



Certificate of Compliance

Certificate: 2533905

Master Contract: 154402

Project: 2533905

Date Issued: August 28, 2012

Issued to: **Minco Products Inc.**
7300 Commerce Lane NE
Minneapolis, MN 55432
UNITED STATES OF AMERICA

The products listed below are eligible to bear the CSA Mark shown



Issued by: Eric Giusti
Eric Giusti

PRODUCTS

CLASS – 2258 02 – PROCESS CONTROL EQUIPMENT – For Hazardous Locations

Ex e IIC Gb

The Resistance Temperature Detectors (RTD's) for Stator Windings, Types S100050 ... - S100055 ..., S200050 ... - S200055 ..., MS . . 200, MS . . 251, MS . . 302, MS . . 353, MS . . 404, MS . . 455, TS102052, S102040 and S207977 are intended to be built in to the stator slots of rotating electrical machines. Versions for 2-, 3- or 4-wire measurement circuits are available.

The Bearing Probe Resistance Temperature Detectors S207927 series are intended to be used for motor bearing temperature monitoring. Versions for 2-, 3- or 4-wire measurement are available.

Stator Windings Operating temperature range -50 °C to +180 °C.
Bearing probe Operating temperature range -60 °C to +180 °C.

Electrical data

Stator Windings	Measuring current	max. 10 mA
	Power	max. 1,5 W
Bearing probe	Measuring current	max. 5 mA
	Power	max. 0,49 W



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APPLICABLE REQUIREMENTS

- CAN/CSA-C22.2 No. 61010.1-04 - Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use, Part 1: General Requirements.
- CAN/CSA-C22.2 No.0-M91 General Requirements – Canadian Electrical Code, Part II
- CAN/CSA C22.2 No. 60079-0:11 Electrical Apparatus for Explosive Gas Atmospheres – Part 0: General Requirements
- CAN/CSA C22.2 No. 60079-7:12 Electrical Apparatus for Explosive Gas Atmospheres – Increased safety "e"

MARKINGS

All markings shall be in accordance with the requirements of the local regulatory authorities and related standards.

On both RTD's there is a reference to the certificate which allows identification of the types

Note - Jurisdictions in Canada may require these markings to also be provided in French language. It is the responsibility of the manufacturer to provide bilingual marking, where applicable, in accordance with the requirements of the Provincial Regulatory Authorities. It is the responsibility of the manufacturer to determine this requirement and have bilingual wording added to the "Markings".

ALTERATIONS

Marking as above

FACTORY TESTS

The routine tests shall be carried out according to Clause 7.1 of the CAN/CSA C22.2 No. 60079-7. The routine test is described in the following documents: IRS S102040 rev. C, dated 11-02-2009, SPI 75-0739 rev.-, dated 24-08-2011.



Supplement to Certificate of Compliance

Certificate: 2533905

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*The products listed, including the latest revision described below,
are eligible to be marked in accordance with the referenced Certificate.*

Product Certification History

Project	Date	Description
2533905	August 28, 2012	Original Certification. RTD Types, The Resistance Temperature Detectors (RTD's) for Stator Windings, Types S100050 ... - S100055 ..., S200050 ... - S200055 ..., MS . . 200, MS . . 251, MS . . 302, MS . . 353, MS . . 404, MS . . 455, TS102052, S102040 and S207977. The Bearing Probe Resistance Temperature Detectors S207927 series are intended to be used for motor bearing temperature monitoring. Versions for 2-, 3- or 4-wire measurement are available.