

MAIN ENCLOSURE COMPONENTS				
DETAIL	QTY	PART NUMBER	MANUFACTURER	DESCRIPTION
1101	1	SCE-72XM5418	SAGINAW CONTROL	MAIN ENCLOSURE W/SUB-PANEL, FLANGE DISCONNECT, PAINTED RAL9001
1102	1	1494V-DJ622-A-D-E	ALLEN BRADLEY	DISCONNECT SWITCH , FUSABLE- KIT
1103	3	LPJ-200SP	BUSSMANN	FUSE 600V, 200A, CLASS J
1104	1	SDN 40-24-480C	SOLA	POWER SUPPLY, 24VDC OUTPUT, 40AMP, 480V THREE PHASE SUPPLY
1105	1	HS1F2AS	SOLA	TRANSFORMER, 2KVA, 480PRIMARY/120VAC SECONDARY
1106	5	1492-SP1D020	ALLEN BRADLEY	CIRCUIT BREAKER, 2A, SUPPLEMENTARY PROTECTOR
1107	2	1492-SP1D030	ALLEN BRADLEY	CIRCUIT BREAKER, 3A, SUPPLEMENTARY PROTECTOR
1108	4	1492-SP1D040	ALLEN BRADLEY	CIRCUIT BREAKER, 4A, SUPPLEMENTARY PROTECTOR
1109	2	1492-SP1D050	ALLEN BRADLEY	CIRCUIT BREAKER, 5A, SUPPLEMENTARY PROTECTOR
1110	1	1492-SP1D060	ALLEN BRADLEY	CIRCUIT BREAKER, 6A, SUPPLEMENTARY PROTECTOR
1111	1	1492-SP1D080	ALLEN BRADLEY	CIRCUIT BREAKER, 8A, SUPPLEMENTARY PROTECTOR
1112	1	1492-SP1D100	ALLEN BRADLEY	CIRCUIT BREAKER, 10A, SUPPLEMENTARY PROTECTOR
1113	1	1492-SP1D400	ALLEN BRADLEY	CIRCUIT BREAKER, 40A, SUPPLEMENTARY PROTECTOR
1114	4	140G-G6C3-C40	ALLEN BRADLEY	CIRCUIT BREAKER, 40AMP, MOLDED CASE 125A FRAME, 3 POLE, IR=25KA
1115	2	140U-D6D2-C10	ALLEN BRADLEY	CIRCUIT BREAKER, 10AMP, 2 POLE, IR=65KA
1116	1	140U-D6D3-B20	ALLEN BRADLEY	CIRCUIT BREAKER, 2AMP, 3 POLE, IR=65KA
1117	2	140U-D6D3-C10	ALLEN BRADLEY	CIRCUIT BREAKER, 10AMP, 3 POLE, IR=65KA
1118	4	100-C60DJ10	ALLEN BRADLEY	CONTACTOR. IEC, 60AMP, 3 POLE, WITH ONE N.O. AUX CONTACT
1119	4	100-FA11	ALLEN BRADLEY	AUXILIARY CONTACT, 1NO/1NC
1120	10	700S-CF620EJBC	ALLEN BRADLEY	CONTROL RELAY, 6NO, 2NC, 10AMP, FORCE GUIDED, SAFETY RED CAP
1121	2	700-CF310EJ	ALLEN BRADLEY	CONTROL RELAY, 3NO/1NC, 10AMP, FORCE GUIDED
1122	10	700-HLT1Z24	ALLEN BRADLEY	INTERPOSING RELAY, SPDT, 6AMP, 1NO-1NC
1123	2	750104	PILZ	SAFETY RELAY, S4c, 3N.O. SAFETY CONTACTS, SCREW TERMINALS
1124	2	750105	PILZ	SAFETY RELAY, S5 2N.O. INSTANTANIOUS, 2N.O TIMED DELAY OFF, SCREW TERMINALS
1125	1	XPSAF5130P	TELEMECANIQUE	SAFETY RELAY, SCREW TERMINALS
1126	2	1783-US16T	ALLEN BRADLEY	ETHERNET SWITCH, 16 COPPER 10/100 PORTS, UNMANAGED
1127	1	2097-V34PR5	ALLEN BRADLEY	KINETIX 300 INDEXING SERVO DRIVE CONTROLLER
1128	1	2097FS	ALLEN BRADLEY	KINETIX 300 LINE FILTER
1129	1	1769-L33ER	ALLEN BRADLEY	1769 COMPACTLOGIX, DUAL ETHERNET, 2MB MEMORY, 16I/O EXPANSION, 32 ETH. NODES
1130	1	1769-PB2	ALLEN BRADLEY	1769 COMPACT LOGIX POWER SUPPLY
1131	8	1769-IQ16	ALLEN BRADLEY	1769 COMPACT LOGIX 16 POINT INPUT MODULE
1132	6	1769-OB16P	ALLEN BRADLEY	1769 COMPACT LOGIX 16 POINT OUTPUT MODULE
1133	6	1769-IF4	ALLEN BRADLEY	ANALOG INPUT, RANGES: +/-10V,0-10V,0-5V,0-5V,0-20mA,4-20mA, '4 CH ANALOG
1134	1	2097-V34PR5	ALLEN BRADLEY	COMPACTLOGIX PLC SERIES END CAP
1135	1	1769-CRR1	ALLEN BRADLEY	RACK EXPANSION CABLE, 1FT, RIGHT TO RIGHT
1136	1	1769-PB2	MENCOM	PROGRAMMING PORT
1137	1	GF-RJ45-R-32	MCMaster CARR	SURFACE MOUNT GFCl - 20A
1138	1	72155K73	ALLEN BRADLEY	1769 COMPACT LOGIX 16 POINT OUTPUT MODULE
1139	1	PK7GTA	SQUARE D	GROUND BAR
1140	3	PDBFS377	BUSSMANN	POWER DISTRIBUTION BLOCK, FINGER SAFE
1141	2	T1-1540G	IBOCO	WIRE DUCT, SLOTTED, 1.5" WIDE, INCLUDES COVER, 6FT, GRAY
1142	4	T1-2240G	IBOCO	WIRE DUCT, SLOTTED, 2.25" WIDE, INCLUDES COVER, 6FT, GRAY
1143	1	T1-1040G	IBOCO	WIRE DUCT, SLOTTED, 1" WIDE, INCLUDES COVER, 6FT GRAY
1144	1	6920K51	MCMaster-CARR	ALUMINUM SET SCREW LUG DUAL WIRE, 14-1/0 AWG
1145	1	SCE-LF24	SAGINAW CONTROL	ENCLOSURE LIGHT, BUILT IN DOOR SWITCH, 120VAC, LED
1146	2	SCE-LSA	SAGINAW CONTROL	DOOR LIMIT SWITCH, FOR AC INTERLOCK
1147	1	N170246G010	PENTAIR BRADLEY	AIR CONDITIONER, SIDE MOUNT, 1800BTU/hr, 527WATT
1148	4	1492-DR5	ALLEN BRADLEY	DIN RAIL
1149	3	1492-DR6	ALLEN BRADLEY	HIGH RISE DIN RAIL
1150	246	1492-JD4	ALLEN BRADLEY	TERMINAL, IEC, TWO TIER, #26AWG - #10AWG, UL 600V/35A
1151	3	1769-PB2	ALLEN BRADLEY	TERMINAL END BARRIER, JD4
1152	24	1492-EBJD4	ALLEN BRADLEY	END ANCHOR
1153	10	1492-EAJ35	ALLEN BRADLEY	JUMPER, SCREW CENTER, 10POLE, FOR JD4
1154	5	1492-CJLJ6-41	ALLEN BRADLEY	GROUNDING TERMINAL
1155	2	1492-JG4	ALLEN BRADLEY	SERVO TERMINAL BLOCK
1156	x	RELAY SOCKET, 8PIN	LUMBERG	ETHERNET M12

