NEMA Experience with Other International Standards Organizations

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The Association of Electrical Equipment and Medical Imaging Manufacturers







Examples of NEMA Members' Products

- Lighting products
- Electric motors
- LV Surge Protection
- CT scanners
- Nurse call stations
- Dry cell batteries
- Fuses
- Industrial controls
- Switchgear

- Transformers
- Smoke detectors
- HV Insulators
- Building wire
- Capacitors
- Ultrasound imaging
- Traffic controls
- Welding equipment
- Circuit breakers





International Standards

- ★ Engagement that leads to lowering trade barriers and growing markets
 - 58 IEC and 3 ISO Technical Advisory Groups (TAGs) (mirror committees)
 - 5 International Secretariats
 - 500+ participants (members and staff) on committees of other organizations





Other International Standards Organizations

- ★ IEEE SA http://standards.ieee.org
- **▶** Data Communication Standards:
 - Entity-based: 802. series
 - Individual-based: 2030.5 series
 - All are international; more than 300 people from 10+ countries
 - Very open to twinning
 - Contact: Bob Heile, <u>bob.heile@ieee.org</u>





Other International Standards Organizations

- ✓ Open ADR Alliance http://www.openadr.org
- **▶ Demand Response Standards:**
 - International participation, mainly from countries that manufacture communication equipment.
 - Very open to twinning, via memoranda of understanding.
 - Contact: Rolf Bienert rolf@openadr.org





Aiming for the Development of Performance Standards





Aiming for the Development of Performance Standards

- NEMA develops more than 400 standards;
 all are performance standards.
- ★ Three examples:
 - Motor standard MG-1 (1926)
 - Cable Tray standard VE-1
 - LED Lighting standard SS1 (2012)





Aiming for the Development of Performance Standards

✓ Why are they needed?

 Parts fit, support proper weight of other products, components meet expectations.

✓ Who benefits?

 Consumers: property owners, industrial operations, construction operations, etc.

➤ How often are they updated?

As needed: > or = to 5 years, sometimes 1 year.





Motor Efficiency Regulations

Energy Policy Act of 1992

- Effective October 1997
- General Purpose 1 200 HP at MG 1, table 12-11 Energy Efficient

Energy Policy Act of 2005

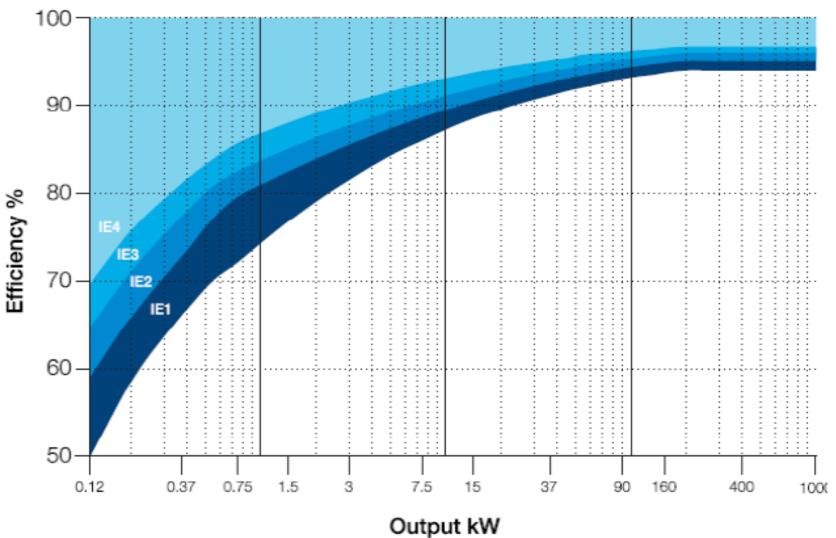
 Raised purchases for government to table 12-12 Premium Efficient [by executive order from president]

Energy Independence & Security Act of 2007

- Effective December 2010
- General Purpose 1-200 HP EPAct motors to table 12-12 Premium Efficient
- Other 1-200 HP motors at table 12-11 Energy Efficient
- 201 500 HP motors at 12-11 Energy Efficient



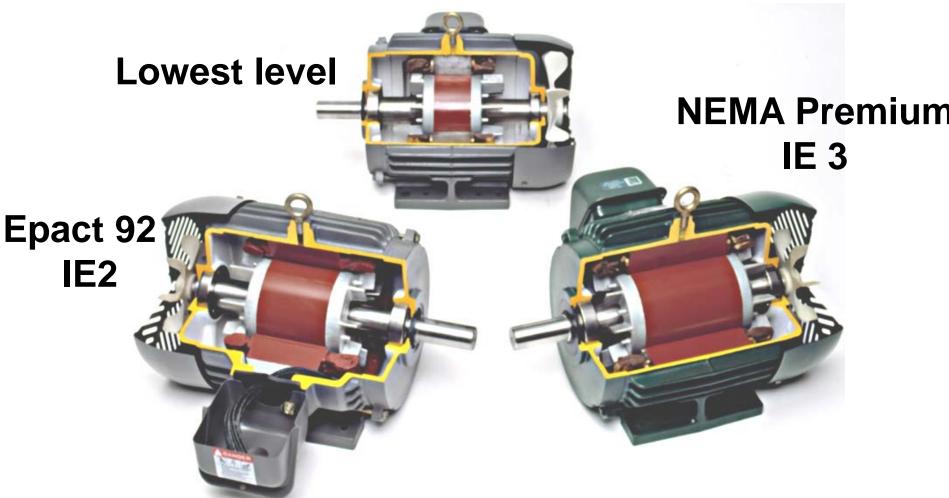








Progression of Active Material Required to Increase Efficiency







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