

PRODUCT NOTICE

Effective February 3, 2025¹, Kollmorgen AKM, AKM2G and AKMA motors with HIPERFACE DSL® capacitive encoders (standard “GU” option, EEM37-2KF0A017A) are approved for use with functionally safe drive systems, which fully comply with standard IEC 61800-5-2 of the Machinery Directive 2006/42/EC. This includes both brake (“2”) and non-brake (“N”) configurations.

This approval is based on a Kollmorgen self-assessment of the motor production process, as described below:

- Kollmorgen maintains a Functional Safety (FS) Management system for motors, according to the applicable requirements listed in standard IEC 61508-1/-2/-3.
- Kollmorgen guarantees: (1) functional safety encoder is installed to meet the requirements listed in standard 61800-5-3; (2) functional safety encoder is tested according to manufacturer's instruction; (3) Brake and FS-encoder traceability is maintained from supplier to customer, and (4) employees involved in FS processes are trained annually.
- An internal audit, Management review and external TÜV assessment is performed annually to ensure sustained adherence to documented procedures.
- Kollmorgen change control of FS-related parts or processes includes mandatory Functional Safety Management review and approval.

AKM family motors subject to this approval **cannot** provide a safe state as a standalone product and **must** rely on the certified drive system to create a safe state based on feedback supplied by the motor.

Note: Sub-systems utilizing Kollmorgen AKM, AKM2G and AKMA and Kollmorgen AKD2G drive are TÜV-certified, according to standard IEC 61800-5-2.

When used as part of a non-AKD2G drive system, the following attributes of the AKM2G motor must be recognized:

1. AKMxxx-xxxxGUxx, AKM2G-xxx-xxxxGUxx and AKMAxxx-xxxxGUxx – Safe Feedback HIPERFACE DSL® Option
 - The HIPERFACE DSL® capacitive encoder (EEM37-2KF0A017A) from SICK is a certified safe motor feedback device.
 - The motor feedback system is capable of up to safety level SIL2 (IEC 62061) when installed as part of a drive system certified according to IEC 61800-5-2.
2. AKMxxx-xxx2xxxx, AKM2G-xxx-xxx2xxxx and AKMAxxx-xxx2xxxx –Spring-Applied Brake Option (if applicable)
 - Spring-applied brakes are not certified safe components but rather “well-tried components” according to ISO 13849-1, Cat. 2.
 - This type of brake is considered “fail-safe” because the deenergized state is also the safe state; however, operation of the brake must still be controlled by the drive in a functional safe system and the safety level is determined by the architecture of the drive system.

Please direct additional comments and technical questions to Kollmorgen Engineering.

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¹ AKM Serial No. 2506x0001; AKM2G Serial No. 2506xx0001; AKMA Serial No. 2506xx0001 and Later (x stands for wildcard)