

Werdohl, 24 March, 2016

DEPARTMENT OF ENERGY (DOE) – INTEGRAL HP MOTOR FINAL RULE 10 CFR PART 431

PART431 – ENERGY EFFICIENCY PROGRAM FOR CERTAIN COMMERCIAL AND INDUSTRIAL EQUIPMENT

In its Code of Federal Regulations the DOE defines minimum efficiency requirements for electric motors. Electric motors (Subpart B - Electric Motors) and small electric motors (Subpart X - Small Electric Motors) are considered separately. The frame size of the motor serves as distinction. The Integral HP Motor Rule replaces thereby the regulations according to EISA 2007.

Subpart B - Electric Motors

§431.25: The DOE defines with its amendment regarding electric motors dated May 29, 2014, minimum efficiency requirements for NEMA Design B and IEC Design N (> size 80) effective with production date starting June 1, 2016. These efficiency ratings correspond to the premium efficiency level according to NEMA MG1, Table 12-12, or Part 20, Table B (IE3).

In the defined range Brinkmann utilizes motors with performance ratings of 1.5kW/60Hz to 15kW/60Hz. These motors are subject to this directive.

For the range 1.5kW to 15kW/60Hz Brinkmann Pumps will manufacture motors with efficiency rating NEMA premium as standard starting on June 1, 2016. This efficiency rating for this motor range is currently available for many product lines as an option with an externally supplied motor.

NEMA premium efficiency is also a requirement for all motors that are imported into the USA after June 1, 2016.

Subpart X - Small Electric Motors

§431.42: The DOE defines small electric motors through frame size (NEMA-equivalent IEC- frame size <=80) as well as through application, based on NEMA-Standard MG1-1987.

In the defined size range Brinkmann uses motors with performance of up to 1.27kW/60Hz. These motors do not meet the application definition based on NEMA MG1-1987, due to their construction type and usage as TEFC pump motors (closed coupled motors) or pump drives (definite or special purpose motors).

Therefore, the Small Motor Rule does not apply to Brinkmann Pumps with drive performance <=1.27kW. §431.446: Effective starting March 9, 2015 and March 9, 2017 respectively.

We do not expect this directive to cause any changes for importation to the USA after June 1, 2016.

Disclaimer:

These assessments are based on Brinkmann Pumps' current knowledge of underlying norms and regulations. Brinkmann Pumps will not assume any liability regarding product conformity. Therefore we recommend to verify the conformity of all components in conjunction with the completed system.

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