TOP ELEC, SIPTU, AB CONTROLS 480VAC, MOTORS, K5500 169000

Find Num	Part Number	Item Description	Qty	Rev
				Α
1	169001	ELECTRICAL WIRING SCHEMATICS, SIPTU, AB CONTROLS, 480VAC, K5500	1	D
2	169002	MAIN ELECTRICAL PANEL, SIPTU, AB CONTROLS, 480VAC, K5500	1	Е
3	169003	FRAME ELECTRICALS, SIPTU, AB CONTROLS, 480VAC, K5500	1	С
4	169004	OPERATOR INTERFACE, SIPTU, AB CONTROLS, 480VAC, K5500	1	Α
5	169005	CONTROL PANEL AUXILLARY EQUIPMENT, SIPTU, AB CONTROLS, 480VAC, K5500	1	В

TOP ELEC, SIPTU, AB CONTROLS 480VAC, MOTORS, K5500 169000 KLIKLOK WOODMAN
5224 SNAPFINGER WOODS DR.
DECATUR, GA 30035 USA
TEL: 770-981-5200
FAX: 770-987-7160

NAME PLATE DATE:

VOLTS: 480 AMPS: 40

HERTZ: 60

PHASE: 3 DISCONNECT

RATING: 40A

SHORT CIRCUIT CURRENT RATING:

100KA

LARGEST CIRCUIT AMPS: 25

DRAWING LIST:
PAGE 0: DUCUMENTATION COVER SHEET
PAGE 1: MAIN POWER DISTRIBUTION
PAGE 2: 120VAC POWER DISTRIBUTION
PAGE 3: SAFETY CIRCUIT LOOPS
PAGE 4: SAFETY RELAY/ 24VDC POWER DISTRIBUTION
PAGE 5: ETHERNET/PLC CONNECTIONS
PAGE 6 REMOTE DIGITAL INPUT CONNECTIONS
PAGE 7: REMOTE DIGITAL OUTPUTS CONNECTIONS
PAGE 8: SERVO DRIVES-METERING BELT, ACCEL BELT
PAGE 9: SERVO DRIVES-PHASING BELT 1, PHASING BELT 2
PAGE 10: SERVO DRIVES-PHASING BELT 3, PHASING BELT 4

MFG\WIRING NOTES

Wire Colors:
480VAC: BLACK
120VAC
LINE(120L):BLACK
NEUTRAL (120N): WHITE
GROUND (GND): GREEN W/ YELLOW STRIPE
24VDC
POSITIVE (24P, 24AE): BLUE
COMMON (24C): WHITE W/ BLUE STRIPE
PANEL INTERCONNECTIONS: YELLOW

- 1. ALL UNGROUNDED 480VAC and 240 VAC WIRING TO BE 12 AWG BLACK UNLESS OTHERWISE SPECIFIED.
- 2. ALL DC VOLTAGE WIRING TO BE 18 AWG BLUE UNLESS OTHERWISE SPECIFIED.
- 3. ALL UNGROUNDED 120VAC CONTROL WIRING TO BE 18 AWG RED UNLESS OTHERWISE SPECIFIED.
- 4. ALL UNGROUNDED 24VDC "+" WIRING TO BE 18 AWG BLUE UNLESS OTHERWISE SPECIFIED.
- 5. ALL GROUNDED 24VDC "COM" WIRING TO BE 16 AWG WHITE/BLU UNLESS OTHERWISE SPECIFIED.
- 6. ALL UNGROUNDED WIRING TO REMOTE INLINE I/O MODULES TO BE 18 AWG BLUE (24VDC"+") AND GROUNDED WIRING BLU\WHITE (24VDC "COM")
- 7. ALL GROUND(PE) WIRING TO BE 14 AWG GREEN\YELLOW UNLESS OTHERWISE SPECIFIED AND OR MARKED AS GROUND. GROUND TERMINALS ARE MARKED "GND".
- 8. NO MORE THAN 2 CONDUCTORS ON ANY ONE TERMINAL.
- 9. POWER CABLING AND CONTROL WIRING TO BE KEPT SEPERATE WHERE EVER POSSIBLE AND RUN AT 90 ANGLE WHERE IT IS NOT POSSIBLE.
- 10. BOTTOM AND OR RIGHT SIDE OF TERMINAL BLOCKS ARE RESERVED FOR FIELD TERMINATIONS. FIELD TERMINATIONS ARE DESIGNATED BY DASHED LINES.
- 11. POWER WIRING TO TERMINATE TO DEVICES USING THE FOLLOWING RULES. TOP TO BOTTOM, LEFT TO RIGHT, FRONT TO BACK DEPENDING ON THE DEVICE ORIENTATION AS MOUNTED IN THE ENCLOSURE.
- 12. ALL COMPONENTS ARE TO BE LABELED FROM THE SCHEMATIC TAG NUMBER AND LOCATED DIRECTLY ABOVE OR BELOW THE COMPONENT ON THE SUBPANEL AND OR REAR OF DOOR AS APPLICABLE. THE SELF ADHESIVE LABEL WILL BE WHITE 0.5 INCH HIGH WITH 0.25 INCH HIGH BLACK LETTERS. CROY TAPE OR EQUAL. NO LABELS ARE TO BE APPLIED TO THE WIRE DUCT COVERS.
- 13. DO NOT USE SELF TAPPING SCREWS FOR MOUNTING ONLY MACHINE SCREWS DRILL AND TAP AS REQUIRED.



