
First published in the *Government Gazette*, Electronic Edition, on 28 September 2018 at 5 pm.

No. S 603

ENERGY CONSERVATION ACT
(CHAPTER 92C)

ENERGY CONSERVATION
(REGULATED GOODS AND REGISTERED SUPPLIERS)
(AMENDMENT) REGULATIONS 2018

In exercise of the powers conferred by section 78 of the Energy Conservation Act, the Minister for the Environment and Water Resources makes the following Regulations:

Citation and commencement

1. These Regulations are the Energy Conservation (Regulated Goods and Registered Suppliers) (Amendment) Regulations 2018 and come into operation on 1 October 2018.

Amendment of regulation 2

2. Regulation 2 of the Energy Conservation (Regulated Goods and Registered Suppliers) Regulations 2017 (G.N. No. S 748/2017) (called in these Regulations the principal Regulations) is amended —

- (a) by deleting the word “and” at the end of paragraph (d) of the definition of “energy efficiency”;
- (b) by inserting the word “and” at the end of paragraph (e) of the definition of “energy efficiency”, and by inserting immediately thereafter the following paragraph:
 - “(f) in relation to a motor, means the Nominal Efficiency as defined in the First Schedule;”;and
- (c) by inserting, immediately after the definition of “regulated lamp”, the following definition:

““regulated motor” means any motor described in Part 1 of the Sixth Schedule to the Energy

Conservation (Prescribed Regulated Goods)
Order 2017;”.

Amendment of regulation 3

3. Regulation 3 of the principal Regulations is amended by deleting the full-stop at the end of paragraph (e) and substituting a semi-colon, and by inserting immediately thereafter the following paragraph:

- “(f) a regulated motor —
- (i) must be registered under regulation 4;
 - (ii) must comply with the applicable energy efficiency standards under regulation 5; and
 - (iii) must be accompanied by the applicable product information in accordance with regulation 8A.”.

Amendment of regulation 5

4. Regulation 5 of the principal Regulations is amended by inserting, immediately after the word “requirements”, the words “and other requirements affecting or relating to the energy efficiency standard”.

New regulation 8A

5. The principal Regulations are amended by inserting, immediately after regulation 8, the following regulation:

“Product information requirements

8A.—(1) The regulated goods subject to this regulation must be accompanied by the applicable product information specified in paragraph 4A of the First Schedule.

(2) For a regulated motor, the applicable product information must be marked durably in a visible manner on the rating plate of the regulated motor.”.

New regulation 12A

6. The principal Regulations are amended by inserting, immediately before regulation 13 in Part 4, the following regulation:

“Exempted supply under section 12(6) of Act

12A. The supply of a regulated motor is a prescribed supply for the purposes of section 12(6) of the Act.”.

Amendment of First Schedule

7. The First Schedule to the principal Regulations is amended —

(a) by deleting the Schedule reference and substituting the following Schedule reference:

“Regulations 2, 5, 6 and 8A”;

(b) by inserting, immediately after the definition of “IEC” in paragraph 1, the following definitions:

““IEEE” means the Institute of Electrical and Electronics Engineers;

“International Energy Efficiency class” or “IE”, in relation to a motor, has the same meaning as in IEC 60034-30-1 (2014);”;

(c) by inserting, immediately after the definition of “ ϕ ” in paragraph 1, the following definition:

““Minimum Nominal Efficiency” means the number determined in accordance with the following formula:

$$A \times \left[\log_{10} \left(\frac{P}{1kW} \right) \right]^3 + B \times \left[\log_{10} \left(\frac{P}{1kW} \right) \right]^2 + C \times \left[\log_{10} \left(\frac{P}{1kW} \right) \right] + D$$

where —

(a) A is 0.3569 for a 2-pole motor, 0.0773 for a 4-pole motor and 0.1252 for a 6-pole motor;

(b) B is -3.3076 for a 2-pole motor, -1.8951 for a 4-pole motor and -2.613 for a 6-pole motor;

(c) C is 11.6108 for a 2-pole motor, 9.2984 for a 4-pole motor and 11.9963 for a 6-pole motor;

(d) D is 82.2503 for a 2-pole motor, 83.7025 for a 4-pole motor and 80.4769 for a 6-pole motor; and

(e) P is the rated power output of the motor;”;

(d) by inserting, immediately after the definition of “N” in paragraph 1, the following definition:

““Nominal Efficiency” or “ η_N ”, in relation to a motor, means the ratio of mechanical output power to the electrical input power, expressed in percentage, as specified in the test report, and at rated voltage and frequency;”;

(e) by inserting, at the end of the paragraph heading of paragraph 2, the word “, etc.”;

(f) by inserting, immediately after the words “efficiency standard” in paragraph 2, the words “and other requirements affecting or relating to the energy efficiency standard”;

(g) by deleting the full-stop at the end of item 14 of paragraph 2, and by inserting immediately thereafter the following items:

“	15. Motors with rated output of or exceeding 0.75 kW and below 200 kW	η_N at rated output \geq Minimum Nominal Efficiency
	16. Motors with rated output of or exceeding 200 kW and not exceeding 375 kW	<p>(a) for 2-pole motors: η_N at rated output \geq 95.8;</p> <p>(b) for 4-pole motors: η_N at rated output \geq 96; and</p> <p>(c) for 6-pole motors: η_N at rated output \geq 95.8</p>

(h) by inserting, immediately after paragraph 4, the following paragraph:

“Product information requirements

4A. The product information set out in the second column applies to the regulated goods set out opposite in the first column:

*First column**Second column*

1. Motor

(a) year of manufacture;

(b) International Energy Efficiency class, as specified in the test report; and

(c) Nominal Efficiency at rated output power

”; and

(i) by inserting, immediately after sub-paragraph (e) of paragraph 5, the following sub-paragraph:

“ (f) Motor All — Method 2-1-1B of IEC 60034-2-1 (2014) or Method B of IEEE 112 (2004) ”.

Amendment of Second Schedule

8. The Second Schedule to the principal Regulations is amended —

(a) by inserting, immediately after paragraph (e) of item 1, the following paragraph:

“ (f) motor \$57 ”; and

(b) by inserting, immediately after paragraph (e) of item 2, the following paragraph:

“ (f) motor \$32 ”.

Made on 25 September 2018.

ALBERT CHUA
*Permanent Secretary,
Ministry of the Environment and
Water Resources,
Singapore.*

[MEWR C030/01/129 Vol. 6; AG/LEGIS/SL/92C/2015/2 Vol. 2]