HMI & PC ENCLOSURE COMPONENTS				
DETAIL	QTY	PART NUMBER	MANUFACTURER	DESCRIPTION
1170	1	SCE-20H1608LP	SAGINAW CONTROL	ENCLOSURE, NEMA4, 20"H X 16"W X 8"D, PAINTED RAL9001
1171	1	SCE-20P16	SAGINAW CONTROL	SUBPANEL FOR SCE-20H1608LP
1172	1	2711P-T10C4D9	ALLEN BRADLEY	PANELVIEW 1000, 10 INCH SCREEN, 24VDC, COLOR, TOUCH
1173	1	800FM-F2MX10	ALLEN BRADLEY	PUSH BUTTON, FLUSH, BLACK, METAL, 1N.O.
1174	1	800FM-LG3	ALLEN BRADLEY	PUSH BUTTON, GUARDED, GREEN, ILLUMINATED, METAL
1175	1	800F-MN3G	ALLEN BRADLEY	INTEGRATED LED, METAL, WITH LATCH MOUNT, 24V AC/DC, GREEN LED
1176	1	800F-X10	ALLEN BRADLEY	CONTACT BLOCK, 1N.O.
1177	1	800FM-MT44MX01S	ALLEN BRADLEY	MUSHROOM OPERATOR, TWIST TO RELEASE, 40MM, NON-ILLUMINATED
1178	2	800F-X01	ALLEN BRADLEY	CONTACT BLOCK, 1N.C.
1179	1	K50LGRYPQ	BANNER	LIGHT, 3-COLOR, 18-30VDC, GREEN, RED, YELLOW, 50MM
1180	40	1492-J3	ALLEN BRADLEY	TERMINAL, ONE CIRCUIT, 24AWG - 12AWG, 25AMP UL RATED
1181	1	1492-EBJ3	ALLEN BRADLEY	TERMINAL, END BARRIER, GRAY
1182	2	1492-JG3	ALLEN BRADLEY	GROUND TERMINAL
1183	2	1492-CJLJ5-10	ALLEN BRADLEY	PLUG IN CENTER JUMPER
1184	1	T1-1030G	IBOCO	WIRE DUCT, SLOTTED, 1" WIDE, INCLUDES COVER, 6FT GRAY
1185	2	800F-15YSE112	ALLEN BRADLEY	EMERGENCY STOP LEGEND FOR 22.5MM PUSH BUTTON
1186	1	SCE-642424WS	SAGINAW CONTROL	PC WORK STATION ENCLOSURE, PULL OUT KEYBOARD DRAWER
1187	1	SCE-60P24WS	SAGINAW CONTROL	SUB-PANEL, SIDE MOUNT
1188	1	SCE-20VESTS	SAGINAW CONTROL	SHELF, VENTED, STATIONARY
1189	1	SCE-LPD2	SAGINAW CONTROL	LEVELING PAD
1190	1	OPTIPLEX 9020	DELL	PC, WINDOWS 7 PRO, CORE I5-2400, 4GB MEM, 128GB SS DRIVE
1191	1	XXXXX	DELL	MONITOR/KEYBOARD/MOUSE
1192	1	0985 806 103/1M	LUMBERG	ETHERNET M12 BULKHEAD, 1METER CORD
1193	1	5600461	PHOENIX CONTACT	120VAC RECEPTACLE

