as follows: sections 411–33–07 and 411–37–26, IBR approved for § 431.12.

(6) IEC 60051–1:2016, Edition 6.0 2016–02, (''IEC 60051–1:2016''), Direct acting indicating analogue electrical measuring instruments and their accessories—Part 1: Definitions and general requirements common to all parts, IBR approved for appendix B to this subpart.

(7) IEC 60072–1, *Dimensions and Output Series for Rotating Electrical Machines—Part 1: Frame numbers 56 to 400 and flange numbers 55 to 1080*, Sixth edition, 1991–02; IBR approved as follows: clauses 2, 3, 4.1, 6.1, 7, and 10, and Tables 1, 2 and 4; IBR approved for § 431.12 and appendix B to this subpart.

(8) IEC 60079–7:2015, *Explosive atmospheres—Part 7: Equipment protection by increased safety ''e''*, Edition 5.0, 2015–06; IBR approved for § 431.12.

(9) IEC 61800–9–2:2017, *Adjustable speed electrical power drive systems—Part 9–2: Ecodesign for power drive systems, motor starters, power electronics and their driven applications—Energy efficiency indicators for power drive systems and motor starters*, Edition 1.0, 2017–03; IBR approved for appendix B to this subpart.

(d) *IEEE*. Institute of Electrical and Electronics Engineers, Inc., 445 Hoes Lane, P.O. Box 1331, Piscataway, NJ 08855–1331; (800) 678–IEEE (4333); *www.ieee.org/web/publications/home/index.html*.

(1) IEEE Std 112–2017 (''IEEE 112–2017''), *IEEE Standard Test Procedure for Polyphase Induction Motors and Generators*, approved December 6, 2017; IBR approved for § 431.12 and appendix B to this subpart.

(2) IEEE Std 114–2010 (''IEEE 114–2010''), *Test Procedure for Single-Phase Induction Motors*, December 23, 2010; IBR approved for appendix B to this subpart.

(e) *NEMA*. National Electrical Manufacturers Association, 1300 North 17th Street, Suite 1752, Rosslyn, Virginia 22209; (703) 841–3200; *www.nema.org/*.

(1) ANSI/NEMA MG 1–2016 (Revision 1, 2018) (''NEMA MG 1–2016''), *Motors and Generators*, ANSI-approved June 15, 2021; IBR approved for § 431.12 and appendix B to this subpart.

(2) NEMA Standards Publication MG1–1967 (''NEMA MG1–1967''), *Motors and Generators*, January 1968; as follows:

(i) *Part 11, Dimension;* IBR approved for § 431.12.

(ii) *Part 13, Frame Assignments—A–C Integral-Horsepower Motors;* IBR approved for § 431.12.

(f) *NFPA*. National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169–7471; (617) 770–3000; *www.nfpa.org/*.

(1) NFPA 20, *Standard for the Installation of Stationary Pumps for Fire Protection*, 2022 Edition, ANSI-approved April 8, 2021. IBR approved for § 431.12.

(2) [Reserved]

[77 FR 26634, May 4, 2012, as amended at 78 FR 75994, Dec. 13, 2013; 86 FR 21, Jan. 4, 2021; 87 FR 63656, Oct. 19, 2022]

§ 431.16 Test procedures for the measurement of energy efficiency.

For purposes of 10 CFR part 431 and EPCA, the test procedures for measuring the energy efficiency of an electric motor shall be the test procedures specified in appendix B to this subpart B.

§ 431.17 [Reserved]

§ 431.18 Testing laboratories.

(a) Testing pursuant to § 431.17(a)(5)(ii) must be conducted in an accredited laboratory for which the accreditation body was:

(1) The National Institute of Standards and Technology/National Voluntary Laboratory Accreditation Program (NIST/NVLAP); or

(2) A laboratory accreditation body having a mutual recognition arrangement with NIST/NVLAP; or

(3) An organization classified by the Department, pursuant to § 431.19, as an accreditation body.

