



Certificate of Compliance

Certificate: 70101633 (039199_0_000)

Master Contract: 150241

Project: 70206065

Date Issued: 2019-02-06

Issued to: EGS Electrical Group Canada Ltd.
99 Union St
Elmira, Ontario N3B 3L7
CANADA
Attention: Randall Kennedy

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.



Issued by: Donald Verbeem
Donald Verbeem

PRODUCTS

CLASS - C462801 - PANELBOARDS-For Hazardous Locations

CLASS - C462881 - PANELBOARDS-For Hazardous Locations - Certified to US Standards

Ex de IIB T*; IP66

Class I, Zone 1, AEx de IIB T*(see note 3), IP66

Class I, Division 2, Groups C and D, T*;

Class II, Division 1, Groups F and G; Class III: T*;

Enclosure Type 4, 4X(see note 4)

or

Ex de IIB+H2 T*; IP66

Class I, Zone 1, AEx de IIB+H2 T*(see note 3), IP66

Class I, Division 2, Groups B, C, and D, T*;

Class II, Division 1, Groups F and G; Class III: T*;

Enclosure Type 4, 4X(see note 4)



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PART A:

- Motor Starter panel (single starter within one enclosure), Cat No. RM Series, combined (Type C only) and Non-combined type, rated 27A max., 600 Vac max, 60 Hz, NEMA size 00, 0 and 1.
- Motor Starter panel (Multiple starter within one enclosure), Cat. No. RM Series, combined (Type C only) and Non-combined type. Maximum 4 starters in the one panel. Each starter is rated, 60 Hz, 27A max, 600 Vac max, NEMA size 00, 0 and 1.

Notes:

- 1- Short circuit rating for Combined type controller: 10 kA at 600 V ac –interrupting rating.
- 2- Non-combined type controller: 10 kA at 600 Vac when protected by inverse time breaker-withstand rating
- 3- T*: T4 for Class I, Zone 1 and 2: Class I, Division 2 and T6 for Class II, Division 1 and 2 ; Class III.
- 4- Enclosure rating is subject to rating of devices used. Eg. to maintain type 4 or 4X rating, a breather/drains and close up plugs must be rated type 4, 4X.

PART B:

- Motor contactor panel for resistance heating application (single contactor within one enclosure), Cat. No. RM series– with main breaker type and without main breaker type, rated, 60 Hz, 27A max, 600Vac max.

Notes:

1. Short circuit rating with main breaker type: 10kA at 600Vac – Interrupting rating.
2. Short circuit rating without main breaker type: 10kA at 600Vac when protected by inverse time type breaker- Withstand rating.
3. Enclosure rating is subject to rating of devices used, eg: to maintain type 4 or 4X rating, a breather/drains and close up plugs must be rated type 4, 4X.

APPLICABLE REQUIREMENTS

CAN/CSA C22.2 No. 0-10	-	General Requirements - Canadian Electrical Code Part II.
CAN/CSA C22.2 No. 14-13	-	Industrial Control Equipment
CAN/CSA C22.2 No. 25-1966	-	Enclosures for Use in Class II, Groups E, F and G Hazardous locations
CAN/CSA C22.2 No. 213-15	-	Non-incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations
CAN/CSA C22.2 No. 60079-0:11	-	Electrical apparatus for explosive gas atmospheres. PART 0: General requirements.
CAN/CSA C22.2 N. 60079-7:12	-	Electrical apparatus for explosive gas atmospheres. PART 7: Increased safety “e”
CAN/CSA C22.2 No. 60079-1:11	-	Electrical Apparatus for Explosive Gas Atmospheres – Part 1: Flameproof Enclosures “d”
CAN/CSA C22.2 No. 94.2-07	-	Enclosures for electrical equipment, environmental considerations.
ANSI/UL 508-17 th Ed.	-	Industrial Control Equipment
ANSI/UL 1203 5 th Ed.	-	Explosion-Proof and Dust-Ignition- Proof Electrical Equipment for Use In Hazardous Locations
ANSI/UL 60079-0, 6 th Ed.	-	Electrical apparatus for explosive gas atmospheres.



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ANSI/UL60079-1, 6 th Ed.	-	PART 0: General requirements Electrical Apparatus for Explosive Gas Atmospheres – Part 1: Flameproof Enclosures “d”
ANSI/UL60079-7, 4 th Ed.	-	Electrical apparatus for explosive gas atmospheres. PART 7: Increased safety “e”
UL 50 E	-	Enclosures for electrical equipment, environmental considerations

MARKINGS

The manufacturer is required to apply the following markings:

- Products shall be marked with the markings specified by the particular product standard.
- Products certified for Canada shall have all Caution and Warning markings in both English and French.

Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where applicable, in accordance with the requirements of those authorities.

The products listed are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US (indicating that products have been manufactured to the requirements of both Canadian and U.S. Standards) or with adjacent indicator 'US' for US only or without either indicator for Canada only.

Nameplate adhesive label material approval information: Model/Part Number: 7875 (EGS Part ZF 8482), manufactured by 3M, CSA approved under CSA File 99316.

Alternate adhesive label: CSA recognized material which suitable for outdoor use.

