



Environmental Potentials

Power Quality For The Digital Age



EP-2800 SERIES

Installation and Application Manual



EP-2800 Series Installation and Maintenance Manual

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TEN YEAR WARRANTY

- Environmental Potentials will replace or repair any product from the EP-2800 product line as long as it was not damaged during installation or damaged from faulty installation.
- EP warranty registration card must be filled out and received by Environmental Potentials within 15 days of installation.
- This warranty is for the repair or replacement of damaged EP products only. Environmental Potentials accepts no liability, written or expressed, for the damage that may have occurred to any other equipment; nor does Environmental Potentials warranty cover any labor cost associated with replacement of such product.

Contact Us: warranty@ep2000.com • 800.500.7436

EP Technical Support: techsupport@ep2000.com • 800.500.7436

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⚠ WARNING ⚠

ALWAYS have a professional electrician with proper safety equipment perform installation.

Safety First

Even though EP units are designed for common installation, electricity is dangerous and only qualified personnel should attempt installation.

1. Read and understand entire contents of installation manual prior to installation.
2. Measure voltage of the electrical panel where the installation is taking place.
3. Verify that voltage and electrical configuration matches the model of the EP unit being installed.
4. If the model number does not match **DO NOT install**.
5. Turn off electrical supply prior to any installation in electrical panel.
6. Verify with voltage meter that electricity is off.
7. Ensure all connections in electrical panel are secure and all tools and equipment have been removed from electrical panel before re-energizing system.

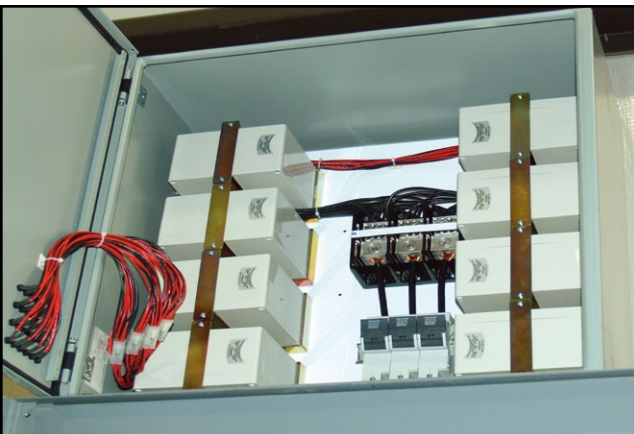
Pre-Installation Preparations

1. Read entire contents before performing installation.
2. Verify the voltage rating of the system before installing the EP unit. Make sure the electrical system operates at or below the maximum continuous operating voltage of EP product. It should not exceed 5% of the rated nominal voltage of the unit.

Note: If you have questions regarding voltage ratings, contact EP.

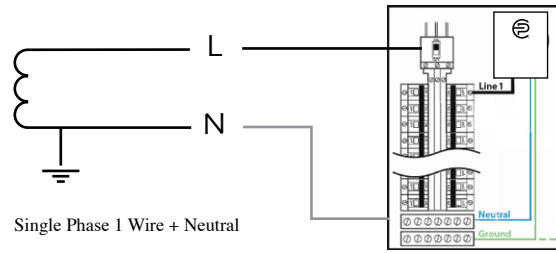
3. Check all the fuses of the electrical system before installing EP unit.
4. Make sure the power distribution configuration of the EP unit matches with the configuration of your electrical system (Delta or WYE).
5. Make sure your EP product is suitable for your application.

Note: Call to confirm the product application.



Voltage Ratings & Power Source Configurations

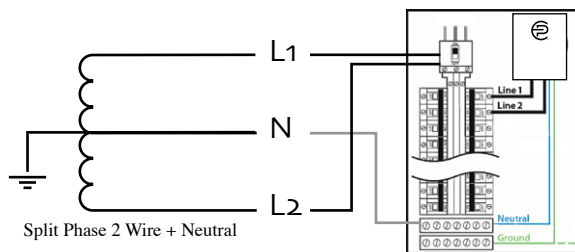
Single Phase Two Wire + Ground Installation



1. Connect white neutral to neutral bus bar.
2. Next connect black phase A to phase A of the 30 A breaker.
3. **Last connect green ground to ground bus bar or panel. Ground is case ground only and should NOT be connected to neutral bus bar.**

SINGLE PHASE WYE	
PRODUCTS	
EP-2820 EP-2840 EP-2880	
VOLTAGE ID#	MCOV
1Y120	120 V
1Y240	240 V

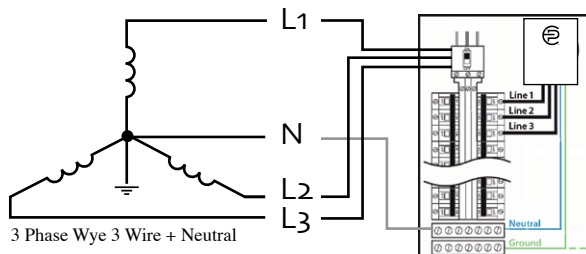
Split Phase Wye Installation



1. Connect white neutral to neutral bus bar.
2. Next connect black phase A to phase A of the 30 A breaker.
3. Then connect black phase B to phase B of 30 A breaker.
4. **Last connect green ground to ground bus bar or panel. Ground is case ground only and should NOT be connected to neutral bus bar.**

TWO PHASE WYE	
PRODUCTS	
EP-2820 EP-2840 EP-2880	
VOLTAGE ID#	MCOV
1S240	120 V

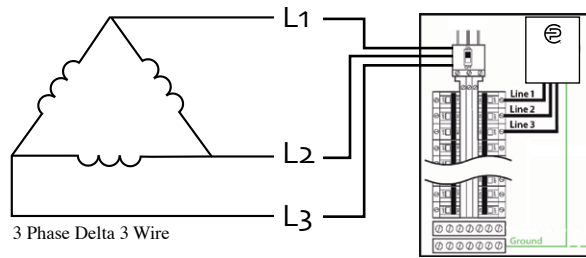
Three Phase Wye Installation



- Connect white neutral to neutral bus bar.
1. Next connect black phase A to phase A of the 30 A breaker.
 2. Then connect black phase B to phase B of 30 A breaker.
 3. Then connect black phase C to phase C of 30 A breaker.
 4. **Last connect green ground to ground bus bar or panel. Ground is case ground only and should NOT be connected to neutral bus bar.**

THREE PHASE WYE	
PRODUCTS	
EP-2820 EP-2840 EP-2880	
VOLTAGE ID#	MCOV
3Y208	120 V
3Y240	120V
3Y480	277V
3Y600	347V

Three Phase Delta Installation



1. Connect black phase A to phase A of the 30 A breaker.
2. Next connect black phase B to phase B of 30 A breaker.
3. Then connect black phase C to phase C of 30 A breaker.
4. **Last connect green ground to ground bus bar or panel. Ground is case ground only and should NOT be connected to neutral bus bar.**

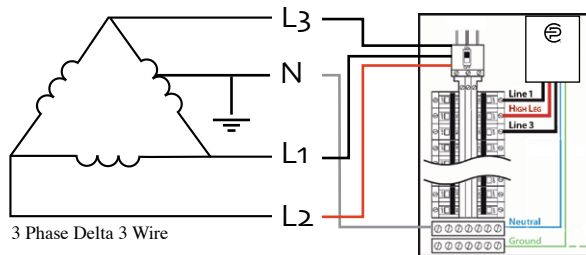
THREE PHASE DELTA

PRODUCTS

EP-2820
EP-2840
EP-2880

VOLTAGE ID#	MCOV
3D240	240V
3D480	480V

Three Phase High Leg Delta Installation



1. Connect black phase A to phase A of the 30 A breaker.
2. Next connect black phase B to phase B of 30 A breaker.
3. Then connect red phase C to phase C of 30 A breaker.
WARNING: Be sure that phase C is the HIGH LEG.
4. **Last connect green ground to ground bus bar or panel. Ground is case ground only and should NOT be connected to neutral bus bar.**

3 PHASE HL DELTA

PRODUCTS

EP-2920
EP-2940
EP-2980

VOLTAGE ID#	MCOV
3H240	120/ 240V

Left image shows mounted EP unit with incoming lines. Right image shows connection . . .