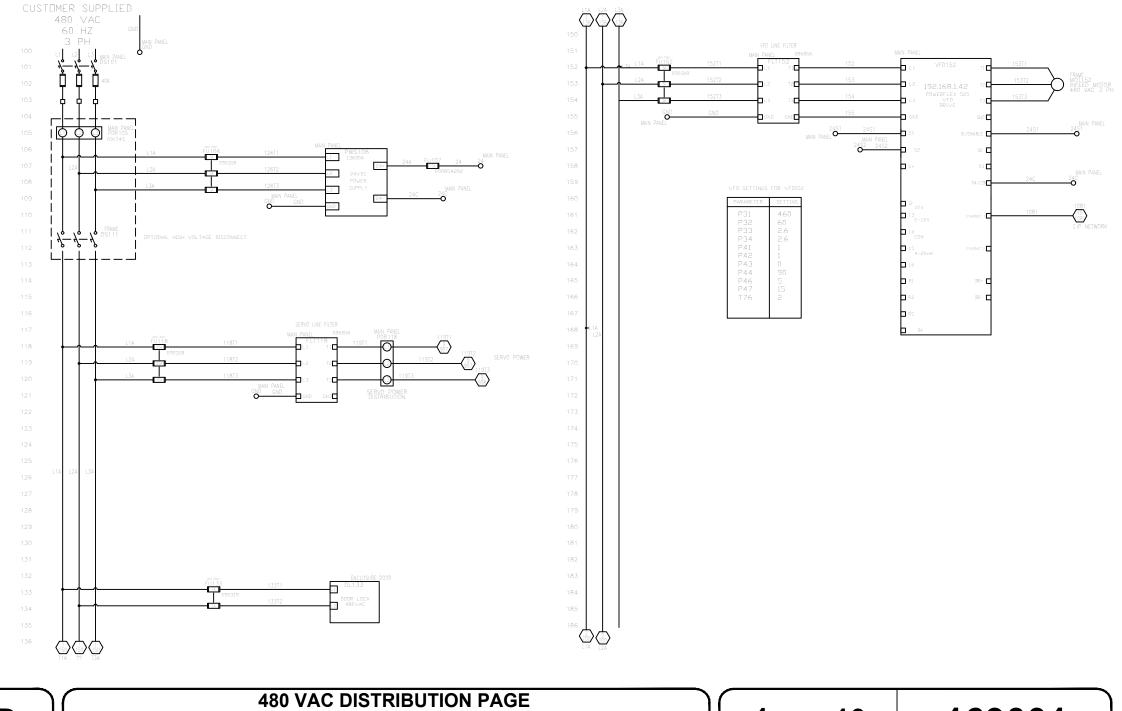


TITLE SHEET SIPTU 480 VAC

0 of 10

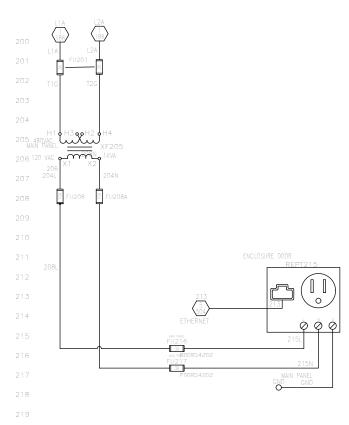
169001

SHEET NO



480 VAC DISTRIBUTION PAGE SIPTU 480 VAC

1 OF 10

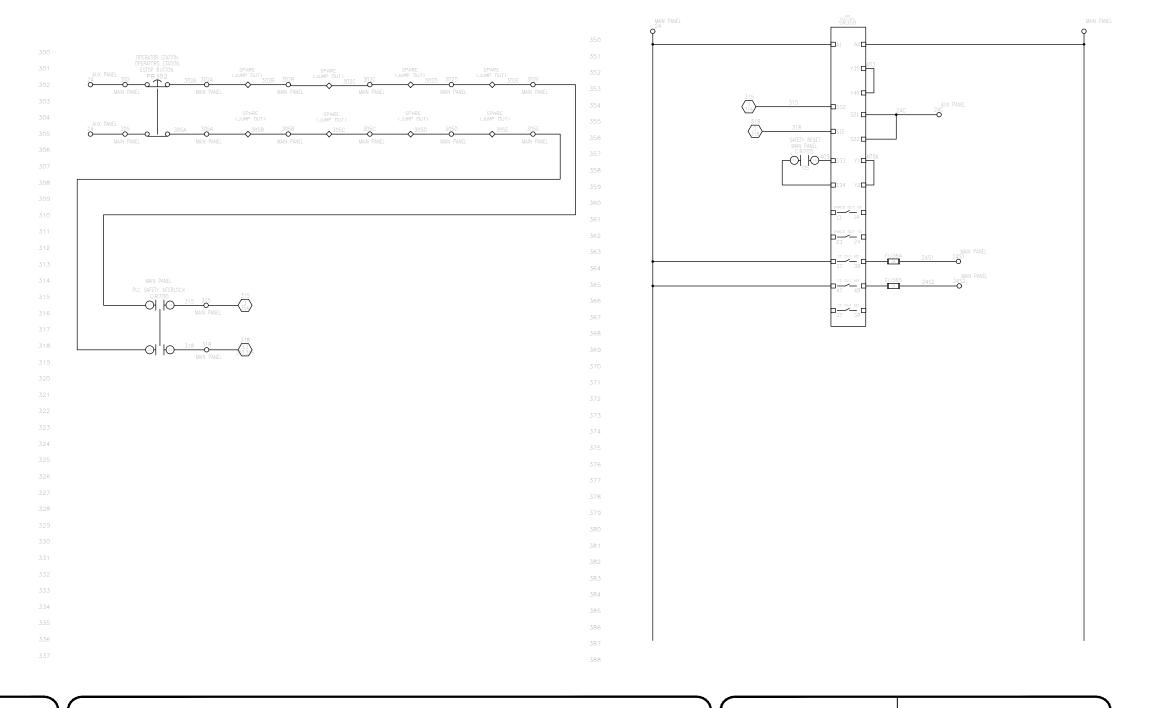


120 VAC DISTRIBUTION SIPTU 480 VAC

2 OF **10**

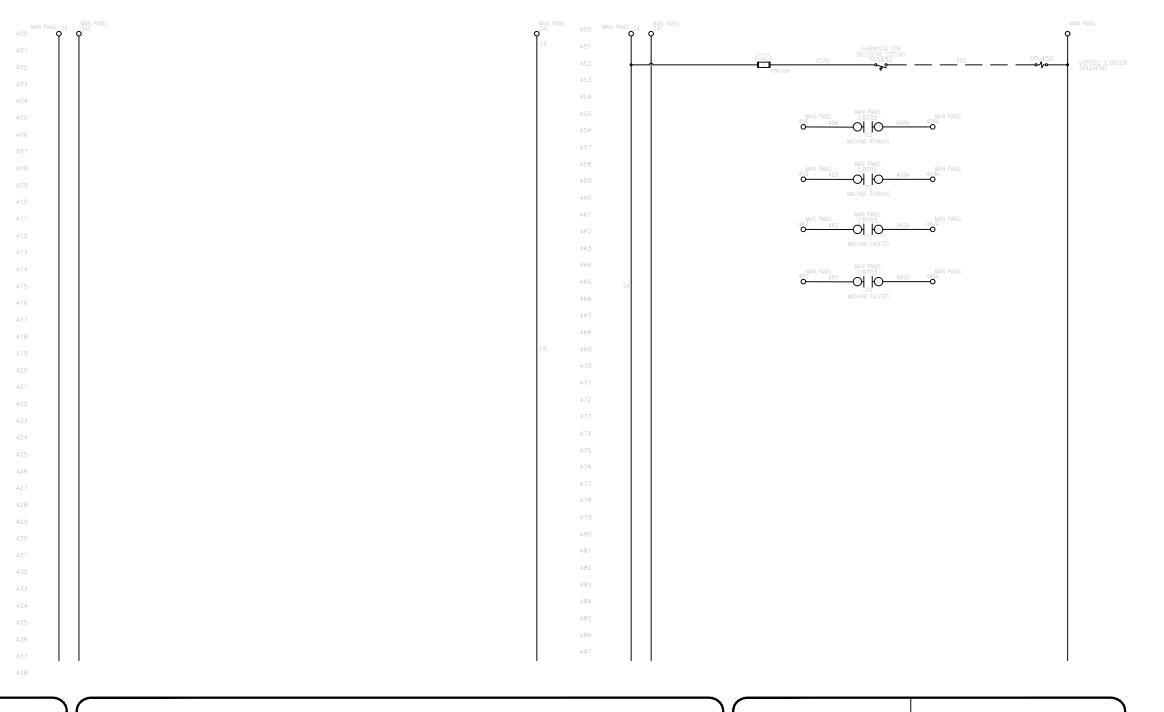
169001

SHEET NO



SAFETY CIRCUIT PAGE SIPTU 480 VAC

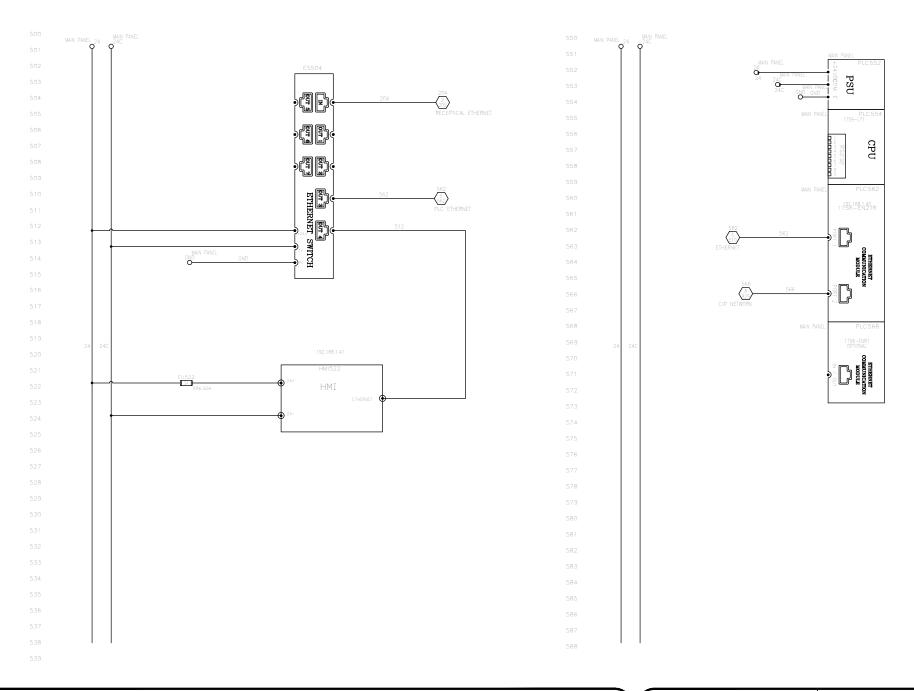
of **10** SHEET NO



SAFETY RELAY AND 24VDC DISTRIBUTION SIPTU 480 VAC

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SHEET NO

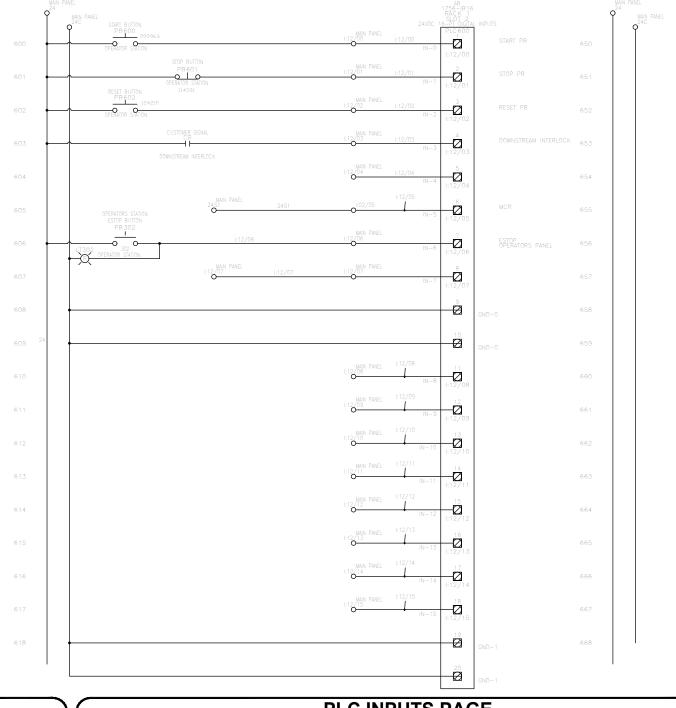


ETHERNET CONNECTIONS SIPTU 480 VAC

5 OF **10**

169001

SHEET NO DRAWING NUMBER

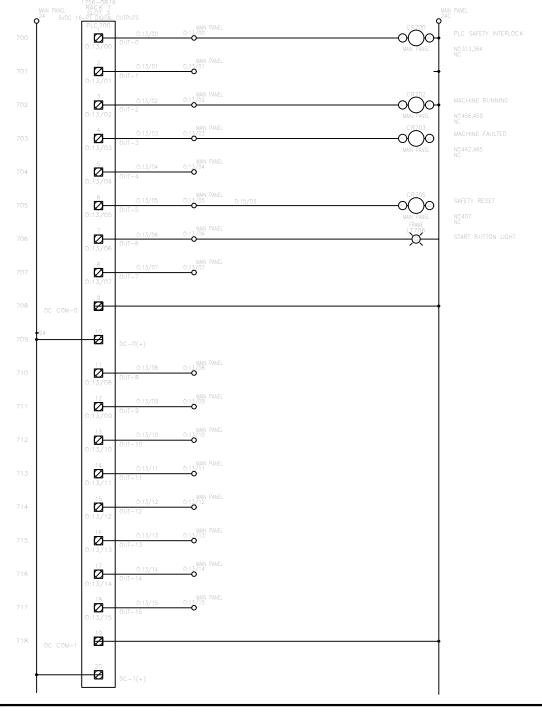


