE VIEW



				Date	31/12/2012	Client : JSW-BELLARY	Application : SEMI PORTAL CRANE		GENERAL ARRANGEMENT	DRWG No : 1301146	= LHOC		
				Ed.	ASHOK.C						+ A		
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Modification	Date	Name	Appr			Replacement of	Replaced by					Page	105

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.

			Date	31/12/2012	Client : JSW-BELLARY Application : SEMI PORTAL CRANE		GENERAL ARRANGEMENT	DRWG No : 1301146	= LHOC	
			Ed.	ASHOK.C					+ A	
REVISION-0		ASHOK.C	Chk by	AKR						Page 90
Modification	Date	Name	Appr		Replacement of	Replaced by				Page 105

### 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



### Project name

**SMS - 1**

## Plant Designation

ARMCHAIR LEFT CONSOLE

## Classification

## PLC CONNECTION

### Control voltage

## 110V AC SUPPLY

**Job number**

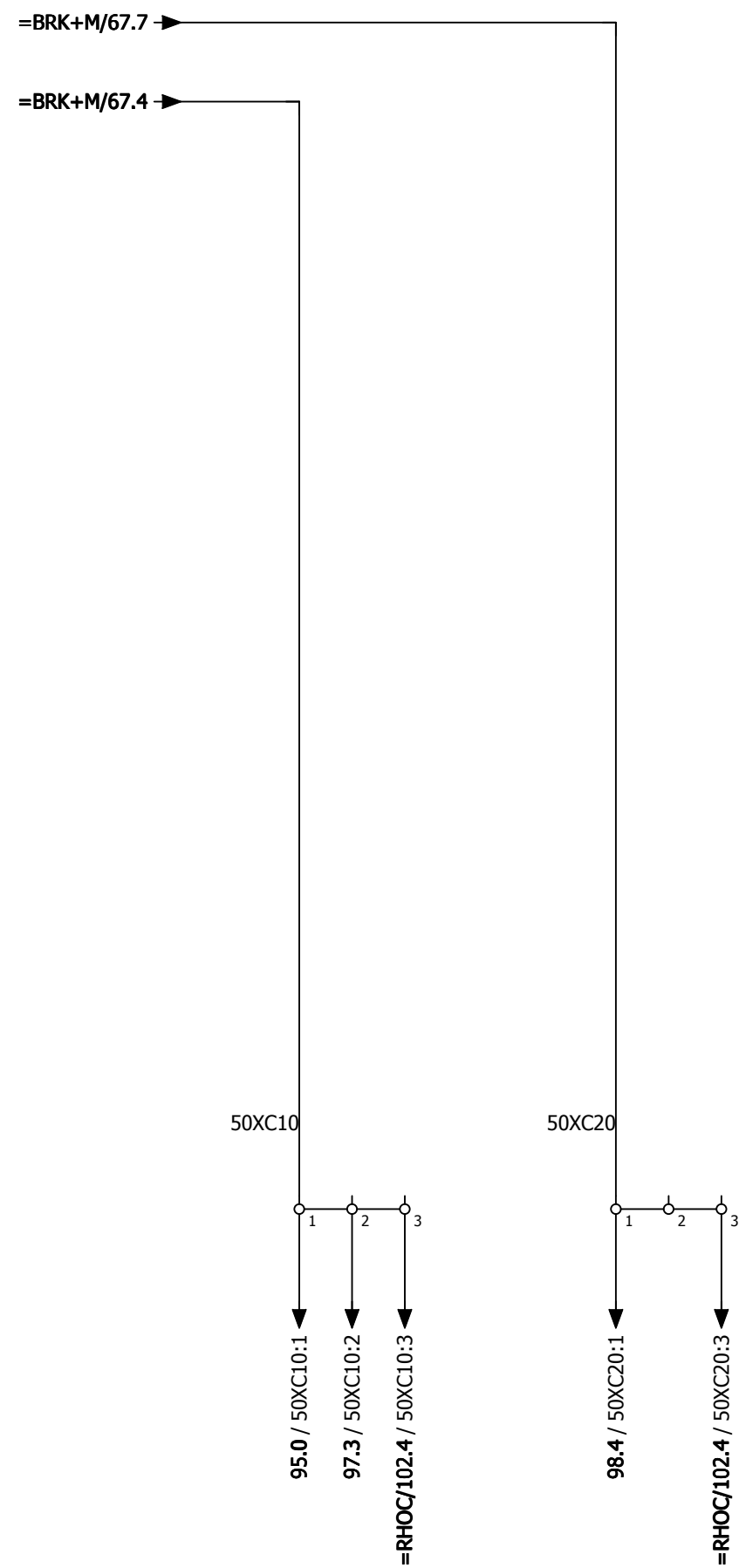
**1301146**

## Application

SEMI PORTAL CRANE

### Remarks

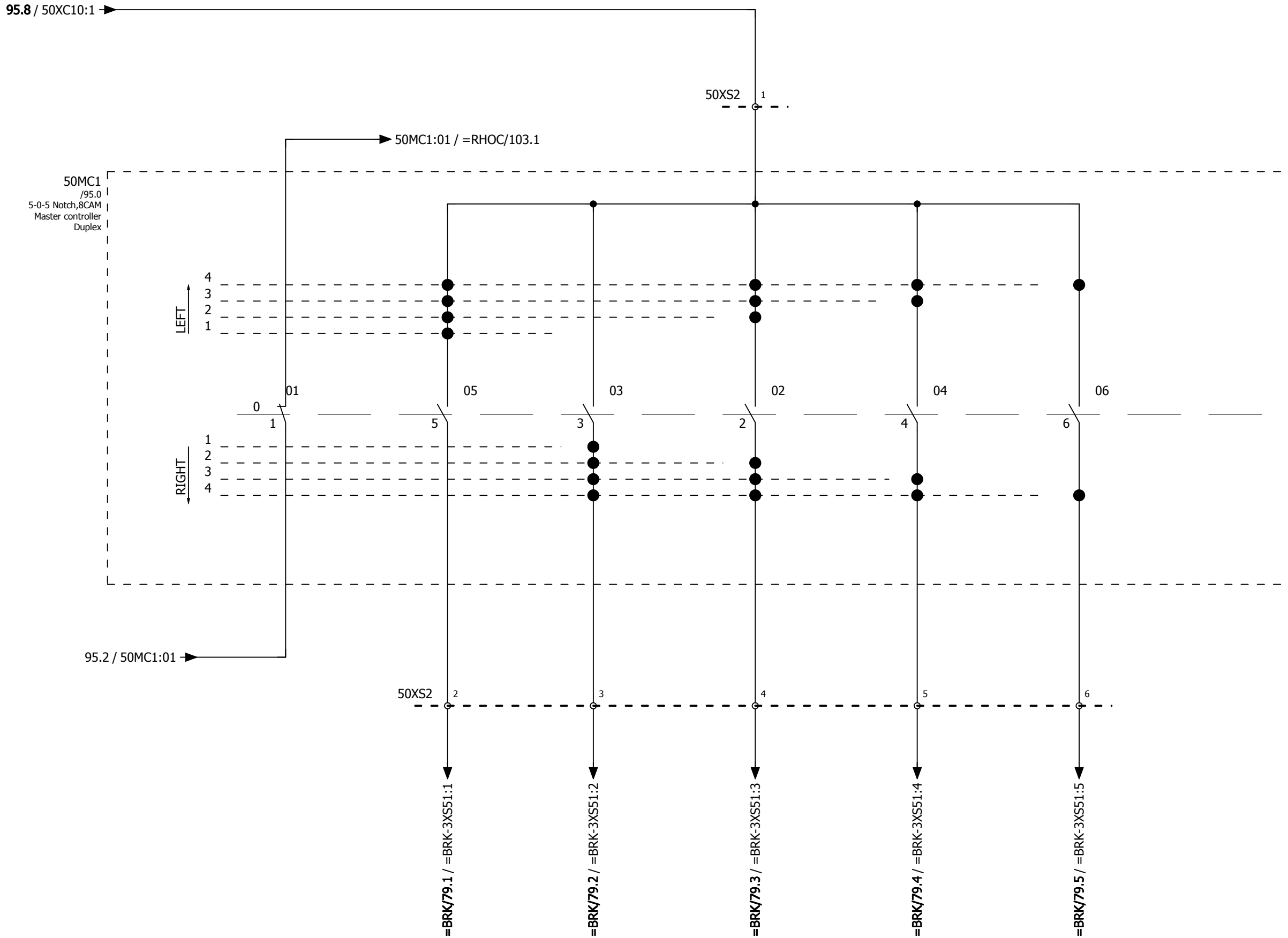
## 110V AC SUPPLY DISTRIBUTION



			Date	31/12/2012	Client : JSW-BELLARY			110V AC SUPPLY DISTRIBUTION	DRWG No : 1301146		= LHOC	
			Ed.	ASHOK.C							+ S	
REVISION-0		ASHOK.C	Chk by	AKR					Application : SEMI PORTAL CRANE			
Modification	Date	Name	Appr		Replacement of	Replaced by	CONTROL PROJECTS (P) LTD				Page	105



