ELECTRICAL INFORMATION

PC100EC **Rev. A2.00+**
PC100EH

8180 W 10th St
Indianapolis, IN 46214

PC100EC_EH Rev C

PC100EC & PC100EH

Creator	MOC
Create Date	8/10/2026
Last Editor	SDC
Edit date	8/10/2026
Design Revision	C
Project Type	Schematic project
Total Pages	19
Report Pages	12
Supply Type	400/480VAC 3Ph 50/60Hz

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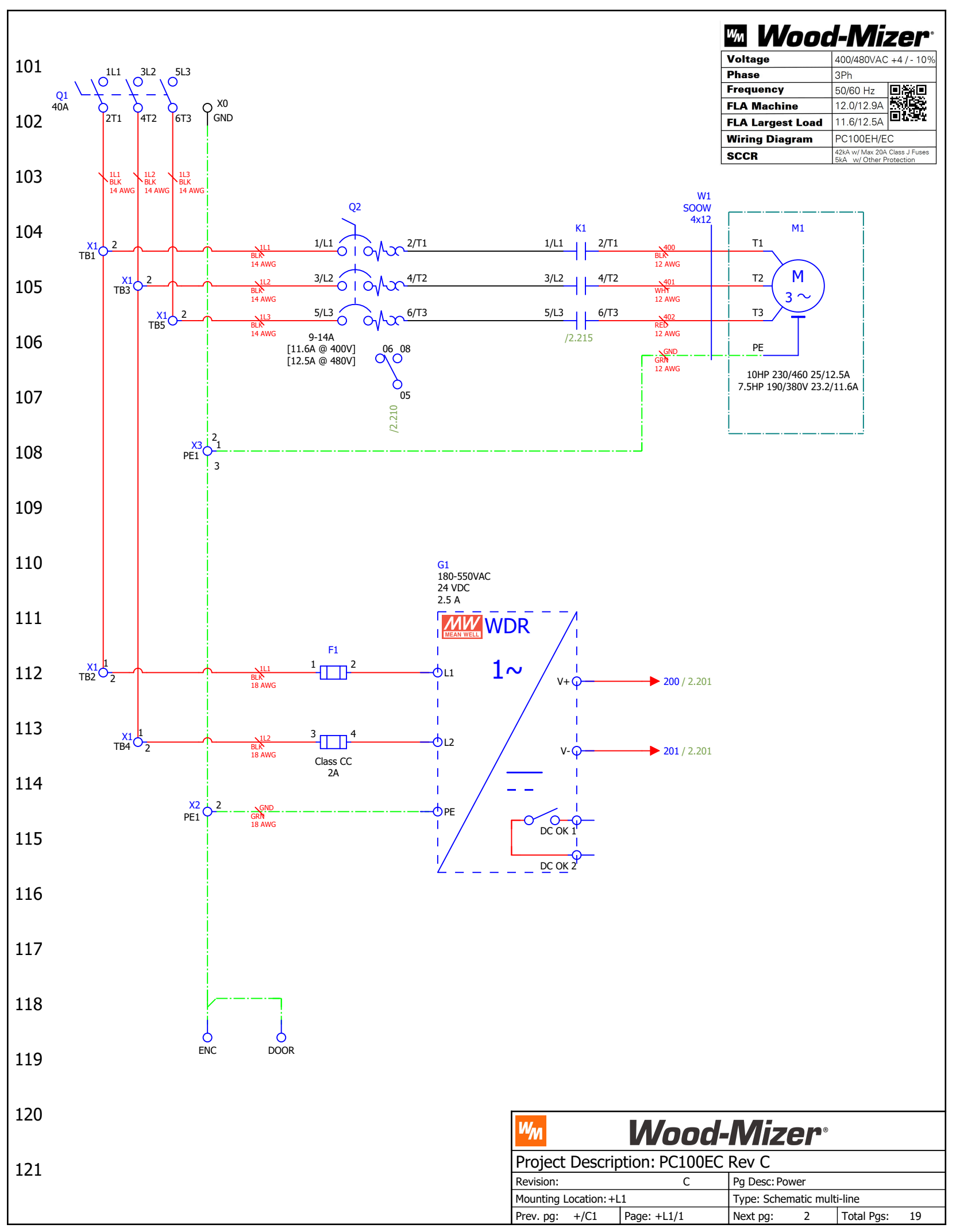
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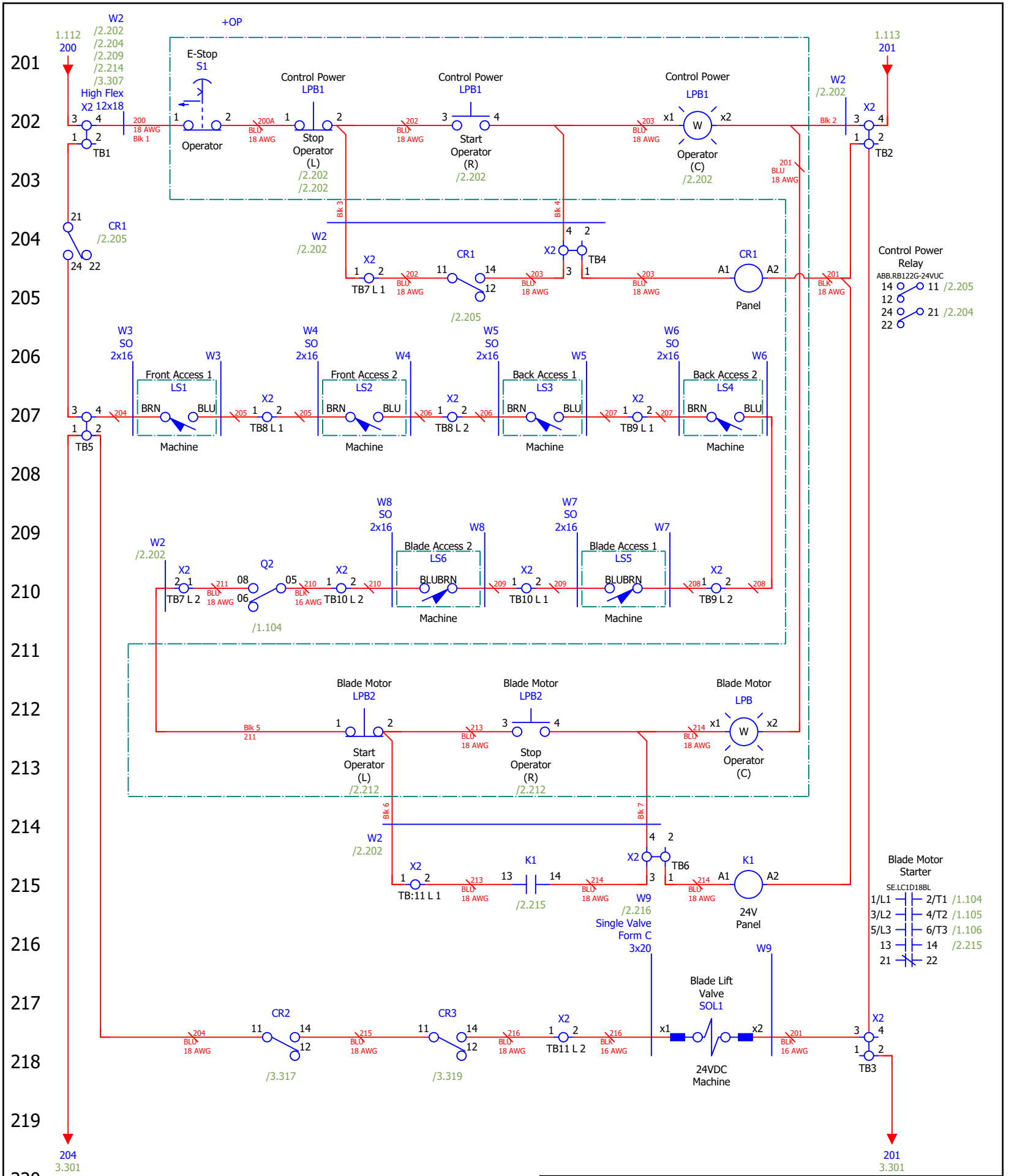
Revision History

