

Motor and Drive-System Efficiency Regulations

REVIEW OF REGULATIONS IN THE UNITED STATES AND EUROPE



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By John Malinowski,
William Hoyt,
Peter Zwanziger,
and Bill Finley

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THE U.S. DEPARTMENT OF ENERGY (DOE) ISSUED NEW efficiency regulations in May 2014 [1] for integral horsepower motors effective June 2016. This article will provide an update on these new regulations for 1–500-hp low-voltage (LV) ac induction motors. The scope of coverage has been expanded to cover more configurations than in previous regulations. National Electrical Manufacturers Association (NEMA) 56 frame-enclosed motors are covered. Motor regulations for Canada and Mexico generally follow what is adopted in the United States. Europe is updating succeeding regulations for LV motors (<1,000 V)