

**PRESS RELEASE October 2010**

## Cores for current transformers in electronic motor protection with excellent performance

Electronic Motor Protection relays are getting increasingly popular all over the world. They become considerably simpler and cheaper as a result of the use of newly developed current sensor systems like high reliable and precision current transformers. Current transformers with cores made of highly permeable soft magnetic alloys are the best solution for a protection relays to sense motor current in a reliable and safety way, because the increase in motor operating temperature reduces the winding insulation life, accurate thermal overload protection is critical.

**MAGNETEC** cores offer a unique combination of high-permeability and high-linearity for related current transformers in electronic motor protection relays. Using the soft magnetic alloys **MAGNEPERM®** and **NANOPERM®** will benefit in low amplitude deviation with high-linearity phase curves are the main advantages of the magnetic cores. Current-transformer-based motor protection relays deliver outstanding advantages in case of higher sensitivity, years of reliable functioning and maximum electrical safety in comparison to e.g. standard thermal overload relays.

The use of **MAGNETEC** cores for current transformers in motor protection relay will bring:  
help in extending life time of motor, help in optimising motor size, help in planning maintenance work and protects the drives from mechanical damage.



Picture: Motor-protective Circuit-breaker PKE from Eaton Moeller

Conclusion: Current transformers for electronic motor protection relays should incorporate high performance soft magnetic cores from **MAGNETEC**.

### Further Informations:

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