Date	Revision	Revision Record	Drawn By	Checked By
7/28/21	A	Pilot build release.	SDC	TEM
2/19/26	B	Modify Operator wiring to allow e-stop to disable control power.	TEM	SDC
8/10/26	C	Replaced Q2 from GV2P20 to GV2P16. Updated Nameplate for 400V Rating. Corrected M1 P/N.	SDC	TEM

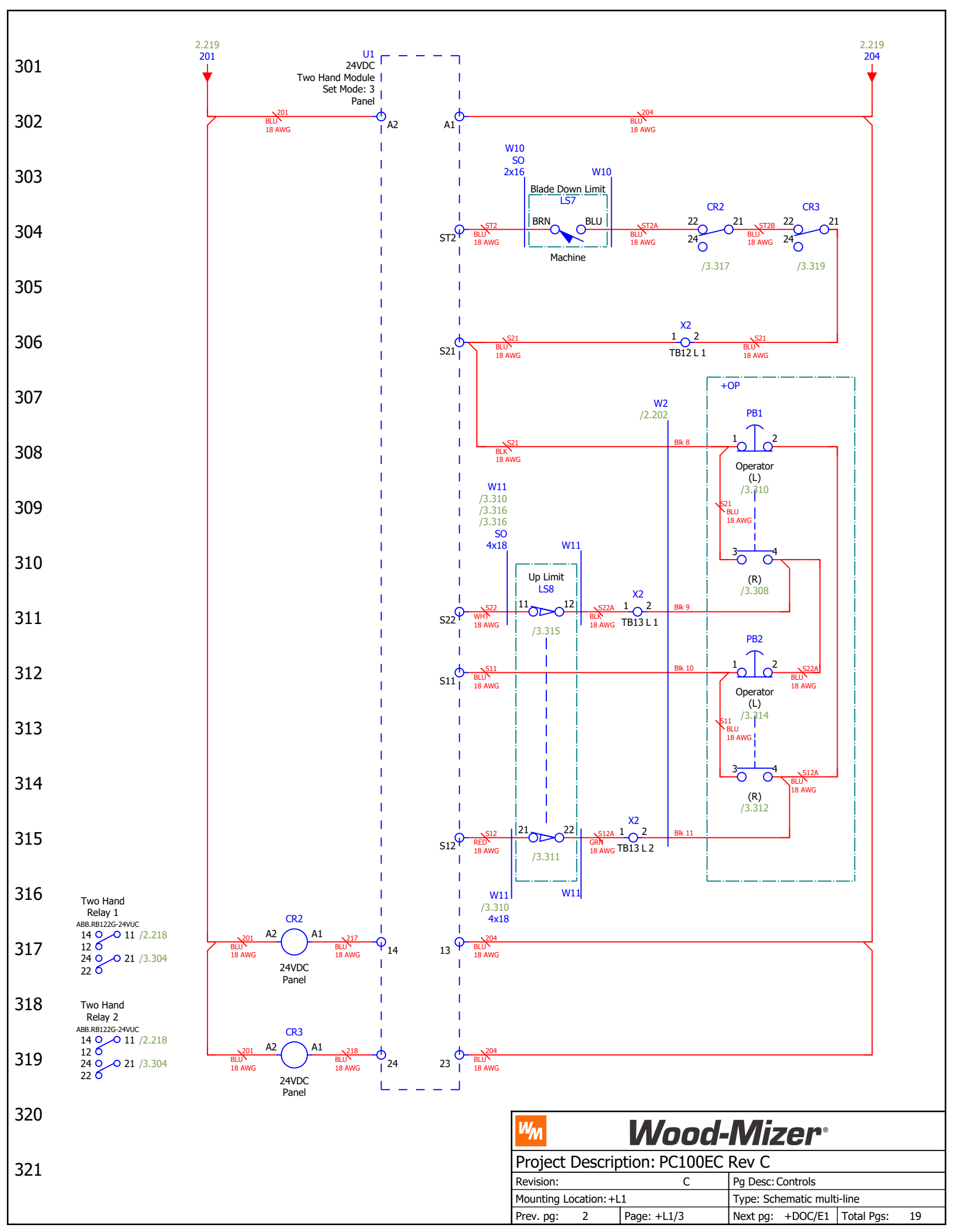
Structure identifier overview

Full designation	Labeling	Structure description
+EQ	Location designation	Machine
+L1	Location designation	Main Enclosure
+L2	Location designation	Operator Station
+L3	Location designation	Sub-Enclosure
+FLD	Location designation	Field Devices
+DOC	Location designation	Documentation
+DRW	Location designation	Drawings
+OP	Location designation	Operator


Wood-Mizer
Voltage 400/480VAC +4 / - 10%
Phase 3Ph
Frequency 50/60 Hz
FLA Machine 12.0/12.9A
FLA Largest Load 11.6/12.5A
Wiring Diagram PC100EH/EC
SCCR 42kA w/ Max 20A Class J Fuses 5kA w/ Other Protection
Q1 40A
1L1 3L2 5L3
2T1 4T2 6T3
X0 GND
1L1 BLK 14 AWG
1L2 BLK 14 AWG
1L3 BLK 14 AWG
X1 TB1
X1 TB3
X1 TB5
Q2
1/L1 2/T1
3/L2 4/T2
5/L3 6/T3
9-14A
[11.6A @ 400V]
[12.5A @ 480V]
06 08
05
/2.210
K1
/2.215
W1
SOOW
4x12
400 BLK 12 AWG
401 WHT 12 AWG
402 RED 12 AWG
GND GRN 12 AWG
M1
T1 T2 T3 PE
M
3 ~
10HP 230/460 25/12.5A
7.5HP 190/380V 23.2/11.6A
X3 PE1
G1
180-550VAC
24 VDC
2.5 A
MEAN WELL WDR
1~
F1
X1 TB2
X1 TB4
1L1 BLK 18 AWG
1L2 BLK 18 AWG
Class CC
2A
L1
L2
PE
V+
V-
200 / 2.201
201 / 2.201
DC OK 1
DC OK 2
X2 PE1
GND GRN 18 AWG
ENC
DOOR
Project Description: PC100EC Rev C
Revision: C
Pg Desc: Power
Mounting Location: +L1
Type: Schematic multi-line
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Revision: C		Pg Desc: Controls	
Mounting Location: +L1		Type: Schematic multi-line	
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24VDC
Two Hand Module
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A1
W10
SO
2x16
W10
Blade Down Limit
LS7
BRN
BLU
Machine
ST2
CR2
CR3
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S21
X2
TB12 L 1
+OP
W2
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PB1
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(L)
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LS8
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ABB.RB122G-24VUC
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11
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CR2
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Panel
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Two Hand
Relay 2
ABB.RB122G-24VUC
CR3
24VDC
Panel
24
23
Wood-Mizer
Project Description: PC100EC Rev C
Revision: C
Pg Desc: Controls
Mounting Location: +L1
Type: Schematic multi-line
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Page: +L1/3
Next pg: +DOC/E1
Total Pgs: 19

