



# Certificate of Compliance

Certificate Number: LR 99480-24

Revision: LR 99480-26

Date Issued: January 15, 1998

Issued To: R. Stahl Schaltgeräte GmbH  
Bergstraße 2  
Postfach 12 63  
D-74653 Künzelsau  
Germany

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

Issued By: Scott Friel, EIT.  
Edmonton, Alberta Canada

Signature

## CLASS

3218 01 - INDUSTRIAL CONTROL EQUIPMENT - Custom Built For Hazardous Locations

## PRODUCTS

Ex de, IIC, IP 66; T4, T5 or T6;  
Class II, Division 1 and 2, Groups EFG  
Class III

8527 Series Motor Circuit Breaker; Rated voltage 690V, 25 Amps max, Rated current at auxiliary contacts 6.0 Amps max.

## NOTE

- (1) The above equipment may also bear the optional marking shown below.
- (2) The Series designation has prefixes that denotes characteristics of the specific model.



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### APPLICABLE REQUIREMENTS

Technical Information Letter TIL E-24 - Clarification of Marking Requirements for Electrical Equipment Certified to the requirements of IEC 79 Series Standards, C22.2 Series Standards, or both.

CSA Standard CAN/CSA E79-0	-	Electrical apparatus for explosive gas atmospheres. General requirements.
E79-7	-	Electrical apparatus for explosive gas atmospheres. Increased safety.
E1241	-	Electrical apparatus for use in the presence of combustible dust.

### MARKINGS

Each apparatus will bear a nameplate permanently secured to the outside of the enclosure, visible after installation, containing the following information:

- (a) Submitter's name, trademark, or the CSA file number (adjacent the CSA Mark).
- (b) Catalogue or Model designation, a Serial number and/or date code, traceable to the month and year (at least) of manufacture
- (c) Complete electrical rating (amps, hertz, and volts).
- (d) Complete hazardous location designation, including Temperature Code and CSA Enclosure designation. These markings may include:

*Ex de II, IP66; T4, T5 or T6.*

*Class II, Groups EFG, Class III;*

*CSA Enclosure Type 3, 4, 4x;*

or optionally the following,

*Class I, Div 2, Groups ABCD; T4, T5 or T6; CSA Encl Type 3, 4 or 4X*

*Class I, Zone 1, Groups II; CSA Encl Type 3, 4 or 4X*

*Class I, Zone 1, Ex de II, IP66; T4 T5 or T6*

- (e) The CSA Mark.
- (f) Cautions, warnings and additional markings as may be required (French markings are optional except in the Province of Quebec);
  - (1) Where repair is possible, the warning:

"WARNING- EXPLOSION HAZARD- SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR CLASS I, DIVISION 2.";

or

"WARNING- EXPLOSION HAZARD- SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR CLASS I, ZONE 1";
  - (2) General caution:

"WARNING- EXPLOSION HAZARD- DO NOT DISCONNECT WHILE CIRCUIT IS LIVE UNLESS AREA IS KNOWN TO BE NON-HAZARDOUS.";

or the equivalent.



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### Required Method of Marking

The marking shall be permanent, such as embossed, moulded, edged or stamping to the material of the enclosure/component, or accepted pressure sensitive adhesive type label or metal nameplate.

### **FACTORY TESTS**

#### Dielectric:

The equipment at the conclusion of manufacture, prior to shipment, shall withstand for one minute without breakdown, the application of the following ac potentials:

- 1) 1000 Vac plus twice the rated voltage between low voltage circuits and non-current carrying parts.
- 2) 1000 Vac plus twice the rated voltage between low voltage circuits and other low voltage or extra-low voltage circuits if such circuits leave or enter the enclosure.
- 3) 500 Vac between extra-low voltage circuits and non current carrying parts if such circuits leave or enter the enclosure.

#### NOTES:

- 1) As an alternative, potentials 20 percent higher may be applied for one second.
- 2) The required dielectric strength test may be made by applying a dc potential, providing it is 1.414 times the ac test potential.
- 3) Capacitors in the extra-low voltage circuits may be disconnected during the dielectric test.
- 4) The dielectric test between extra-low voltage circuits and non current carrying parts may be waived on grounded limited energy (Class 2) circuits.

#### WARNING:

The factory test(s) specified may present a hazard of injury to personnel and/or property, and should be performed by persons knowledgeable of such hazards, and under conditions designed to minimize the possibility of injury.



Supplement to Certificate of Compliance

Certificate Number: LR 99480-24

Product Certification History

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Revision	Date	Description
LR 99480-24	October 30, 1997	Certification of the 8527 Series Motor Circuit Breaker for Hazardous Locations.
LR 99480-26	January 15, 1998	Corrections to the -24 file.

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

Signature

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Edmonton, Alberta Canada