



Certificate of Compliance

Certificate: 1854716

Master Contract: 151933

Project: 2576962

Date Issued: November 20, 2012

Issued to: Killark Electric Manufacturing Co.

3940 Dr. Martin Luther King Dr.
St. Louis, MO 63113
USA

Attention: Thomas J. Michalski

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.



D. Somma

Issued by: D. Somma, C.E.T.

PRODUCTS

CLASS 3428 03 - FIXTURES AND FITTINGS - For Hazardous Locations

CLASS 3428 83 - FIXTURES AND FITTINGS - For Hazardous Locations-Certified to U.S. Standards

**Class I, Division 2, Groups A, B, C and D ; Temperature Coded T2, T2A, T2B, T2C, T2D, T3 or T3A;
Class II, Groups E, F and G; Class III:**

Ex nA nR II; Class I, Zone 2, AEx nA nR II; Temperature Coded T3, T4, T5 or T6:

KILLARK VM3 and VM4 Series, Model Number VM-XXXXXX, rated 480 V max, 250 W max.; may be supplied with either Globe, Enclosed Reflector, or Refractor. For use with supply wiring rated 60C or higher.

Notes:

NOTE:

(1) Suffixes denote Lamp Type, Cover Type, Conduit Size, Lamp Wattage, Input Voltage and Optics.

(2) Detail Temperature Codes and Maximum Surface Temperatures are covered under the Descriptive Document under Tables 1 thru 5 (Class I, Div. 2; Class II and Class III; and Table 5 and 6 for Class I, Zone 2, Ex nA nR II; AEx nA nR II and Table 7 & 8 for Class I, Zone 2 Ex nR, AEx nR II)

APPLICABLE REQUIREMENTS



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The following standards were used in the evaluation of the products covered under this Certificate:

CAN/CSA- C22.2 No 0-M91 - General Requirements – Canadian Electrical Code, Part II

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 94-M91 - Special Purpose Enclosures

CAN/CSA-C22.2 No 137-M1981 - Electric Luminaires for Use in Hazardous Locations

CAN/CSA-E60079-0-07 - Electrical equipment for explosive gas atmospheres – General Requirements

CAN/CSA-E60079-15:02 - Electrical apparatus for explosive gas atmospheres – Part 15: Type of protection “n”

ANSI/UL Standard 1598 - Luminaires

ANSI/UL Standard 1604 - Electrical Equipment for Use in Class I and II, Div. 2, Class III Hazardous Locations

ANSI/UL Standard 2279 - Part 0 – General Requirements

ANSI/UL Standard 2279 - Part 15 – Electrical apparatus with type of protection “n”

ANSI/UL Standard 844 - Luminaires for Use in Hazardous (Classified) Locations

ANSI/UL Standard 60079-15 - 60079-15 - UL Standard for Safety Electrical Apparatus for Explosive Gas Atmospheres Part 15: Electrical Apparatus with Type of Protection "n"

ANSI/UL Standard 60079-0 for Electrical Apparatus for Explosive Gas Atmosphere Part 0: General Requirements

MARKINGS

The equipment is marked on a CSA/UL Certified adhesive Label with the following information:

- Manufacturer's name, Trade Mark, File Number or Master Contract Number
- Catalogue number, Hazardous location rating designation, date code, the CSA Monogram with C US indicator and the following:
 - “Open circuit before re-lamping”.
- Complete Electrical Ratings: Voltage, Amperes, Frequency and Wattage
- Lamp Type, Operating Ambient: 40, 55 or 65C (where applicable) & Temperature Code
- "CAUTION: To Prevent Ignition Of Hazardous Atmospheres, Disconnect The Fixture From The Supply Circuit before opening. Keep tightly closed while circuits are alive."



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- "WARNING: To Prevent Fire Or Explosion Do Not Install Where The Marked Operating Temperature Exceeds Ignition Temperature Of Hazardous Atmospheres"

- "CAUTION: See Instruction Sheet K1281 For Installation Operating And Maintenance Instructions"

- "Suitable For Wet Locations"

- Rated ambient temperature, operating temperature or code, and supply wiring temperature markings for Class I and Class II, see Tables 1 to 4.

- For ballast tanks marked "Ex nA nR II or AEx nA nR II", rated ambient temperature, operating temperature, and

supply wiring temperature markings, see Tables 5 and 6.

- For ballast tanks marked "ExnR II & AexnR II, rated ambient temperature, operating temperature, and supply wiring Temperature markings, see tables 7 and 8.

- May be marked with "suitable for wet location" and or IP66 except for Class I, Zone 2, AEx nA nR II/Ex nR II.

- OPTIONAL (When fused is installed - Not for CSA and Marine application): To be marked at the location adjacent to the fuse to be replaced. "CAUTION: Risk of Ignition of Hazardous Atmospheres- Replace only with Fuse Having The Same Voltage And Current Rating As The Existing Fuse." and "WARNING – DO NOT REMOVE FUSE WHEN ENERGIZED."

- Fixture marked with Ex nR/Class I, AEx nA nR are marked with the following Caution: "Caution for Restricted Breathing application " Globe must be securely hand tightened and periodically inspected."

- Warning: Tank assemblies with SNR options (ExnR & AExnR II luminaires must install sealed entry at mount. Coated Globes Catalog numbers VMG25T,VMG25F,VMR251T,VMR253T & VMR255T are provided with a Warning label " To avoid possible Electrostatic discharge hazard, clean only with a damp cloth" or equivalent.