Wood-Mizer Parts List

Device Tag	LOC	Function	Manufacturer	Wood-Mizer Part Number	Description	Qty.	X-Ref
CR1	**L1**	Control Power Relay	ABB	121097	Relay, 2P 2C/O, 24VAC/DC Coil	1	+L1/2.205
CR2	**L1**	Two Hand Relay 1	ABB	121097	Relay, 2P 2C/O, 24VAC/DC Coil	1	+L1/3.317
CR3	**L1**	Two Hand Relay 2	ABB	121097	Relay, 2P 2C/O, 24VAC/DC Coil	1	+L1/3.319
F1	**L1**	DC Pwr Supply protection	Schneider Electric	052512	Fuse Holder, 2P Class CC Screw Clamp	1	+L1/1.112
F1	**L1**	=	Littelfuse	E22716	Fuse, 2A 600V Class CC	2	+L1/1.112
G1	**L1**	DC Pwr Supply	MeanWell	121307	Power Supply, 24VDC 60W 180-550V 1Ph	1	+L1/1.111
K1	**L1**	Blade Motor Starter	Schneider Electric	024911	Contactor, 18A 3P 24VDC Low Pwr Coil	1	+L1/2.215
LS1	**L1**	Front Access 1	Suns	121014	Safety Limit Switch, 1NO 1NC Plunger Snap-Action	1	+L1/2.207
LS2	**L1**	Front Access 2	Suns	121014	Safety Limit Switch, 1NO 1NC Plunger Snap-Action	1	+L1/2.207
LS3	**L1**	Back Access 1	Suns	121014	Safety Limit Switch, 1NO 1NC Plunger Snap-Action	1	+L1/2.207
LS4	**L1**	Back Access 2	Suns	121014	Safety Limit Switch, 1NO 1NC Plunger Snap-Action	1	+L1/2.207
LS5	**L1**	Blade Access 1	Suns	121014	Safety Limit Switch, 1NO 1NC Plunger Snap-Action	1	+L1/2.210
LS6	**L1**	Blade Access 2	Suns	121014	Safety Limit Switch, 1NO 1NC Plunger Snap-Action	1	+L1/2.210
LS7	**L1**	Blade Down Limit	Suns	121014	Safety Limit Switch, 1NO 1NC Plunger Snap-Action	1	+L1/3.304
LS8	**L1**	Up Limit	Schneider Electric	121136	Limit switch, XCKN, Roller lever, 2 NC snap contacts	1	+L1/3.311
M1	**L1**	Blade Motor	Marathon	130076	Motor, 3Ph 10HP 230/460 & 7.5HP 190/380V	1	+L1/1.104
Q1	**L1**	Main Pwr Disconnect	ABB	050903-1	Switch Disconnect, 40A 3Ph Non-Fused	1	+L1/1.102
Q1	**L1**	=	ABB	068464	Disconnect, 40A Terminal Shroud	1	+L1/1.102
Q1	**L1**	=	ABB	050883-1	Handle, Disconnect RED/YEL 6mm Shaft	1	+L1/1.102
Q1	**L1**	=	ABB	051673-1	Shaft, Disconnect 180mmx6mm	1	+L1/1.102
Q2	**L1**	Mtr Overload protection	Schneider Electric	078569	Motor Protector, 9-14A Manual	1	+L1/1.104
Q2	**L1**	=	Schneider Electric	073509	Auxiliary Contact, GVAM11 Short Circuit	1	+L1/1.104
Q2	**L1**	=	Schneider Electric	068098	Motor Protector, Line Side Barrier	1	+L1/1.104
Q2	**L1**	=	Schneider Electric	068099	Motor Protector, Interconnect LC1D09-25	1	+L1/1.104
U1	**L1**	Two Hand Module	DOLD	121100	2HNTD Safety Relay	1	+L1/3.301

Wood-Mizer Parts List

Device Tag	LOC	Function	Manufacturer	Wood-Mizer Part Number	Description	Qty.	X-Ref
LPB1	**OP**	Control Power	Schneider Electric	068909	Push-Button, Grn/Red Flush Illuminated	1	+L1/2.202
LPB1	**OP**	=	Schneider Electric	068920	Contact Block, NO ZB5	1	+L1/2.202
LPB1	**OP**	=	Schneider Electric	068950	Collar, Mount 1NC ZB5	1	+L1/2.202
LPB1	**OP**	=	Schneider Electric	052501	Boot, Clear Sealing ZB Sw	1	+L1/2.202
LPB1	**OP**	=	Schneider Electric	068912	Light Module, White ZB5	1	+L1/2.202
LPB2	**OP**	Blade Motor	Schneider Electric	068909	Push-Button, Grn/Red Flush Illuminated	1	+L1/2.212
LPB2	**OP**	=	Schneider Electric	068920	Contact Block, NO ZB5	1	+L1/2.212
LPB2	**OP**	=	Schneider Electric	068950	Collar, Mount 1NC ZB5	1	+L1/2.212
LPB2	**OP**	=	Schneider Electric	052501	Boot, Clear Sealing ZB Sw	1	+L1/2.212
LPB2	**OP**	=	Schneider Electric	068912	Light Module, White ZB5	1	+L1/2.212
PB1	**OP**	Up/Dn Control PB	Schneider Electric	050540	Contact, NC ZBE102	1	+L1/3.308
PB1	**OP**	=	Schneider Electric	068952	Collar, Mount 1NO ZB5	1	+L1/3.310
PB2	**OP**	=	Schneider Electric	052503	Switch Head, PB Green Flush Illum ZB5	1	+L1/3.312
PB2	**OP**	=	Schneider Electric	068952	Collar, Mount 1NO ZB5	1	+L1/3.312
PB2	**OP**	=	Schneider Electric	050540	Contact, NC ZBE102	1	+L1/3.312
S1	**OP**	E-Stop	Schneider Electric	068940	Pushbutton Head, 22mm E-Stop Twist-Pull	1	+L1/2.202
S1	**OP**	=	Schneider Electric	068950	Collar, Mount 1NC ZB5	1	+L1/2.202
S1	**OP**	=	Schneider Electric	050992	Legend, E-Stop, Round Yellow	1	+L1/2.202