[illegible]

STAMP OR ETCH ON ALL DETAILS THE DRAWING
AND DETAIL NUMBER, AND THE LATEST
APPLICABLE REVISION SYMBOL.
IF ROOM PERMITS, STAMP OR ETCH THE VENDORS
INITIALS AND DATE OF MANUFACTURE.

DO NOT SCALE DRAWING

2 PLACE DECIMALS	±.01	INCHES
3 PLACE DECIMALS	±.005	INCHES
4 PLACE DECIMALS	±.0005	INCHES
ANGLES	±0°30'	
REMOVE ALL SHARP	EDGES	

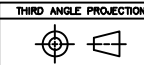


THIS DOCUMENT IS PROTECTED BY COPYRIGHT AND NOTHING IN THIS DOCUMENT SHALL GRANT A LICENSE OR ANY OTHER RIGHTS TO THIS DOCUMENT OR THE INFORMATION CONVEYED THEREIN; THE REPRODUCTION, DISTRIBUTION, AND UTILIZATION OF THIS DOCUMENT OR ITS RELATED CAD MATH DATA, AS WELL AS COMMUNICATION OF ANY CONTENT TO OTHERS, WITHOUT THE EXPRESS WRITTEN AUTHORIZATION IS PROHIBITED.



		machine name	
		PARTS LIST	
PART NO.	PART NO.	DESIGN APPROVED name	DRAWN BY name
		CHECKED BY	SCALE NONE
		DATE	DATE mm/yy

PREFIX - DRAWING NUMBER - SHEET TYPE - SHEET NUMBER

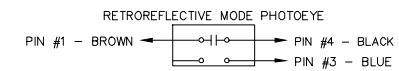
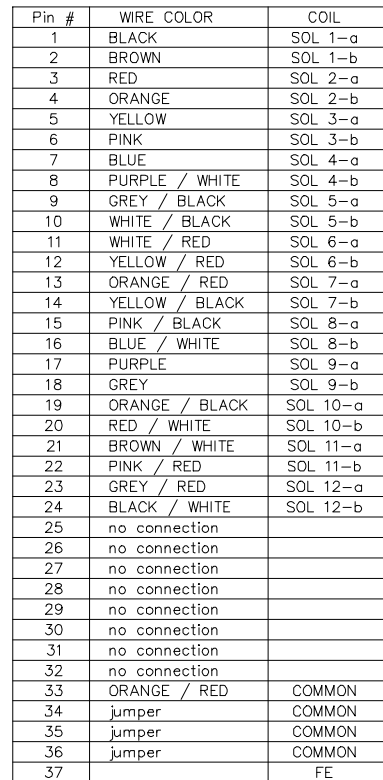


Sz-SDxxxxxx-ELE-p#

vendor and job number

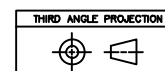
[illegible]

ALL ETHERNET CABLING MUST BE AT MINIMUM CLASSIFIED CATEGORY 5e (NOT CATEGORY 5)
HOOK & LOOP (VELCO) TIE WRAPS SHOULD BE USED FOR ETHERNET CABLE MANAGEMENT
IF PLASTIC ZIP TIES ARE USED THEY MUST BE WRAPPED LOOSELY ENOUGH TO ROTATE EASILY



PREFIX - DRAWING NUMBER - SHEET TYPE - SHEET NUMBER

Sz-SDxxxxxx-ELE-p#



Vendor and job number

[illegible]

SPARE SHEET

STAMP OR ETCH ON ALL DETAILS THE DRAWING
AND DETAIL NUMBER, AND THE LATEST
APPLICABLE REVISION SYMBOL.
IF ROOM PERMITS, STAMP OR ETCH THE VENDORS
INITIALS AND DATE OF MANUFACTURE.

DO NOT SCALE DRAWING

2 PLACE DECIMALS	±.01	INCHES
3 PLACE DECIMALS	±.005	INCHES
4 PLACE DECIMALS	±.0005	INCHES
ANGLES	±0°30'	
REMOVE ALL SHARP EDGES		

nexteer
AUTOMOTIVE

THIS DOCUMENT IS PROTECTED BY COPYRIGHT AND NOTHING IN THIS DOCUMENT SHALL GRANT A LICENSE OR ANY OTHER RIGHTS TO THIS DOCUMENT OR THE INFORMATION CONVEYED THEREIN: THE REPRODUCTION, DISTRIBUTION, AND UTILIZATION OF THIS DOCUMENT OR ITS RELATED CAD MATH DATA, AS WELL AS COMMUNICATION OF ANY CONTENT TO OTHERS, WITHOUT THE EXPRESS WRITTEN AUTHORIZATION IS PROHIBITED.

program name

machine name
10.10.10.10
10.10.10.11
10.10.10.12
10.10.10.13
10.10.10.14
10.10.10.15
10.10.10.16
10.10.10.17
10.10.10.18
10.10.10.19
10.10.10.20
10.10.10.21
10.10.10.22
10.10.10.23
10.10.10.24
10.10.10.25
10.10.10.26
10.10.10.27
10.10.10.28
10.10.10.29
10.10.10.30
10.10.10.31

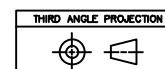


**COMPUTER GRAPHICS
CHANGE RESTRICTED**

		machine name	
		SPARE SHEET	
PART NO.	PART NO.	DESIGN APPROVED name	DRAWN BY name
		CHECKED BY	SCALE NONE
		DATE	DATE mm/yy

	DATE
PREFIX - DRAWING NUMBER - SHEET TYPE - SHEET NUMBER	

Sz-SDxxxxxx-ELE-p#



Vendor and job number

insert program name
insert machine name

Sz-SDxxxxxxx

[illegible]