MASTER CONTROLLER FOR LT



LT FORWARD

LT REVERSE

LT -I I NOTCH

LT III NOTCH

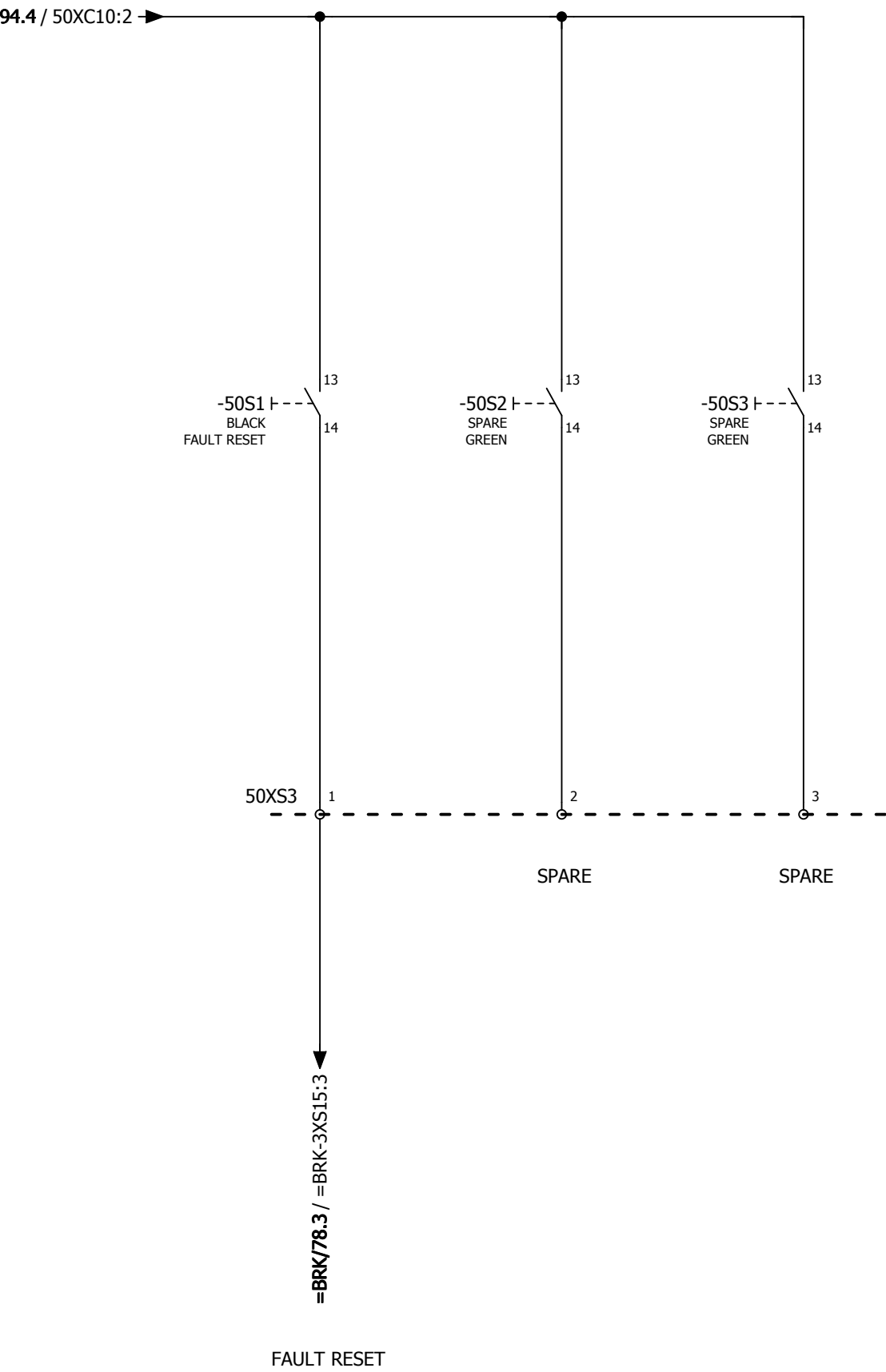
LT IV NOTCH

Previous page

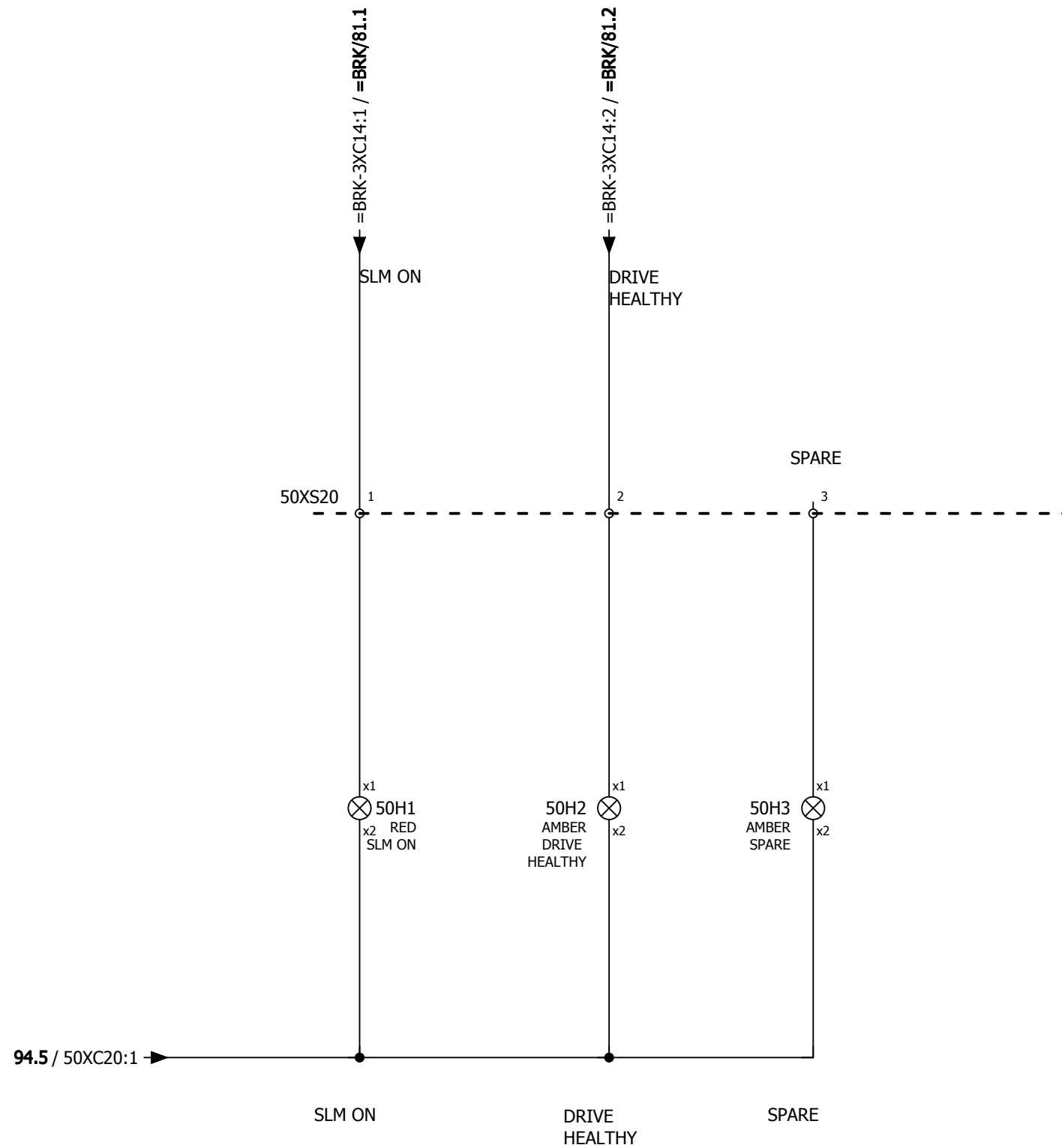
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PUSH BUTTONS



## INDICATION LAMPS



			Date	31/12/2012	Client : JSW-BELLARY		INDICATION LAMP	= LHOC		
			Ed.	ASHOK.C				DRWG No : 1301146	+ S	
REVISION-0		ASHOK.C	Chk by	AKR				Application : SEMI PORTAL CRANE		Page 98
Modification	Date	Name	Appr		Replacement of	Replaced by		Page 105		

Project name	SMS - 1
Plant Designation	ARMCHAIR RIGHT CONSOLE
Classification	PART LIST
Control voltage	110V AC SUPPLY

