

ELECTRICAL INFORMATION

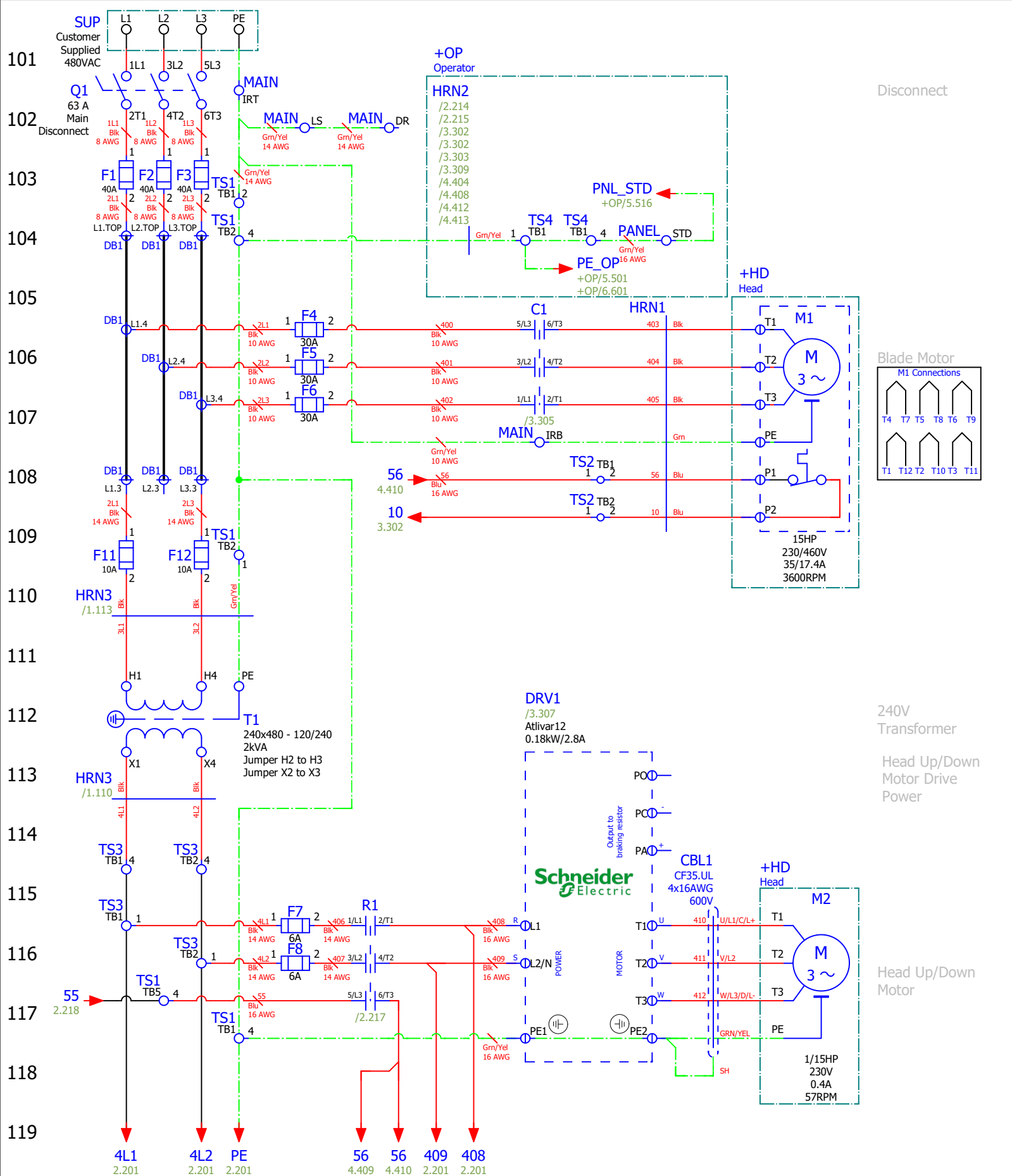
HR130EC15-1 Rev. A6.05+

HR130EB15-1 Rev. A6.05+

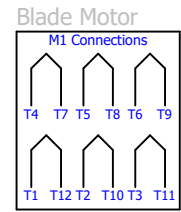
APPENDIX B ELECTRICAL INFORMATION

HR130EC15-1

Rev. A6.05+



Disconnect



240V Transformer

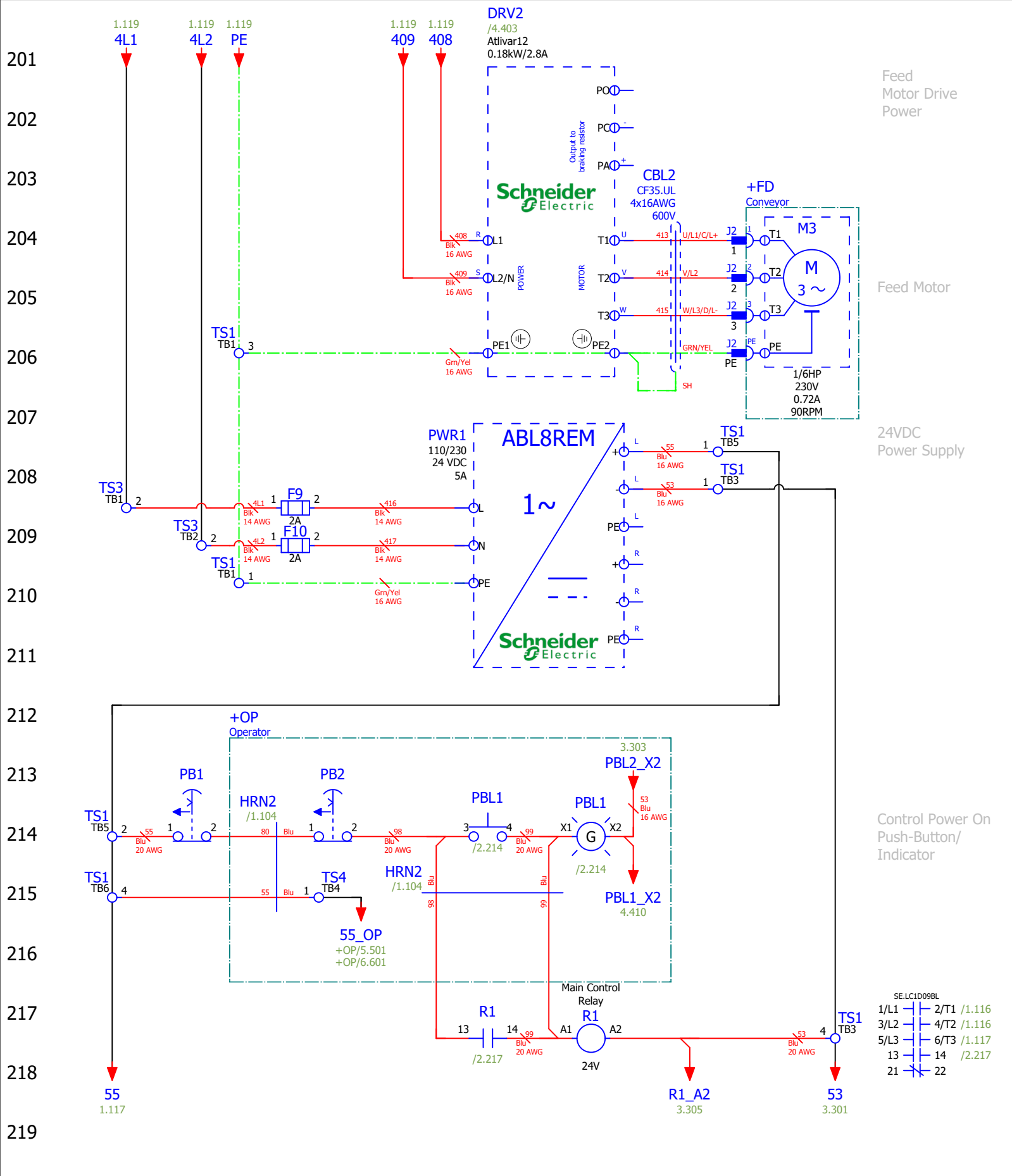
Head Up/Down Motor Drive Power

Head Up/Down Motor

Wood-Mizer®

Project Description: HR130EC15-1

Revision:	A6.02	Pg Desc:	Power Pg 1
Mounting Location:	+MAIN	Type:	Schematic multi-line
Prev. pg:	+/B1	Page:	1
		Next pg:	2
		Total Pgs:	22



Feed
Motor Drive
Power

Feed Motor

24VDC
Power Supply

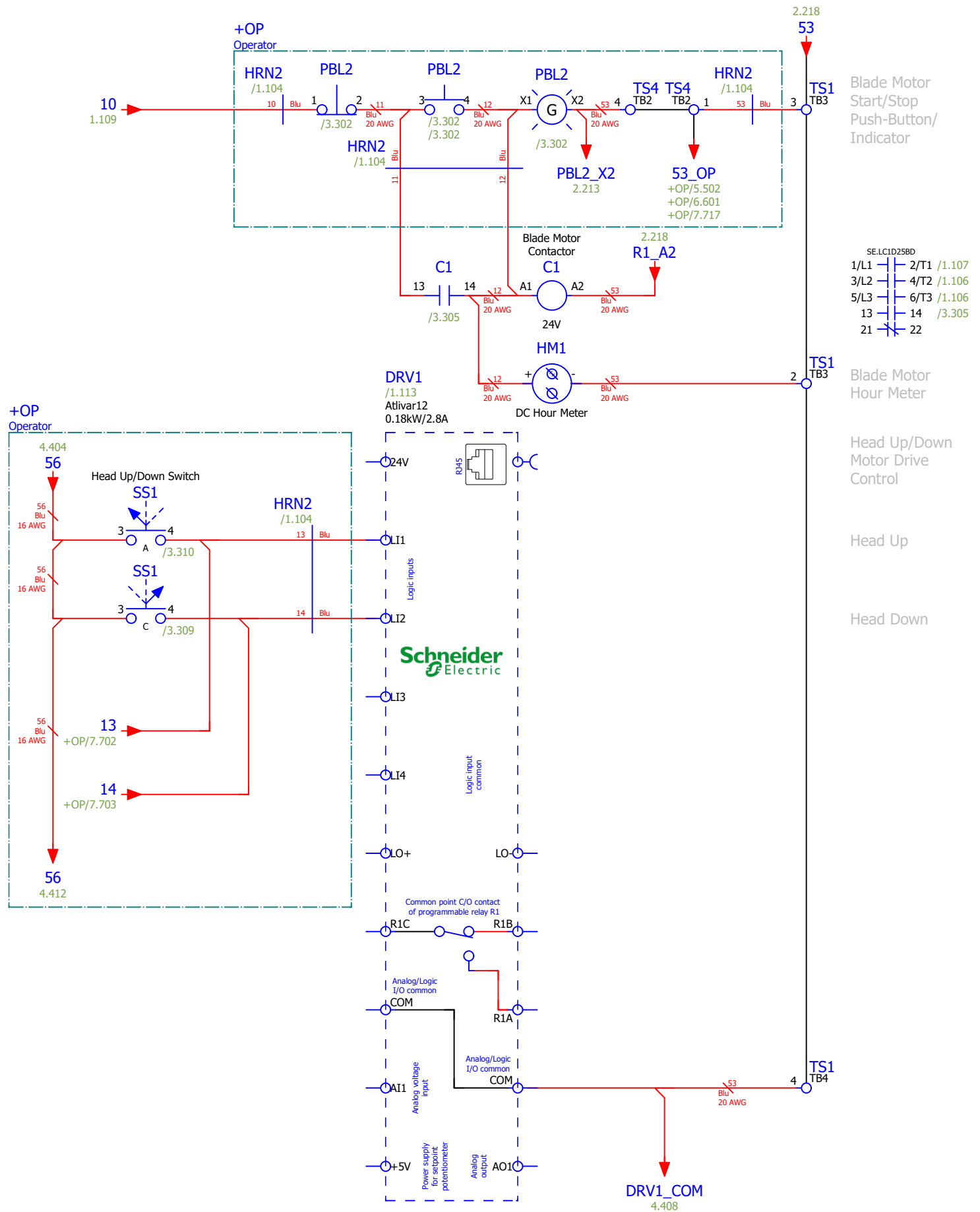
Control Power On
Push-Button/
Indicator

WM **Wood-Mizer®**

Project Description: HR130EC15-1

Revision:	A6.02	Pg Desc:	Power Pg 2
Mounting Location:	+MAIN	Type:	Schematic multi-line
Prev. pg:	1	Page:	2
Next pg:	3	Total Pgs:	22