ELECTRICAL TABLE OF CONTENTS	
SHT. NO.	DESCRIPTION
x	TABLE OF CONTENTS
x	CONSTRUCTION NOTES
x	480 VAC POWER DISTRIBUTION
x	400/380 VAC PHASE POWER DISTRIBUTION (5-wire)
x	480 VAC POWER DISTRIBUTION
x	SPARE SHEET
x	SPARE SHEET
x	120 VAC POWER DISTRIBUTION
x	220 VAC POWER DISTRIBUTION (1 Phase + Neutral)
x	SPARE SHEET
x	SPARE SHEET
x	24 VDC CONTROL POWER DISTRIBUTION
x	24 VDC CONTROL POWER DISTRIBUTION
x	SPARE SHEET
x	SPARE SHEET
x	SPARE SHEET
x	SAFETY RELAY (E-STOPS)
x	SAFETY RELAY (GATE SWITCHES)
x	SAFETY RELAY (LIGHT CURTAIN)
x	SAFETY RELAY (TWO-HAND CONTROL)
x	ETHERNET NETWORK ARCHITECTURE
x	ETHERNET NETWORK ARCHITECTURE
x	SPARE SHEET
x	SPARE SHEET
x	PLC CHASSIS LAYOUT
x	MAIN PANEL INPUTS (Ix_0-15, Iy_0-15)
x	MAIN PANEL INPUTS (Ix_0-15, Iy_0-15)
x	MAIN PANEL OUTPUTS (Ox_0-15, Oy_0-15)
x	SPARE SHEET
x	SPARE SHEET
x	SPARE SHEET
x	STATION #10 REMOTE I/O RACK LAYOUT
x	STATION #10 REMOTE INPUTS (IDx_1.0-7, IDx_2.0-7, IDx_3.0-7, IDx_4.0-7)
x	STATION #10 REMOTE INPUTS (IDx_5.0-7, IDx_6Ch0-1)
x	STATION #10 REMOTE OUTPUTS (ODx_7Ch0-1, ODx_8.0-7, ODx_9.0-7)
x	SPARE SHEET
x	SPARE SHEET
x	STATION #20 REMOTE I/O RACK LAYOUT
x	STATION #20 REMOTE INPUTS (IDx_1.0-7, IDx_2.0-7, IDx_3.0-7, IDx_4.0-7)
x	STATION #20 REMOTE OUTPUTS (ODx_5.0-7, ODx_6.0-7)
x	SPARE SHEET
x	SPARE SHEET
x	SPARE SHEET
x	STATION #10 RFID
x	STATION #10 RFID
x	SPARE SHEET
x	SPARE SHEET
x	MACHINE LAYOUT
x	MAIN ENCLOSURE LAYOUT
x	MAIN ENCLOSURE SUBPLATE LAYOUT
x	MAIN HMI ENCLOSURE
x	STATION #10 HMI ENCLOSURE
x	SPARE SHEET
x	PARTS LIST

STAMP OR ETCH ON ALL DETAILS THE DRAWING
AND DETAIL NUMBER, AND THE LATEST
APPLICABLE REVISION SYMBOL.
IF ROOM PERMITS, STAMP OR ETCH THE VENDORS
INITIALS AND DATE OF MANUFACTURE.

DO NOT SCALE DRAWING

2 PLACE DECIMALS	±.01	INCHES
3 PLACE DECIMALS	±.005	INCHES
4 PLACE DECIMALS	±.0005	INCHES
ANGLES	±0°30'	
REMOVE ALL SHARP EDGES		

nexteer

THIS DOCUMENT IS PROTECTED BY COPYRIGHT AND NOTHING IN THIS DOCUMENT SHALL GRANT A LICENSE OR ANY OTHER RIGHTS TO THIS DOCUMENT OR THE INFORMATION CONVEYED THEREIN; THE REPRODUCTION, DISTRIBUTION, AND UTILIZATION OF THIS DOCUMENT OR ITS RELATED CAD DATA, AS WELL AS COMMUNICATION OF ANY CONTENT TO OTHERS, WITHOUT THE EXPRESS WRITTEN AUTHORIZATION IS PROHIBITED.

program name

machine name
10.10.10.10
10.10.10.11
10.10.10.12
10.10.10.13
10.10.10.14
10.10.10.15
10.10.10.16
10.10.10.17
10.10.10.18
10.10.10.19
10.10.10.20
10.10.10.21
10.10.10.22
10.10.10.23
10.10.10.24
10.10.10.25
10.10.10.26
10.10.10.27
10.10.10.28
10.10.10.29
10.10.10.30
10.10.10.31

TABLE OF CONTENTS

DESIGN APPROVED	name	DRAWN BY	name
-----------------	------	----------	------

CHECKED BY	SCALE NONE
DATE	DATE mm/yyyy



**COMPUTER GRAPHICS
CHANGE RESTRICTED**

THIRD ANGLE PROJECTION

The symbol for third angle projection consists of a circle on the left and a truncated cone on the right. The circle represents the end view, and the truncated cone represents the front view. The cone is drawn with a dashed line for its hidden back edge.

		DATE
PREFIX - DRAWING NUMBER - SHEET TYPE - SHEET NUMBER		

Sz-SDxxxxxx-ELE-p#

vendor and job number