

1. GENERAL

The M line range of induction motors (types: MGI, MGF, MGL, MGR, MGW sizes: 400, 450, 500, 560, 630, 710, 800, 900, 1000, 1120, 1250 (NEMA equivalent) with a range of 2 to 24 poles, 3 phase winding for 50Hz or 60Hz and up to 13.8kV, material comprised cast iron or fabricated mild steel frames for horizontal or vertical, foot or flange mounting) is currently certified under IECEx TUR 10.0013X and has been assessed to IEC 60079-0:2007-10, IEC 60079-2:2007-02. The motor can optionally be used as a generator.

- The possible ambient temperature range changed to -60°C to +55°C. It has to be verified for each motor individually and depends on the range of suitable materials, accessories, equipment and use of the de-rating data.
- Standard update to IEC 60079-0:2011 and IEC 60079-2:2014
- additional equipment and components were added

2. INSTALLATION INSTRUCTIONS

It is the manufacturer's responsibility to supply installation instructions with each unit offered for sale as required by IEC/SANS 60079-0 Clause 30.

3. SPECIAL CONDITIONS FOR SAFE USE (denoted by X after certificate number)

1. The installer must ensure that any equipment certified cable gland and stopping plugs fitted to the terminal box are suitably IECEx/ATEX certified. Any unused cable entries must be fitted with IECEx/ATEX certified stopping plugs. When installed the cable gland or stopping plugs must maintain the marked IP rating of the enclosure.
2. On auxiliary terminals the conductor insulation shall extend to within 1mm of the terminal throat.
3. Motor designed for T4 and variable frequency drives are fitted with stator winding temperature detection devices that must be connected to the motor control circuit. For other stator winding methods, the connection of the winding temperature detectors is optional. The stator RTDs and thermistors can be connected via a standard industrial controller provided that the controller is located in a non-hazardous area.
4. Anti-condensation heaters shall not be energized when the machine is energized.
5. When auxiliary apparatus is fitted that is not covered by this certificate the installer and/or user, as appropriate, must ensure that it is suitable for the conditions of use and that it does not invalidate this certificate .
6. The special conditions from each accessories that have their own IECEx/ATEX certificate has to be fulfilled.
7. When the machine is being used as an asynchronous generator precautions must be taken for start-up and operation to ensure the requirements of the certification are met. Refer to the manufacturers Installation, Operation and Maintenance Manual for full details.
8. The manufacturer has to declared each motor according to Zone and temperature class which the motor can be used.
9. The equipment must have a label indicating the direction of rotation.
10. It is the users responsibility to assure that the motors will be installed in accordance with the pertinent standard for "Electric Installations in Explosives Atmospheres" (IEC 60079 -14) and to manufacturer 's recommendations. It is the users responsibility to assure that the motors will be installed in accordance with the pertinent standard for "Electric Installations in Explosives Atmospheres" (IEC 60079 -14) and to manufacturer 's recommendations

Based on the following documentation: IECEx TUR 10.0013X