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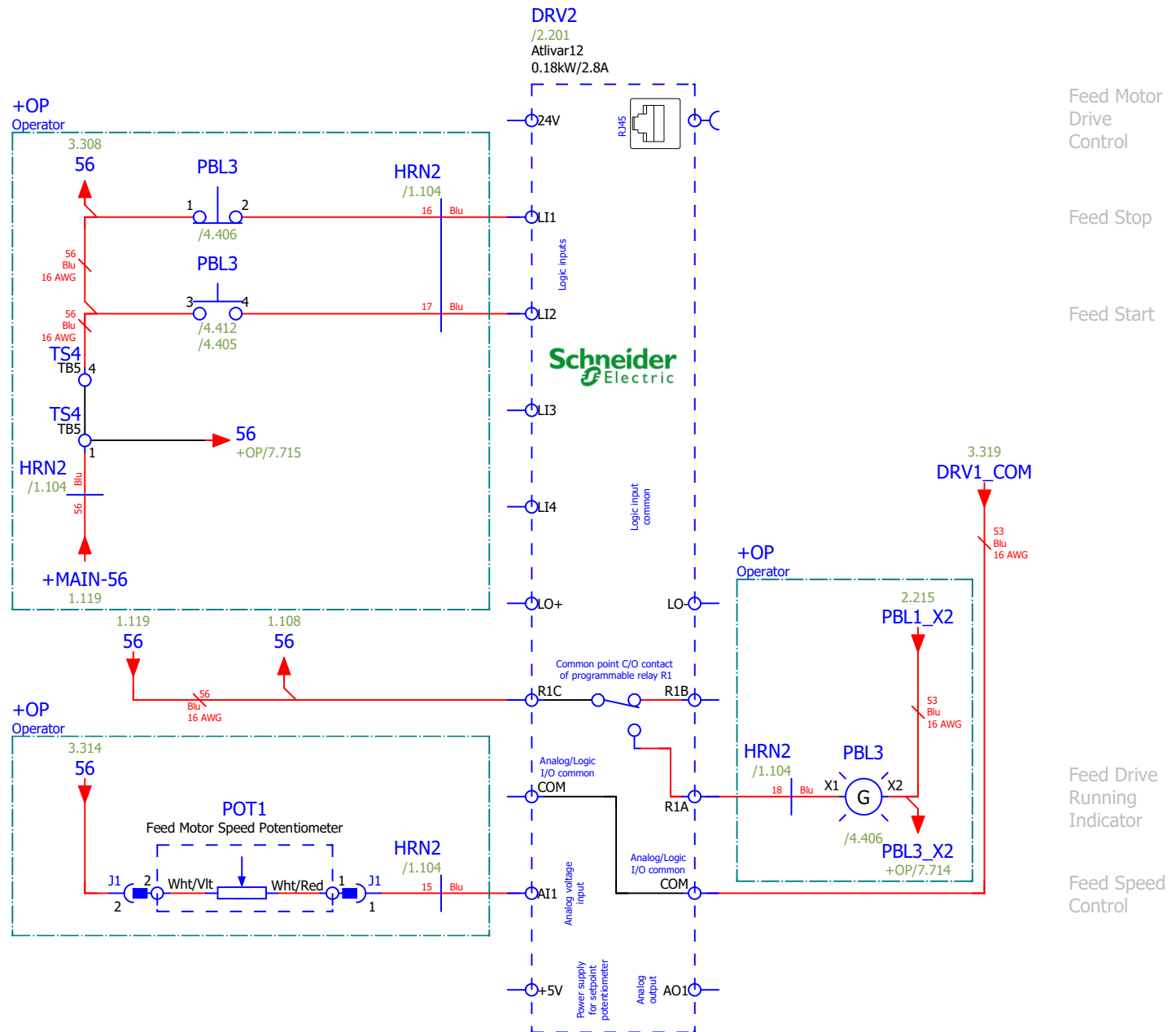


WM **Wood-Mizer®**

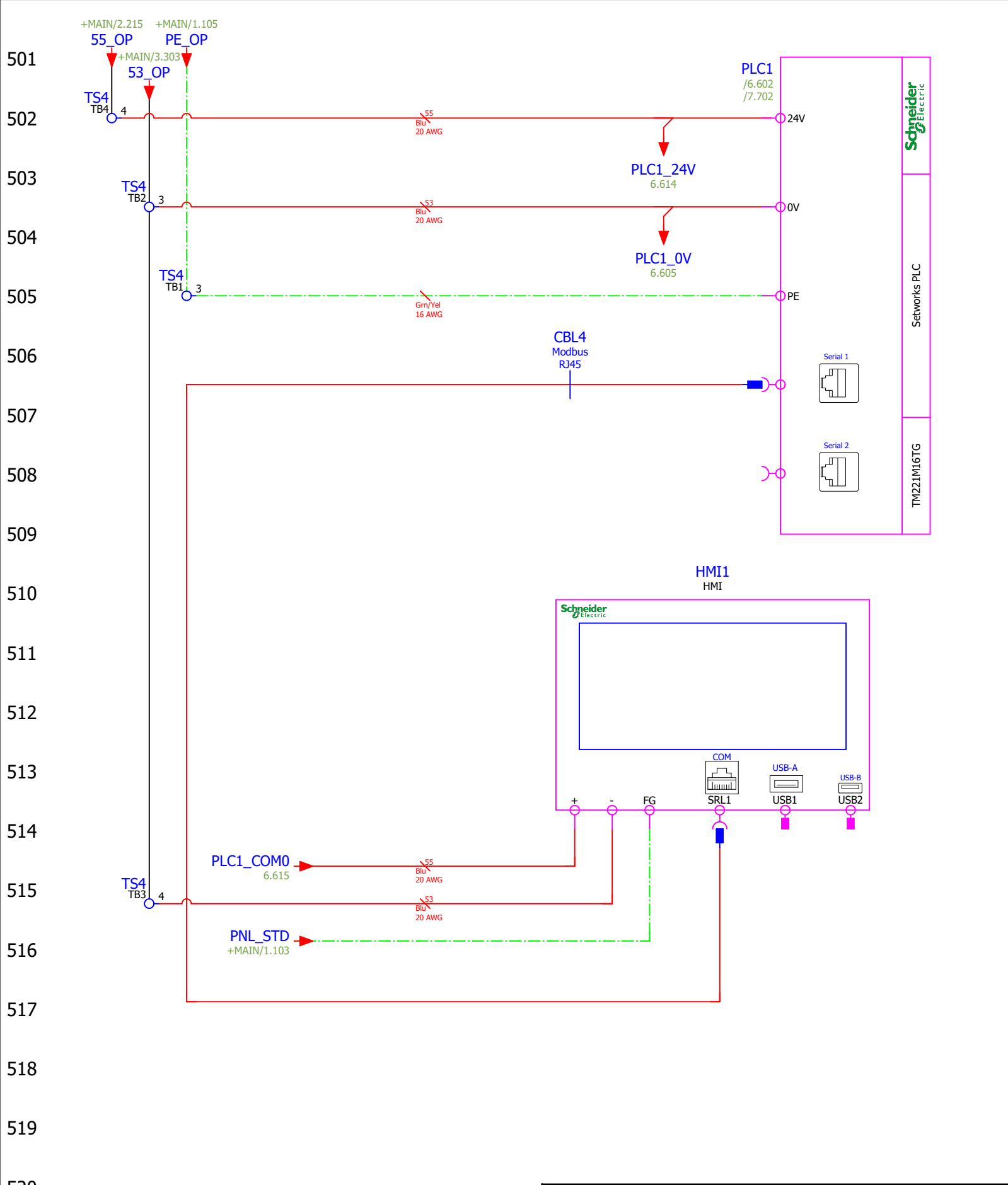
Project Description: HR130EC15-1

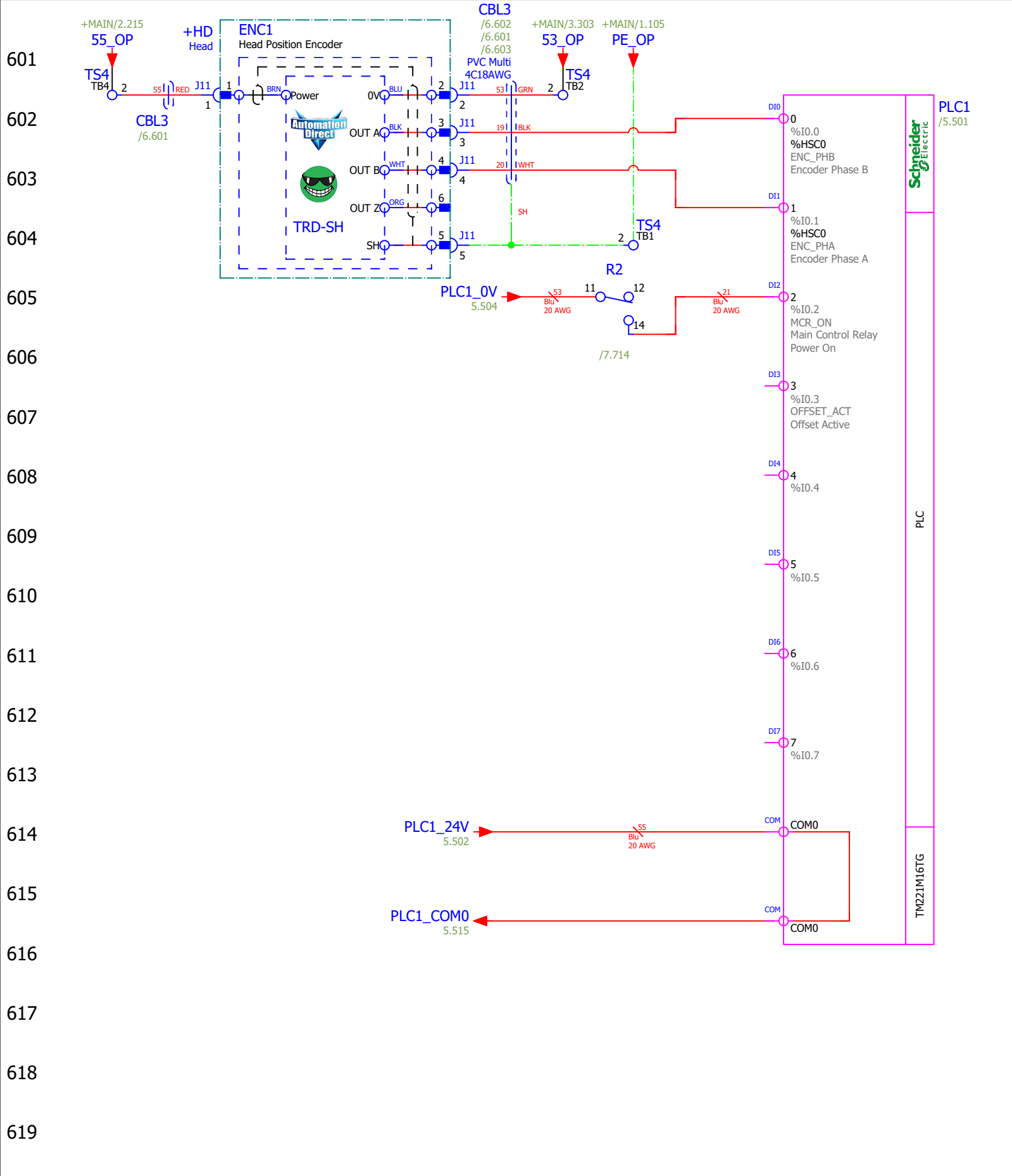
Revision: A6.02	Pg Desc: Control Pg 1
Mounting Location: +MAIN	Type: Schematic multi-line
Prev. pg: 2	Page: 3
Next pg: 4	Total Pgs: 22

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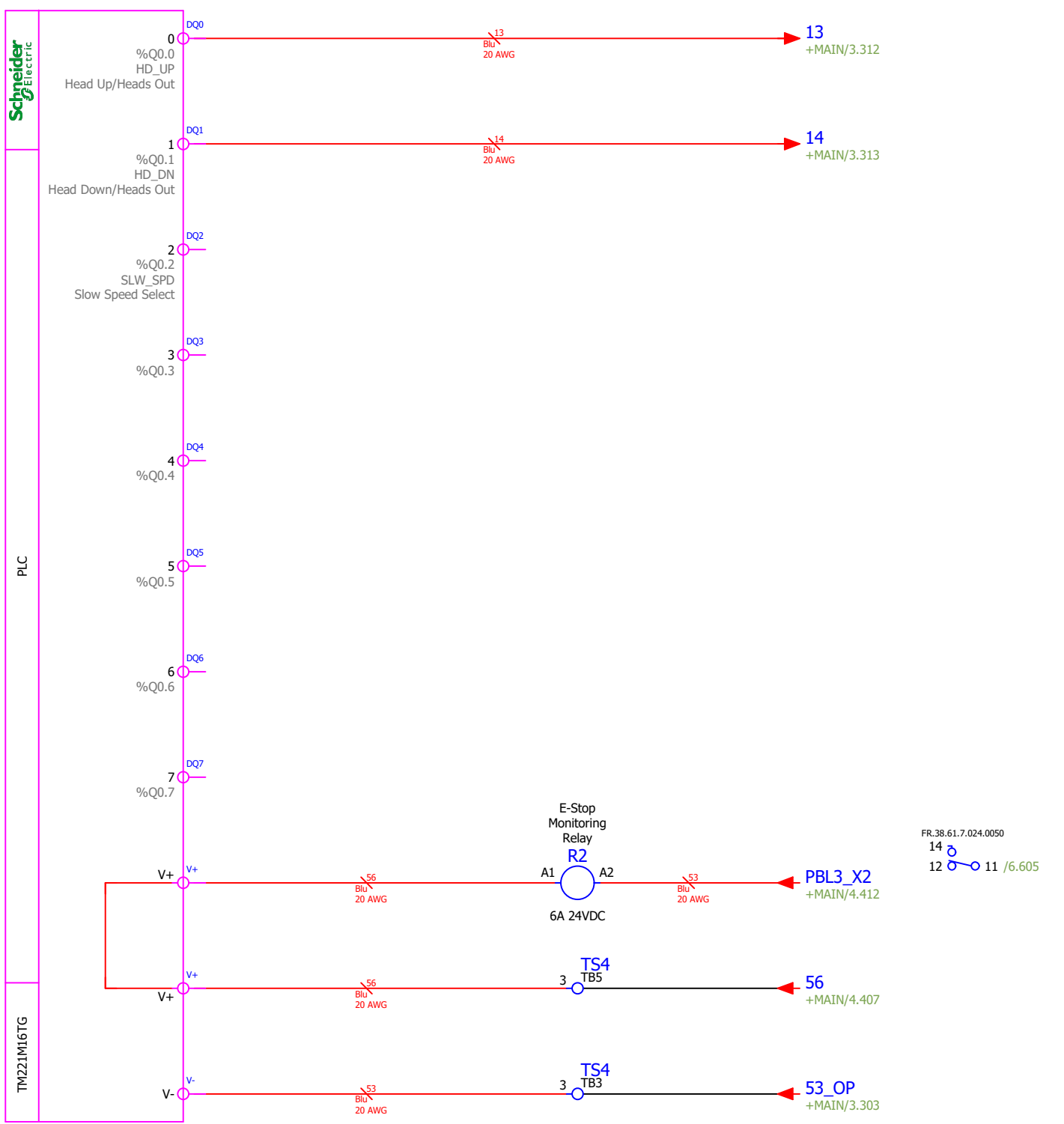
Feed Motor Drive Control
Feed Stop
Feed Start
Feed Drive Running Indicator
Feed Speed Control





