



Certificate of Compliance

Certificate: 2088235

Master Contract: 151933

Project: 2088235

Date Issued: 2008/12/01

Issued to: Killark Electric Manufacturing Co.

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



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

Authorized by: Patricia Pasemko, Operations Manager

PRODUCTS

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

CLASS 3428 03 - FIXTURES AND FITTINGS - For Hazardous Locations

Class I, Division 2, Groups A, B, C and D, Temperature Coded T2C or T2B:



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- KILLARK VM1S Series, Model Number VM-XXXXXX, rated 480 V max, 100 W max.; may be supplied with either Globe, Enclosed Reflector, or Refractor. For use with supply wiring rated 60°C or higher.

Class I, Division 2, Groups A, B, C and D; Class II, Division 1, Groups E, F and G; Class III: Temperature Coded T3C:

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

- KILLARK VM1Q Series, Model Number VM-XXXXXX, rated 480 V max, 55 W max.; may be supplied with either Globe, Enclosed Reflector, or Refractor. For use with supply wiring rated 75°C or higher.

NOTES:

- (1) Suffixes denote Lamp Type, Cover Type, Conduit Size, Lamp Wattage, Input Voltage and Optics.
- (2) Detail Temperature Codes or Maximum Surface Temperature are covered under Table 1 for Class I, Div. 2; Class II and Class III; and Table 2 for Class I, Zone 2, Ex nR II/AEx nR II

APPLICABLE REQUIREMENTS

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

CAN/CSA-C22.2 No. 0 - General Requirements – Canadian Electrical Code, Part II
25-1966 - Enclosures for use in Class II, Groups E, F and G Hazardous
Locations.
94-M91 - Special Purpose Enclosures
137 - Electric Luminaires for Use in Hazardous Locations



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CAN/CSA E60079-0:07 - Electrical equipment for explosive gas atmospheres – General Requirements
E60079-15:02 - Electrical apparatus for explosive gas atmospheres – Part 15: Type of protection “n”

ANSI/UL Standard 1598 - Luminaires

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

2279 - Part 0 – General Requirements

2279 - Part 15 – Electrical apparatus with type of protection “n”

844 - Luminaires for Use in Hazardous (Classified) Locations

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

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 or 55C (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."
- "WARNING: To Prevent Fire Or Explosion Do Not Install Where The Marked Operating Temperature Exceeds Ignition Temperature Of Hazardous Atmospheres"



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CAUTION: See Instruction Sheet K1316 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 Table 1.
- For ballast tanks marked "AEx nA nR II", rated ambient temperature, operating temperature, and supply wiring temperature markings, see Table 2.
- May be marked with "suitable for wet location" and or IP66 except for Class I, Zone 2, AEx nA 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/AEx nA nR are marked with the following Caution:
Caution for Restricted Breathing application " Globe must be securely hand tightened and periodically inspected."