Job number	1301146
Application	SEMI PORTAL CRANE
Remarks	

Parts list

Device Designation Schematic / position	Quantity	DESCRIPTION	PART NUMBER	MANUFACTURER	FUNCTION TEXT
+S-51ES1 +S/98.8	1	PB/GREEN	3SB50 00-0AE01	SIEMENS	CRANE ON GREEN PB
+S-51ES1 +S/98.8	1	NO ELEMENT	3SB54 00-0B	SIEMENS	=
+S-51H1 +S/99.4	1	LAMP/RED	3SB52 85-6HC02	SIEMENS	RED CRANE ON
+S-51H2 +S/99.5	1	LAMP/GREEN	3SB52 85-6HE02	SIEMENS	GREEN CRANE OFF
+S-51H3 +S/99.6	1	LAMP/GREEN	3SB52 85-6HE02	SIEMENS	SPARE
+S-51H4 +S/99.7	1	LAMP/RED	3SB52 85-6HC02	SIEMENS	=
+S-51MC1 +S/97.0	1	5-0-5 Notch,8CAM,SIMPLEX,JOYSTICK	V31	GESMANN	Master controller SIMPLEX
+S-51PB1 +S/98.2	1	PB/RED	3SB50 00-0AC01	SIEMENS	CRANE OFF RED PB
+S-51PB1 +S/98.2	1	NC ELEMENT	3SB54 00-0C	SIEMENS	=
+S-51PB2 +S/98.9	1	MPB/RED	3SB52 03-0UC01	SIEMENS	E-STOP RED MPB
+S-51PB3 +S/98.3	1	PB/BLUE	3SB50 00-0AF01	SIEMENS	TONG OPEN BLUE PB
+S-51PB3 +S/98.3	1	NO ELEMENT	3SB54 00-0B	SIEMENS	=
+S-51PB4 +S/98.4	1	PB/YELLOW	3SB50 00-0AD01	SIEMENS	TONG CLOSE YELLOW PB
+S-51PB4 +S/98.4	1	NO ELEMENT	3SB54 00-0B	SIEMENS	=
+S-51PB5 +S/98.5	1	PB/BLUE	3SB50 00-0AF01	SIEMENS	TONG OPEN BLUE PB
+S-51PB5 +S/98.5	1	NO ELEMENT	3SB54 00-0B	SIEMENS	=
+S-51PB6 +S/98.6	1	PB/YELLOW	3SB50 00-0AD01	SIEMENS	TONG CLOSE YELLOW PB
+S-51PB6 +S/98.6	1	NO ELEMENT	3SB54 00-0B	SIEMENS	=

