

REV	DESCRIPTION	SHEET NO.	INITIAL	DATE
00	New Release	1-18	KANG F	30 DEC 2013
01	Drawing Update, Refer To Revision Table For Details	1-18	POH YT	26 SEP 2014
02	TUV Audit update	1-18	POH YT	14 APR 2015
03	Add Time Relay	1-18	PG FOONG	1 OCT 2015
04	V510i naming	1-18	POH YT	14 OCT 2016

REVISION TABLE

REVISION	DATE	SHEET	NAME	CHANGE DETAIL
00	30-12-2013	--	--	FIRST REVISION FOR 3D AOI SYSTEM
01	26-09-2014	1	CONTROL PANEL - MAIN POWER 220/110V	CORRECTION OF MCB CURRENT RATING
		8	CONTROL PANEL - GANTRY X-AXIS SERVO MOTOR DRIVE	CORRECTION OF X-AXIS MOTOR PHASE WIRE COLOUR
		9	CONTROL PANEL - GANTRY Y-AXIS SERVO MOTOR DRIVE	CORRECTION OF Y-AXIS MOTOR PHASE WIRE COLOUR
		10	CONTROL PANEL - GANTRY DC BUS POWER	UPDATE BLACK WIRE FROM MERIDIAN DRIVE X AXIS TO MERIDIAN DRIVE Y AXIS
		11	CONTROL PANEL - GANTRY AC INPUT POWER	CORRECTION OF PIN LABEL TO XA+
		16	CONTROL PANEL LAYOUT (LEFT)	ADD 48VDC POWER SUPPLY
		17	PSP MODULE CONNECTION	UPDATE PSP TO PSP TWISTED WIRE PAIRS (RS485)

V510i OPTIMUS 3D ELECTRICAL DRAWING

DRAWING STATUS:RELEASED

NOTE:	DESCRIPTION: V510i Optimus 3D Control Panel Electrical Diagram	GENERAL TOLERANCE (UNLESS OTHERWISE SPECIFIED) X ± 1.00 X.X ± 0.50 X.XX ± 0.10 X.XXX ± 0.05 X° ± 1° X.X° ± 0.5° UNIT IN MM	NAME	V510i OPTIMUS 3D ELECTRICAL DRAWING			REV:	05
			PART ID	4SJCP-A005	DWG NO.	4SJCP-A005	SCALE:	NTS
			-	INITIAL	SIGN	DATE		
			DRAWN BY	KANG F				
			CHECKED BY	OOI SW				
			APPROVED BY	OOI SW			SHEET	

REV	DESCRIPTION	SHEET NO.	INITIAL	DATE
00	New Release	1-18	KANG F	30 DEC 2013
01	Drawing Update, Refer To Revision Table For Details	1-18	POH YT	26 SEP 2014
02	TUV Audit update	1-17	POH YT	14 APR 2015
03	Add Time Relay	1-17	PG FOONG	1 OCT 2015
04	V510i naming	1-17	POH YT	14 OCT 2016
05	SMEMA Wire 436	13	POH YT	2 AUG 2017

REVISION	DATE	SHEET	NAME	CHANGE DETAIL
02	14-4-2015	1	CONTROL PANEL - MAIN POWER 220/110V	MAIN FILTER Z1 WIRE AWG, CURRENT RATING
		2	CONTROL PANEL - Stepper Motor Drives	ADD RELAY KAS
		6,7	CONTROL PANEL - GANTRY X- AXIS SERVO MOTOR DRIVE	COMBINED ALL SAFETY RELAY CONTACTS CIRCUIT IN A SHEET, ADD RELAY KAS AND CONNECT 3 EMERGENCY STOPIN SERIES WITH MAINTENANCE SWITCH
		11	CONTROL PANEL - GANTRY AC INPUT POWER	TEKNIC INCOMING WIRE AWG
		15	CONTROL PANEL LAYOUT (CENTER)	ADD RELAY KAS
03	1-10-2015	1	CONTROL PANEL - MAIN POWER 220/110V	ADD TIMING RELAY (KAT)
04	14-10-2016	-	-	CHANGING MACHINE SERIES NAME V510 TO V510i

DRAWING STATUS:RELEASED

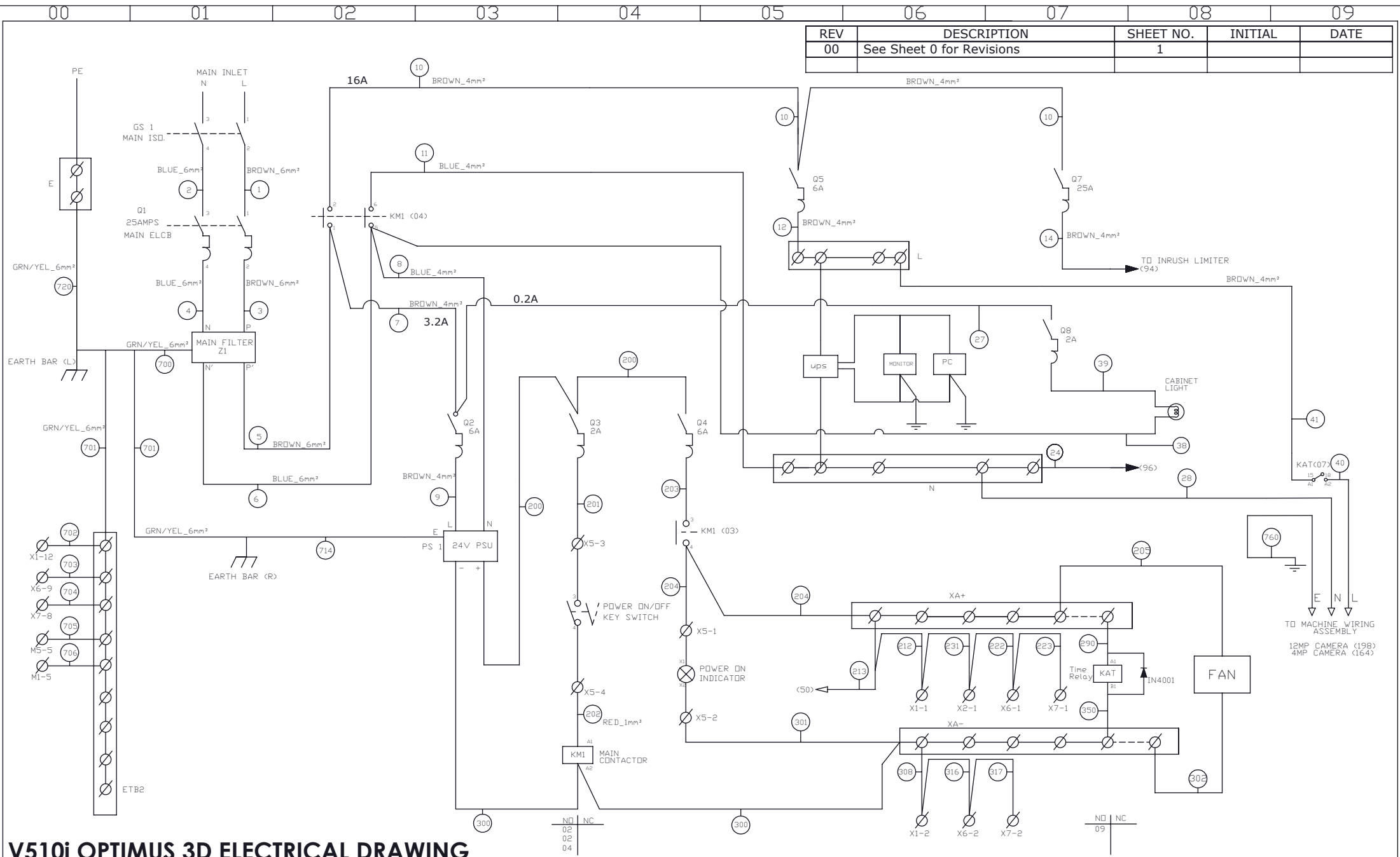
REVISION TABLE

REV	DESCRIPTION	SHEET NO.	INITIAL	DATE
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01	Drawing Update, Refer To Revision Table For Details	1-18	POH YT	26 SEP 2014
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03	Add Time Relay	1-17	PG FOONG	1 OCT 2015
04	V510i naming	1-17	POH YT	14 OCT 2016
05	SMEMA Wire 436	13	POH YT	2 AUG 2017

