

Increased Safety Thermal-Ribbon™ RTDs

ATEX  II 2 G Ex e IIC Gb
IECEX Ex e IIC

1. Description

The Thermal-Ribbon™ Resistance Temperature Detectors (RTDs), conforming to the requirements of Minco Design Definition B212716 are intended to be built into the stator slots of rotating electrical machines, or installed within protective locations or enclosures in other equipment, in types of protection Ex e II, Ex p II or Ex d II C.

Versions for 2-, 3- or 4-wire measurement circuits are available.

Operating temperature range: -50°C to +185°C

2. Electrical Data

Measuring current: ≤ 10 mA
Power (under fault conditions): $\leq 1,5$ W
Test voltage dielectric strength test: 500 V r.m.s., duration 1 minute

3. Mounting Instructions

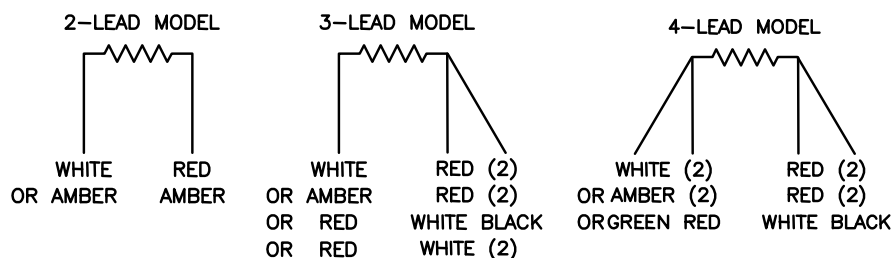
Type of protection Increased safety "e" for the Resistance Temperature Detectors is obtained by the construction of the measuring element and its fit in slots of the stator windings of rotating electrical machines, or within protective enclosures in other equipment, in type of protection increased safety "e" per EN 60079-7, flameproof enclosure "d" per EN 60079-1 or pressurized apparatus "p" per EN 60079-2.

For type of protection increased safety "e", the Resistance Temperature Detector, mounted in the rotating electrical machine, must be subjected to the dielectric strength tests, required for the rotating electrical machine.

The temperature detector must be installed in such a way that it is protected against mechanical danger.

The leads of the Resistance Temperature Detector, for connection to the measuring circuit, must be connected to suitable Ex e terminals in a suitable Ex e enclosure.

4. Electrical Connections - RTD Connections



5. Attestation**Attestation Of Conformity**

Thermal-Ribbon™ Resistance Temperature Detectors (RTDs), Type:

All models conforming to the requirements of Design Definition B212716.

The products defined above conform to:

EN 60079-0: 2009 Explosive atmospheres - Part 0: Equipment - General requirements

EN 60079-7: 2007 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

IEC 60079-0: 2007-10 Explosive atmospheres - Part 0: Equipment - General requirements

IEC 60079-7: 2006-07 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

Certificate LCIE 13 ATEX 3022 U

Certificate IECEx LCIE 13.0019 U

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