



Certificate of Compliance

Certificate: 2269963

Master Contract: 246783

Project: 2269963

Date Issued: September 28, 2010

Issued to: The Carlyle Johnson Machine,Co,LLC

291 Boston Turnpike Rd.
Bolton, CT 06043-9546
USA

Attention: Ronald Gamache

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.



Donald Theroux

Issued by: Donald Theroux

PRODUCTS

CLASS 2258 82 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations -
Certified to US Standards

CLASS 2258 02 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations

Ex m IIC T5

AEx mb IIC T5

- Electro-mechanical Clutch and Brake Controls, EMA model series, Model EMA-**aaaa bbb cc ddd**, 12V dc through 300V dc, 0.24A through 10A, 25W through 150W; $-30^{\circ}\text{C} \leq T_{\text{amb}} \leq +80^{\circ}\text{C}$

Where:

aaaa = clutch size

bbb = identification number (assembly, standard)

cc = bore size in inches

ddd = voltage (i.e. V dc)



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- Electro-mechanical Clutch and Brake Controls, EPC model series, Model EPC-**aaaa bbb cc ddd**, 12V dc through 300V dc, 0.24A through 10A, 25W through 150W; $-30^{\circ}\text{C} \leq T_{\text{amb}} \leq +80^{\circ}\text{C}$

Where:

aaaa = clutch size

bbb = identification number (assembly, standard)

cc = bore size in inches

ddd = voltage (i.e. V dc)

- Electro-mechanical Clutch and Brake Controls, PTO model series; Model PTO-**aaaa bbb cc ddd**; 12V dc through 300V dc, 0.24A through 10A, 25W through 150W; $-30^{\circ}\text{C} \leq T_{\text{amb}} \leq +80^{\circ}\text{C}$

Where:

aaaa = clutch size

bbb = identification number (assembly, standard)

cc = bore size in inches

ddd = voltage (i.e. V dc)

Notes:

Notes:

When used in the end-product equipment the following are among the considerations to be made:

1. The spacing between exposed live parts and grounded metal parts of the equipment in which used shall be in accordance with the classification of the overall equipment.
2. Lead terminations have not been evaluated for field wiring.
3. The use of an enclosure shall be determined in the end-use application(s).

APPLICABLE REQUIREMENTS



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CAN/CSA Standard C22.2 No. 0-M91 (*Reaffirmed 2001*) - General Requirements - Canadian Electrical Code, Part II

CAN/CSA Standard C22.2 No. 14-05 (*March 2006*) - Industrial Control Equipment

CAN/CSA-C22.2 No. 60079-0:07 - Electrical apparatus for explosive gas atmospheres — Part 0: General requirements

CAN/CSA-E79-18-95 (*Reaffirmed 2009*) - Electrical apparatus for explosive gas atmospheres – Part 18: Encapsulation “m”

ANSI/UL Standard 508 (*Seventeenth Edition, Dated January 28, 1999. With revisions through and including September 19, 2008*) - Industrial Control Equipment

ANSI/UL 60079-0 (*Fourth Edition, dated August 15, 2005*) - Electrical Apparatus for Explosive Gas Atmospheres – Part 0: General Requirements

ANSI/UL 60079-18 (*Second Edition, dated August 15, 2005*) - Electrical Apparatus for Explosive Gas Atmospheres – Part 18: Construction, Test and Marking of Type of Protection Encapsulation “m” Electrical Apparatus

The following standards were used in whole or in part as a guideline.

IEC 60079-0 (*Edition 5.0 2007 -10*) - Explosive Atmospheres – Part 0: Equipment – General Requirements

CSA Standard C22.2 No. 30-M1986 (*Reaffirmed 2003*) - Explosion-Proof Enclosures for Use in Class I Hazardous Locations

ANSI/UL Standard 969 (*Fourth Edition, Dated October 3, 1995*) - Marking and Labeling Systems

MARKINGS

Two types of labels are currently in use. The first is an identification plate (see drawing C12091) that is constructed of a 0.32” thick, Type III, Composition A, Class 2 aluminum, Spec MIL-P-514 material or Type III, Composition C, Class 2 aluminum, Spec MIL-P-514. Material conforms to Type I, Grade A, Class I, SPEC GG-P-455. Identification plate is attached to the products by means of rivets within blind holes.

The second label utilizes FLEXmark MM 200 Silver TC-249 L-156 SPEC 50K/Q-8 material. The FLEXmark MM 200 is a top-coated metalized silver polyester film that is coated with a permanent sensitive acrylic adhesive and backed with a semi-bleached kraft release liner which has been coated (on the backside) with Quilon® to prevent label pick-off. FLEXmark MM 200 is a UL Recognized component for use in the US and Canada as documented in UL Report MH10170 (categories PGGU2 and PGGU8) and is a CSA Approved product under Class 7922-01 and Class 7924-01 criteria (see CSA File 099214_L_000).



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- Manufacturers name: "Carlyle Johnson Machine Co., LLC", "Carlyle Johnson Machine", "Carlyle Johnson" or equivalent, or CSA Master Contract Number "246783", adjacent to the CSA Mark in lieu of manufacturers name;
 - Model number: as shown in the PRODUCTS section, above;
 - Electrical ratings: as shown in the PRODUCTS section, above;
 - Ambient temperature rating: as shown in the PRODUCTS section, above;
 - Manufacturing date in MMY format, or serial number, traceable to month of manufacture.
 - The CSA Mark with 'c' and 'us' indicators, as shown in the Certificate of Compliance;
 - Hazardous Location designation: as shown in the PRODUCTS section, above;
 - Temperature code: as shown in the PRODUCTS section, above;
 - External fuse data: type, voltage and current.

An installation manual or data sheet shall be provided with each unit and shall contain the following minimum marking information:

- Manufacturer name and address;
- Electrical ratings: as shown in the PRODUCTS section, above;
- Specification for ambient temperature rating: " $-30^{\circ}\text{C} \leq T_{\text{amb}} \leq +80^{\circ}\text{C}$ ";
- Mounting and installation instructions to include dimensions.

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".