

ENERGY INDEPENDENCE AND SECURITY ACT OF 2007 (EISA)

The Energy Independence and Security Act of 2007 (EISA) was passed by Congress and signed into law on December 19, 2007.

The law affects the energy efficiency mandates for electric motors. EISA builds upon the previous EAct (Energy Policy Act of 1992) updating mandated efficiency standards for general purpose, three-phase AC industrial motors from 1 to 500 horsepower which are manufactured for sale in the United States. The U.S. Department of Energy (DOE) is responsible for establishing the rules to implement and enforce EAct.

All standard EAct efficiency motors (subtype 1) shall meet the minimum NEMA premium efficiency standards as defined in NEMA MG-1 (2006) Table 1212. This will apply to motors from 1 to 200 HP. In addition, the minimal efficiency for all motors will be changed to meet Tare 1 design.

All motors rated at 201 to 500 HP that are manufactured for use in the United States and its territories shall meet the EAct (2007) efficiency levels as established by the USC policy. The nominal full load efficiency is defined in NEMA MG-1 (2006) Table 1211. Standard efficiency motors will no longer be acceptable.

Fire-pump motors shall meet the EAct (2007) standards. The nominal full-load efficiency requirements are defined in NEMA MG-1 (2006) Table 1211.

The following motors which were previously excluded from energy legislation are now included in the Energy Policy and Conversation Act of 2007. These motors will now be required to meet the energy efficiency standards based on NEMA MG-1 (2006) Table 1211 as the minimum nominal efficiency.

- All U-Frame Manufactured Motors
- Quarry Duty or Design-C Torque Motors
- Close-Coupled Pump Motors
- All Footless Frame Motors
- Vertical Solid Shaft Motors – Normal Thrust Design
- All 8-Pole Motors (900 RPM)
- Induction Motors with Voltages Other than 230/460V, but Not Greater than 600V
[Policy Update April 2, 2009]

Many of the vacuum systems produced by DEKKER Vacuum Technologies use Baldor electric motors. Baldor has produced an FAQ document that answers many of the questions asked about how the new EISA standards impact the motors they produce. Please see the link below to read the entire document.

[Baldor FAQ document](#)

Remember, when calling for service, parts or system information, always have the pump or system model number and serial number ready.

[Click here to find your local authorized distributor](#)