PLC INPUTS PAGE SIPTU 480 VAC

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169001

SHEET NO

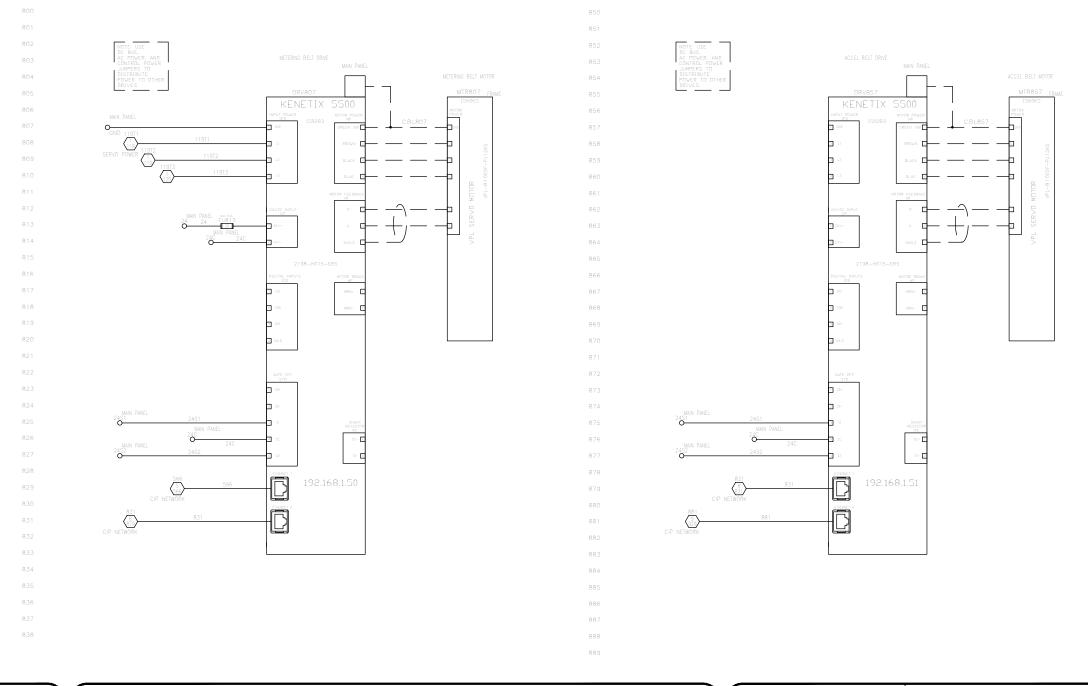


PLC OUTPUTS PAGE SIPTU 480 VAC

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169001

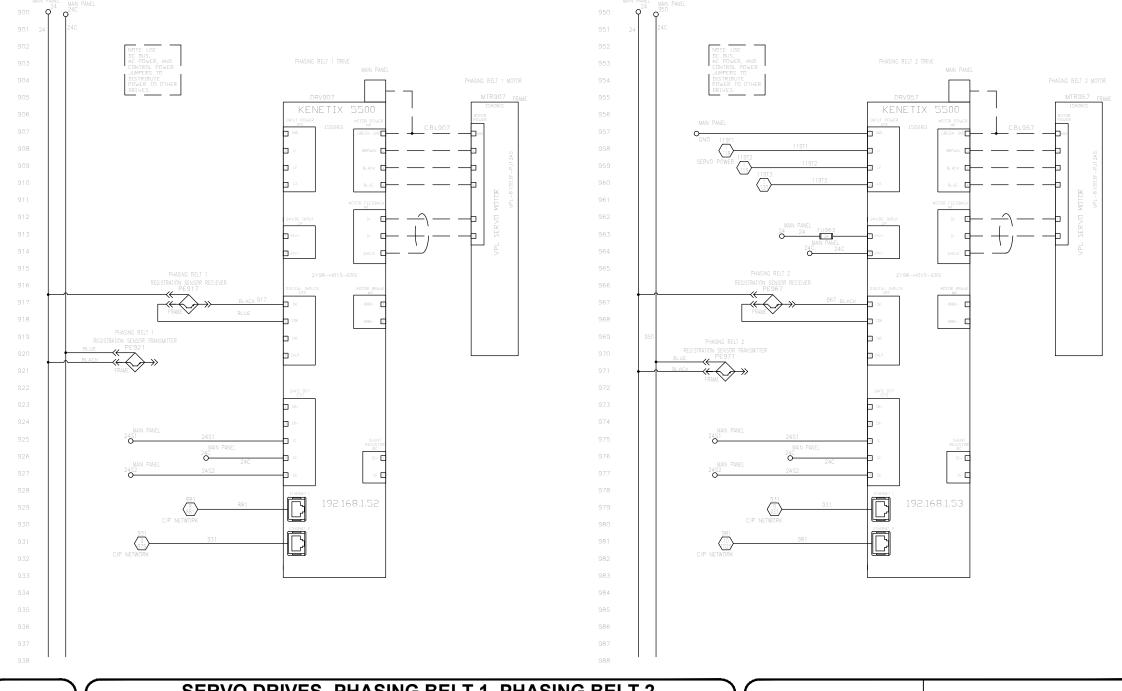
SHEET NO



SERVO DRIVES: METERING BELT, ACCEL BELT SIPTU 480 VAC

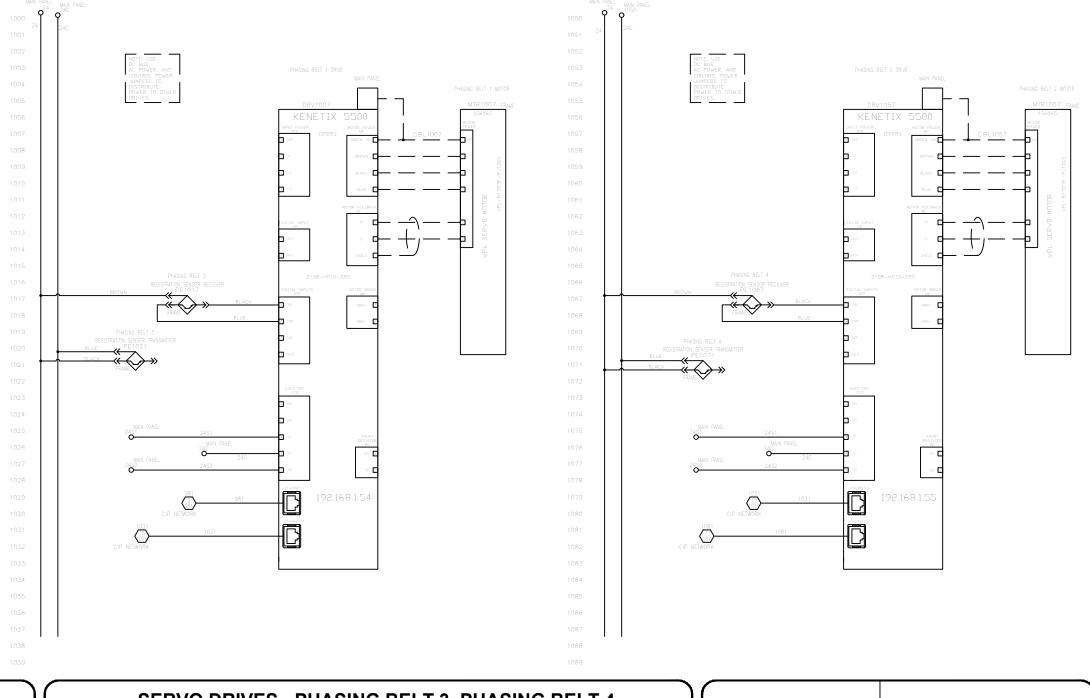
8 of 10

169001



SERVO DRIVES- PHASING BELT 1, PHASING BELT 2 SIPTU 480 VAC

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SERVO DRIVES - PHASING BELT 3, PHASING BELT 4 SIPTU 480 VAC

10 of **10**

SHEET NO

169001

SHEET 1 OF 3 MAIN ELECTRICAL PANEL SIPTU, AB CONTROLS, 480VAC, K5500 169002

