Addendum to the motor Declaration of Conformity for variable speed application

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Pages: 1/1

Low voltage motors of protection types Ex d, Ex de and Ex t driven by converters and equipped with surface temperature protection

Asynchronous motors
of type designation M3JP / M3KP / M3GP (Ex t) / M3DP and
of voltage range 220V - 690 V

Marking of motors: CE 0081    II 2G / 2GD / 2D / 3D

are certified to be driven with voltage source PWM- type frequency converters if below mentioned conditions are met.

The reference of the EC Type examination corresponding to the motor is indicated in the EC declaration of conformity delivered with the motor.

Surface temperature protection:
The motor is equipped with thermistors or PT100s, embedded in the winding heads, in order to protect the motor according to the marked surface temperature class. This feature is approved for above mentioned motor types by the ExNB LCIE, that has assessed the thermistor protection in its Assessment Test Report LCIE No. 60029407-526485.

Thus, we can hereby confirm the conformity of above listed ABB ATEX certified motors driven by converters to the applicable ATEX Directives under the following conditions:

1. The applicable instructions in the manual Low Voltage Motors for explosive atmospheres must be followed.
2. The applicable instructions related to winding insulation, dimensioning and bearing current elimination given in respective product catalogues or eventual separate documents must be followed.
3. The installation (e.g. earthing and cabling), start-up and operation of the frequency converter must be carried out according to the manuals of the frequency converter concerned.
4. A rating plate for frequency converter operation is fixed on the motor with the loadability, converter type and thermistor data.
5. The Assessment Test Report No. 60029407-526485 states, that the thermistor or PT100 must be connected to a relay that must function independently of any measurement or control devices for operation according to annex II of the directive 94/9/EC § 1.5.1, § 1.5.2 and § 1.5.3.
   The thermal relay shall respect the rating given for the protection of the motor as specified in the instructions or on the name plate. It shall respect the product standard requirements, be fail safe, have a restart lockout and actuate without intermediate software command.
   Furthermore such relay used in safe area shall be ATEX identified by the end-user in such a way to ensure that no undesirable rating modification will happen.

The end user has the responsibility to ensure that above mentioned instructions and application data are respected. Note that national regulations or practices may have additional requirements.

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