### Project name

**SMS - 1**

## Plant Designation

## ARMCHAIR RIGHT CONSOLE

## Classification

## PLC CONNECTION

### Control voltage

## 110V AC SUPPLY

**Job number**

**1301146**

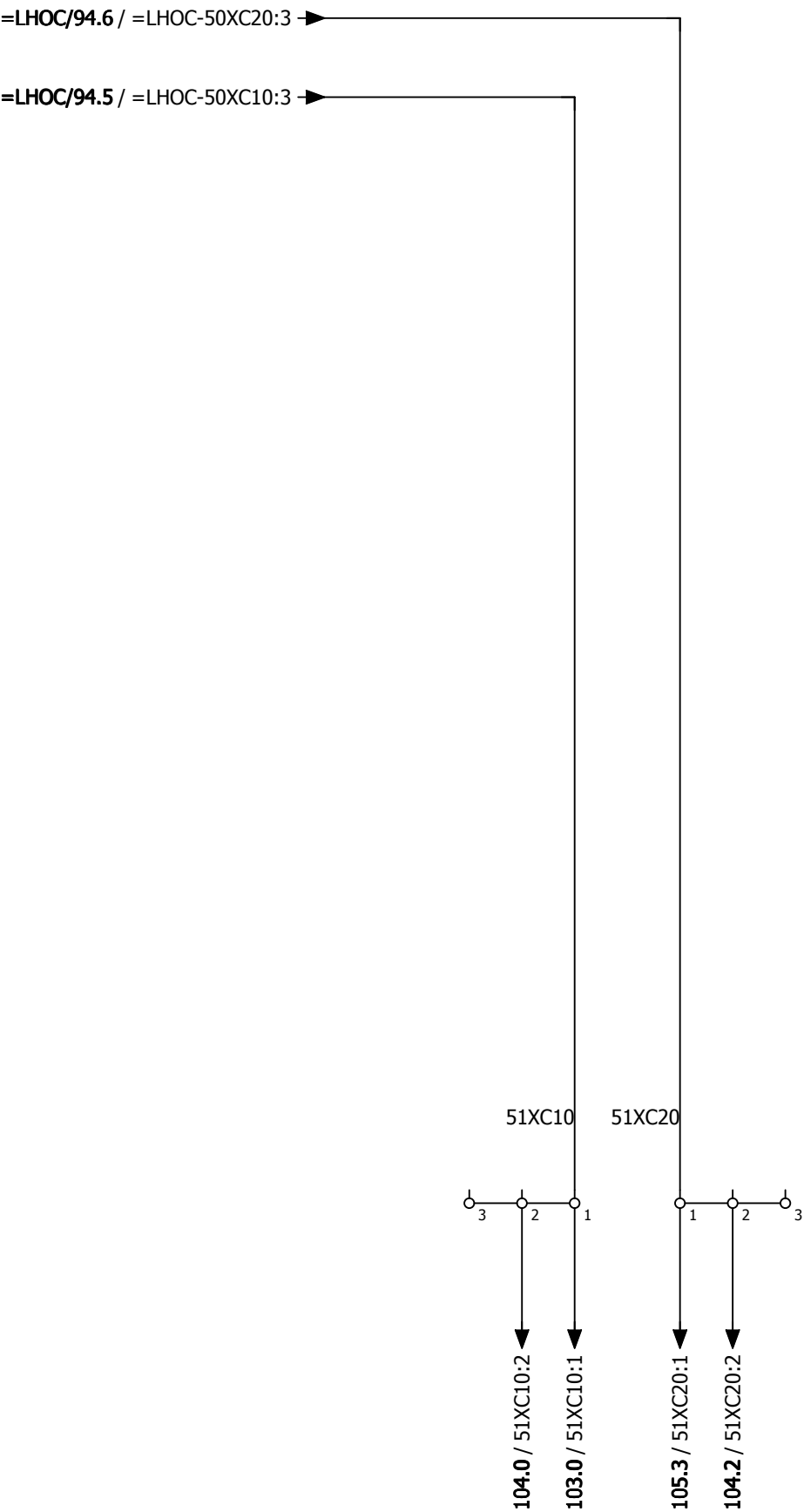
## Application

SEMI PORTAL CRANE

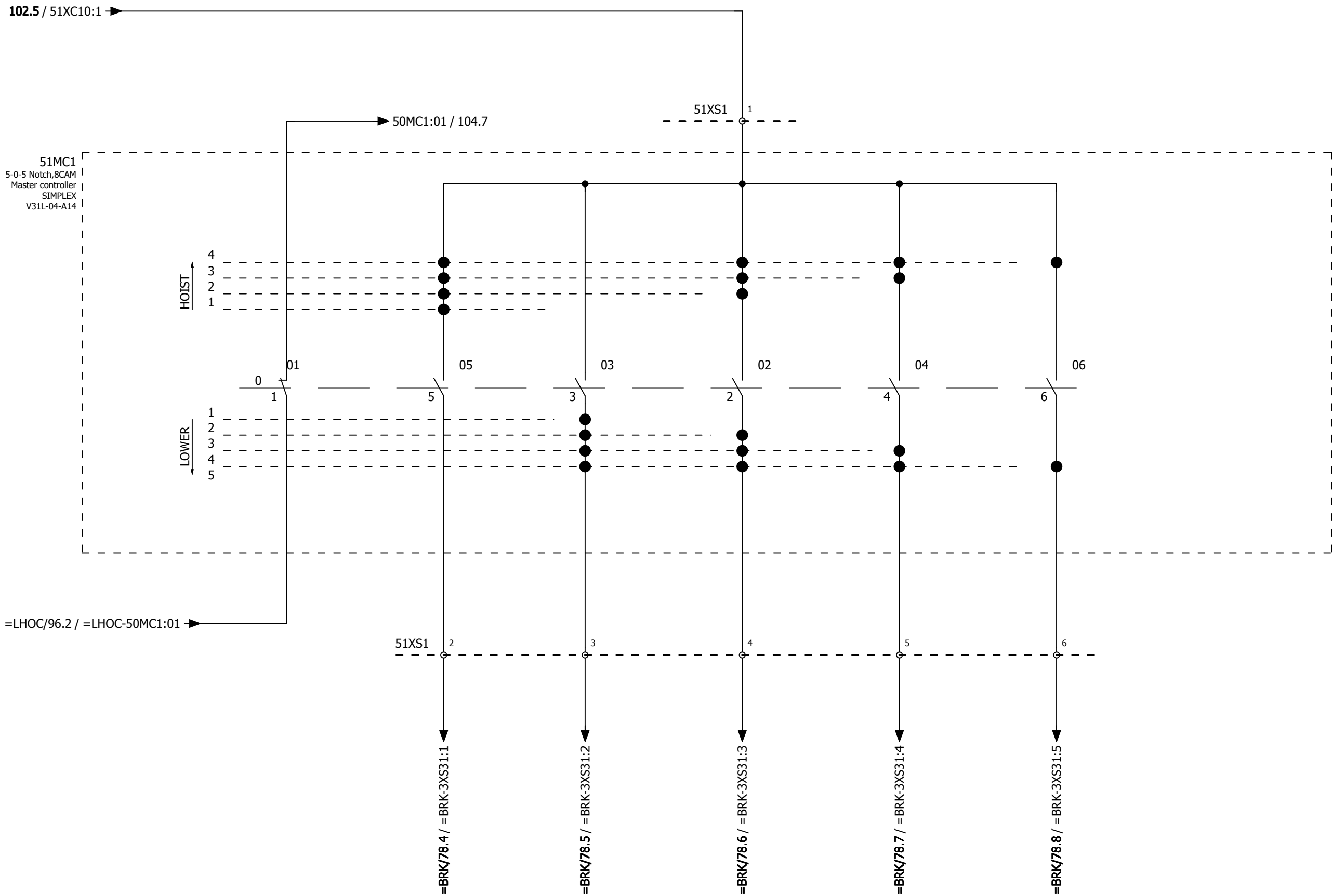
### Remarks

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			Ed.	ASHOK.C						+ S
REVISION-0		ASHOK.C	Chk by	AKR						
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110V AC SUPPLY DISTRIBUTION