REVISION	DATE	SHEET	NAME	CHANGE DETAIL
05	2-8-2017	13	CONTROL PANEL - SMEMA Interface	Separate out Wire 436 into 436 and 436.1

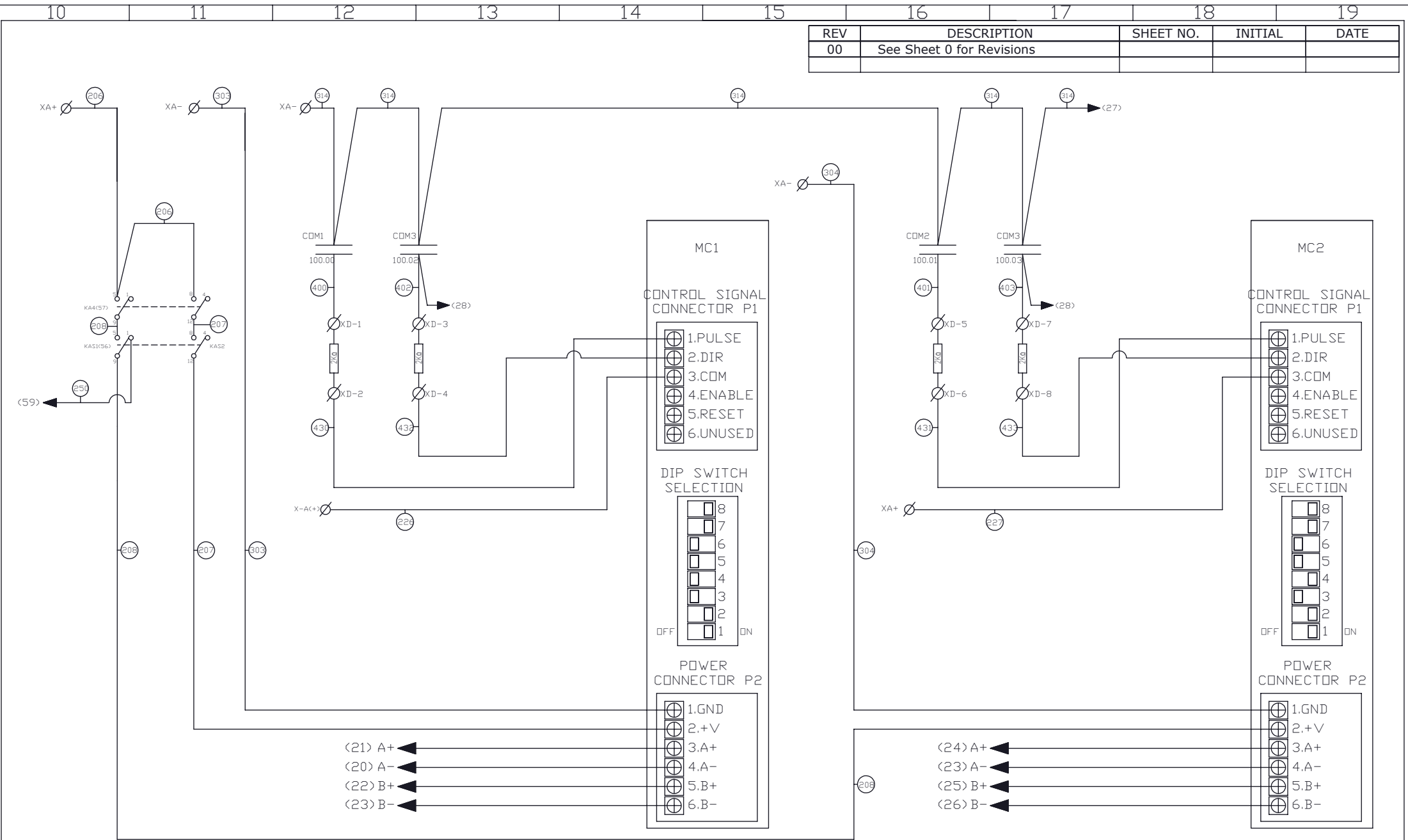
V510i OPTIMUS 3D ELECTRICAL DRAWING

NOTE:		DESCRIPTION:-	GENERAL TOLERANCE (UNLESS OTHERWISE SPECIFIED) X ± 1.00 X.X ± 0.50 X.XX ± 0.10 X.XXX ± 0.05 X° ± 1° X.X° ± 0.5° UNIT IN MM	DRAWING STATUS:RELEASED			
				NAME		V510i OPTIMUS 3D ELECTRICAL DRAWING	
				PART ID		DWG NO.	REV: 05
				-		SIGN	SCALE: NTS
				DRAWN BY		DATE	
				CHECKED BY			
				APPROVED BY			SHEET