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PLC1
/5.501

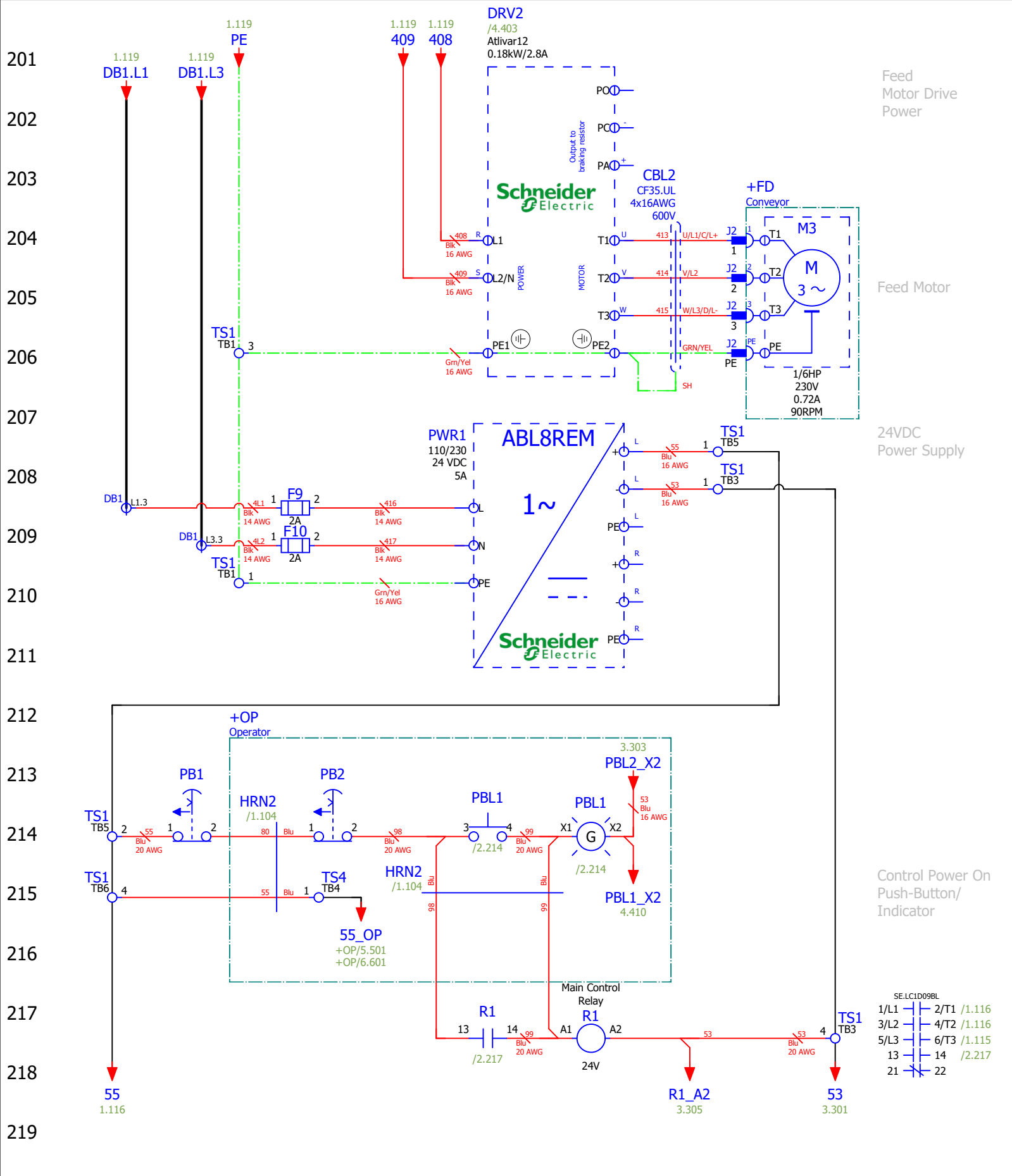


Device Tag/Parts List

WM_PARTS_LIST-Manual

Device tag	Function	Wood-Mizer Part Number	Wood-Mizer Description	Qty.	X-Ref
C1	Blade Motor Contactor	051322	Contacto, 25A 3P 24VDC Coil	1	+MAIN/3.305
DB1	Distribution Block	069701	Distribution Block, 3P 1 to 4	1	+MAIN/1.104
DRV1	Head Up/Down Motor Drive Power	069799	AC Drive Assy, HR130 Up/Down w/Software	1	+MAIN/1.113
DRV2	Feed Motor Drive Power	069800	Drive Assy, HR130 Feed w/Software	1	+MAIN/2.201
ENC1	Head Position Encoder	069840	Encoder Assy, HR130 Setworks	1	+OP/6.601
F1	Main L1 Fuse	053717	Fuseholder, 60A Cube	1	+MAIN/1.103
F1	=	069702	Fuse, 40A Class J Cube	1	+MAIN/1.103
F2	Main L2 Fuse	053717	Fuseholder, 60A Cube	1	+MAIN/1.103
F2	=	069702	Fuse, 40A Class J Cube	1	+MAIN/1.103
F3	Main L3 Fuse	053717	Fuseholder, 60A Cube	1	+MAIN/1.103
F3	=	069702	Fuse, 40A Class J Cube	1	+MAIN/1.103
F4	Blade Motor L1 Fuse	053736	Fuseholder, Cube 30A	1	+MAIN/1.106
F4	=	053737	Fuse, 30A Class J Cube	1	+MAIN/1.106
F5	Blade Motor L2 Fuse	053736	Fuseholder, Cube 30A	1	+MAIN/1.106
F5	=	053737	Fuse, 30A Class J Cube	1	+MAIN/1.106
F6	Blade Motor L3 Fuse	053736	Fuseholder, Cube 30A	1	+MAIN/1.107
F6	=	053737	Fuse, 30A Class J Cube	1	+MAIN/1.107
F7	Up/Down Motor Drive L1 Fuse	052512	Fuse Holder, 2P Class CC Screw Clamp	1	+MAIN/1.116
F7	=	052456	Fuse, 6A 600V Calss CC Delay	1	+MAIN/1.116
F8	Up/Down Motor Drive L2 Fuse	052456	Fuse, 6A 600V Calss CC Delay	1	+MAIN/1.116
F9	Power Supply L1 Fuse	052512	Fuse Holder, 2P Class CC Screw Clamp	1	+MAIN/2.209
F9	=	E22716	Fuse, 2A 600V Class CC	1	+MAIN/2.209
F10	Power Supply N Fuse	E22716	Fuse, 2A 600V Class CC	1	+MAIN/2.209
F11	Transformer H1 Fuse	052512	Fuse Holder, 2P Class CC Screw Clamp	1	+MAIN/1.109
F11	=	051957	Fuse, 10A 600V Class CC Delay	1	+MAIN/1.109
F12	Transformer H4 Fuse	051957	Fuse, 10A 600V Class CC Delay	1	+MAIN/1.109
HM1	Blade Motor Hour Meter	015401	Digital Meter, Hour Rect Mount w/Gasket	1	+MAIN/3.306
HMI1	HMI	112566.3	HMI Assy, PLC Setworks	1	+OP/5.510
M1	Blade Motor	130000	Motor, 15HP 3530RPM Marathon Premium Eff	1	+MAIN/1.105
M2	Head Up/Down Motor	025696	Motor, 1/15HP 57RPM 230V 3PH 30:1 Gear	1	+MAIN/1.116
M3	Feed Motor	073702	Motor, Leeson 0.167HP 230V 90RPM	1	+MAIN/2.204
PB1	Main E-Stop Push-Button	025161	Switch Body, 1NC 22mm ZB4	1	+MAIN/2.214
PB1	=	024945	Switch, PB E-Stop Maintnd Red 22mm ZB4	1	+MAIN/2.214
PB1	=	050992	Legend, E-Stop, Round Yellow	1	+MAIN/2.214
PB2	Operator E-Stop Push-Button	025161	Switch Body, 1NC 22mm ZB4	1	+MAIN/2.214
PB2	=	024945	Switch, PB E-Stop Maintnd Red 22mm ZB4	1	+MAIN/2.214
PB2	=	050992	Legend, E-Stop, Round Yellow	1	+MAIN/2.214
PBL1	Control Power On Push-Button	024974-3	Switch, PB Grn 22mm 1NO/1NC LED 24V XB4	1	+MAIN/2.214
PBL2	Blade Motor Start/Stop Push-Button	025236-31	Switch Body, 22mm Grn LED 1 NO 24V ZB4	1	+MAIN/3.302
PBL2	=	051746	Switch Operator, 2 Button w/Pilot Red/Gr	1	+MAIN/3.302
PBL2	=	050540	Contact, NC ZBE102	1	+MAIN/3.302
PBL2	=	052501	Boot, Clear Sealing ZB Sw	1	+MAIN/3.302
PBL3	Feed Motor Start/Stop Push-Button	025236-31	Switch Body, 22mm Grn LED 1 NO 24V ZB4	1	+MAIN/4.406
PBL3	=	051746	Switch Operator, 2 Button w/Pilot Red/Gr	1	+MAIN/4.406
PBL3	=	050540	Contact, NC ZBE102	1	+MAIN/4.406
PBL3	=	052501	Boot, Clear Sealing ZB Sw	1	+MAIN/4.406
PLC1	Setworks PLC	069849-3	PLC Ass, PLC Setworks	1	+OP/5.501
POT1	Feed Motor Speed Potentiometer	025200	Pot Assy, 4-20mA 24V W/conn	1	+MAIN/4.413
POT1	=	033476	O-Ring, 7/32 IN #009	2	+MAIN/4.413
POT1	=	033478	Knob, 1/4 ID Fluted Round Plastic	1	+MAIN/4.413
PWR1	24VDC Power Supply	069703	Power Supply, 24VDC 5A 110/230	1	+MAIN/2.207
Q1	Main Disconnect	050881-1	Disconnect, 63A 600V 3P 6mm Shaft	1	+MAIN/1.102
Q1	=	050908-1	Shaft, 290mm Pistol Grip Disconnect	1	+MAIN/1.102
Q1	=	050907-1	Handle, Disconnect Red/Yel Pistol Grip	1	+MAIN/1.102
R1	Main Control Relay	024890	Contacto, 9A 3P 24VDC Coil	1	+MAIN/2.217
R2	E-Stop Monitoring Relay	069883	Relay, 6A 24VDC w/ Cage Clamp Socket	1	+OP/7.714
SS1	Head Up/Down Switch	050545	Base, 2NO Contact	1	+MAIN/3.309

		Wood-Mizer®	
Project Description: HR130EC15-1			
Revision:	A6.02	Pg Desc: Parts list	
Mounting Location: +Docs		Type: Parts list	
Prev. pg: +OP/7	Page: C1	Next pg: C2	Total Pgs: 22



Feed
Motor Drive
Power

Feed Motor

24VDC
Power Supply

Control Power On
Push-Button/
Indicator

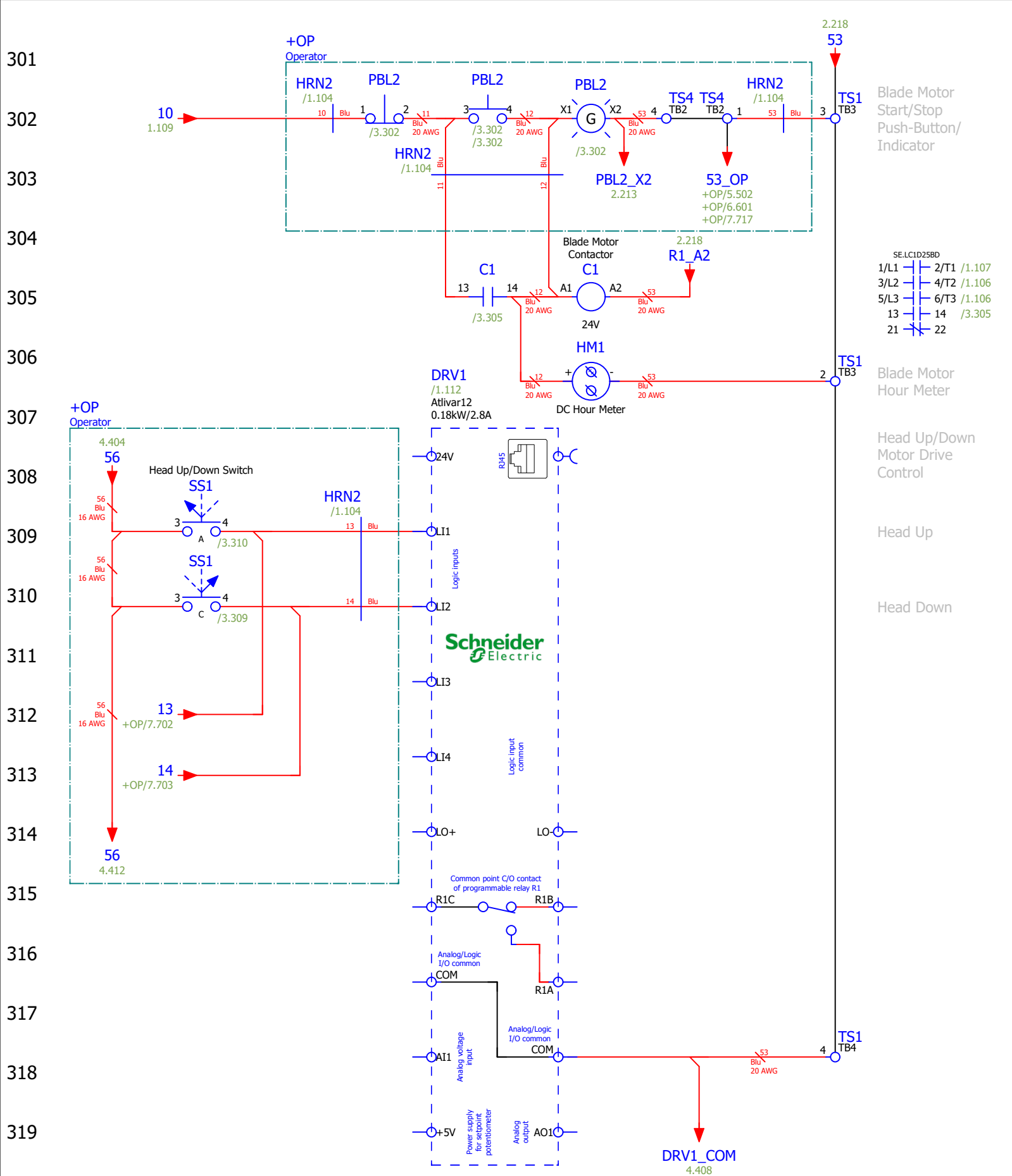
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13	14	/2.217
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Project Description: HR130EB15-1

