

Werdohl, January 2023

Ecodesign Directive 2009/125/EC Electric motors according to Regulation (EU) 2019/1781

Regulation (EU) 2019/1781 defines the requirements and scope for electric motors under the Ecodesign Directive 2009/125/EC, repealing Regulation (EC) 640/2009.

This statement refers to the regulation currently in effect, dated Oct. 01, 2019. (<https://eur-lex.europa.eu/legal-content/DE/TXT/PDF/?uri=CELEX:32019R1781&qid=1614944764424&from=EN>).

The regulation defines the following minimum efficiencies and deadlines:

- 1) **July 1, 2021** : Minimum efficiency class **IE3** for **3~** three-phase motors (2-,4-,6-,8-pole) in the power range **0.75 - 1000 kW**
- 2) **July 1, 2021** : Minimum efficiency class **IE2** for **3~** three-phase motors (2-,4-,6-,8-pole) in the power range **0.12 - 0.749 kW**
- 3) **July 1, 2023** : Minimum efficiency class **IE2** for **1~** single phase motors (2-,4-,6-,8-pole) in the power range **>= 0.12 kW**

Brinkmann Pumps primarily uses its own Brinkmann motors in the power range 0.12 - 15 KW for the pump program. The requirements to 1) and 2) are already fulfilled by all Brinkmann motors.

For the single-phase AC motors according to 3), the following aspects result:

- All previous 0.12 kW - 0.4 kW motors will be replaced by a new generation of motors in efficiency class IE2. Motors with larger rated powers are no longer required.
- All previous motors are replaced by the rated power (0.32 kW / 50Hz) or (0.365 kW / 60 Hz)
- Bifrequency ratings are omitted (separate versions for 50Hz or 60 Hz)
- Resulting geometry changes are defined in Technical Information TI71706

Not included in the scope of the directive are fan less drives (TENV design) and motors with rated powers <0.12kW. This pumps will not be changed in motor power and geometric dimensions.



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