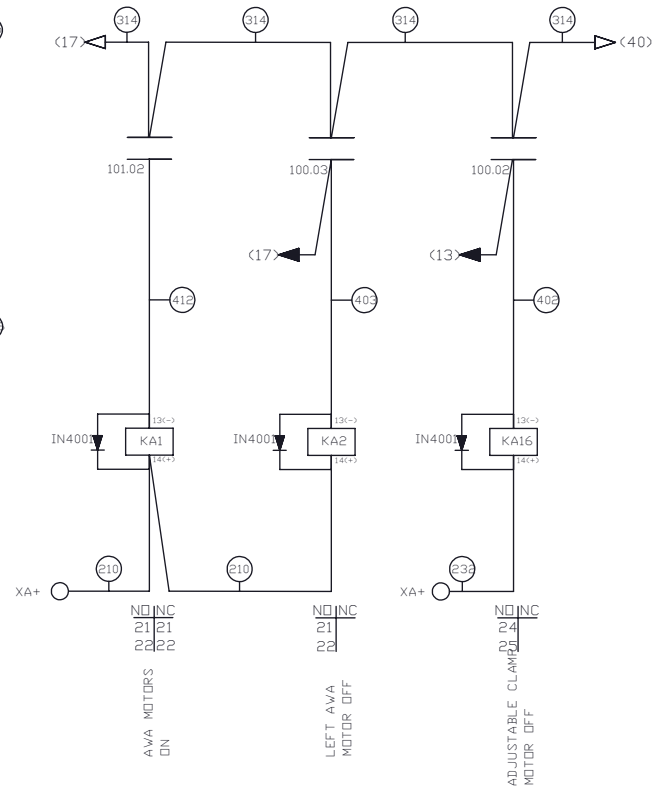
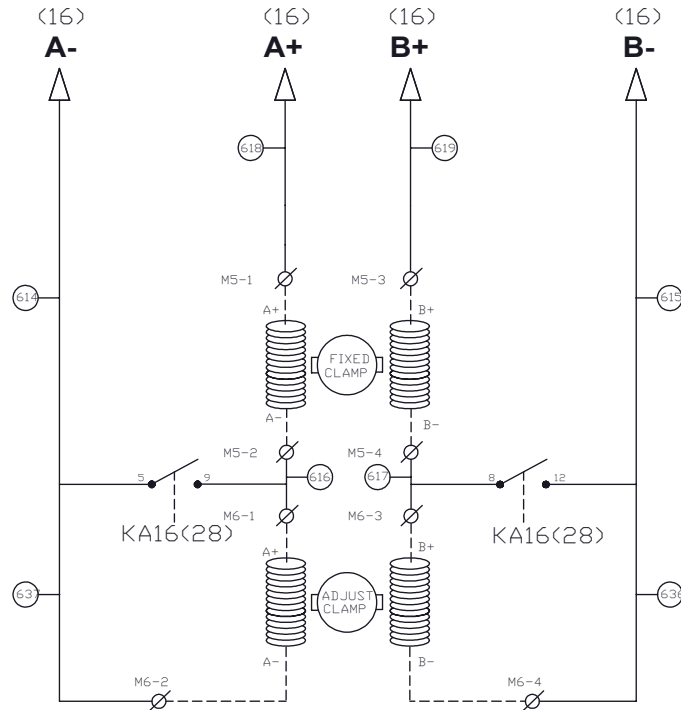
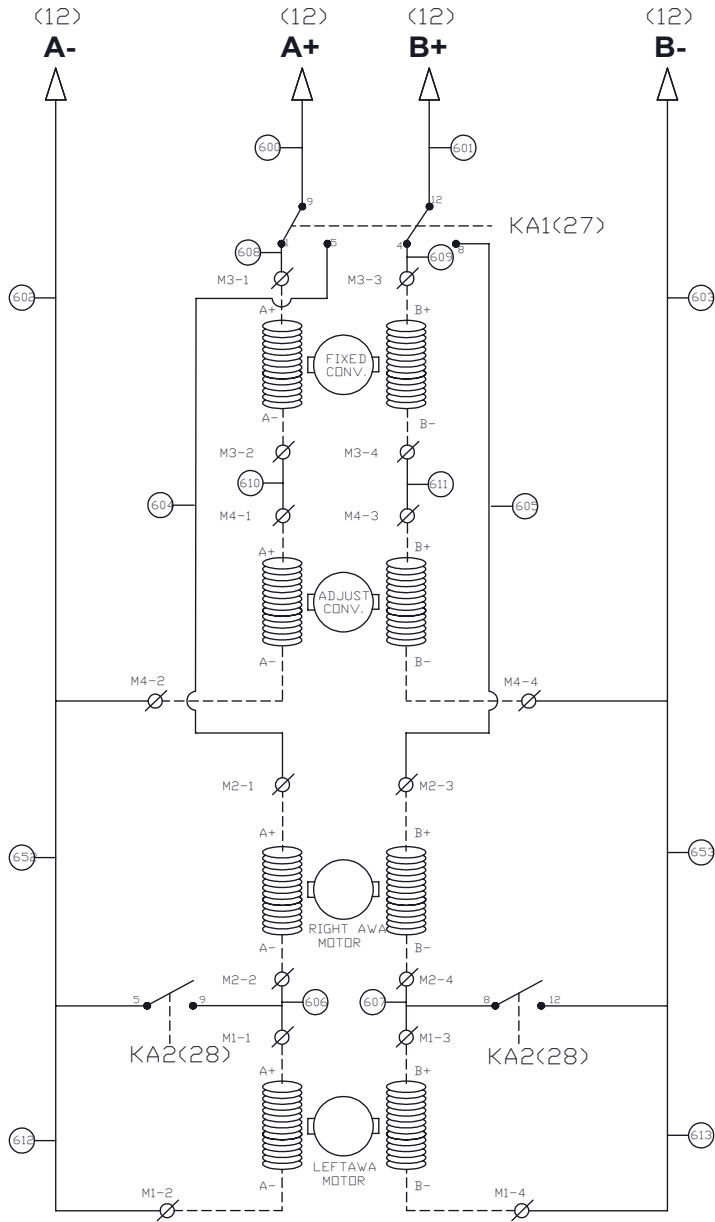
V510i OPTIMUS 3D ELECTRICAL DRAWING

DRAWING STATUS:RELEASED		REV: 05	
NOTE:		SCALE: NTS	
Cables labeled with 200-299 are RED_1mm²(18AWG), 300-399 are BLACK_1mm²(18AWG) and 700-799 are GRN/YEL_2.5mm²(14AWG) unless otherwise stated.			
Information(Conductor Area CSA= Conductor Size AWG):			
1mm² =18AWG;2.5mm²=14AWG;4mm²=12AWG;6mm²=10AWG			
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DESCRIPTION:-			
GENERAL TOLERANCE (UNLESS OTHERWISE SPECIFIED)			
X ± 1.00			
X.X ± 0.50			
X.XX ± 0.10			
X.XXX ± 0.05			
X° ± 1°			
X.X° ± 0.5°			
UNIT IN MM			
NAME		CONTROL PANEL - MAIN POWER 220/110V	
PART ID		DWG NO.	
-		SIGN	
DRAWN BY		DATE	
RIDZUAN			
CHECKED BY			
POH YT			
APPROVED BY			
LEE SW			
SHEET		1 OF 16	



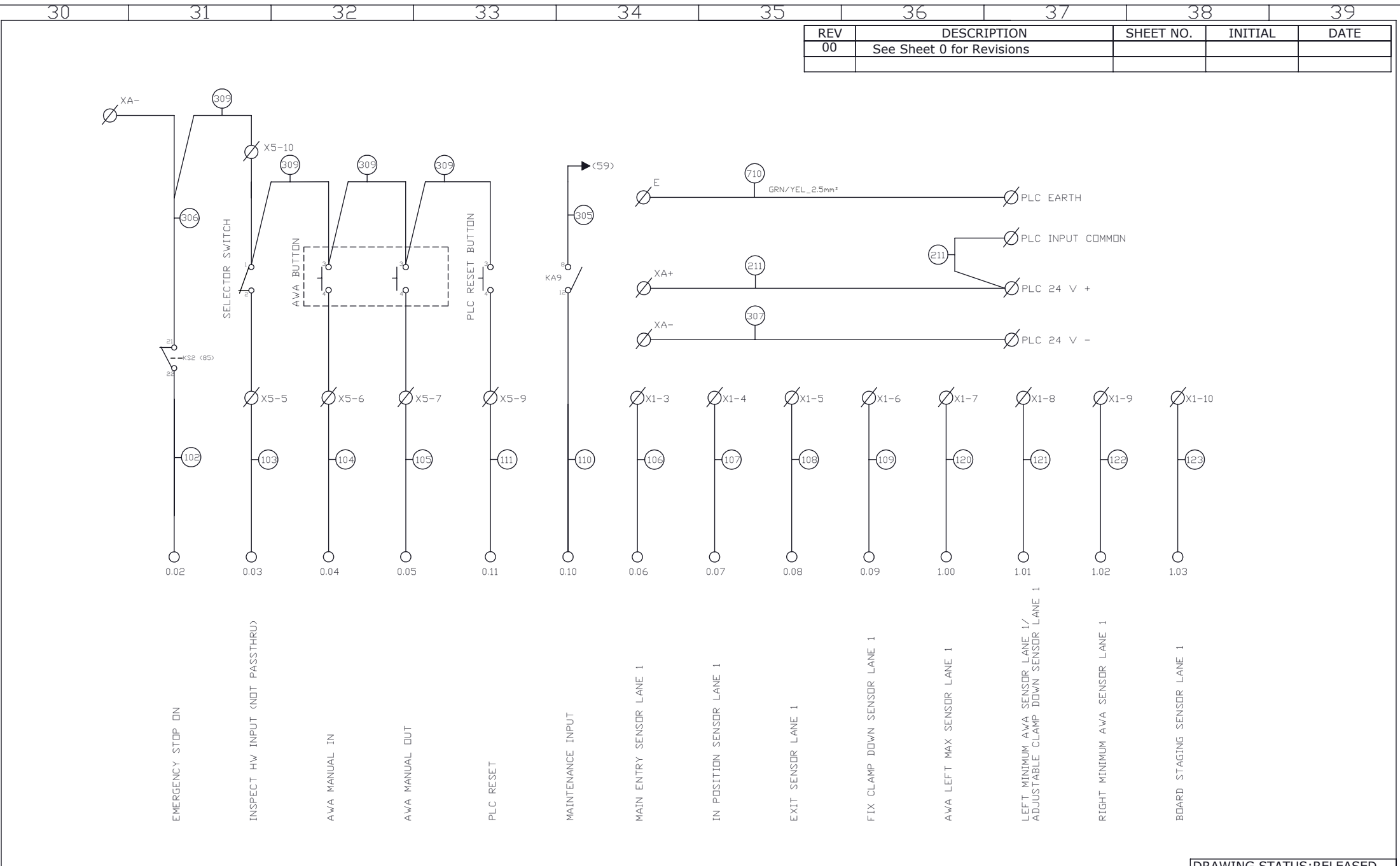
NOTE: Cables labeled with 200-299 are RED_1mm ² (18AWG), 300-399 are BLACK_1mm ² (18AWG), 400-429 are GRAY_0.25mm ² (24AWG) AND 430-499 are YELLOW_1mm ² (18AWG) unless otherwise stated. Information(Conductor Area CSA= Conductor Size AWG): 0.25mm ² =24AWG;1mm ² =18AWG		DESCRIPTION:-		GENERAL TOLERANCE (UNLESS OTHERWISE SPECIFIED)		NAME		CONTROL PANEL - STEPPER MOTOR DRIVER		DRAWING STATUS:RELEASED	
				X ± 1.00 X.X ± 0.50 X.XX ± 0.10 X.XXX ± 0.05 X° ± 1° X.X° ± 0.5° UNIT IN MM		PART ID		DWG NO.		REV: 05	
						INITIAL		SIGN		SCALE: NTS	
						DATE					
						DRAWN BY		RIDZUAN			
						CHECKED BY		POH YT			
						APPROVED BY		LEE SW			
										SHEET 2 OF 16	