Manufacturer Parts List

WM_PARTS_LIST-MFG_MntLocDynmc

Device Tag	LOC	Function	Manufacturer	Manufacturer Part Number	Description	Qty.	X-Ref
CR1	**L1**	Control Power Relay	ABB	RB122-24VUC	Relay, 2P 2C/O, 24VAC/DC Coil	1	+L1/2.205
CR2	**L1**	Two Hand Relay 1	ABB	RB122-24VUC	Relay, 2P 2C/O, 24VAC/DC Coil	1	+L1/3.317
CR3	**L1**	Two Hand Relay 2	ABB	RB122-24VUC	Relay, 2P 2C/O, 24VAC/DC Coil	1	+L1/3.319
F1	**L1**	DC Pwr Supply protection	Schneider Electric	DFCC2V	Fuse Holder, 2P Class CC Screw Clamp	1	+L1/1.112
F1	**L1**	=	Littelfuse	CCMR002	Fuse, 2A 600V Class CC	2	+L1/1.112
G1	**L1**	DC Pwr Supply	MeanWell	WDR-60-24	Power Supply, 24VDC 60W 180-550V 1Ph	1	+L1/1.111
K1	**L1**	Blade Motor Starter	Schneider Electric	LC1D18BL	Contactor, 18A 3P 24VDC Low Pwr Coil	1	+L1/2.215
LS1	**L1**	Front Access 1	Suns	SN3101-SP-A7	Safety Limit Switch, 1NO 1NC Plunger Snap-Action	1	+L1/2.207
LS2	**L1**	Front Access 2	Suns	SN3101-SP-A7	Safety Limit Switch, 1NO 1NC Plunger Snap-Action	1	+L1/2.207
LS3	**L1**	Back Access 1	Suns	SN3101-SP-A7	Safety Limit Switch, 1NO 1NC Plunger Snap-Action	1	+L1/2.207
LS4	**L1**	Back Access 2	Suns	SN3101-SP-A7	Safety Limit Switch, 1NO 1NC Plunger Snap-Action	1	+L1/2.207
LS5	**L1**	Blade Access 1	Suns	SN3101-SP-A7	Safety Limit Switch, 1NO 1NC Plunger Snap-Action	1	+L1/2.210
LS6	**L1**	Blade Access 2	Suns	SN3101-SP-A7	Safety Limit Switch, 1NO 1NC Plunger Snap-Action	1	+L1/2.210
LS7	**L1**	Blade Down Limit	Suns	SN3101-SP-A7	Safety Limit Switch, 1NO 1NC Plunger Snap-Action	1	+L1/3.304
LS8	**L1**	Up Limit	Schneider Electric	XCKN2918P20	Limit switch, XCKN, Roller lever, 2 NC snap contacts	1	+L1/3.311
M1	**L1**	Blade Motor	Marathon	215TTFBD6028	Motor, 3Ph 10HP 230/460 & 7.5HP 190/380V	1	+L1/1.104
Q1	**L1**	Main Pwr Disconnect	ABB	OT40F3	Switch Disconnect, 40A 3Ph Non-Fused	1	+L1/1.102
Q1	**L1**	=	ABB	OTS40T3	Disconnect, 40A Terminal Shroud	1	+L1/1.102
Q1	**L1**	=	ABB	OHYS2AJ	Handle, Disconnect RED/YEL 6mm Shaft	1	+L1/1.102
Q1	**L1**	=	ABB	OXS6X180	Shaft, Disconnect 180mmx6mm	1	+L1/1.102
Q2	**L1**	Mtr Overload protection	Schneider Electric	GV2P16	Motor Protector, 9-14A Manual	1	+L1/1.104
Q2	**L1**	=	Schneider Electric	GVAM11	Auxiliary Contact, GVAM11 Short Circuit	1	+L1/1.104
Q2	**L1**	=	Schneider Electric	GV2GH7	Motor Protector, Line Side Barrier	1	+L1/1.104
Q2	**L1**	=	Schneider Electric	GV2AF3	Motor Protector, Interconnect LC1D09-25	1	+L1/1.104
U1	**L1**	Two Hand Module	DOLD	UG6980-02PS-61-24	2HNTD Safety Relay	1	+L1/3.301