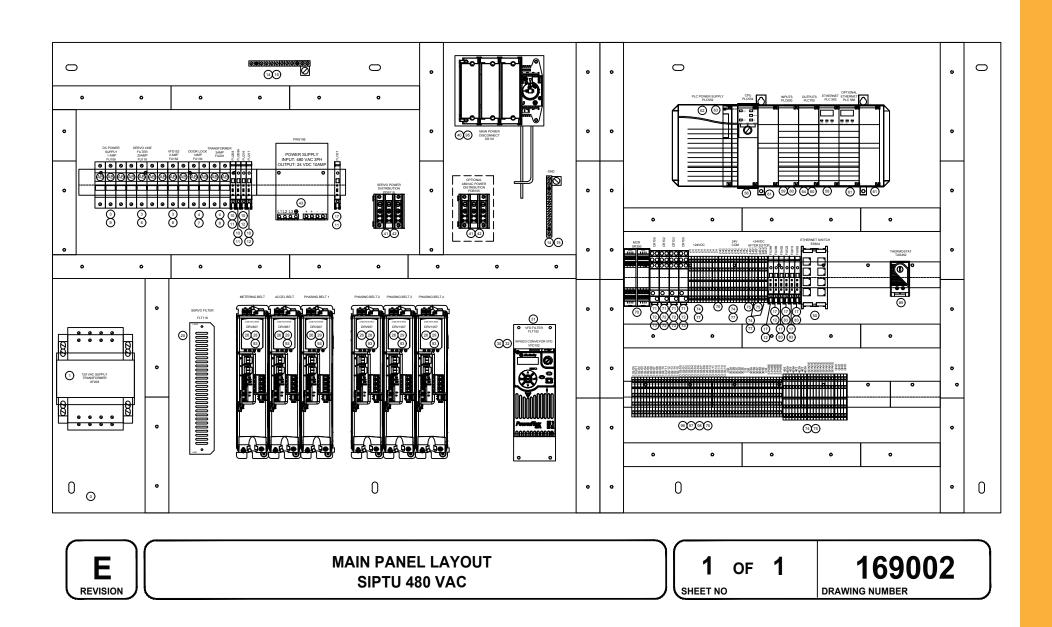
SIPTU, AB CONTROLS, 480VAC, K5500

SHEET 2 OF 3

169002

MAIN ELECTRICAL PANEL

Find Num	Part Number	Item Description	Qty	Rev
0	160676	CONTROL PANEL BACK PLATE. SIPTU. AB CONTROLS. 480VAC. K5500	4	E
0 1	168676 099226	TRF-Transformer	1	A
3	090318	FSH-Fuse Holder	3	A D
4	090319	FSH-Fuse Holder	2	D
6	165521	FUS-Fuse	3	A
7	096685	FUS-Fuse	5	A
8	125063	FUS-Fuse	5	A
10	147260	FSH-Fuse Holder	4	Α
11	114543	FUS-Fuse	3	Α
12	044232P	FUS-Fuse	4	Α
14	037732P	TER-Terminal	2	В
15	037735P	TER-Terminal	2	В
16	147258	TER-Terminal	4	Α
17	147259	FSH-Fuse Holder	7	Α
20	086816	FLT-Filter	1	В
26	150283	DRV-Drive	6	В
28	150284	CON-Connector	2	Α
29	150285	CON-Connector	4	Α
30	165524	VFD-Variable Frequency Drive	1	Α