Revision:	A6.02	Pg Desc: Power Pg 2
Mounting Location: +MAIN		Type: Schematic multi-line
Prev. pg:	1	Page: 2
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		Total Pgs: 20



Blade Motor Start/Stop Push-Button/Indicator

SE.LCID258D
 1/L1 --- 2/T1 /1.107
 3/L2 --- 4/T2 /1.106
 5/L3 --- 6/T3 /1.106
 13 --- 14 /3.305
 21 --- 22

Blade Motor Hour Meter

Head Up/Down Motor Drive Control

Head Up

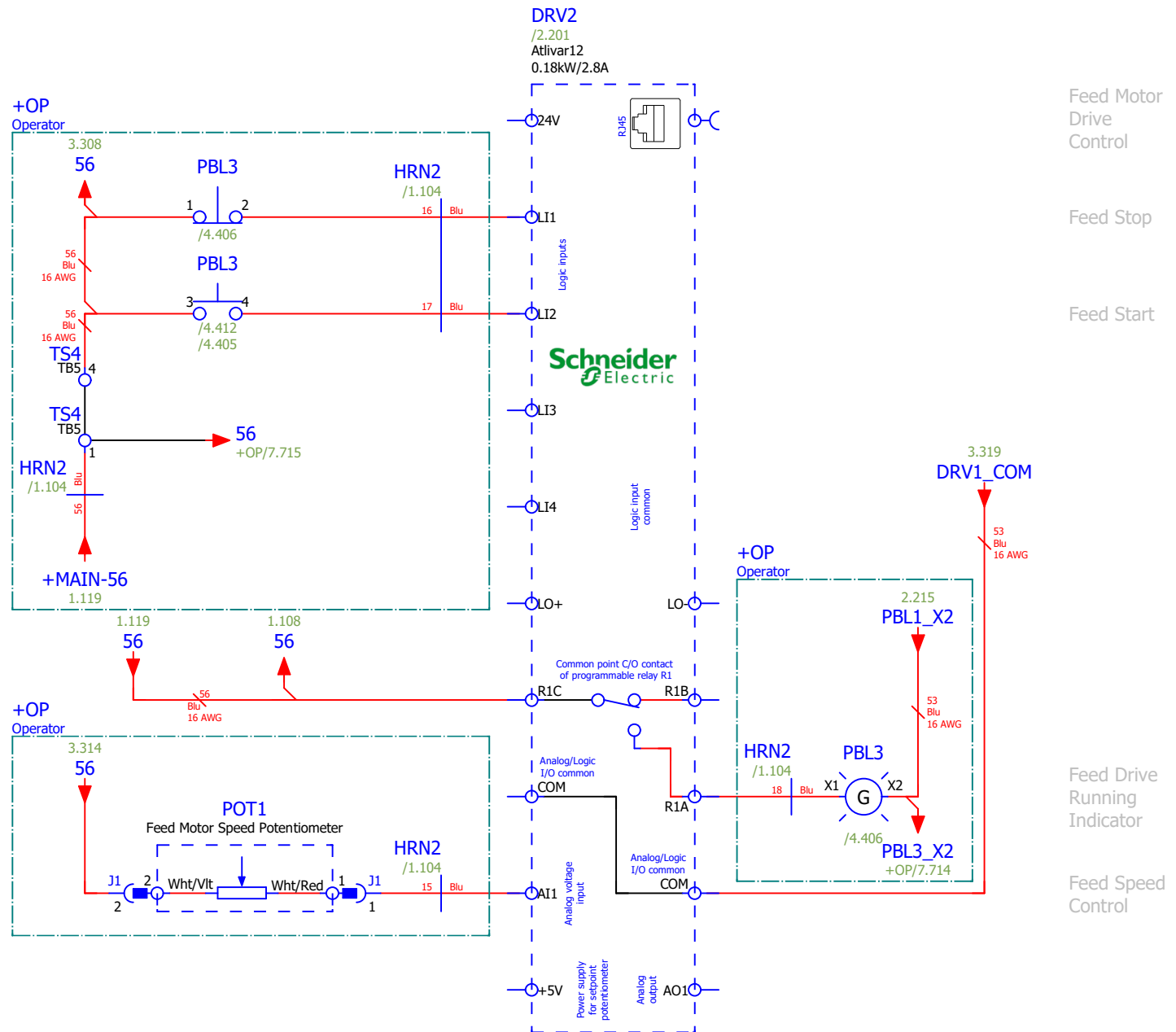
Head Down

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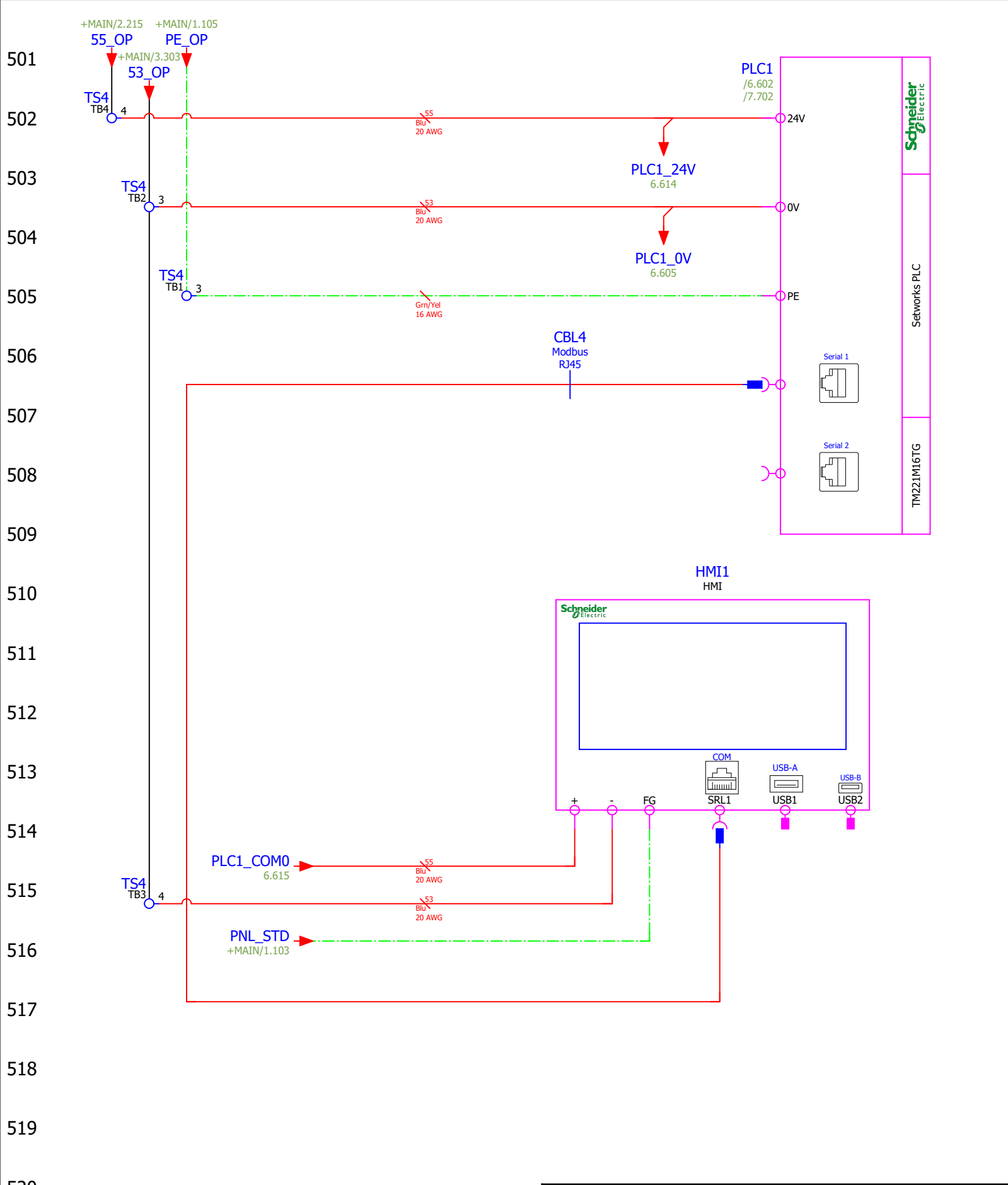
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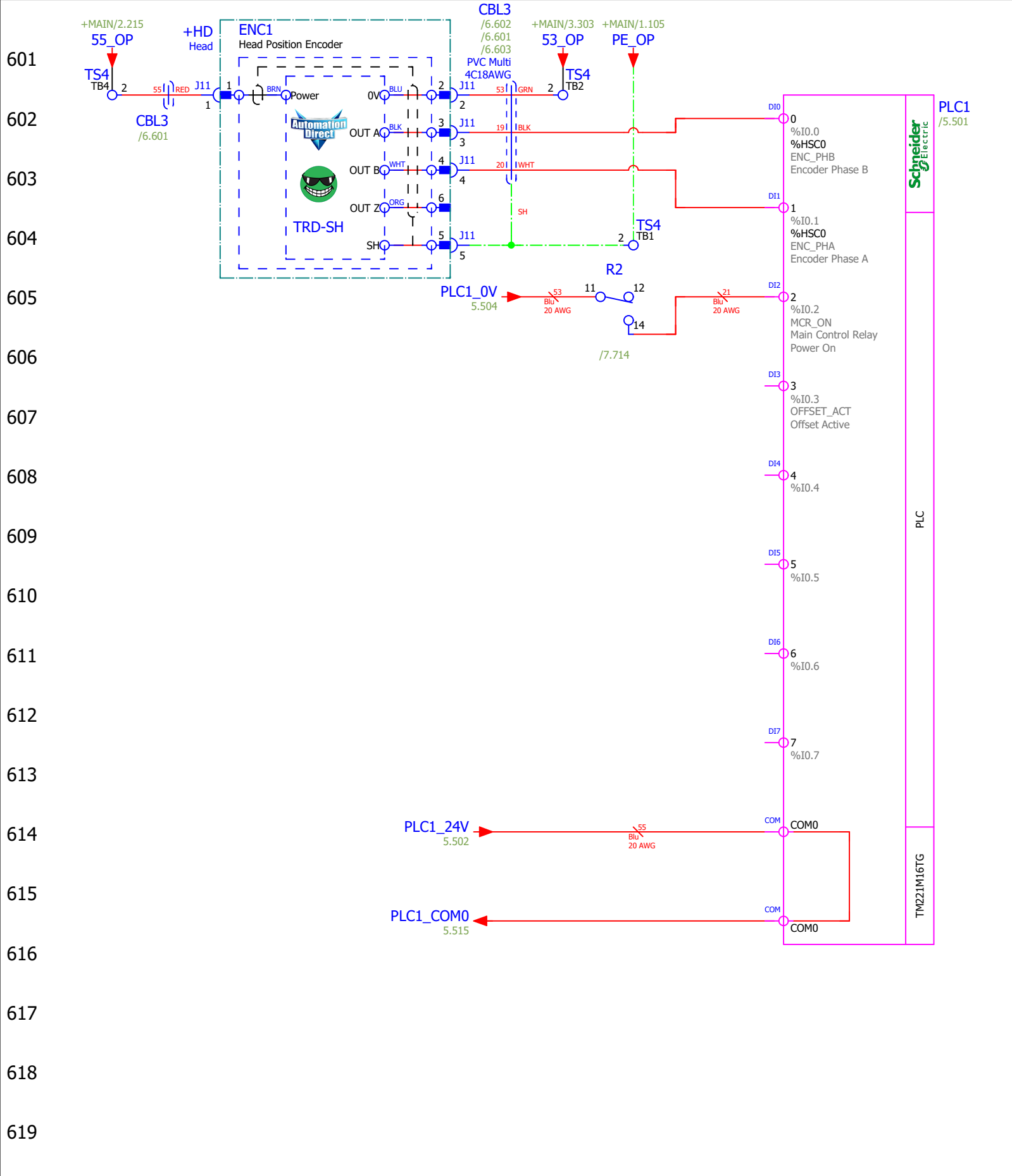
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Next pg:	4	Total Pgs:	20

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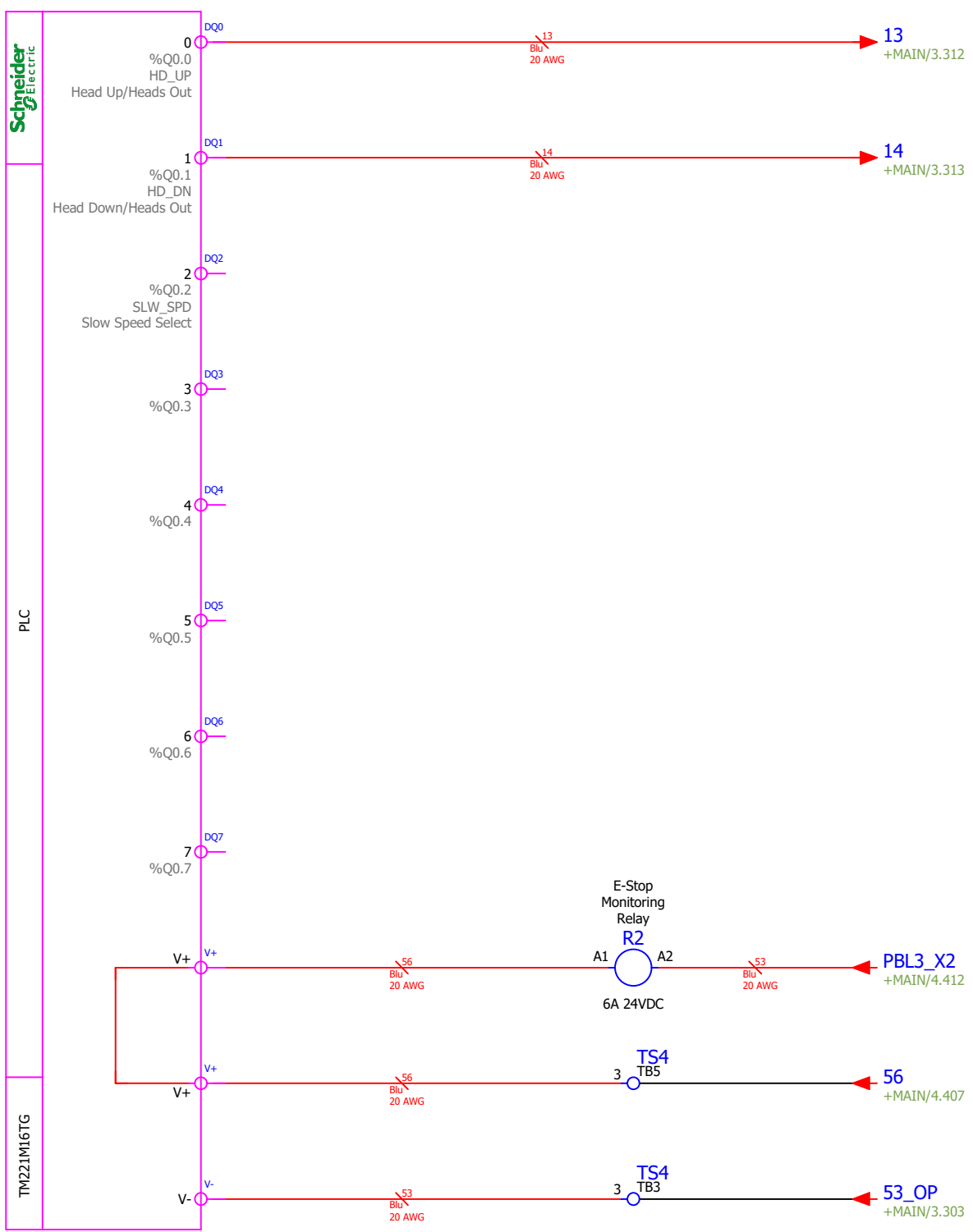
Feed Motor Drive Control
Feed Stop
Feed Start
Feed Drive Running Indicator
Feed Speed Control





