Addendum to the Declaration of Conformity for variable speed application

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

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

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

are certified to be driven with voltage source PWM-type frequency converter if the following conditions are met:

Instructions for safe installation and start-up:
The reference of the type examination certificate 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 ABB ATEX certified driven by converters to the applicable ATEX Directives under the following conditions:

1. The applicable instructions for installation and start-up in the manual Low Voltage Motors for explosive atmospheres must be followed.
2. The applicable instructions for dimensioning, loadability and bearing current elimination of the catalogue Motors for explosive atmospheres or of other instructions given by ABB must be followed.
3. The installation, start-up and operation of the frequency converter must be carried out according to the manuals of the specific converter.
4. A rating plate for frequency converter operation is fixed on the motor with the converter, load and thermistor data. The end user shall ensure that the application data is respected.

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 2014/34/EU § 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.

Signed for and on behalf of: ABB Oy, Motors and Generators

Place and date of issue: Vaasa, Finland, 2020-05-26

Harri Mykkänen
Vice President

3GZF506930-35F