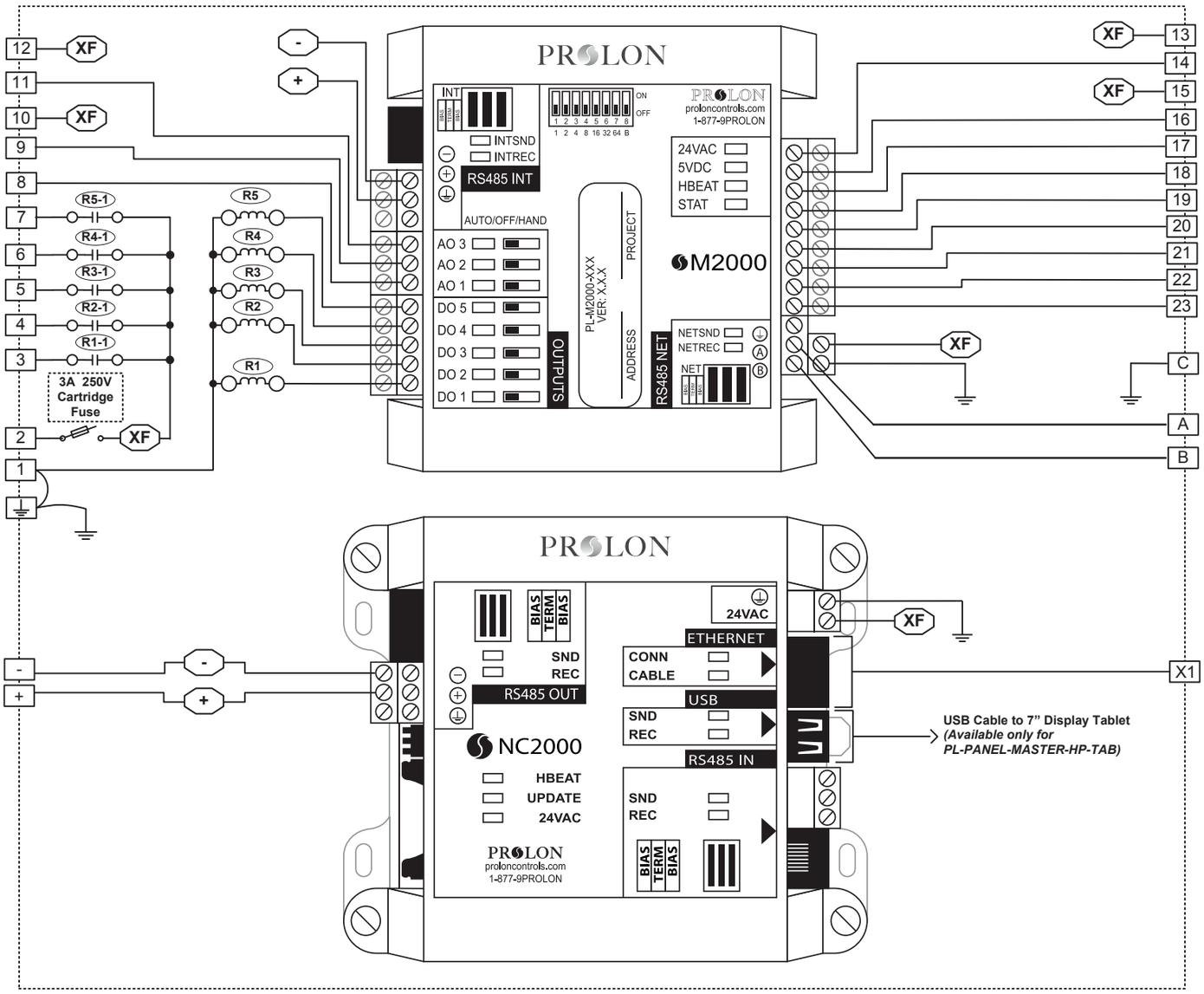
PL-PANEL-MASTER-HP/S(-TAB)

Internal Electrical Wiring Diagram



Legend:

XF Interconnection carrying 24 VAC

(+) Interconnection carrying M2000 INT A(+)

(-) Interconnection carrying M2000 INT B(-)

R1 R2 R3 R4 R5 Single pole, double throw relay

Field Wiring Details

Terminal	Function	Ratings	Wiring Details
⏚	GROUND	N/A	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm
1	Power Supply Input Common	N/A	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm
2	Power Supply Input 24 VAC	24 VAC, 3 A, 60 Hz	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm
3	DO1 - Fan (G)	24 VAC, 300 mA	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm
4	DO2 - Compressor 1 (Y1)	24 VAC, 300 mA	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm
5	DO3 - Compressor 2 (Y2)	24 VAC, 300 mA	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm
6	DO4 - Rev Valve	24 VAC, 300 mA	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm
7	DO5 - Aux Heat	24 VAC, 300 mA	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm
8	AO1 - Preheating / Modulating Heat	0-10VDC, 40 mA	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm
9	AO2 - Economizer	0-10VDC, 40 mA	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm
10	Economizer Supply	24 VAC, 8.5 VA	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm
11	AO3 - Bypass / VFD	0-10VDC, 40 mA	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm
12	Bypass or VFD Supply	24 VAC, 5 VA	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm
13	Static Pressure Sensor Supply	24 VAC, 0.03 A	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm
14	Static Pressure (0-5/1-5V) (1/1.5/2/2.5 in)	5 VDC, 20 mA	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm

Terminal	Function	Ratings	Wiring Details
15	CO2 Sensor Supply	24 VAC, 6.7 VA	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm
16	External Dry Contact for Alarm/ CO2 Sensor (4-20 mA)	4-20 mA, 1-5 VDC	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm
17	External Dry Contact for Proof of Fan	N/A	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm
18	Zone Setpoint Potentiometer (0-10K potentiometer)	N/A	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm
19	Zone Temperature Termistor (10K Type 3)	N/A	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm
20	Dry Contact for Clogged filter/ Dry Contact for Schedule Override/ Supply Water Temp (10K Type 3 thermistor)	N/A	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm
21	Supply Air Temperature Thermistor (10K Type 3)	N/A	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm
22	Return Air Temperature Thermistor (10K Type 3)	N/A	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm
23	Outside Air Temp. Sensor (10K therm) / Supply Water Temp. Sensor (10K therm)	N/A	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm
+	M2000 RS485 INT A (+)	N/A	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm
-	M2000 RS485 INT B (-)	N/A	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm
A	M2000 RS485 NET A (+)	N/A	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm
B	M2000 RS485 NET B (-)	N/A	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm
X1	NC2000 Ethernet Connection	N/A	Use CAT5e Patch Cable
C	COMMON	N/A	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm