

Implementation: 9/8/2009
Revised:1/8/2013; 2/8/22
Reviewed:

Policy: #3120 – Motor Policy

SCOPE OF POLICY: Customers

RESPONSIBILITY: Management, Employees

I. Policy

The purpose of this policy is to promote the safety and protection of the Elkhorn Rural Public Power District (ERPPD) employees, consumers, and the general public. In addition, this policy is intended to protect the integrity of ERPPD’s electrical system including the delivery of consistent power quality. ERPPD strives to provide electric power and energy at the lowest cost consistent with sound economy and good management, and to minimize cross-subsidization of rates to all customers in as reasonable manner as feasible.

II. Procedure

A. ERPPD has established the following conditions of service on new motor loads:

- All electrical motors 50 HP and above (nameplate rating) must be equipped with Power Factor correcting capacitors.

• Single Phase Motor	Individual motors limited to 15 HP (Phase to Phase starting)
• Three Phase Motor (Two Phase Open Bank Service)	Individual motors limited to 50 HP (Phase to Phase starting)
• Three Phase Motor:	Individual motors limited to 100 HP (Phase to Phase starting)
• Three Phase Motor:	Soft Start required on all motors greater than 100 HP
• Written Pole Motors:	Individual motors limited to 40 HP

Phase conversion single to three-phase:

- | | |
|---|---|
| • Digital Phase Conversion: | Individual motors limited to 25 HP |
| • Rotary Phase Conversion: | Individual motors limited to 25 HP
With phase converters limited to 30 kva |
| • Static Phase Conversion: | Individual motors limited to 25 HP |
| • Variable Frequency Drive
Phase Conversion: | Individual motors limited to 25 HP |

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ERPPD shall in its sole discretion determine if the policy conditions satisfy the policy objectives. ERPPD reserves the right to adjust the minimum or maximum motor load or phase conversion requirements based upon internal calculation or external engineering evaluation, specific to individual site locations. Any external engineering evaluation fees incurred by ERPPD shall be paid by the customer requesting the adjustment to motor load or phase conversion conditions. Customers must obtain written approval from ERPPD to deviate from motor load or phase conversion conditions. Information received from ERPPD by the customer shall be considered current for one (1) month. The customer will have one (1) month to notify ERPPD, in writing, whether or not the motor load or phase converter will be installed, and the motor load or phase converter must be installed and operational within nine (9) months of receiving ERPPD's conditions of service or such criteria will be void and the motor load or phase converter will not be energized.

To meet the objectives of this policy ERPPD must balance three-phase loading. Therefore, where three-phase service is available or economically practical, it will be the preferred method of installation and operation of all new loads.

- B. As of June 1, 2014, for irrigation pumping motors 50 HP and above (nameplate rating) existing prior to adoption of Policy# 3120 Motor Policy, shall be assessed a fee on the final irrigation billing per Fee Schedule 3500.3120-A. If power factor corrective capacitors are not installed and/or in working order prior to the irrigation season (June 1-September 30) of each year, the fee will be applied.

III. **Service Termination**

ERPPD reserves the right to terminate the electric service if the customer violates this policy or other customers experience and/or ERPPD discovers problems with power quality issues that in the sole discretion of ERPPD are caused by the equipment on the customer's service and the customer fails to take corrective actions.