PART A: Motor starter panels:

1. cCSAus mark
2. Manufacturer's name or trademark
3. Cat. No. /model designation
4. Hazardous location designation;
5. CSA type 4 and 4x enclosure or IP 66 (where applicable)
6. Complete electrical rating: Continue current 27A max, 600Vac max, 10hp max at 60HZ. (NEMA SIZE 00, 0 and 1).
7. Field wiring terminal: Minimum 75°C copper only. torque: 35in/lb
8. Control circuit fuse replacement information: Semiconductor fuse, Cat. FR14XX69VX. Current rating. (adjacent to the fuse holder)
9. ground terminal is marked per std. c22.2 No.0.4 clause 3.5.1.2 (c)
10. a schematic diagram or operator manual is provided with the controller



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11. short circuit withstand rating for non-combined controller: “SUITABLE FOR USE ON A CIRCUIT CAPABLE OF DELIVERING NOT MORE THAN 10 kA RMS SYMMETRICAL AMPERES, 600 V MAXIMUM”
12. Short circuit rating for combined motor controller when use Cutler Hammer FDB inverse time breaker. Rated 30A max: “COMBINATION MOTOR CONTROLLER” and “SHORTCIRCUIT CURRENT RATING, 10kA RMS SYMMETRICAL, 600 V MAXIMUM”
13. Warning: Following marking for both Combination and Non-Combination motor Controllers: “ATTENTION:THE OPENING OF THE BRANCH-CIRCUIT PROTECTIVE DEVICE MAY BE AN INDICATION THAT A FAULT HAS BEEN INTERRUPTED. CURRENT CARRYING PARTS AND OTHER COMPONENTS OF THE CONTROLLER SHOULD BE EXAMINED AND REPLACED IF DAMAGED”.
14. Cautions: “LIVE PARTS BEHIND COVER, ONLY AUTHORISED PERSONNEL TO OPEN” or equivalent;
15. Caution: “Auxiliary contact are connected to external power source. To avoid risk of shock or ignition of hazardous atmosphere disconnect before servicing.”

PART B: Motor contactor panel:

1. cCSAus mark
2. submitter’s identification
3. Cat. No. /model designation
4. CSA type 4 and 4x enclosure
5. Complete electrical rating: Continue current 27A max, 600Vac max,
6. Field wiring terminal: Minimum 75°C copper only. torque: 35in/lb
7. Control circuit fuse replacement information: Semiconductor fuse, Cat. FR14XX69VX. Current rating. (adjacent to the fuse holder) as per CSA Report 1788693 for Zone rating And CSA certified Class CC and Type J fuses for Div 2 Applications.
8. ground terminal is marked per std. c22.2 No.0.4 clause 3.5.1.2 (c)
9. a schematic diagram or operator manual is provided with the controller
10. short circuit withstand rating for contactor panel without main breaker: “SUITABLE FOR USE ON A CIRCUIT CAPABLE OF DELIVERING NOT MORE THAN 10kA RMS SYMMETRICAL AMPERES, 600 V MAXIMUM”
11. Short circuit rating for contactor panel with main breaker: when use Cutler Hammer FDB inverse time breaker. Rated 30A max: “COMBINATION CONTACTOR” and “SHORTCIRCUIT CURRENT RATING, 10kA RMS SYMMETRICAL, 600 V MAXIMUM”
12. Warning: Following marking for both with and without main breaker contactor panel: “ATTENTION:THE OPENING OF THE BRANCH-CIRCUIT PROTECTIVE DEVICE MAY BE AN INDICATION THAT A FAULT HAS BEEN INTERRUPTED. CURRENT CARRYING PARTS AND OTHER COMPONENTS OF THE CONTROLLER SHOULD BE EXAMINED AND REPLACED IF DAMAGED”.
13. Caution: “LIVE PARTS BEHIND COVER, ONLY AUTHORISED PERSONNEL TO OPEN” or equivalent.



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14. Caution: "Auxiliary contact are connected to external power source. To avoid risk of shock or ignition of hazardous atmosphere disconnect before servicing."



Supplement to Certificate of Compliance

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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
70206065	0000-00-00	Update report 70101633 to increase HIC rating from 5kA to 10kA for RM series. This quotation assumes that no hazardous location testing is required.
70163662	2018-02-06	Update report 70035530 to include new ratings based on Module listing under 1803862
70163660	2018-02-05	Update report 70101633 to include new ratings based on Module listing under 1803862
70160624	2018-01-29	Update report 70101633 to cover alternate enclosure designs and alternate heater.
70128913	2017-09-14	Update to Report 70101633 Panel to include mechanical reset option button
70101625	2017-07-26	Update to report 70101633 to cover multiple starter panel and motor contactor panel for Class I, Zone 1; Class II Division 1 and 2; Class I, Division 2; Class III hazardous locations.
70101633	2017-07-17	Original Certification Motor starter panel (single start within one enclosure), Cat. No. RM Series and non-combined type, rated 27A max, 600 Vac max, 60 Hz, NEMA size 00, 0 and 1. for Class I, Zone 1; Class I, Division 2; Class II, Division 1 and 2; Class III, hazardous locations