

# EISA 2007

## Energy Independence & Security Act 2007

### A Motor Perspective - April 2010

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NEMA puts out a summary of energy legislation that impacts the electrical industries; it can be found at <http://www.nema.org/gov/energy/Energy-Legislation.cfm>. This document discusses the 2005 legislation and the 2007 legislation. Below is a brief abstract of how this legislation affects motors.

### Energy Legislation Summary

- The original legislation affecting the energy efficiency of motors was the EAct of 1992.
- In 2005, a bill was passed that made the purchase of NEMA Premium motors mandatory for government buildings in an attempt to show leadership in saving energy.
- In 2007, the EISA legislation raised the level of all products covered in the original bill to NEMA Premium levels (with the exception of Fire Pump motors, due to low run hours). These requirements are effective December 19, 2010.
- EISA 2007 also tried to plug the holes in the original bill by expanding coverage. All ratings covered by this expanded coverage will be required to meet only NEMA Table 12-11, which is the "Energy Efficient" (old EAct) level. This effectively includes electric motors (subtype 1) configured as:
  - U-Frame motor
  - Design C motor
  - Close-coupled pump motor
  - Footless motor
  - Vertical solid shaft normal thrust motor (tested in a horizontal configuration)
  - 8-pole motor (900 rpm)
  - Polyphase motor with voltage no more than 600 volts (other than 230 or 460 volts which moved to NEMA Premium)
  - LV Design B Motors to 201 to 500HP

### What's Next?

- Upcoming energy legislation and stimulus packages present new opportunities for incentives. NEMA proposals have been brought to the House and Senate by Senators and Representatives and are in several Bills now on the floor.
- NEMA is working with advocacy groups such as American Council for an Energy Efficient Economy (ACEEE) and Alliance to Save Energy (ASE) to promote other energy efficiency incentives and programs.
- Two energy bills currently in Congress contain incentive programs, promoted by WEG and NEMA, to encourage the early switch to NEMA Premium and the replacement (rather than repair) of older inefficient motors. With continued support, these bills should pass later this year.



### Small AC Motor Efficiency Regulation

- The DOE also ruled on Feb 28, 2010 to regulate general purpose small motors, defined as:
  - 1/4 to 3HP
  - ODP
  - 3-phase, and single phase CSCR and CSIR
  - 2 Digit Frames 42, 48, 56 and IEC equivalent
- Issues NEMA sees:
  - Impact of size change on OEMs
  - Impact of size change on MRO replacements
  - Difficulty in setting efficiency levels where no rating/frame standard exists
  - Accuracy of data and assumption in baseline study
- NEMA has provided input to the DOE as part of the rule-making process.
- Advocacy groups believe definition does not encompass enough of the market..
- This regulation will not go into effect until 2015.

### Are Your Customers Ready?

- The deadline is December 19, 2010.
- Do drawings have part numbers for compliant products?
- Do third party certifications on your products include EISA-compliant motors?
- Do you have a plan to convert inventory? (You can still sell pre-EISA motors if they were produced prior to December 19, 2010, but some customers may not want them.)
- Have you completed product performance testing with EISA-compliant products?
- Have you partnered with a motor manufacturer that understands the 2010 EISA requirements and is prepared to help you get ready?
- **If you are reading this, you have found a partner!**  
**WEG: transforming energy into solutions.**

See our [www.WEGGreen.com](http://www.WEGGreen.com) website for the latest updates and support resources regarding the legislation

## Is WEG Ready? Yes!

- As one of the largest industrial motor manufacturers in the world, WEG is ready and pushing for early adoption by customers to save energy.

WEG has a complete line of NEMA Premium products today and has the capacity to meet the 2010 requirements today.

WEG is introducing a new low-voltage motor platform. This was developed to be the optimum NEMA Premium motor range, and offer even higher efficiencies in the future.

WEG's North American manufacturing facilities are currently being optimized for the production of NEMA Premium motors.



Questions? WEG can help! Call 1-800-ASK-4WEG (275-4934)