31	150282	FLT-Filter	1	Α
32	159041	VFD-Variable Frequency Drive	1	Α
35	147339	TER-Terminal	3	Α
36	147338	TER-Terminal	1	Α
37	150125	TER-Terminal	2	Α
40	145859	SWT-Switch	1	Α
41	058847	PWB-Power Block	1	С
42	098232	CVP-Cover Plate	1	Α
43	136004	PWS-Power Supply	1	Α
44	145349	HAN-Handle	1	Α
45	146987	CBL-Cable	1	A
50	136005	HUB-Hub	1	A
56	144807	PLC-Programmable Logic Controller	1	Α
58	159043	PLC-Programmable Logic Controller	1	Α
59	069838	PLC-Programmable Logic Controller PLC-Programmable Logic Controller	1	D
60 61	069842 069835	PLC-Programmable Logic Controller	3	A
62	069833	PWS-Power Supply	1	A D
63	069832	PLC-Programmable Logic Controller	1	A
64	069839	PLC-Programmable Logic Controller	1	A
70	133497	REL-Relay	1	В
71	111509	REL-Relay	4	В
72	111510	MOD-Module	4	В
73	111507	REL-Relay	4	A
74	147254	TER-Terminal	47	Α
75	147261	TER-Terminal	8	Α
76	095671	TER-Terminal	8	Α
77	134229	JMP-Jumper	6	Α
82	P0072510	FUS-Fuse	1	Α
83	P0072515	FUS-Fuse	3	С
85	012853P	THS-Thermostats	1	В
86	086829	PAN-Panel	25	В
87	P00856112	MNR-Mounting Rail	25	_
88	125025	MNR-Mounting Rail	3	Α
89	096518	TER-Terminal	1	Α
90	033324P	TER-Terminal	2	<u> </u>
91	134234	TER-Terminal	2	В
92	091502	CBL-Cable	2	В
93	136162	CBL-Cable	6	Α
94	114719	CBL-Cable	3	A
-		FUS-Fuse		Α
95	117610			
	147257 147256	TER-Terminal TER-Terminal	51 51	A



SHEET 3 OF 3 MAIN ELECTRICAL PANEL SIPTU, AB CONTROLS, 480VAC, K5500 169002

