

LD LO Latest News – Outlook

IE Changeover according to new efficiency standards

LOHER

Concerned are the motors:

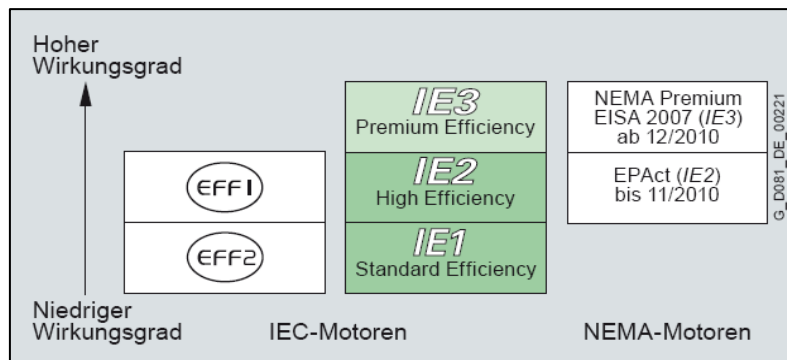
- up to 1000V 50/60Hz
- Power range 0.75 – 375kW
- All mounting types
- Duty type S1 / Motor for line supply

Not concerned are:

- 8-pole motors
- Duty type S2 ... S9
- pole-changing motors
- Synchronous motors

Excluded are:

- Ex – motors acc. to ATEX 94/9/EC
- Motors with directly mounted-on brake
- Smoke extraction motors >400°C
- Built-in motors as well as completely submerged motors
- Motors developed for site altitude > 1000m and $T_{amb} > 40^{\circ}\text{C}$ resp. $< -15^{\circ}\text{C}$
- Coolant temperature >25°C or <5°C for water-cooled motors
- Motors which are integrated in a system and the efficiency of which can only be measured in the complete system



**2005/32/EC (EuP Directive) /
IEC 60034-30**

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⇒ For different reasons many Loher motors do formally not come under this directive (approx. 2/3 of the products Ex motors, lower operating temperature other than stamped, etc.).

BUT: Loher will nevertheless,

- where the standard is applicable, identify the motors with the efficiency class acc. to 60034-30 and the corresponding efficiency levels and
- change as many products as technically possible to versions which meet the efficiency classes required by the directive, even if formally they do not come under the directive.

Exception: **Ex e motor!** Here IE1 should be applied to the greatest extent avoiding re-certifications. This is also in accordance with the VIK recommendation to be published shortly.

The following rule will be defined for the Exe motor:

- | | | |
|---|---|---------------|
| 1) For new electrical design with new certificate | → | Design in IE2 |
| 2) Existing design and certificate | → | Design in IE1 |

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Excluded from changeover to IE2:

- Smoke extraction motors of Class F400
- Water-cooled motors
- Heavy starting
- reduced starting current contrary to the new IE2 list



Changeover of quotations to IE2:

- Frame sizes 250 - 355 1 Oct 2010
- Frame sizes 160 - 225 1 Nov 2010
- Frame sizes 80 - 132 1 Mar 2011

⇒ 2 months after a.m. dates the orders will be changed (automatically).

Existing orders will be changed to IE2 design as of delivery date 1 May 2011, if possible.

⇒ Adjusting MLFB (ending 2), Loher type code remains unchanged