

New EU regulations for electric motors

From 1st of July 2021, new motor efficiency rules are applied for electric motors, in accordance with EU revision 2019/1781, 640/2009.

We would like to draw your attention to that 2-, 4-, 6-, and 8-pole three-phase motors with a power of 0,12-74,9 kW can be affected. Earlier exceptions for brake motors, and frequency regulated motors will no longer be valid.

In general, the new regulation states that motors in the power range of 0,12-0,74 kW shall have IE2 class, and motors with power 0,75-74,9kW shall be classified IE3.

Dimensions for height to shaft and mounting holes will not change, but other adaptations may apply:

- Non confirmed dimensions as length and width
- Weight
- RPM
- Current rating

In extraordinary cases, a change of frame size can be needed to apply same power

To reach the higher efficiency, the motors will be equipped with more copper and thicker wiring, which will affect the cost of the motor.

The new regulations applies for import and production of new motors into the EU, motors on stock will be allowed to consume and use which means that the introduction of new motor classification and types will be applied in steps.

If you have questions how this will affect your specific application/ product from Swedrive, please contact us!

Best Regards
SWEDRIVE AB