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PLC1
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Device Tag/Parts List

WM_PARTS_LIST-Manual

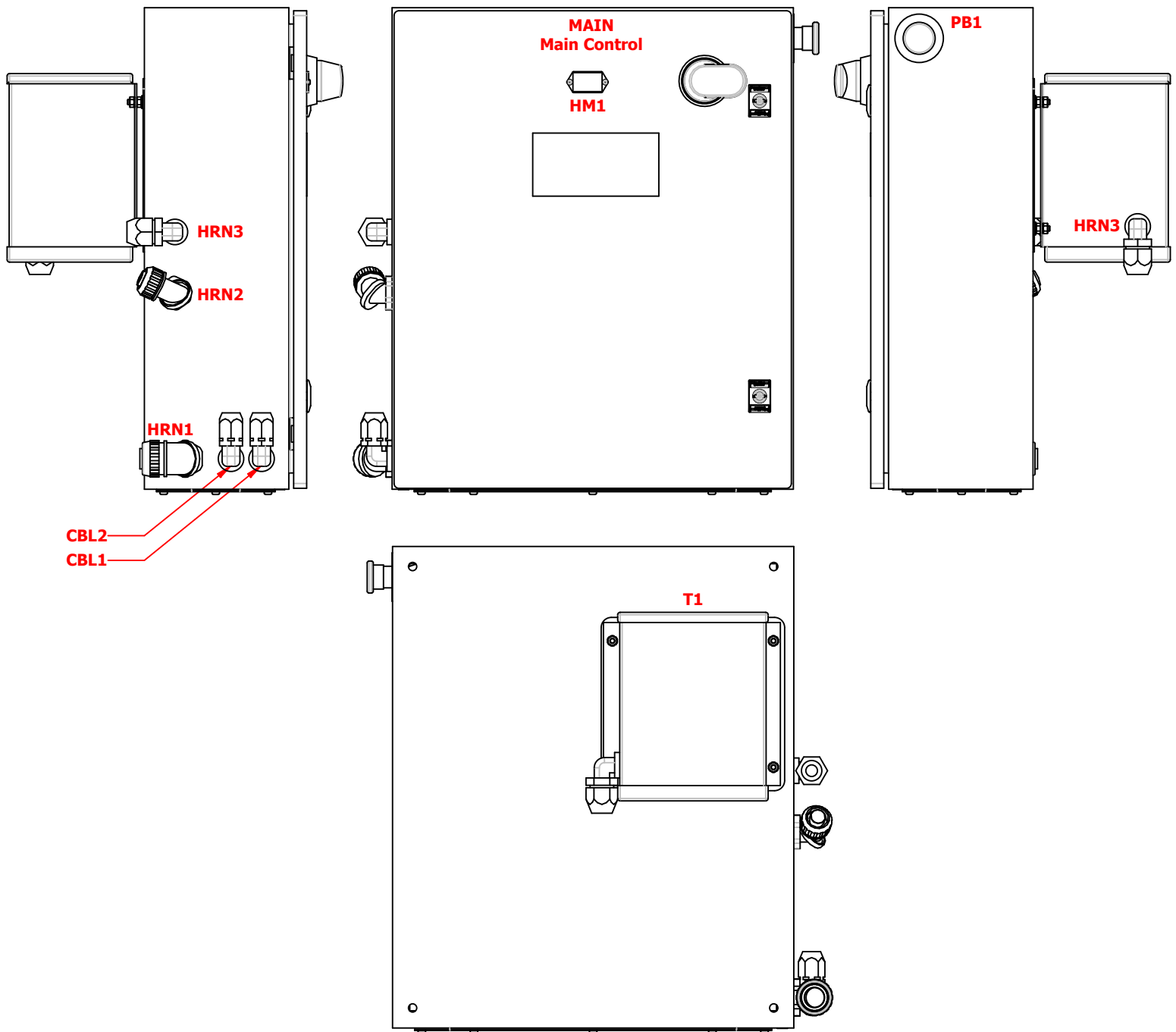
Device tag	Function	Wood-Mizer Part Number	Wood-Mizer Description	Qty.	X-Ref
C1	Blade Motor Contactor	051322	Contacto, 25A 3P 24VDC Coil	1	+MAIN/3.305
DB1	Distribution Block	069701	Distribution Block, 3P 1 to 4	1	+MAIN/1.104
DRV1	Head Up/Down Motor Drive Power	069799	AC Drive Assy, HR130 Up/Down w/Software	1	+MAIN/1.112
DRV2	Feed Motor Drive Power	069800	Drive Assy, HR130 Feed w/Software	1	+MAIN/2.201
ENC1	Head Position Encoder	069840	Encoder Assy, HR130 Setworks	1	+OP/6.601
F1	Main L1 Fuse	053586	Fuseholder, 100A Cube	1	+MAIN/1.103
F1	=	069707	Fuse, 70A Class J Cube	1	+MAIN/1.103
F2	Main L2 Fuse	053586	Fuseholder, 100A Cube	1	+MAIN/1.103
F2	=	069707	Fuse, 70A Class J Cube	1	+MAIN/1.103
F3	Main L3 Fuse	053586	Fuseholder, 100A Cube	1	+MAIN/1.103
F3	=	069707	Fuse, 70A Class J Cube	1	+MAIN/1.103
F4	Blade Motor L1 Fuse	053717	Fuseholder, 60A Cube	1	+MAIN/1.106
F4	=	069708	Fuse, 60A Class J Cube	1	+MAIN/1.106
F5	Blade Motor L2 Fuse	053717	Fuseholder, 60A Cube	1	+MAIN/1.106
F5	=	069708	Fuse, 60A Class J Cube	1	+MAIN/1.106
F6	Blade Motor L3 Fuse	053717	Fuseholder, 60A Cube	1	+MAIN/1.107
F6	=	069708	Fuse, 60A Class J Cube	1	+MAIN/1.107
F7	Up/Down Motor Drive L1 Fuse	052512	Fuse Holder, 2P Class CC Screw Clamp	1	+MAIN/1.115
F7	=	052456	Fuse, 6A 600V Calss CC Delay	1	+MAIN/1.115
F8	Up/Down Motor Drive L2 Fuse	052456	Fuse, 6A 600V Calss CC Delay	1	+MAIN/1.116
F9	Power Supply L1 Fuse	052512	Fuse Holder, 2P Class CC Screw Clamp	1	+MAIN/2.209
F9	=	E22716	Fuse, 2A 600V Class CC	1	+MAIN/2.209
F10	Power Supply N Fuse	E22716	Fuse, 2A 600V Class CC	1	+MAIN/2.209
HM1	Blade Motor Hour Meter	015401	Digital Meter, Hour Rect Mount w/Gasket	1	+MAIN/3.306
HMI1	HMI	112566.3	HMI Assy, PLC Setworks	1	+OP/5.510
M1	Blade Motor	130000	Motor, 15HP 3530RPM Marathon Premium Eff	1	+MAIN/1.105
M2	Feed Motor	025696	Motor, 1/15HP 57RPM 230V 3PH 30:1 Gear	1	+MAIN/1.115
M3	=	073702	Motor Assy, HR130 Feed Conveyor	1	+MAIN/2.204
PB1	Main E-Stop Push-Button	025161	Switch Body, 1NC 22mm ZB4	1	+MAIN/2.214
PB1	=	024945	Switch, PB E-Stop Maintnd Red 22mm ZB4	1	+MAIN/2.214
PB1	=	050992	Legend, E-Stop, Round Yellow	1	+MAIN/2.214
PB2	Operator E-Stop Push-Button	025161	Switch Body, 1NC 22mm ZB4	1	+MAIN/2.214
PB2	=	024945	Switch, PB E-Stop Maintnd Red 22mm ZB4	1	+MAIN/2.214
PB2	=	050992	Legend, E-Stop, Round Yellow	1	+MAIN/2.214
PBL1	Control Power On Push-Button	024974-3	Switch, PB Grn 22mm 1NO/1NC LED 24V XB4	1	+MAIN/2.214
PBL2	Blade Motor Start/Stop Push-Button	025236-31	Switch Body, 22mm Grn LED 1 NO 24V ZB4	1	+MAIN/3.302
PBL2	=	051746	Switch Operator, 2 Button w/Pilot Red/Gr	1	+MAIN/3.302
PBL2	=	050540	Contact, NC ZBE102	1	+MAIN/3.302
PBL2	=	052501	Boot, Clear Sealing ZB Sw	1	+MAIN/3.302
PBL3	Feed Motor Start/Stop Push-Button	025236-31	Switch Body, 22mm Grn LED 1 NO 24V ZB4	1	+MAIN/4.406
PBL3	=	051746	Switch Operator, 2 Button w/Pilot Red/Gr	1	+MAIN/4.406
PBL3	=	050540	Contact, NC ZBE102	1	+MAIN/4.406
PBL3	=	052501	Boot, Clear Sealing ZB Sw	1	+MAIN/4.406
PLC1	Setworks PLC	069849-3	PLC Ass, PLC Setworks	1	+OP/5.501
POT1	Feed Motor Speed Potentiometer	025200	Pot Assy, 4-20mA 24V W/conn	1	+MAIN/4.413
POT1	=	033476	O-Ring, 7/32 IN #009	2	+MAIN/4.413
POT1	=	033478	Knob, 1/4 ID Fluted Round Plastic	1	+MAIN/4.413
PWR1	24VDC Power Supply	069703	Power Supply, 24VDC 5A 110/230	1	+MAIN/2.207
Q1	Main Disconnect	050881-1	Disconnect, 63A 600V 3P 6mm Shaft	1	+MAIN/1.102
Q1	=	050908-1	Shaft, 290mm Pistol Grip Disconnect	1	+MAIN/1.102
Q1	=	050907-1	Handle, Disconnect Red/Yel Pistol Grip	1	+MAIN/1.102
R1	Main Control Relay	024890	Contacto, 9A 3P 24VDC Coil	1	+MAIN/2.217
R2	E-Stop Monitoring Relay	069883	Relay, 6A 24VDC w/ Cage Clamp Socket	1	+OP/7.714
SS1	Head Up/Down Switch	050545	Base, 2NO Contact	1	+MAIN/3.309
SS1	=	051744	Switch Operator, 3 Pos Sel Mom ZB4	1	+MAIN/3.309



Wood-Mizer®

Project Description: HR130EB15-1

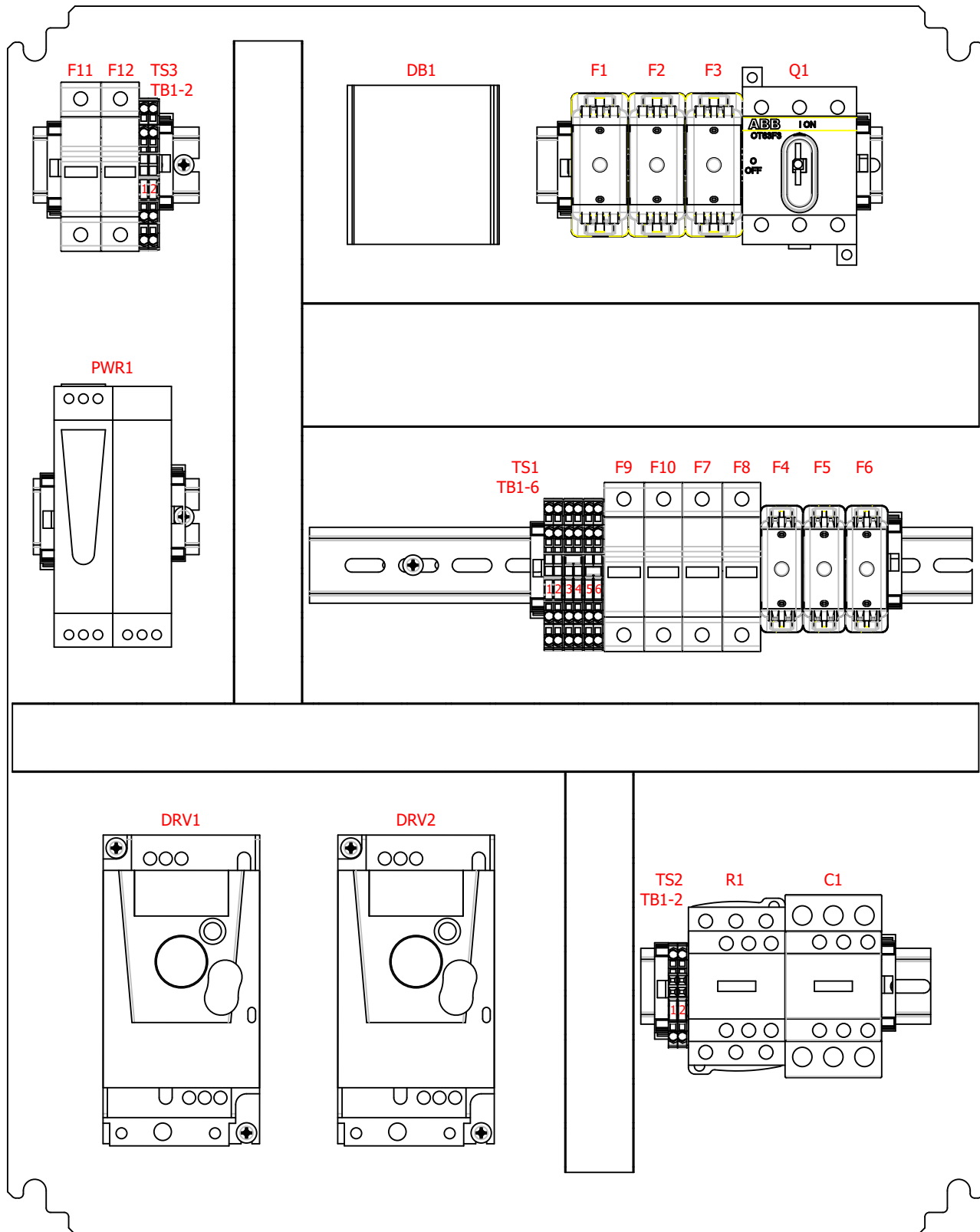
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Next pg:	D1	Total Pgs:	20