Manufacturer Parts List

Device Tag	LOC	Function	Manufacturer	Manufacturer Part Number	Description	Qty.	X-Ref
LPB1	**OP**	Control Power	Schneider Electric	ZB5 AW7A3741	Push-Button, Grn/Red Flush Illuminated	1	+L1/2.202
LPB1	**OP**	=	Schneider Electric	ZBE1015	Contact Block, NO ZB5	1	+L1/2.202
LPB1	**OP**	=	Schneider Electric	ZB5AZ1025	Collar, Mount 1NC ZB5	1	+L1/2.202
LPB1	**OP**	=	Schneider Electric	ZBA710	Boot, Clear Sealing ZB Sw	1	+L1/2.202
LPB1	**OP**	=	Schneider Electric	ZBVB15	Light Module, White ZB5	1	+L1/2.202
LPB2	**OP**	Blade Motor	Schneider Electric	ZB5 AW7A3741	Push-Button, Grn/Red Flush Illuminated	1	+L1/2.212
LPB2	**OP**	=	Schneider Electric	ZBE1015	Contact Block, NO ZB5	1	+L1/2.212
LPB2	**OP**	=	Schneider Electric	ZB5AZ1025	Collar, Mount 1NC ZB5	1	+L1/2.212
LPB2	**OP**	=	Schneider Electric	ZBA710	Boot, Clear Sealing ZB Sw	1	+L1/2.212
LPB2	**OP**	=	Schneider Electric	ZBVB15	Light Module, White ZB5	1	+L1/2.212
PB1	**OP**	Up/Dn Control PB	Schneider Electric	ZBE102	Contact, NC ZBE102	1	+L1/3.308
PB1	**OP**	=	Schneider Electric	ZB5AZ1015	Collar, Mount 1NO ZB5	1	+L1/3.310
PB2	**OP**	=	Schneider Electric	ZB5AW333	Switch Head, PB Green Flush Illum ZB5	1	+L1/3.312
PB2	**OP**	=	Schneider Electric	ZB5AZ1015	Collar, Mount 1NO ZB5	1	+L1/3.312
PB2	**OP**	=	Schneider Electric	ZBE102	Contact, NC ZBE102	1	+L1/3.312
S1	**OP**	E-Stop	Schneider Electric	ZB5AS844	Pushbutton Head, 22mm E-Stop Twist-Pull	1	+L1/2.202
S1	**OP**	=	Schneider Electric	ZB5AZ1025	Collar, Mount 1NC ZB5	1	+L1/2.202
S1	**OP**	=	Schneider Electric	ZBY9320	Legend, E-Stop, Round Yellow	1	+L1/2.202

Wood-Mizer Cable List

Cable Designation	LOC	Cable Manufacturer	Cable PN WM Base	Cable PN WM Assembly	Cable Description	Cable Application	Cable X-Ref
W1	**L1**	Miscellaneous	R01931-3	121149	Cable, 12-4 SOOW	Motor Cable	+L1/1.104
W2	**L1**	SAB North America	053488	121152	Cable, 18AWG/12C High-Flex	Operator Cable	+L1/2.202
W9	**L1**	Phoenix Contact	025233	121157	Cable, 10M Form C Din 24Vdc W/LED PUR	SOL1 Cable	+L1/2.216
W11	**L1**	Miscellaneous	R01915-16	121159	Wire, 18/4 SO	Up Limit Cable	+L1/3.310

Manufacturer Cable List

Cable Designation	**LOC**	**Cable** Manufacturer	**Cable PN** Manfacturer	**Cable** Description	Application	**Cable** X-Ref
W1	**L1**	Miscellaneous	4A-1204	Cable, 12-4 SOOW	Motor Cable	+L1/1.104
W2	**L1**	SAB North America	2041812	Cable, 18AWG/12C High-Flex	Operator Cable	+L1/2.202
W9	**L1**	Phoenix Contact	1435713	Cable, 10M Form C Din 24Vdc W/LED PUR	SOL1 Cable	+L1/2.216
W11	**L1**	Miscellaneous	4A-1804	Wire, 18/4 SO	Up Limit Cable	+L1/3.310

Terminal line-up diagram

Terminal strip +L1-X1

Terminal				Jumper		End Plate	Remark	Terminal
Ref. Des.	Level	P/N	Description	Diagram	P/N	P/N		X-Ref
TB1	0							/1.04
TB2	0	121007	Terminal Block, 2Pos 16mm Orange					/1.12
TB3	0							/1.05
TB4	0	121007	Terminal Block, 2Pos 16mm Orange					/1.13
TB5	0							/1.06