(b) NIST/NVLAP is under the auspices of the National Institute of Standards and Technology (NIST)/National Voluntary Laboratory Accreditation Program (NVLAP), which is part of the U.S. Department of Commerce. NIST/NVLAP accreditation is granted on the basis of conformance with criteria published in 15 CFR part 285. The National Voluntary Laboratory Accreditation Program, ''Procedures and General Requirements,''

NIST Handbook 150–10, April 2020, (referenced for guidance only, *see* § 429.3 of this subchapter) present the technical requirements of NVLAP for the Efficiency of Electric Motors field of accreditation. This handbook supplements NIST Handbook 150, National Voluntary Laboratory Accreditation Program ''Procedures and General Requirements,'' which contains 15 CFR part 285 plus all general NIST/NVLAP procedures, criteria, and policies. Information regarding NIST/NVLAP and its Efficiency of Electric Motors Program (EEM) can be obtained from NIST/NVLAP, 100 Bureau Drive, Mail Stop 2140, Gaithersburg, MD 20899–2140, (301) 975–4016 (telephone), or (301) 926–2884 (fax).

[69 FR 61923, Oct. 21, 2004, as amended at 77 FR 26635, May 4, 2012; 87 FR 63657, Oct. 19, 2022]

ENERGY CONSERVATION STANDARDS

§ 431.25 Energy conservation standards and effective dates.

(a) Except as provided for fire pump electric motors in paragraph (b) of this section, each general purpose electric motor (subtype I) with a power rating of 1 horsepower or greater, but not greater than 200 horsepower, including a NEMA Design B or an equivalent IEC Design N motor that is a general purpose electric motor (subtype I), manufactured (alone or as a component of another piece of equipment) on or after December 19, 2010, but before June 1, 2016, shall have a nominal full-load efficiency that is not less than the following:

TABLE 1—NOMINAL FULL-LOAD EFFICIENCIES OF GENERAL PURPOSE ELECTRIC MOTORS (SUBTYPE I), EXCEPT FIRE PUMP ELECTRIC MOTORS

Motor horsepower/Standard kilowatt equivalent	Nominal full-load efficiency					
	Open motors (number of poles)			Enclosed motors (number of poles)		
	6	4	2	6	4	2
1/.75	82.5	85.5	77.0	82.5	85.5	77.0
1.5/1.1	86.5	86.5	84.0	87.5	86.5	84.0
2/1.5	87.5	86.5	85.5	88.5	86.5	85.5
3/2.2	88.5	89.5	85.5	89.5	89.5	86.5
5/3.7	89.5	89.5	86.5	89.5	89.5	88.5
7.5/5.5	90.2	91.0	88.5	91.0	91.7	89.5
10/7.5	91.7	91.7	89.5	91.0	91.7	90.2
15/11	91.7	93.0	90.2	91.7	92.4	91.0
20/15	92.4	93.0	91.0	91.7	93.0	91.0
25/18.5	93.0	93.6	91.7	93.0	93.6	91.7
30/22	93.6	94.1	91.7	93.0	93.6	91.7
40/30	94.1	94.1	92.4	94.1	94.1	92.4
50/37	94.1	94.5	93.0	94.1	94.5	93.0
60/45	94.5	95.0	93.6	94.5	95.0	93.6
75/55	94.5	95.0	93.6	94.5	95.4	93.6
100/75	95.0	95.4	93.6	95.0	95.4	94.1
125/90	95.0	95.4	94.1	95.0	95.4	95.0
150/110	95.4	95.8	94.1	95.8	95.8	95.0
200/150	95.4	95.8	95.0	95.8	96.2	95.4

(b) Each fire pump electric motor that is a general purpose electric motor (subtype I) or general purpose electric motor (subtype II) manufactured (alone or as a component of another piece of equipment) on or after December 19, 2010, but before June 1, 2016, shall have a nominal full-load efficiency that is not less than the following: