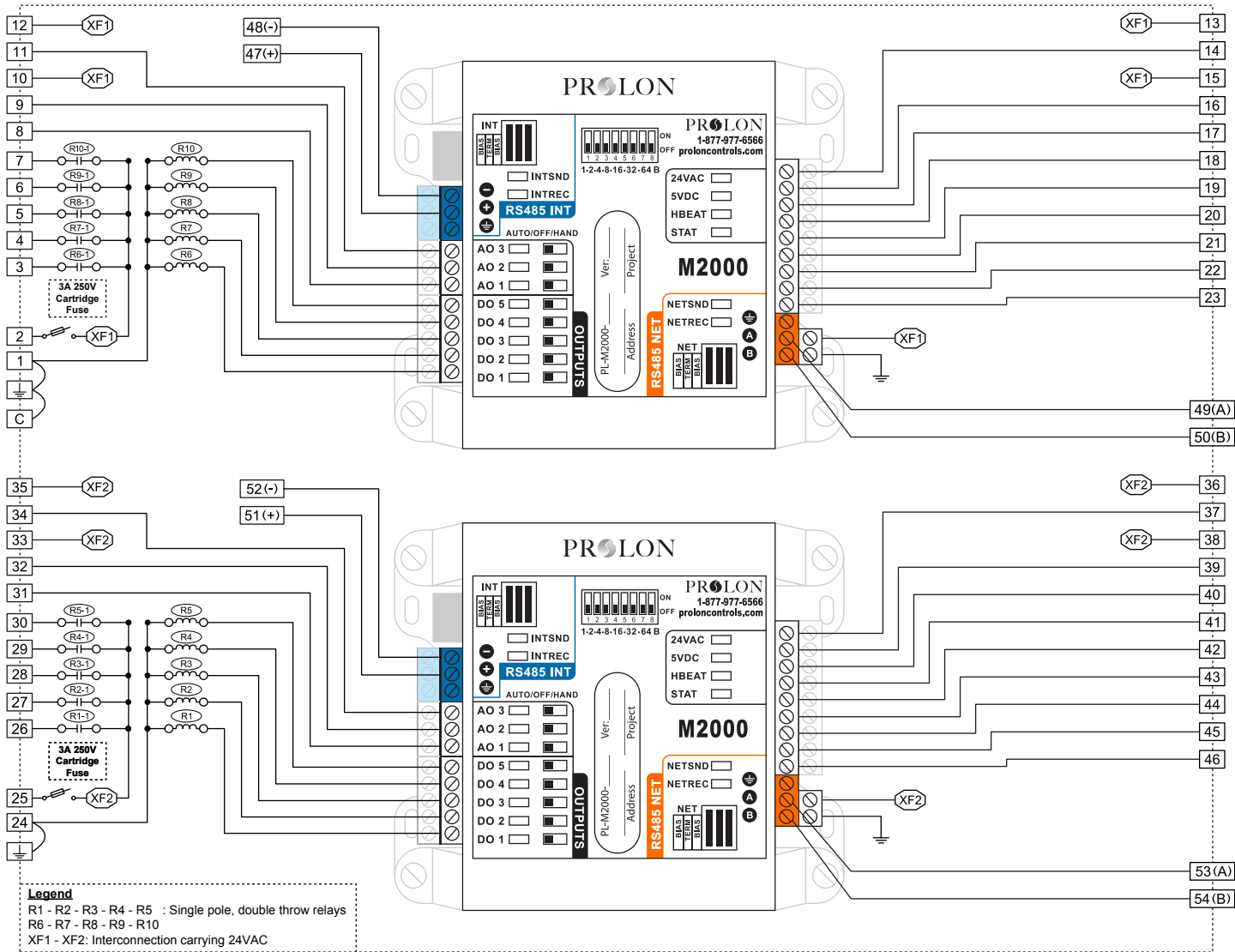


# PL-PN2-M2-BLR-M2-CHL

VERSION 2

## Internal Electrical Wiring Diagram



## Field Wiring Details

**ALL TERMINALS:** Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm

Terminal	Function	Ratings
1	Supply Input Common	N/A
2	Supply Input 24VAC (XF1)	24VAC, 3A, 60Hz
3	Boiler Stage 1 Output	24VAC, 300mA
4	Boiler Stage 2 Output	24VAC, 300mA
5	Boiler Stage 3 Output	24VAC, 300mA
6	Boiler Stage 4 Output	24VAC, 300mA
7	Pump 1 (BLR) Output	24VAC, 300mA
8	Pump 2 (BLR) Output	0-10VDC, 40mA
9	Modulating Boiler Output	0-10VDC, 40mA
10	24VAC Supply	24VAC, 8.5VA
11	Valve or Backup Modulating Boiler	0-10VDC, 40mA
12	24VAC Supply	24VAC, 5VA
13	24VAC Supply	24VAC, 0.03A
14	N/A	N/A
15	24VAC Supply	24VAC, 6.7VA
16	N/A	N/A
17	Dry Contact to Disable Boiler Call	N/A
18	Dry Contact for Max Heat Setpoint	N/A
19	Dry Contact for Proof of Pump 2 (BLR)	N/A
20	Dry Contact for Proof of Pump 1 (BLR)	N/A
21	BLR Return Water Temperature Thermistor (10K Type 3)	N/A
22	BLR Supply Water Temperature Thermistor (10K Type 3)	N/A
23	BLR Outside Air Temperature Thermistor (10K Type 3)	N/A
47 (+)	M2000 RS485 INT A (+)	N/A
48 (-)	M2000 RS485 INT B (-)	N/A
49 (A)	M2000 RS485 NET A (+)	N/A
50 (B)	M2000 RS485 NET B (-)	N/A

Terminal	Function	Ratings
24	Supply Input Common	N/A
25	Supply Input 24VAC (XF2)	24VAC, 3A, 60Hz
26	Pump 1 (CHL) Output	24VAC, 300mA
27	Pump 2 (CHL) Output	24VAC, 300mA
28	Chiller 1 Output	24VAC, 300mA
29	Chiller 2 Output	24VAC, 300mA
30	Chiller 3 Output	24VAC, 300mA
31	VFD Pump 1 (CHL) Output	0-10VDC, 40mA
32	VFD Pump 2 (CHL) Output	0-10VDC, 40mA
33	Power Supply 24VAC	24VAC, 8.5VA
34	Chiller 4 Output	0-10VDC, 40mA
35	Power Supply 24VAC	24VAC, 5VA
36	Power Supply 24VAC	24VAC, 0.03A
37	Alarm (Dry Contact)	N/A
38	Power Supply 24VAC	24VAC, 6.7VA
39	Water Pressure	5VDC, 20mA
40	Condenser Water Temp Leaving	N/A
41	Condenser Water Temp Entering	N/A
42	Dry Contact for Proof of Pump 1 (CHL)	N/A
43	Dry Contact for Proof of Pump 2 (CHL)	N/A
44	CHL Return Water Temp Thermistor (10K Type 3)	N/A
45	CHL Supply Water Temp Thermistor (10K Type 3)	N/A
46	CHL Outside Water Temp Thermistor (10K Type 3)	N/A
51 (+)	M2000 RS485 INT A (+)	N/A
52 (-)	M2000 RS485 INT B (-)	N/A
53 (A)	M2000 RS485 NET A (+)	N/A
54 (B)	M2000 RS485 NET B (-)	N/A
C	COMMON	N/A

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This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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