**COLLECTION OF IECEx / ExTAG DECISIONS**

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| Standard:  ISO 80079-36:2016 | **Clauses:**  6.5 | **Draft Decision Sheet:**  ExTAG/671/CD |
| **Subject:**  Protecting electrical ignition sources that are part of electromechanical equipment  **Status of document:**  Approved | **Key words:**   * Electrical ignition sources * Electromechanical equipment * Type of Protection “h” | Date: May 2022 **Originator of proposal:**  UL LLC  **TC/SC involved:**  IEC/SC 31M WG 1 |

**QUESTION:**

Can Type of Protection “h” from ISO 80079-36 be used to protect electrical ignition sources that are part of electromechanical equipment (for example, the application of Type of Protection “b” to the rotor of an electric machine)?

**ANSWER:**

No – While Type of Protection “h” can be used to protect non-electrical ignition sources that are part of electromechanical equipment (for example, mechanically generated sparks from gears of an electric gearmotor), it cannot be used to protect electrical ignition sources (for example, the induced voltage and resulting current on a rotor of an electric machine).

This position is based on 6.5 of ISO 80079-36:2016 on “Electrical ignition sources except stray current” which reads, “Where electrical equipment is used in conjunction with mechanical equipment, the electrical equipment shall comply with the relevant parts from the IEC 60079 series.”