Wood-Mizer®

Project Description: HR130EC15-1

Revision:	A6.02	Pg Desc: Main Control Layout	
Mounting Location:	+Docs	Type: Panel layout	
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		Next pg:	F2
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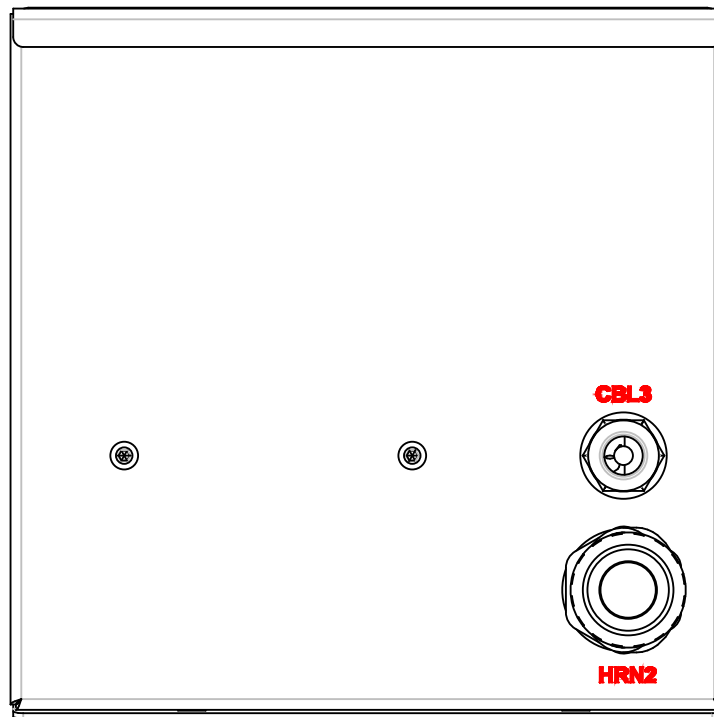
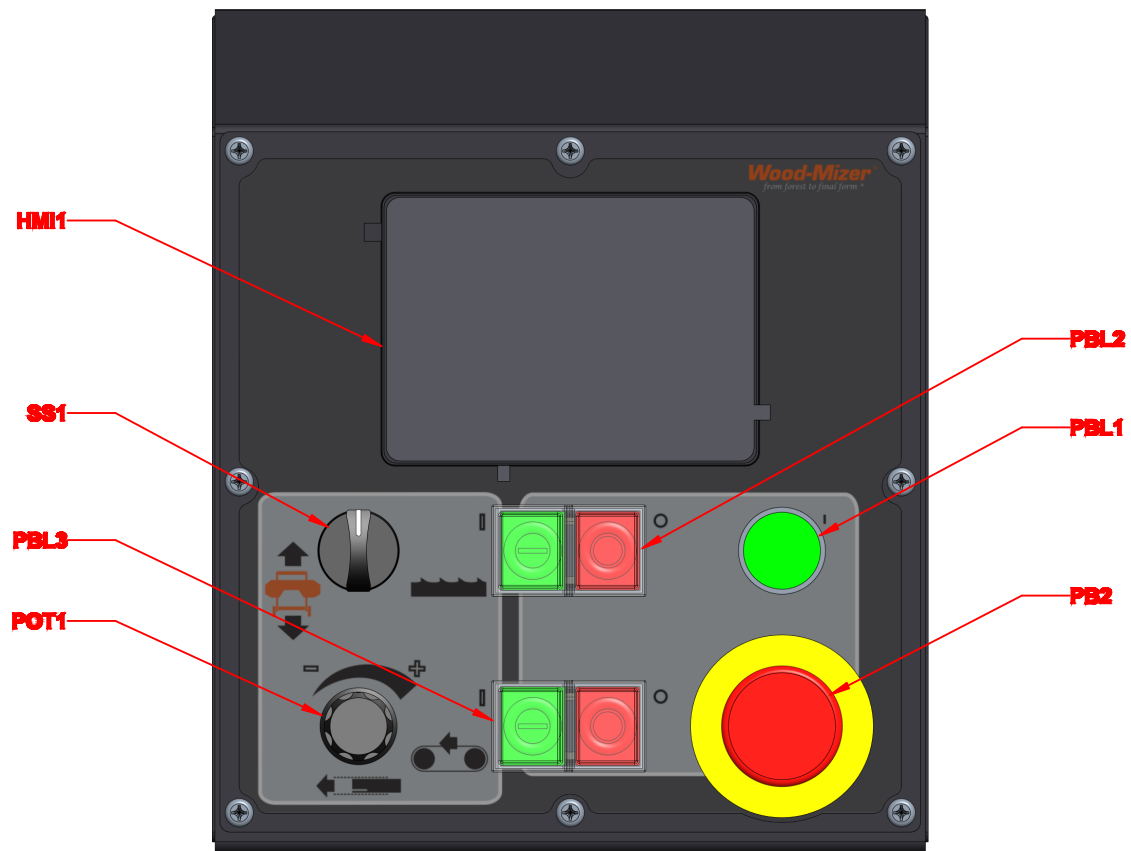
Wood-Mizer®


Project Description: HR130EC15-1

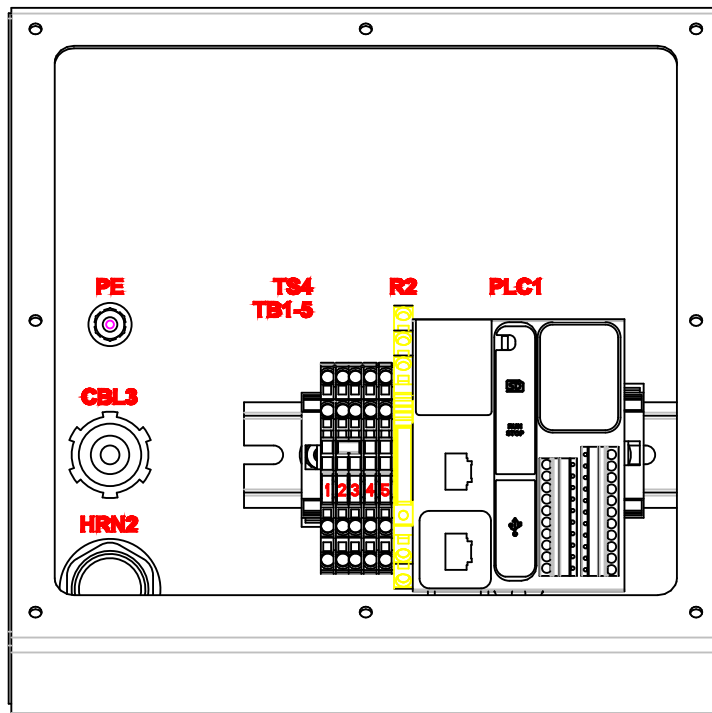
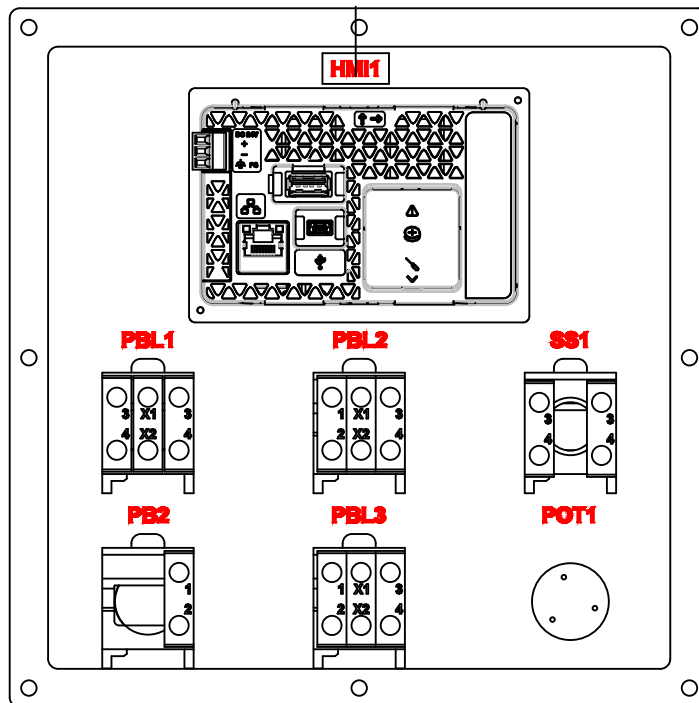
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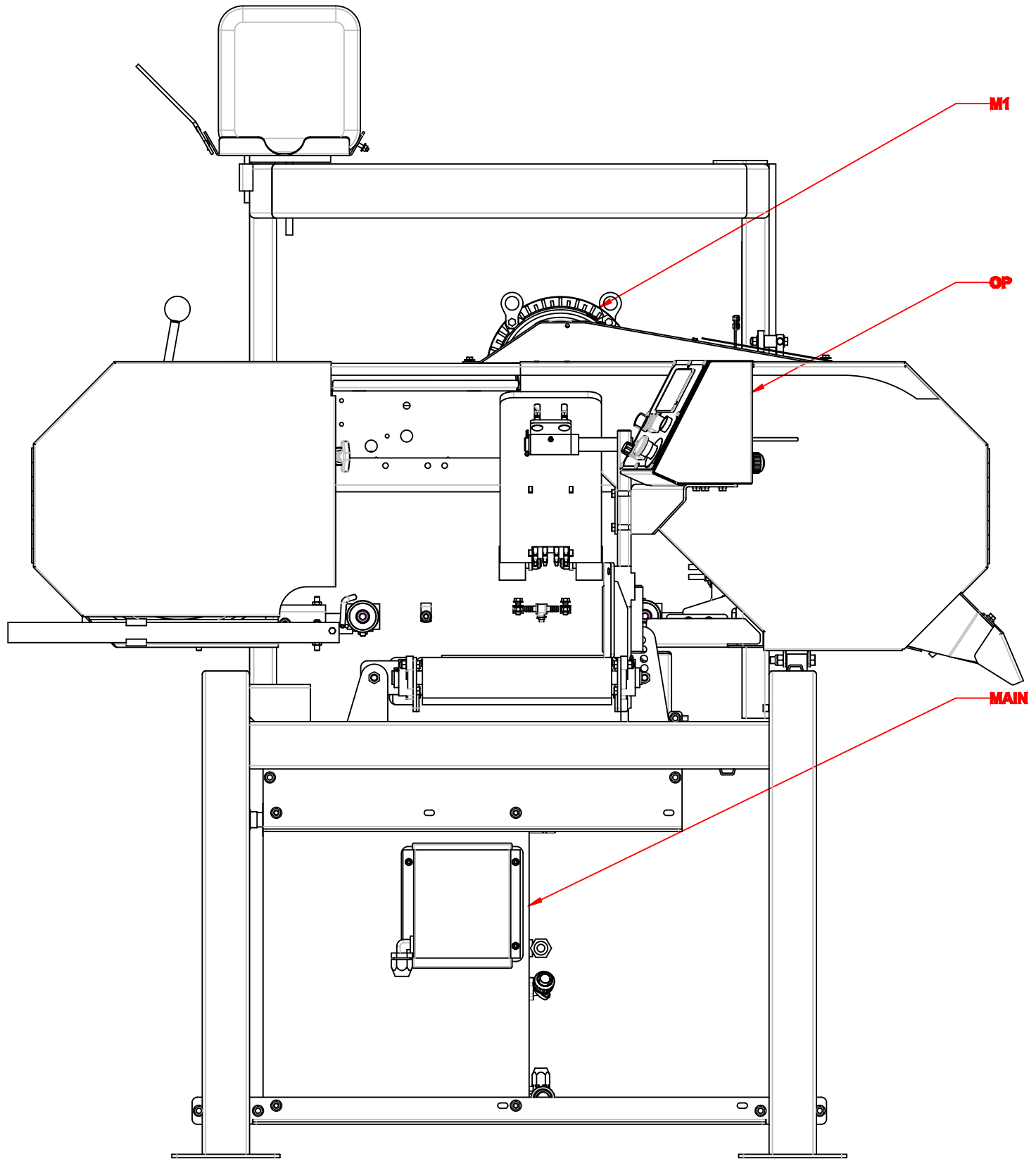
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 Wood-Mizer®	
Project Description: HR130EC15-1	
Revision: A6.02	Pg Desc: Operator Layout
Mounting Location: +Docs	Type: Panel layout
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Next pg: F4	Total Pgs: 22



