



MANUFACTURER'S DECLARATION

Thermal motor protection / Inverter

Subject: Explosion-protected three-phase asynchronous motors according to Directive 94/9/EEC with the ignition protection type "Flameproof enclosure systems" as per EN 60079-1, EN 60079-7 and EN 61241-1

Designation: *Ex II 2G Ex d IIC T3 – T6 bzw. Ex de IIC T3 – T6*
Ex II 2G Ex d IIB T3 – T6 bzw. Ex de IIB T3 – T6
Ex II 2D Ex tD A21 IP6X T200 °C – T85 °C

Type designation: BD ..., CD ...

Dimensions/

Test certificate: According to manufacturer's data on the motor rating plate

The EC-type-examination Certificate relates to the design, examination and tests of the specified equipment and confirms compliance with the harmonised European standards for electrical motors intended for use in explosion-endangered zones. The certificates also cover, as permissible versions of the motors, the installation of temperature sensors in the motor windings for the purposes of temperature monitoring.

The built-in temperature sensors comply with DIN 44 081. With use of tripping units, which were tested by the PTB in combination with temperature sensors as per DIN 44 081, the protection required by DIN EN 60079-14 (VDE 0165) against the impermissible generation of heat as a result of overloading is ensured, solely through the temperature monitoring systems, for all operating conditions without any limitations. The manufacturer has provided the proof for this statement by thermal testing, and has recorded the results. The motors of F&G with the temperature class T4 are available as 2 and 4 pole up to 200 kW, 6 pole up to 160 kW and 8 pole up to 132 kW including the frame size 315.

Motors fitted with the above-mentioned temperature monitoring systems can be used for the modes S1 to S10 (see DIN EN 60034-1, VDE 530) as well as for supply by any type of static frequency converter.

The manufacturer determines the dimensions in compliance with the guidelines of the PTB, and documents them on the rating plate of the motor.

Through the designation the manufacturer confirms that the individual tests have been carried out in accordance with the European standards and that the motors conform with the documents and test specimens submitted to the testing body.

For the installation and operation of the motors, due attention must be paid to the provisions of DIN EN 60079-14 (VDE 0165) and DIN EN 61241 (VDE 0170 part 15), the ATB operating manual and the information on the rating plate, in addition to the generally applicable regulations.

ATB NORDENHAM GmbH

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Nordenham, 14. November 2012