REV	DESCRIPTION	SHEET NO.	INITIAL	DATE
00	See Sheet 0 for Revisions			



DRAWING STATUS:RELEASED

NOTE: Cables labeled with 200-299 are RED_1mm ² (18AWG), 300-399 are BLACK_1mm ² (18AWG), 400-429 are GRAY_0.25mm ² (24AWG) AND 430-499 are YELLOW_1mm ² (18AWG) unless otherwise stated. Information(Conductor Area CSA= Conductor Size AWG): 0.25mm ² = 24AWG;1mm ² =18AWG THIS DOCUMENT IS THE PROPERTY OF VITROX TECHNOLOGIES SDN. BHD. IT SHALL NOT BE DISCLOSED OUTSIDE OF VITROX TECHNOLOGES PREMISES WITHOUT PRIOR AUTHORIZATION	DESCRIPTION:-	GENERAL TOLERANCE (UNLESS OTHERWISE SPECIFIED) X ± 1.00 X.X ± 0.50 X.XX ± 0.10 X.XXX ± 0.05 X° ± 1° X.X° ± 0.5° UNIT IN MM	NAME	CONTROL PANEL - STEPPER MOTOR CONTROL			REV: 05
			PART ID				SCALE: NTS
			-	INITIAL	SIGN	DATE	
			DRAWN BY	RIDZUAN			
			CHECKED BY	POH YT			
			APPROVED BY	LEE SW			SHEET 3 OF 16



NOTE:
Cables labeled with 100-199 are WHITE_0.25mm²(24AWG), 200-299 are RED_1mm²(18AWG), 300-399 are BLACK_1mm²(18AWG) and 430-499 are YELLOW_1mm²(18AWG) unless otherwise stated.
Information(Conductor Area CSA= Conductor Size AWG):
0.25mm² =24AWG;1mm²=18AWG;2.5mm²=14AWG

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DESCRIPTION:-

GENERAL TOLERANCE
(UNLESS OTHERWISE
SPECIFIED)

X ± 1.00
X.X ± 0.50
X.XX ± 0.10
X.XXX ± 0.05
X° ± 1°
X.X° ± 0.5°
UNIT IN MM

NAME
PART ID
-
DRAWN BY
CHECKED BY
APPROVED BY

CONTROL PANEL - PLC INPUTS

INITIAL
RIDZUAN
POH YT
LEE SW

DWG NO.
SIGN

DATE

REV: 05

SCALE: NTS

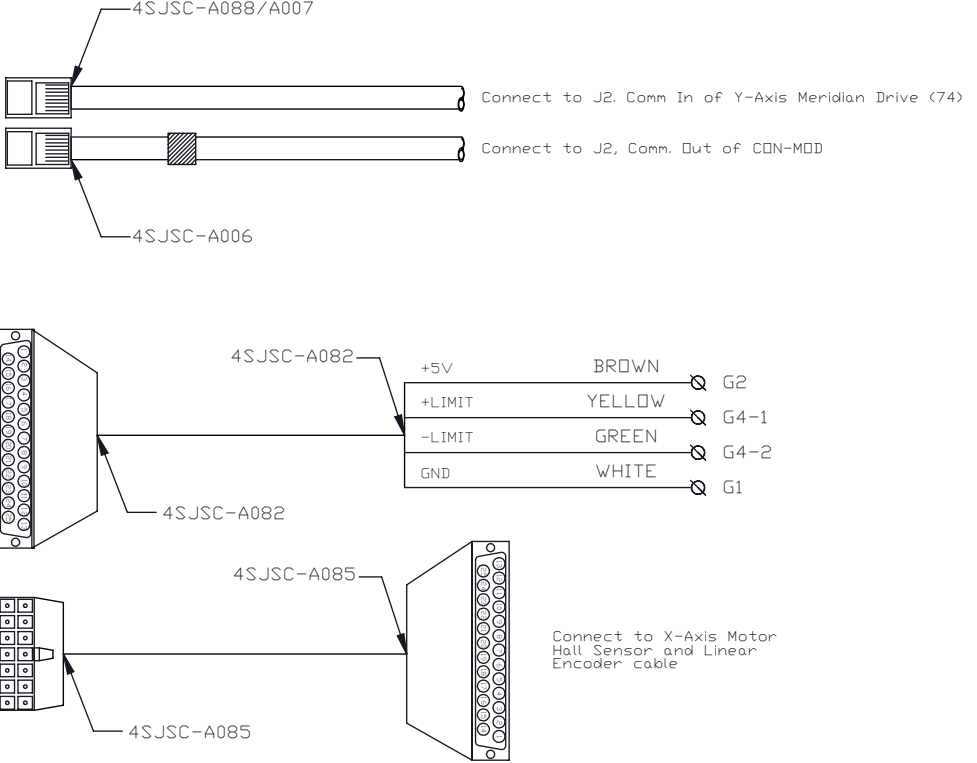
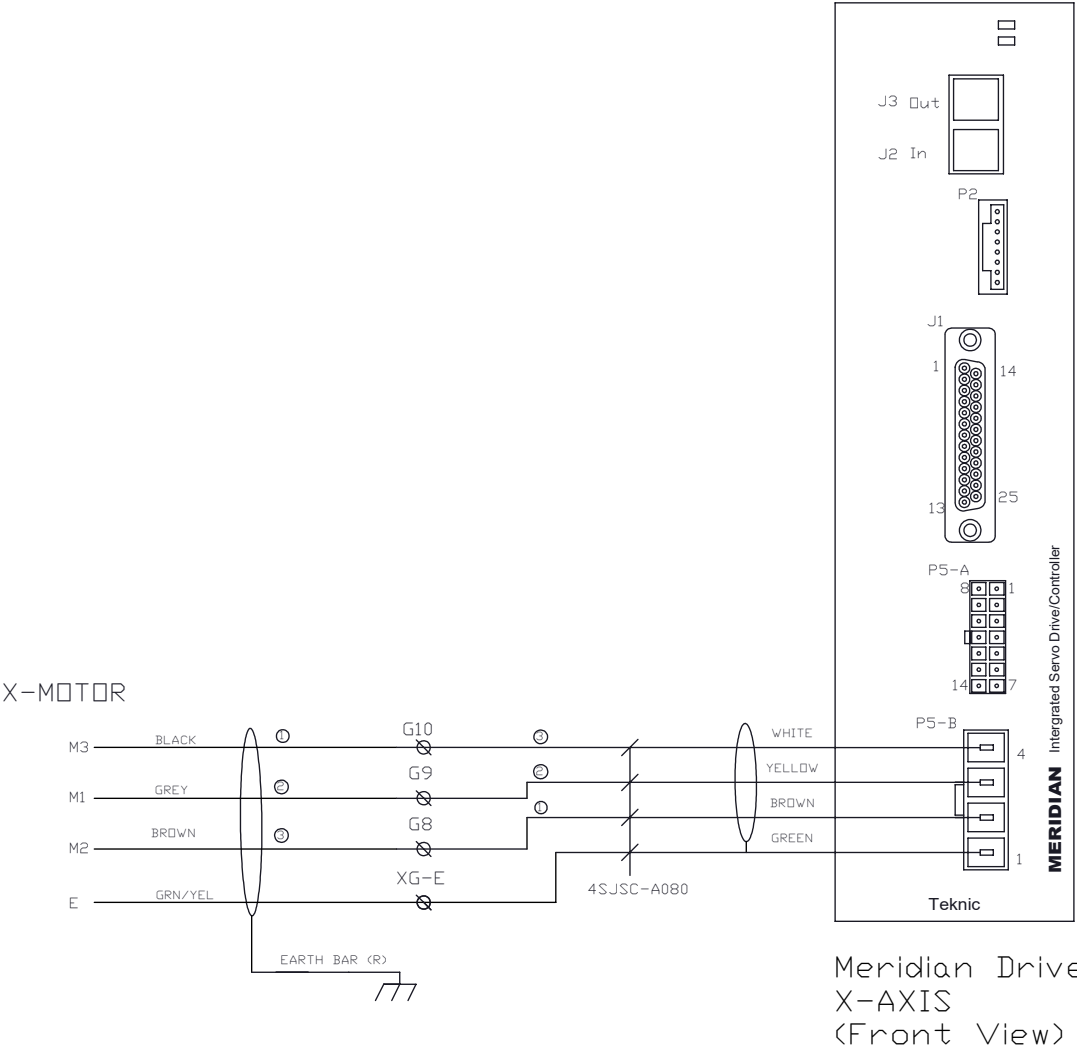
SHEET 4 OF 16

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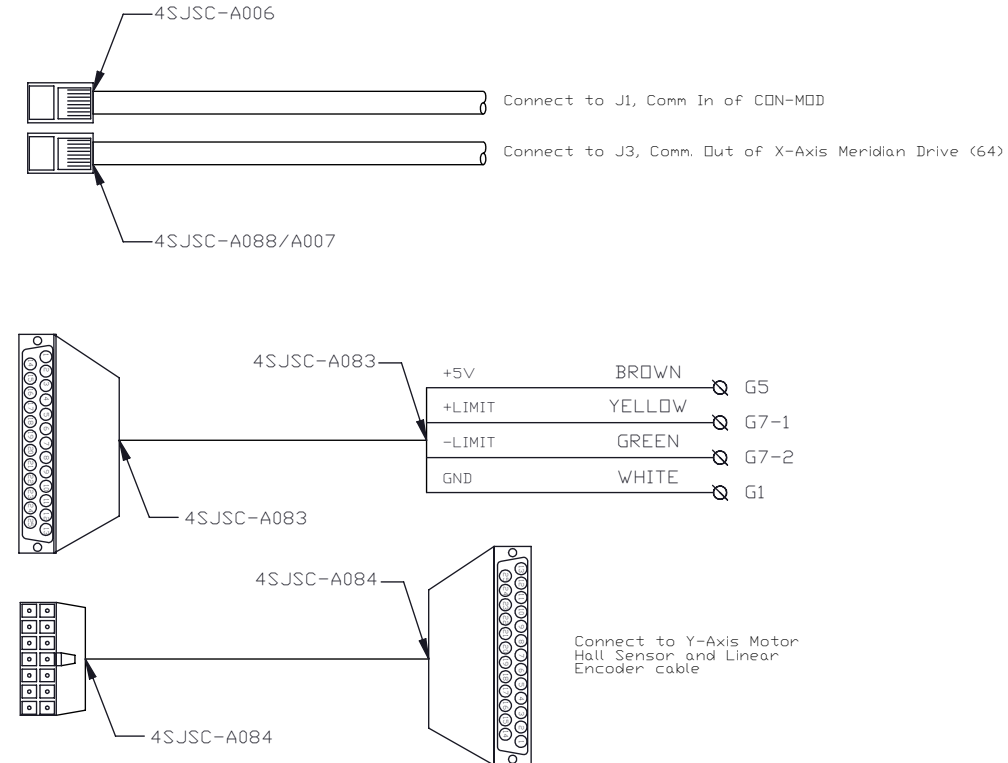
FOR AKRIBIS GANTRY ONLY

DRAWING STATUS:RELEASED

NOTE:	DESCRIPTION:-	GENERAL TOLERANCE (UNLESS OTHERWISE SPECIFIED)	NAME	CONTROL PANEL - GANTRY X-AXIS SERVO MOTOR DRIVE			REV:	05
			PART ID		DWG NO.		SCALE:	NTS
			-	INITIAL	SIGN	DATE		
			DRAWN BY	RIDZUAN				
			CHECKED BY	POH YT			SHEET	
			APPROVED BY	LEE SW				
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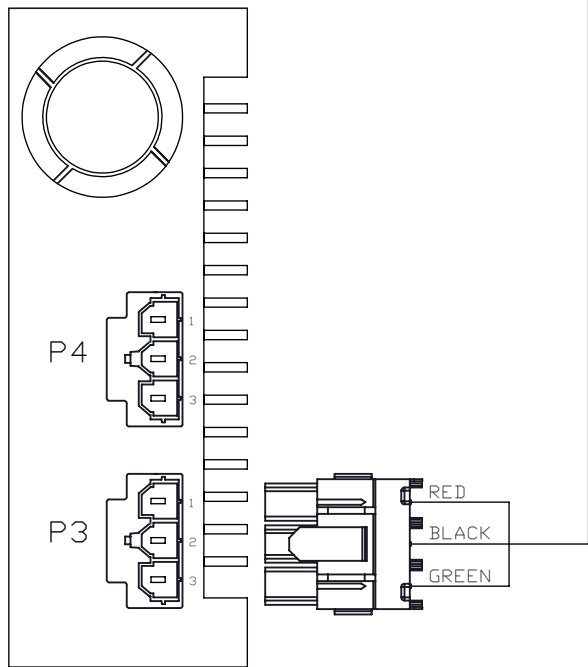
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		X ± 1.00 X.X ± 0.50 X.XX ± 0.10 X.XXX ± 0.05 X° ± 1° X.X° ± 0.5° UNIT IN MM	PART ID		DWG NO.		SCALE:	NTS
			-	INITIAL	SIGN	DATE		
			DRAWN BY	RIDZUAN				
			CHECKED BY	POH YT				
			APPROVED BY	LEE SW			SHEET	9 OF 16