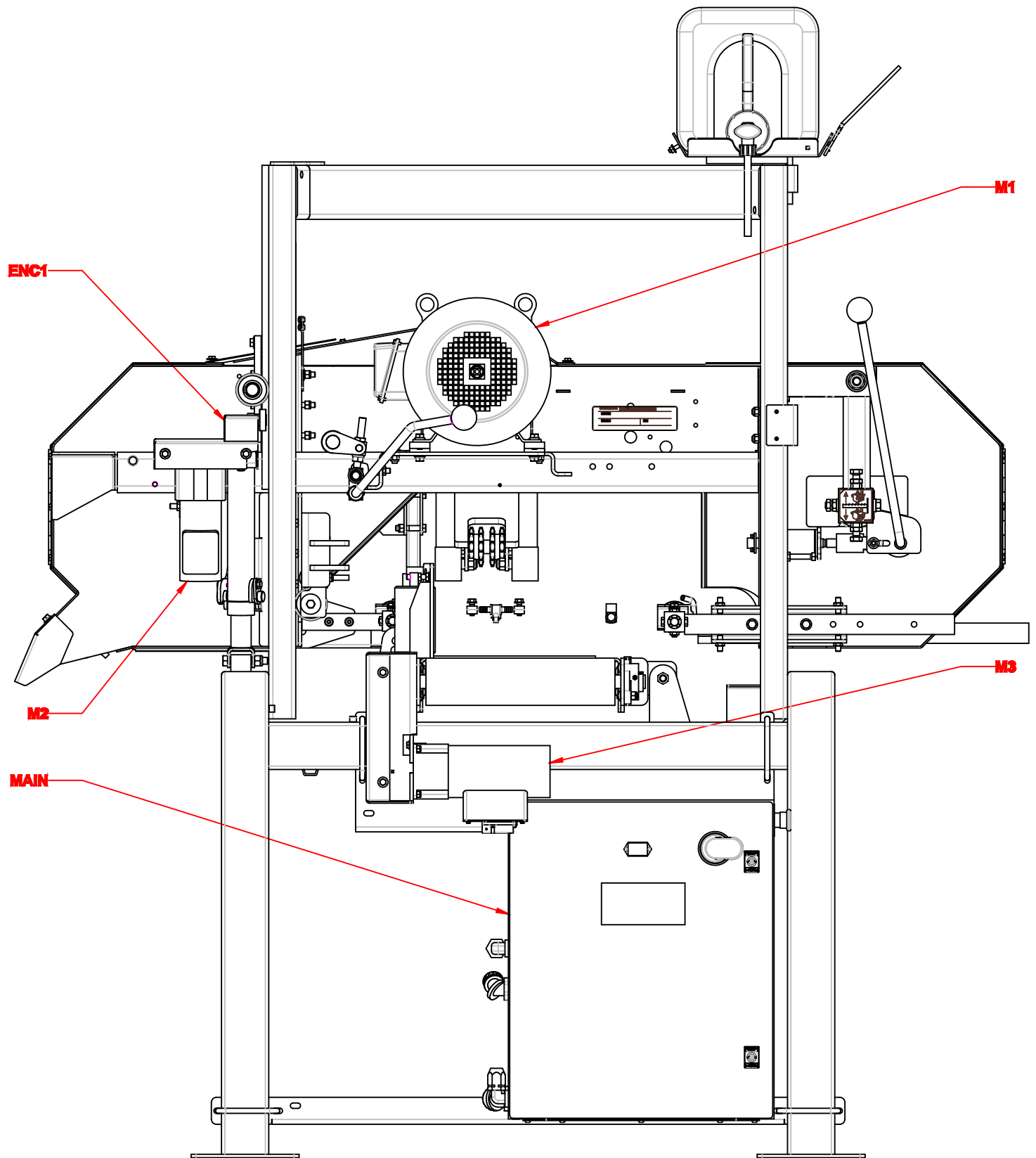
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Project Description: HR130EC15-1	
Revision: A6.02	Pg Desc: Operator Layout Internal
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Next pg: F5	Total Pgs: 22




Wood-Mizer®

Project Description: HR130EC15-1

Revision:	A6.02	Pg Desc: Machine Front	
Mounting Location:	+Docs	Type: Panel layout	
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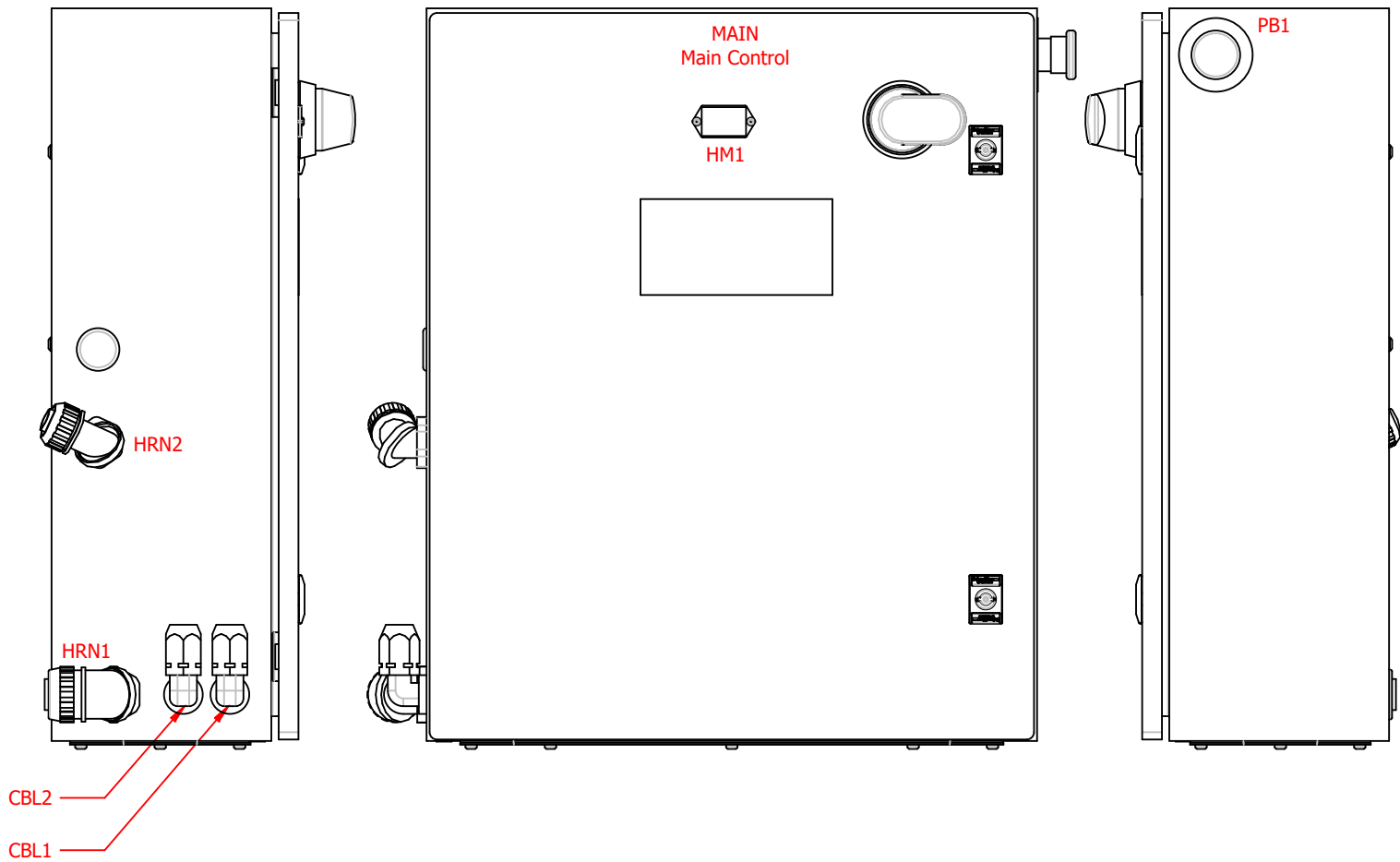



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Project Description: HR130EC15-1			
Revision:	A6.02	Pg Desc: Machine Layout Back	
Mounting Location:	+Docs	Type: Panel layout	
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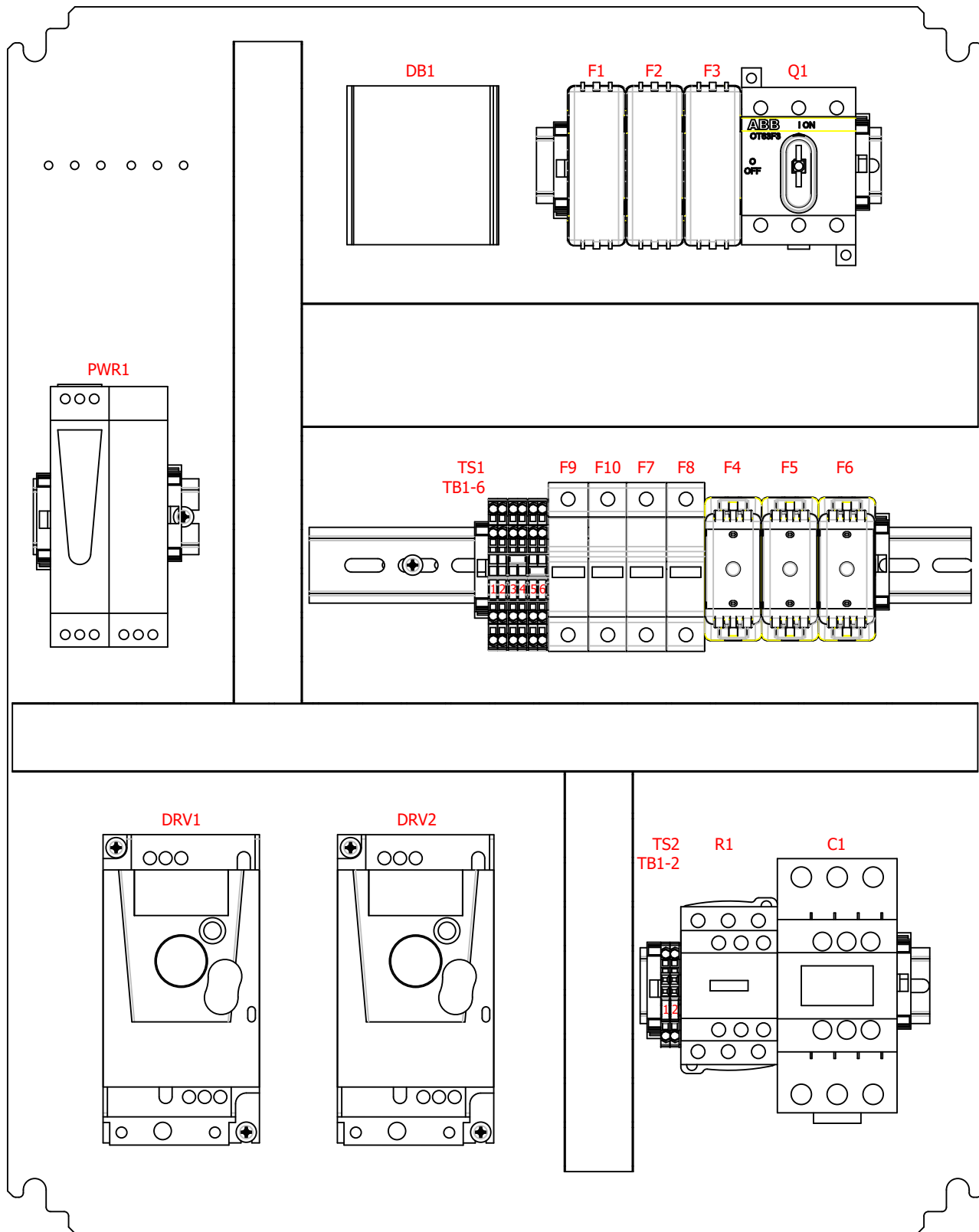
APPENDIX C ELECTRICAL INFORMATION

HR130EB15-1

Rev. A6.05+



		Wood-Mizer®	
Project Description: HR130EB15-1			
Revision:	A6.02	Pg Desc: Main Control Layout	
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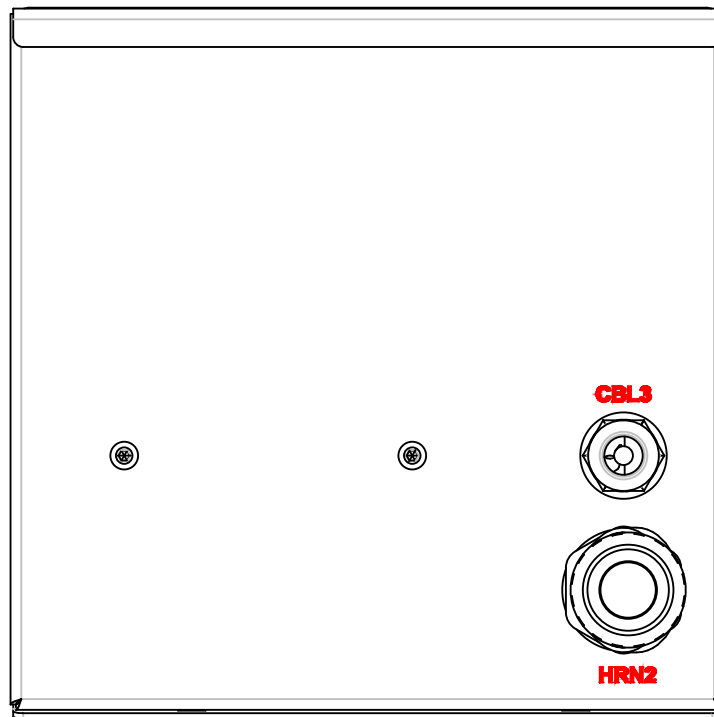
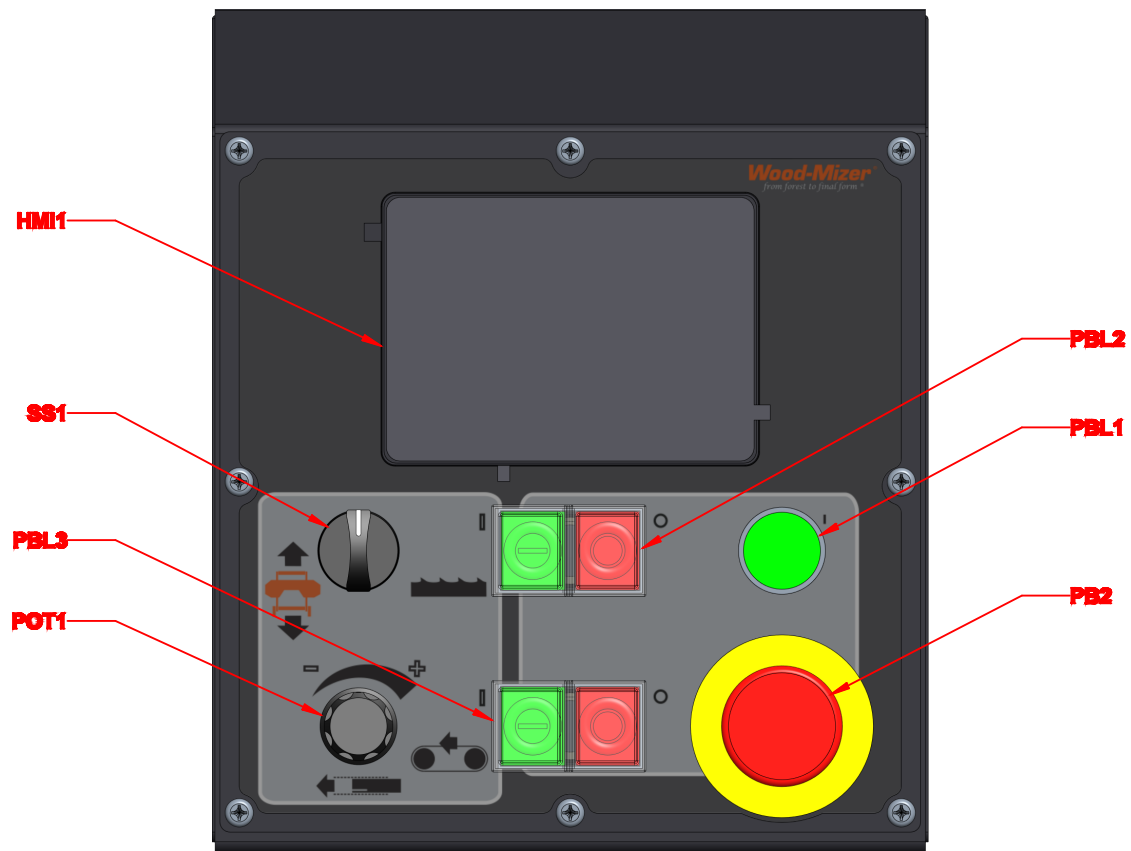
Wood-Mizer®