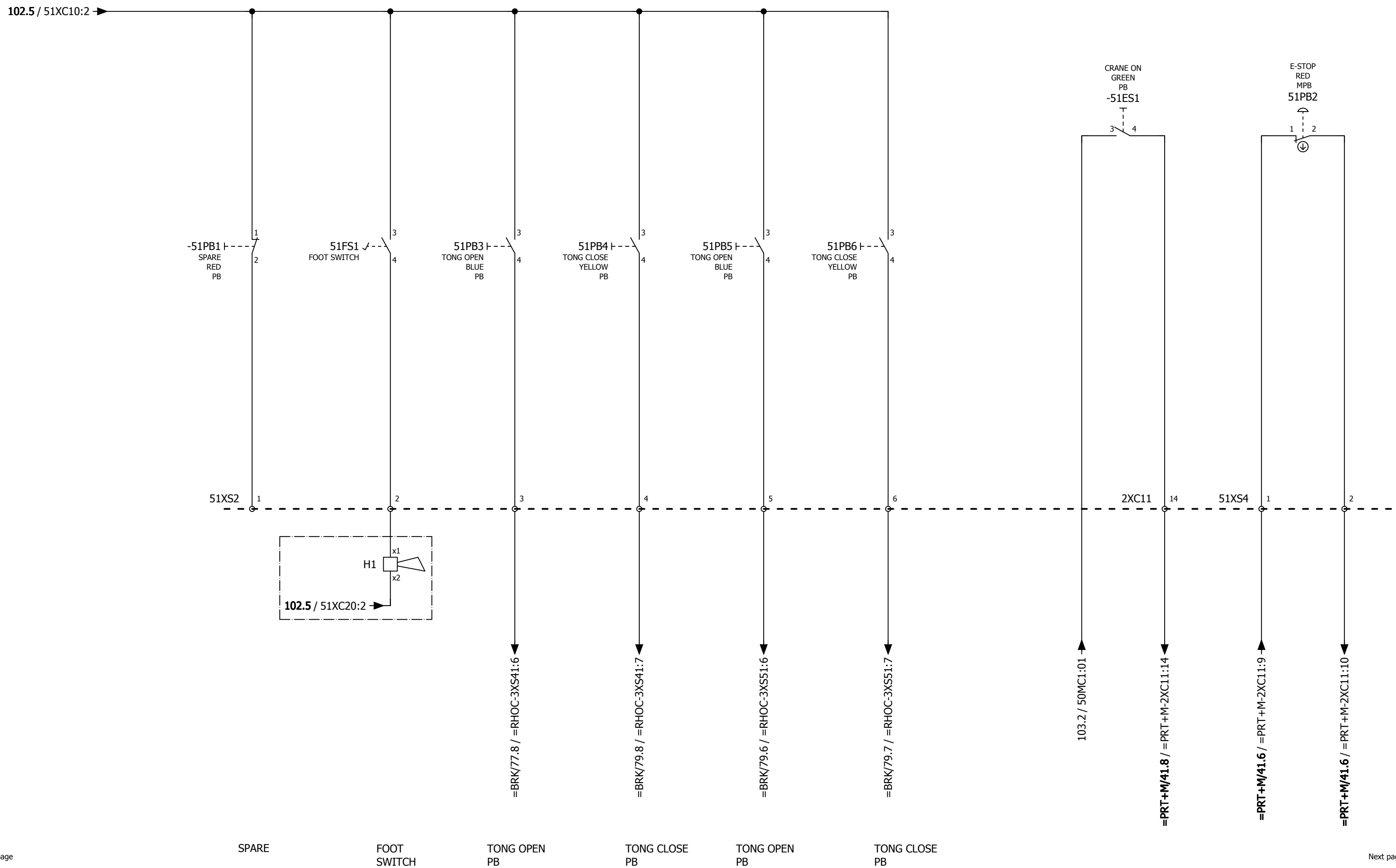


MASTER CONTROLLER FOR MH



			Date	31/12/2012	Client : JSW-BELLARY			MASTER CONTROLLER FOR MH	DRWG No : 1301146		= RHOC	
			Ed.	ASHOK.C							+ S	
REVISION-0		ASHOK.C	Chk by	AKR	Application : SEMI PORTAL CRANE						Page	103
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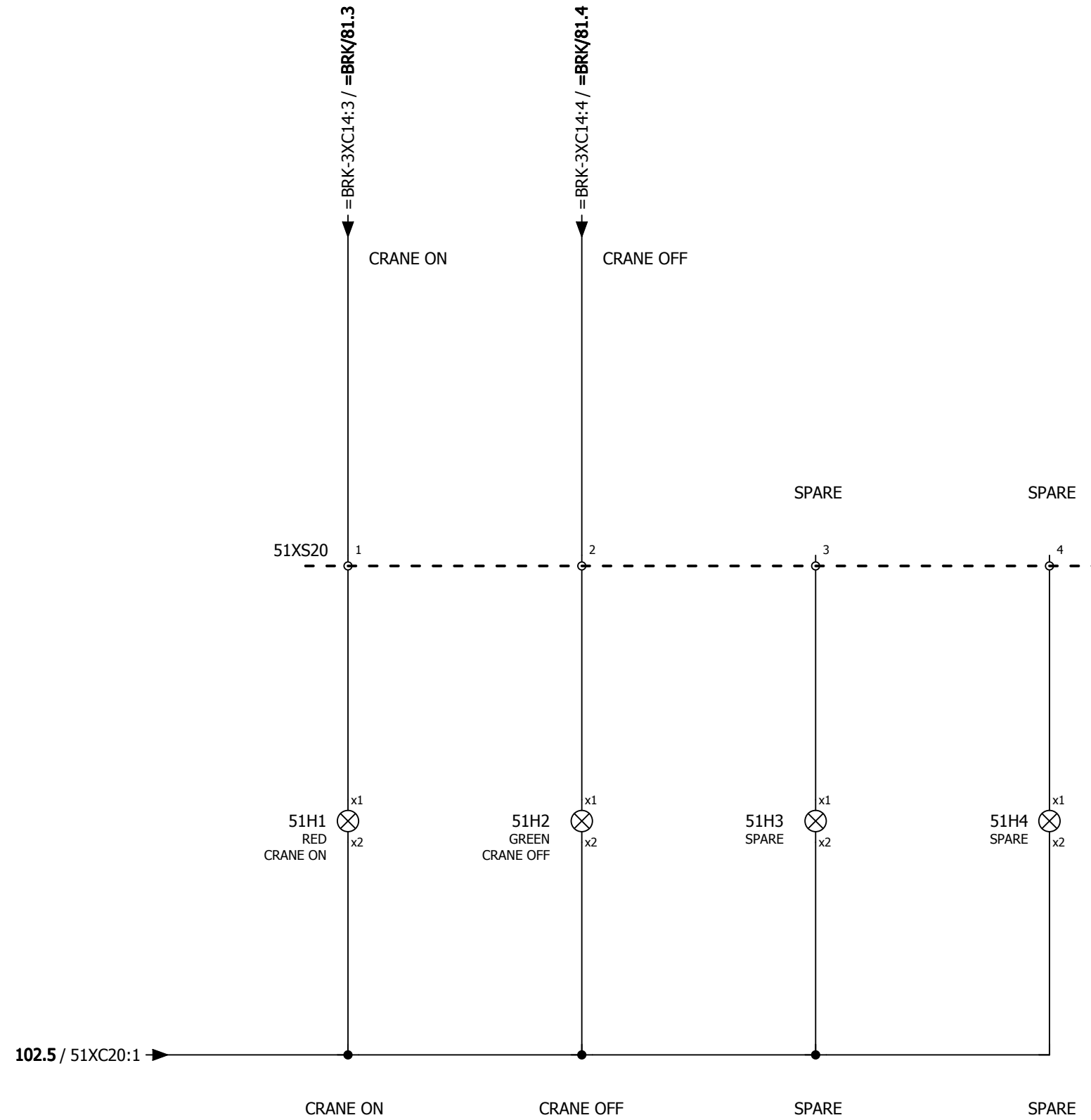
## PUSH BUTTONS



			Date	31/12/2012	Client : JSW-BELLARY		PUSH BUTTONS	DRWG No : 1301146		= RHOC	
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REVISION-0		ASHOK.C	Chk by	AKR				Application : SEMI PORTAL CRANE			Page 104
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## INDICATION LAMPS



			Date	31/12/2012	Client : JSW-BELLARY		INDICATION LAMP	DRWG No : 1301146		= RHOC	
			Ed.	ASHOK.C						+ S	
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