Terminal line-up diagram

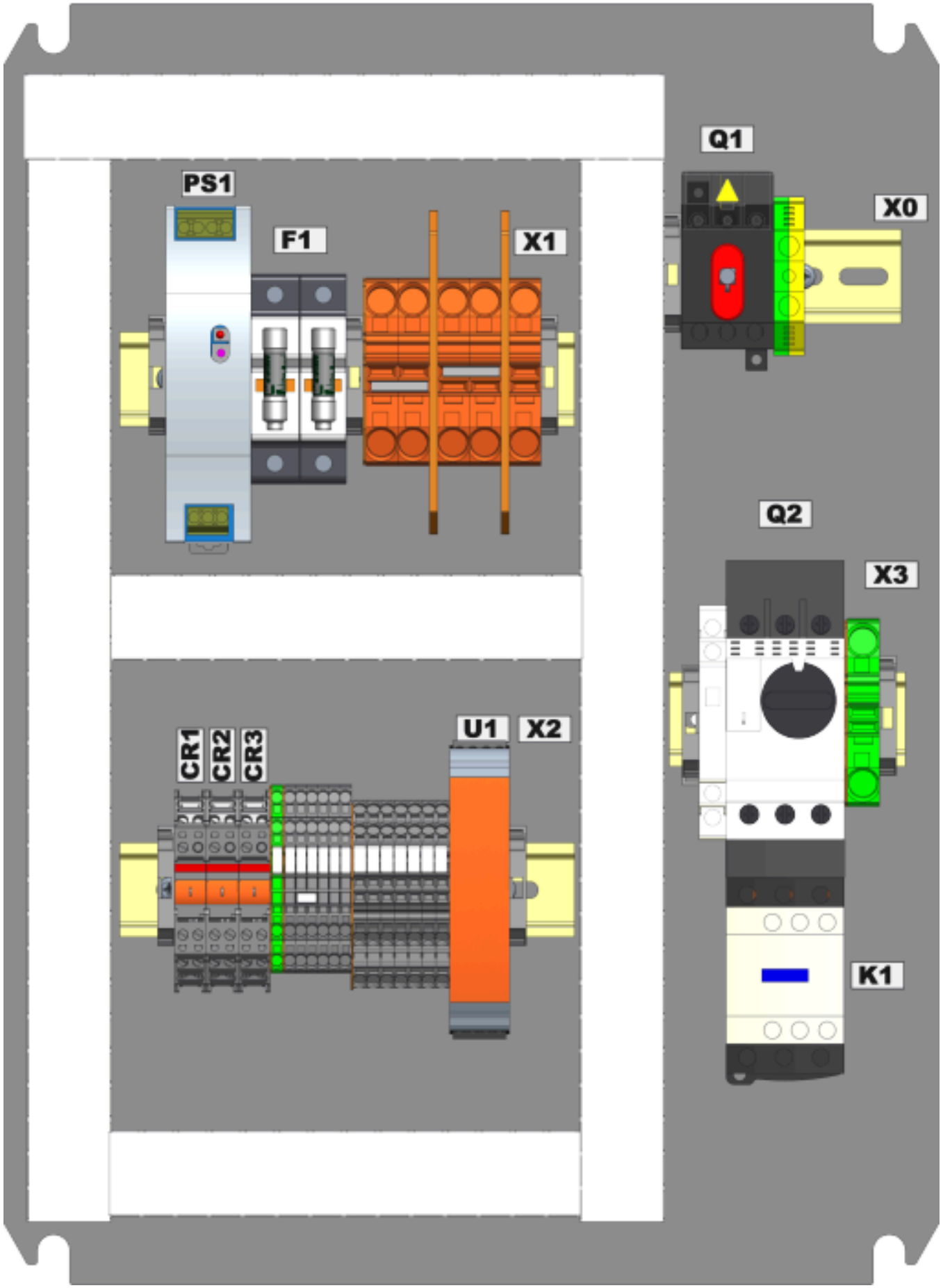
Terminal strip +L1-X2

Terminal				Jumper		End Plate	Remark	Terminal
Ref. Des.	Level	P/N	Description	Diagram	P/N	P/N		X-Ref
PE1	0							/1.15
TB1	0	068103	Terminal Block, 4pos 1.5mm Com Clamp			068105		/2.02
TB2	0	068103	Terminal Block, 4pos 1.5mm Com Clamp		068113			/2.02
TB3	0	068103	Terminal Block, 4pos 1.5mm Com Clamp					/2.18
TB4	0	068103	Terminal Block, 4pos 1.5mm Com Clamp					/2.04
TB5	0	068103	Terminal Block, 4pos 1.5mm Com Clamp					/2.07
TB6	0	068103	Terminal Block, 4pos 1.5mm Com Clamp					/2.15
TB7	1	068119	Terminal Block, 2 Tier 2.5mm Clamp					/2.05
TB7	2							/2.10
TB8	1	068119	Terminal Block, 2 Tier 2.5mm Clamp					/2.07
TB8	2							/2.07
TB9	1	068119	Terminal Block, 2 Tier 2.5mm Clamp					/2.07
TB9	2							/2.10
TB10	1	068119	Terminal Block, 2 Tier 2.5mm Clamp					/2.10
TB10	2							/2.10
TB:11	1	068119	Terminal Block, 2 Tier 2.5mm Clamp					/2.15
TB11	2							/2.18
TB12	1	068119	Terminal Block, 2 Tier 2.5mm Clamp					/3.06
	2							
TB13	1	068119	Terminal Block, 2 Tier 2.5mm Clamp					/3.11
TB13	2							/3.15

Terminal line-up diagram

Terminal strip +L1-X3

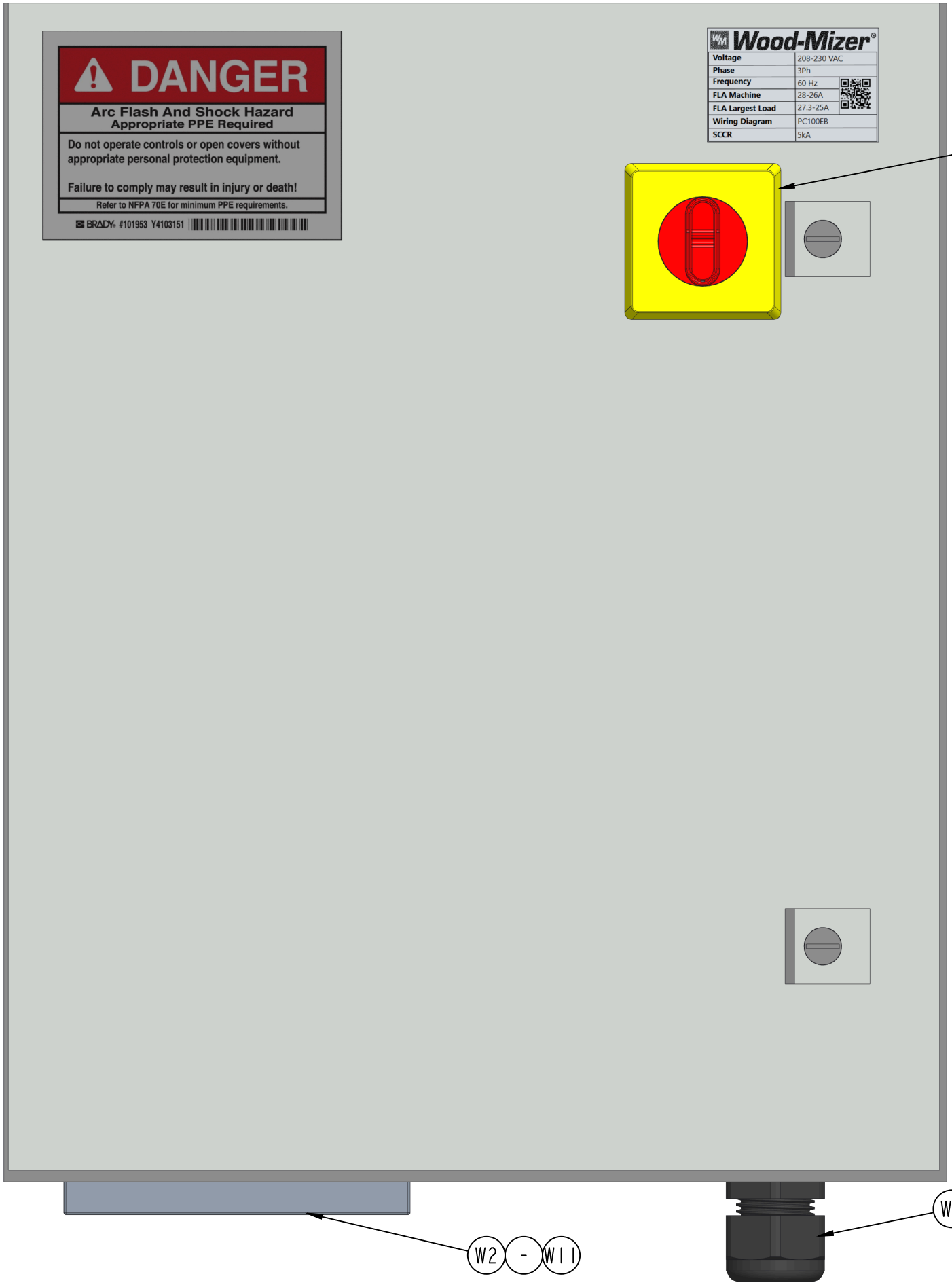
Terminal				Jumper		End Plate	Remark	Terminal
Ref. Des.	Level	P/N	Description	Diagram	P/N	P/N		X-Ref
PE1	0	068104	Terminal Block, 4pos 1.5mm GND Clamp	'				/1.08



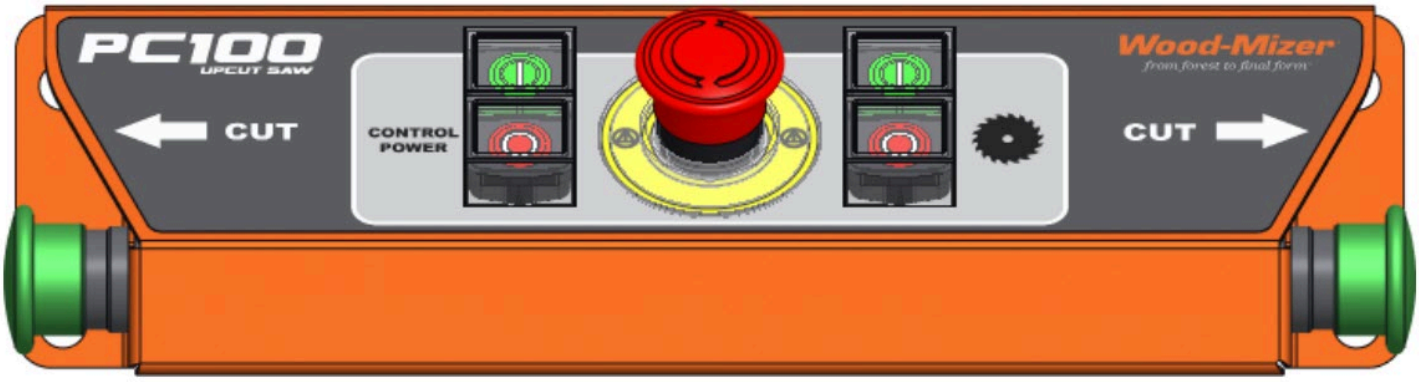
Wood-Mizer®

Project Description: PC100EC Rev C

Revision: C		Pg Desc: L1 Insert Assy	
Mounting Location: +DRW/1		Type: Panel layout	
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Revision: C		Pg Desc: L1 Control Assy	
Mounting Location: +DRW/2		Type: Panel layout	
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Wood-Mizer®			
Project Description: PC100EC Rev C			
Revision: C		Pg Desc: OP Operator Assy	
Mounting Location: +DRW/3		Type: Panel layout	
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