Project Description: HR130EB15-1

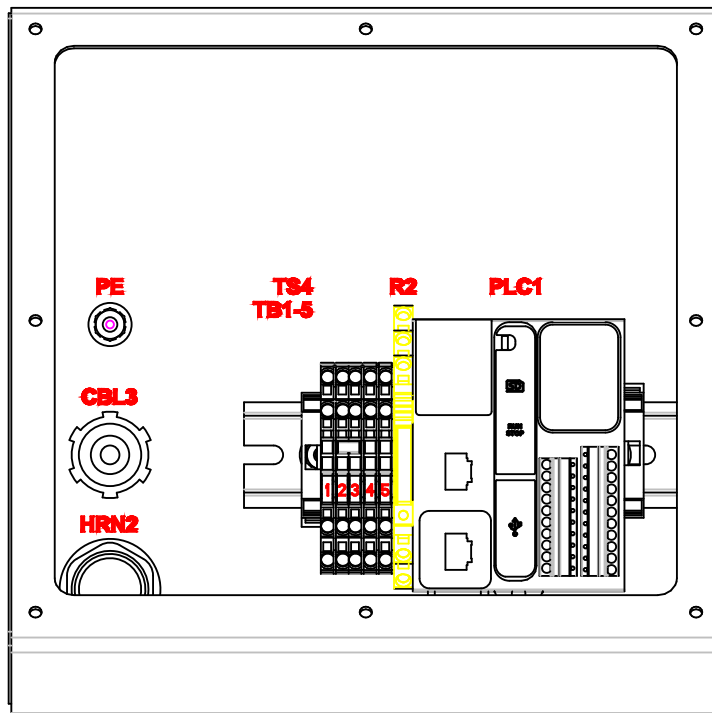
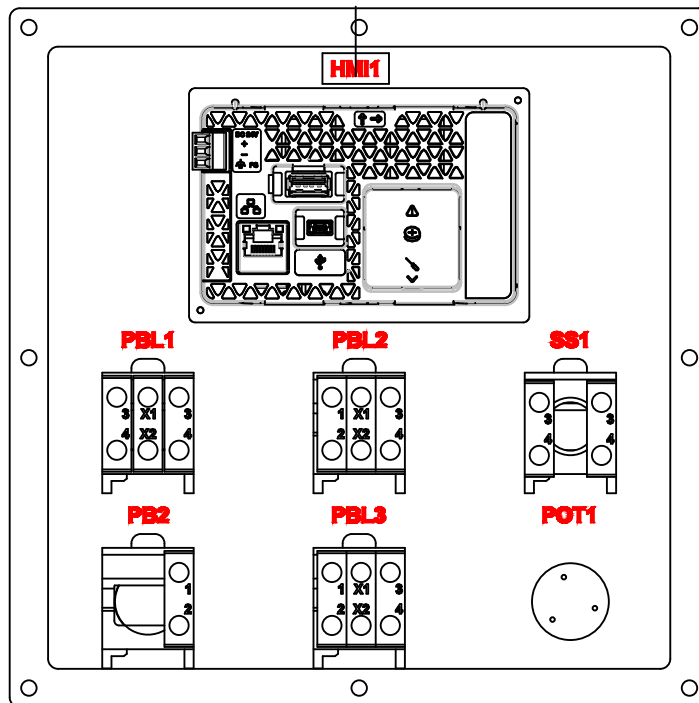
Revision: A6.02 Pg Desc: Main Control Insert Layout


Mounting Location: +Docs Type: Panel layout

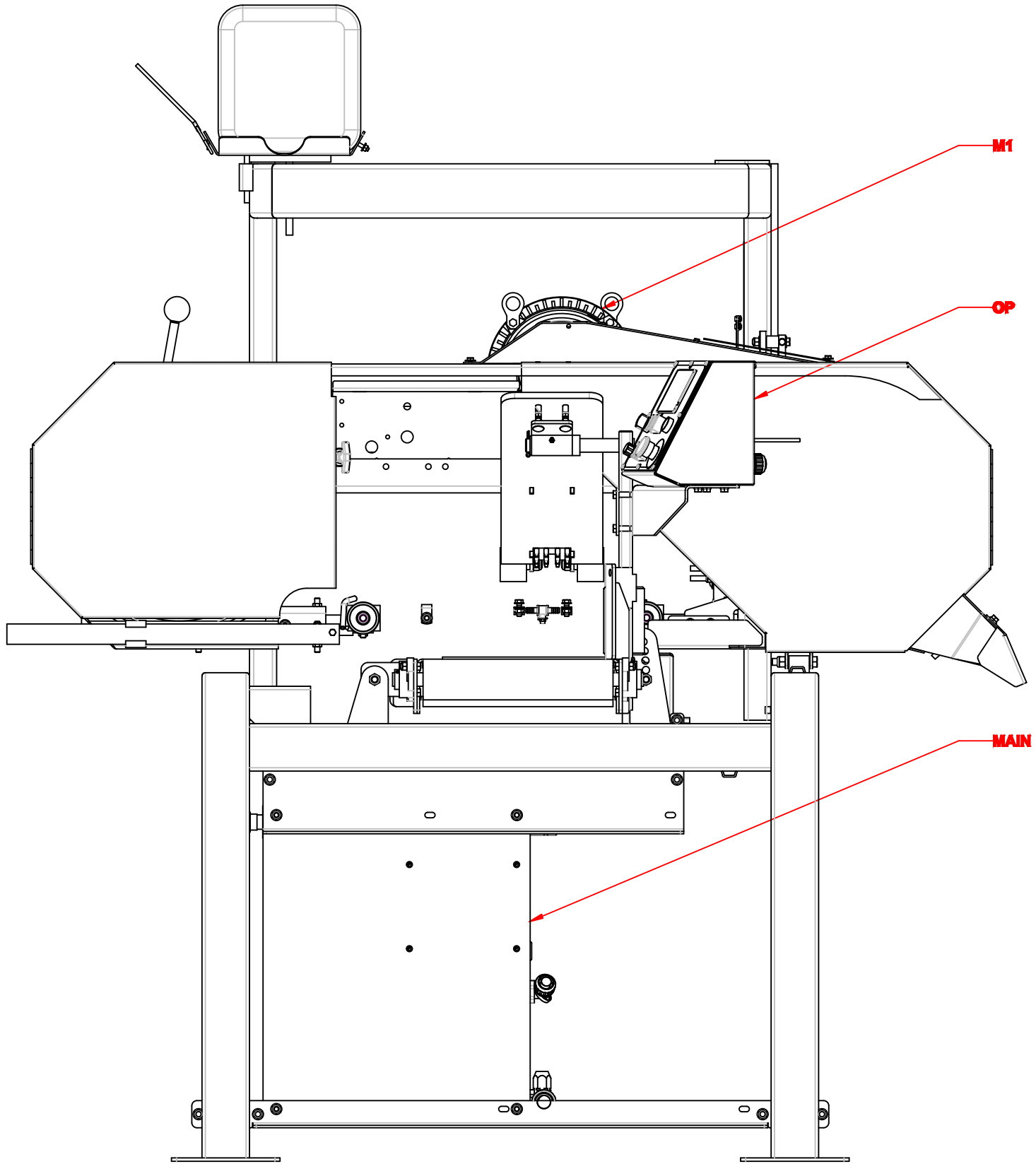
Prev. pg: F1 Page: F2 Next pg: F3 Total Pgs: 20



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Project Description: HR130EB15-1			
Revision:	A6.02	Pg Desc: Operator Layout	
Mounting Location:	+Docs	Type: Panel layout	
Prev. pg:	F2	Page:	F3
		Next pg:	F4
		Total Pgs:	20



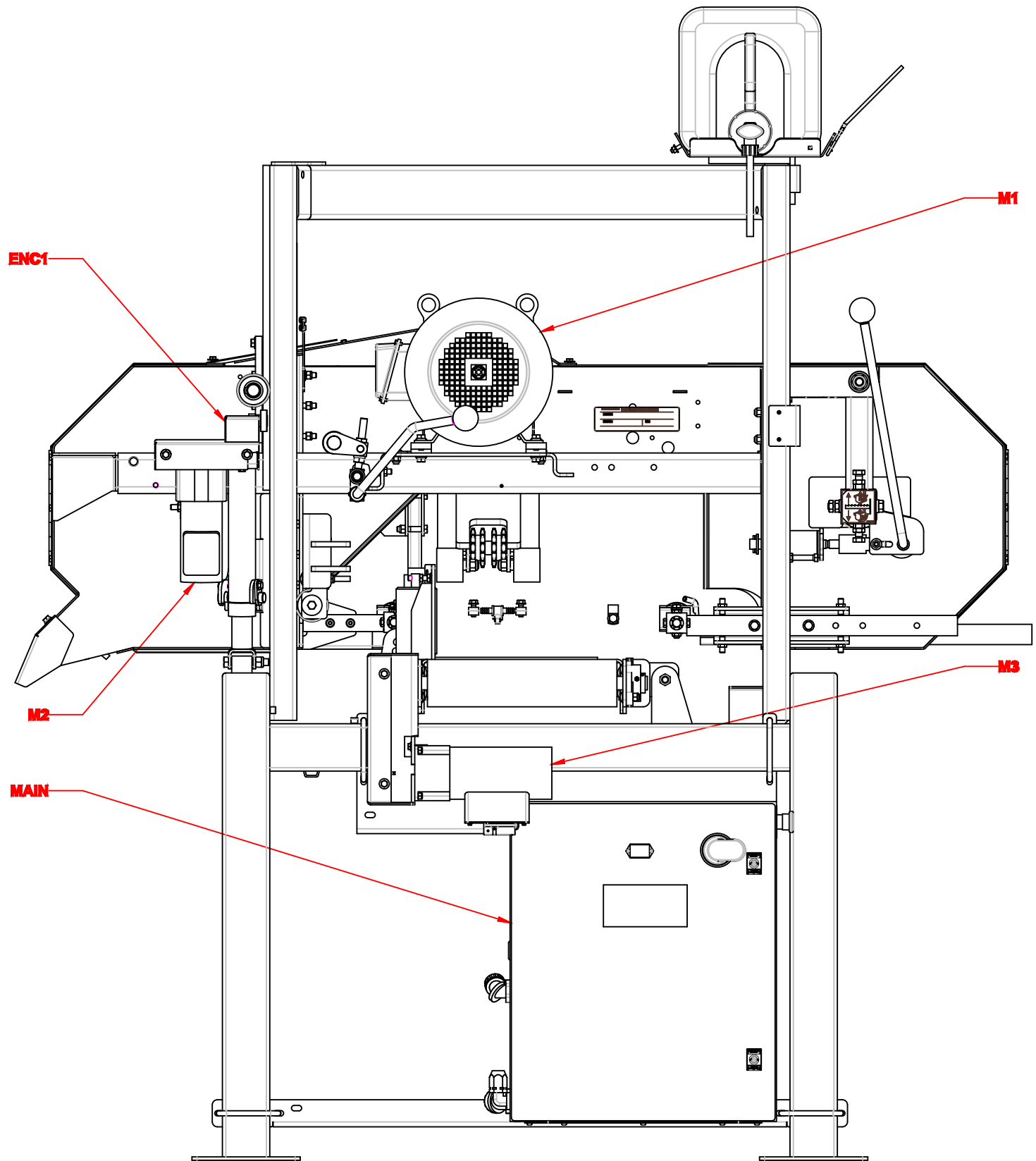
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Project Description: HR130EB15-1	
Revision: A6.02	Pg Desc: Operator Layout Internal
Mounting Location: +Docs	Type: Panel layout
Prev. pg: F3	Page: F4
Next pg: F5	Total Pgs: 20



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Project Description: HR130EB15-1

Revision:	A6.02	Pg Desc: Machine Layout Front	
Mounting Location:	+Docs	Type: Panel layout	
Prev. pg:	F4	Page:	F5
		Next pg:	F6
		Total Pgs:	20



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Project Description: HR130EB15-1

Revision:	A6.02	Pg Desc:	Machine Layout Back
Mounting Location:	+Docs	Type:	Panel layout
Prev. pg:	F5	Page:	F6
		Next pg:	Total Pgs: 20