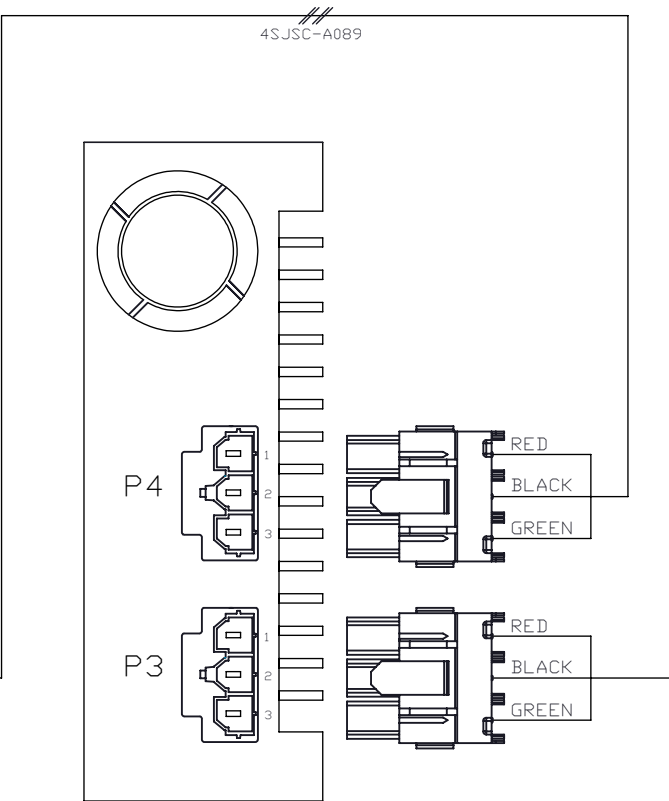


SHEET 9 OF 16

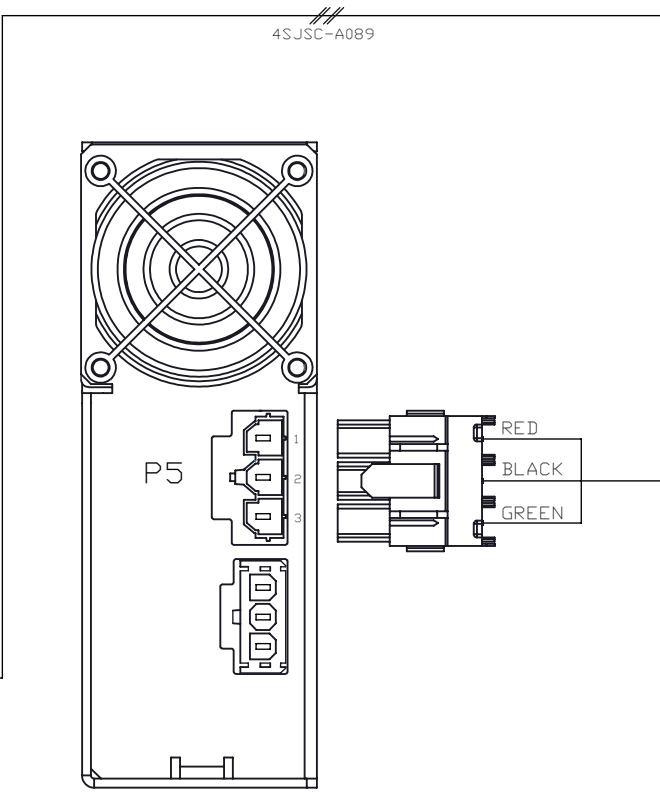
REV	DESCRIPTION	SHEET NO.	INITIAL	DATE
00	See Sheet 0 for Revisions			



Meridian Drive
X Axis
(Top View)



Meridian Drive
Y Axis
(Top View)



Amazon IPC
(Top View)

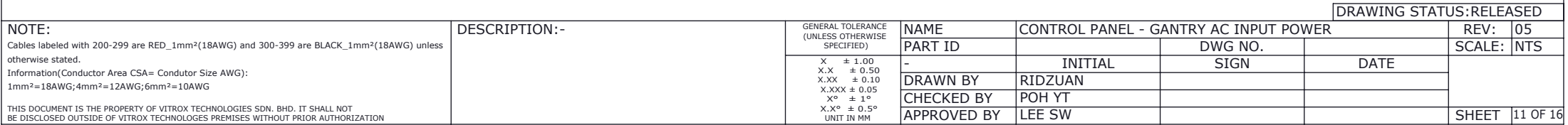
NOTE:

DESCRIPTION:-

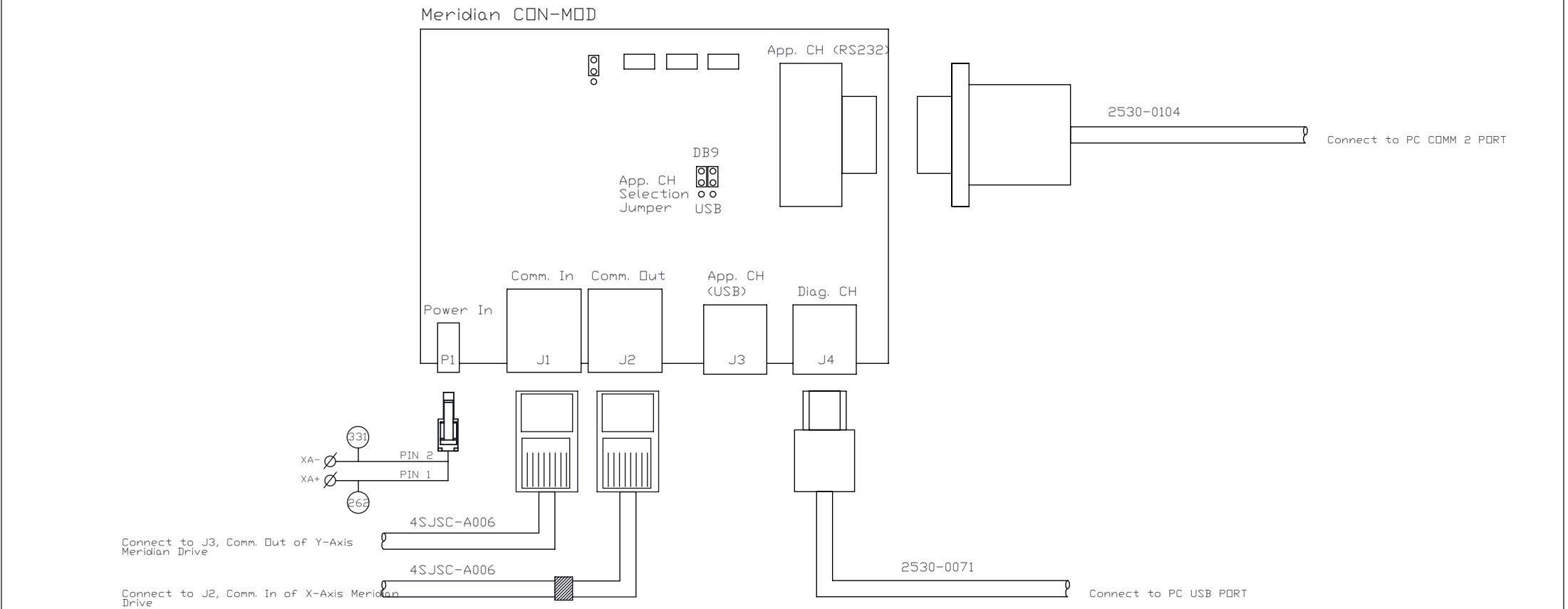
GENERAL TOLERANCE
(UNLESS OTHERWISE
SPECIFIED)

X ± 1.00
X.X ± 0.50
X.XX ± 0.10
X.XXX ± 0.05
X° ± 1°
X.X° ± 0.5°
UNIT IN MM

NAME	CONTROL PANEL - GANTRY DC BUS POWER			DRAWING STATUS:RELEASED	
PART ID	DWG NO.		REV:	05	
-	INITIAL	SIGN	DATE	SCALE:	NTS
DRAWN BY	RIDZUAN				
CHECKED BY	POH YT				
APPROVED BY	LEE SW				
				SHEET	10 OF 16