FRAME ELECTRICALS, SIPTU AB CONTROLS, 480VAC, K5500 169003

Find Num	Part Number	Item Description	Qty	Notes	Rev
		•	-		С
1	156065	SRV-Servo Motor	6		Α
2	150751	CBL-Cable	6		Α
4	144665-1	SNR-Sensor	4		Α
5	144665-2	SNR-Sensor	4		Α
10	011101P	CBL-Cable	8		С
30	149828	GRO-Grommet	12	if cord in place, split one wall to fit	Α
31	004158P	CBL-Cable	25		-
32	099328	CBL-Cable	1		В
34	140975	SWT-Switch	REF	Optional High voltage disconnect.	Α

FRAME ELECTRICALS, SIPTU AB CONTROLS, 480VAC, K5500 169003

OPERATOR INTERFACE, SIPTU AB CONTROLS, 480VAC, K5500 169004

Find Num	Part Number	Item Description	Qty	Rev
				Α
1	159516	DISPLAY, PANELVIEW PLUS 6 EXTENDED FEATURES 10" WITH 2GB SD CARD.	1	Α
4	114940	SWT-Switch	1	Α
5	114951	SWT-Switch	1	Α
6	099963	SWT-Switch	1	С
8	124210	SWT-Switch	1	Α
9	103534	LBL-Label	1	Α
10	103535	LBL-Label	1	Α
11	103537	LBL-Label	1	Α
12	114487	NMP-Nameplate	1	Α

OPERATOR INTERFACE, SIPTU AB CONTROLS, 480VAC, K5500 169004

CONTROL PANEL AUXILLARY EQUIPMENT SIPTU, AB CONTROLS, 480VAC, K5500 169005

Find Num	Part Number	Item Description	Qty	Qty Notes	
		SR4W Former			В
0	070020	CON-Connector	1		Α
0	121220	PLL-Pilot Light	1		C
0	151288	SWT-Switch	1		Α
0	154023	LGH-Light	4		Α
3	110901	ADP-Adapter	1		В
9	100872	LCK-	1		В
10	016866P	ENC-Enclosure	1		ı
12	N8800508	CDF-Conduit Fitting	25		Α
14	091501	CBL-Cable	2	RECPT	В
21	170574	CON-Connector	6		Α

CONTROL PANEL AUXILLARY EQUIPMENT SIPTU, AB CONTROLS, 480VAC, K5500 169005