REV	DESCRIPTION	SHEET NO.	INITIAL	DATE
00	See Sheet 0 for Revisions			



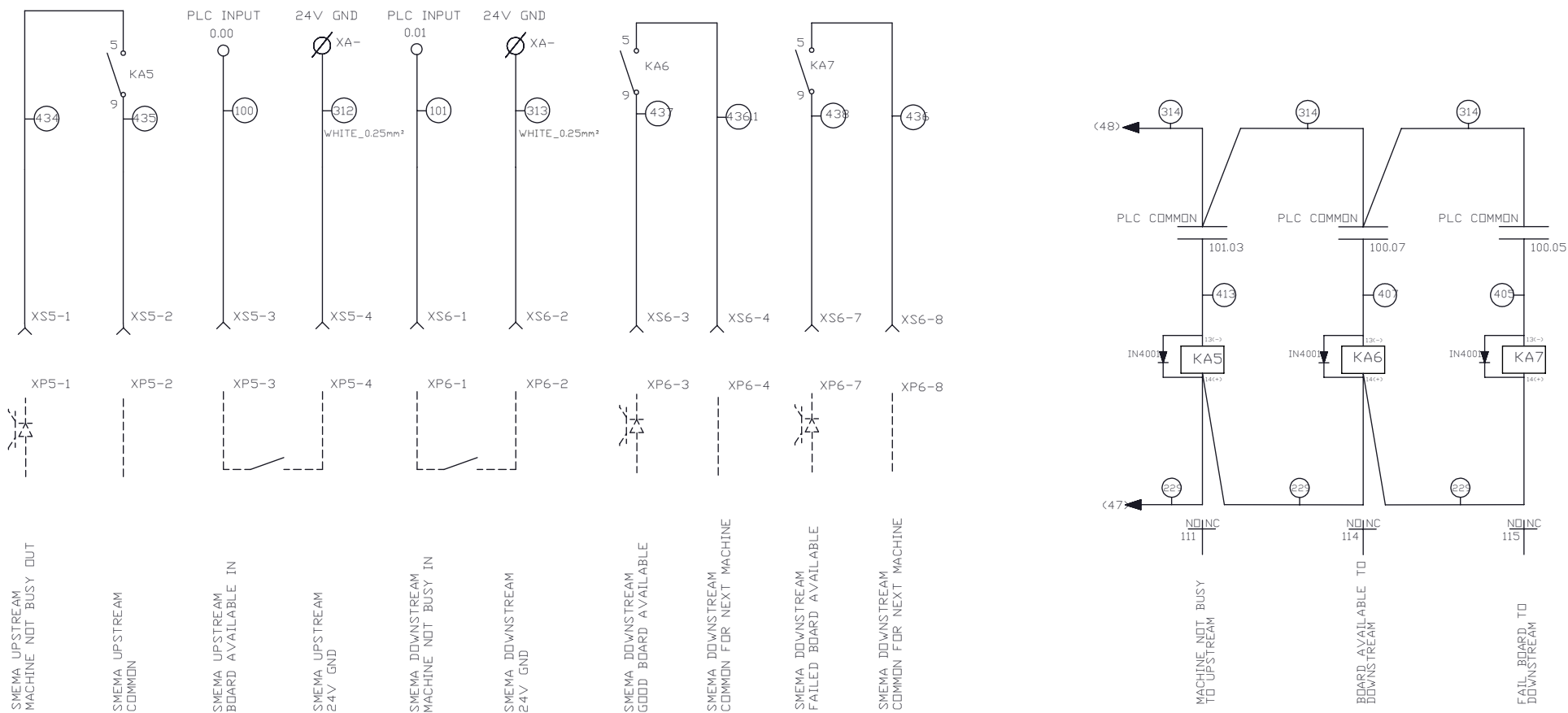
										DRAWING STATUS:RELEASED	
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			PART ID	DWG NO.					SCALE:	NTS	
			-	INITIAL		SIGN		DATE			
			DRAWN BY	RIDZUAN							
			CHECKED BY	POH YT							
			APPROVED BY	LEE SW							
									SHEET	12 OF 16	

DRAWING STATUS:RELEASED

REV	DESCRIPTION	SHEET NO.	INITIAL	DATE
00	See Sheet 0 for Revisions			

STANDARD SMEMA

SMEMA UPSTREAM RAIL 1 SMEMA DOWNSTREAM RAIL 1



NOTE:
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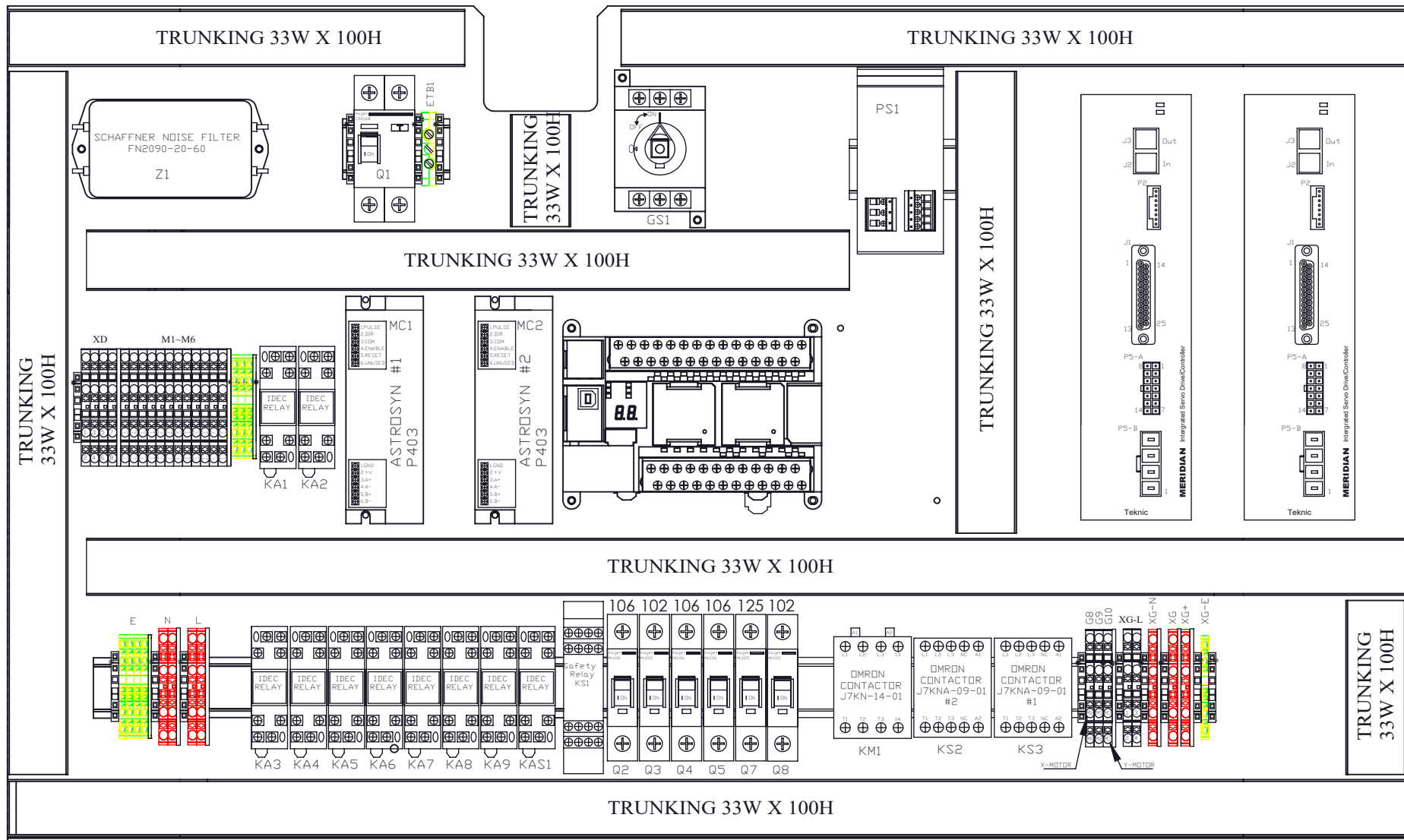
DESCRIPTION:-

GENERAL TOLERANCE (UNLESS OTHERWISE SPECIFIED)	
X	± 1.00
X.X	± 0.50
X.XX	± 0.10
X.XXX	± 0.05
X°	± 1°
X.X°	± 0.5°
UNIT IN MM	

NAME					DRAWING STATUS:RELEASED	
PART ID		CONTROL PANEL - SMEMA INTERFACE		REV:	05	
-		INITIAL	DWG NO.	SCALE:	NTS	
DRAWN BY		RIDZUAN		DATE		
CHECKED BY		POH YT				
APPROVED BY		LEE SW				
					SHEET	13 OF 16

120 121 122 123 124 125 126 127 128 129

REV	DESCRIPTION	SHEET NO.	INITIAL	DATE
00	See Sheet 0 for Revisions			



NOTE:

DESCRIPTION:-

GENERAL TOLERANCE
(UNLESS OTHERWISE
SPECIFIED)

X ± 1.00
X.X ± 0.50
X.XX ± 0.10
X.XXX ± 0.05
X° ± 1°
X.X° ± 0.5°
UNIT IN MM

NAME

PART ID

-

DRAWN BY

CHECKED BY

APPROVED BY

CONTROL PANEL LAYOUT (CENTER)

DWG NO.

SIGN

DRAWING STATUS:RELEASED

REV: 05

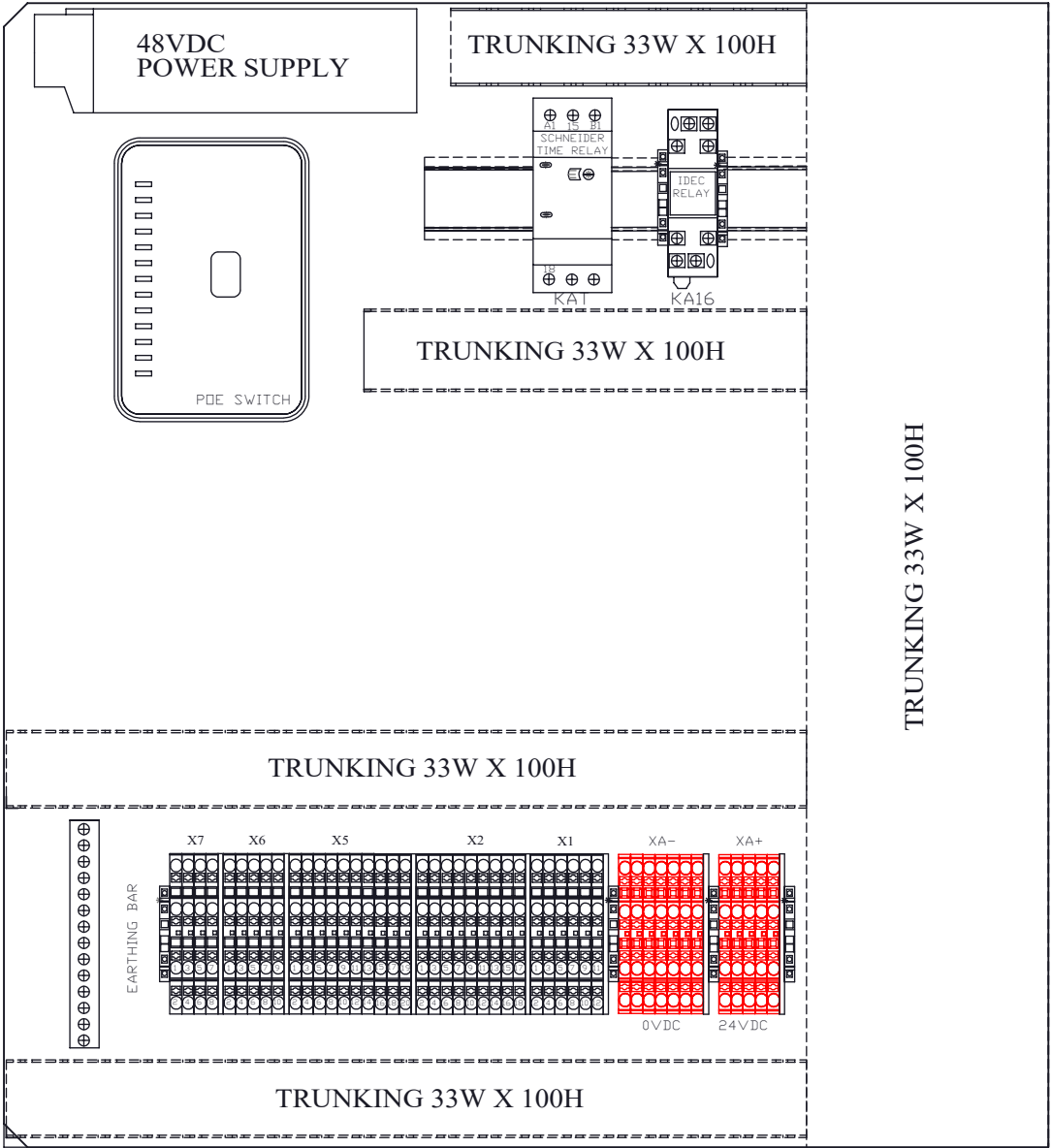
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SHEET 14 OF 16

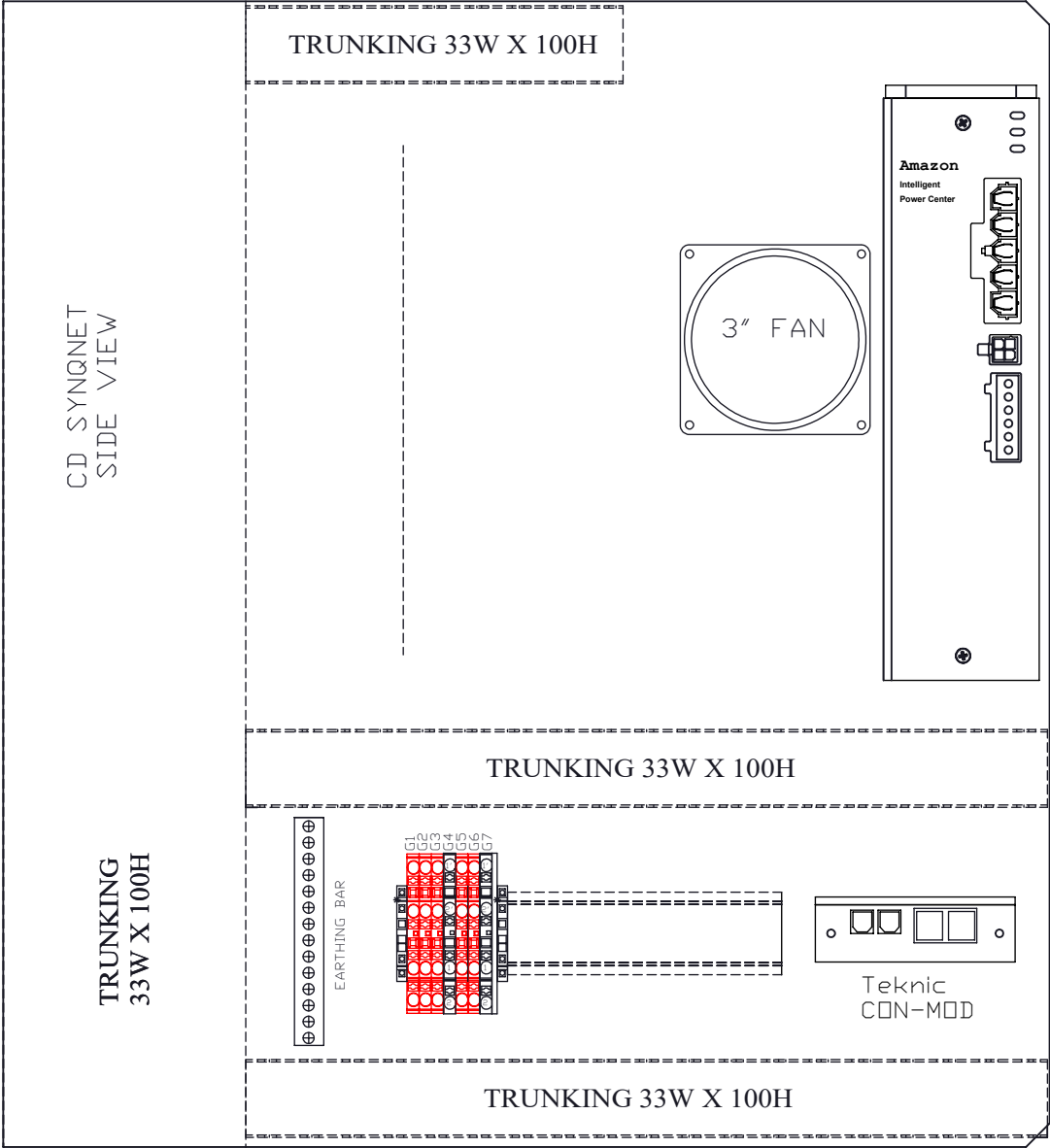
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			DRAWING STATUS:RELEASED			
NOTE: <						

REV	DESCRIPTION	SHEET NO.	INITIAL	DATE
00	See Sheet 0 for Revisions			



										DRAWING STATUS:RELEASED	
NOTE: 											