Champ® LED Luminaires
VMV Series LED Fixtures
Installation & Maintenance Information

Crouse-Hinds by **EATON**

IF 1743

SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE

APPLICATION

Champ® VMV Series Luminaires are suitable for use in the following hazardous (classified) areas as defined by the National Electrical Code (NEC®).

Refer to the luminaire nameplate for specific classification information, maximum ambient temperature suitability and corresponding operating temperature (T-code).

Luminaire construction is designed for use indoors and outdoors in marine and wet locations, where moisture, dirt, corrosion, vibration and rough usage may be present.

VMV:

NEC/CEC
- Class I, Division 2, Groups A, B, C, D
- Class II, Groups E, F, G
- Class III
- Class I, Zone 2 nA nR
- Zone 21 tb
- Simultaneous Presence
- Wet Locations, Type 4X

UL Standards
- UL 844 Hazardous (Classified)
- UL1598 Luminaires, UL1598A Marine

CSA Standard
- CSA C22.2 No. 137

IEC/ATEX Standards
- IEC 60079-0:2011 / EN 60079-0:2012
- IEC 60079-15:2010 / EN 60079-15:2010
- IEC 60079-31:2008 / EN 60079-31:2009
- IEC 60529:2001 / EN 60529:2001
- IEC 60598-1:2008 / EN 60598-1:2008
- IEC 60598-2:2008 / EN 60598-2:2008

Fixture Markings
- IECEx UL 13.0052X
- DEMKO 13 ATEX 1305741X
- ***DEMKO 13 ATEX 1475031X
- See Table 1 for temperature codes

VMV3L – 11L:

100-277 VAC/100-250 VDC
Ex nA nR IIC T6 Gc -40°C to +40°C
Ex nA nR IIC T5 Gc -40°C to +55°C
Ex nA nR IIC T4 Gc -40°C to +65°C
Ex tb IIIC T72°C Db IP66 -40°C to +40°C
Ex tb IIIC T87°C Db IP66 -40°C to +55°C
Ex tb IIIC T92°C Db IP66 -40°C to +65°C

** II 3 G Ex nA nR IIC T6 Gc -40°C to +40°C
** II 3 G Ex nA nR IIC T5 Gc -40°C to +55°C
II 3 G Ex nA nR IIC T4 Gc -40°C to +65°C
II 2 D Ex tb IIIC T72°C Db IP66 -40°C to +40°C
II 2 D Ex tb IIIC T87°C Db IP66 -40°C to +55°C
II 2 D Ex tb IIIC T92°C Db IP66 -40°C to +65°C

VMVAL, RL, GL, BL:

100-277 VAC
Ex nA nR IIC T5 Gc -40°C to +40°C
Ex nA nR IIC T4 Gc -40°C to +55°C
Ex tb IIIC T60°C Db IP66 -40°C to +40°C
Ex tb IIIC T75°C Db IP66 -40°C to +55°C

** II 3 G Ex nA nR IIC T5 Gc -40°C to +40°C
** II 3 G Ex nA nR IIC T4 Gc -40°C to +55°C
II 2 D Ex tb IIIC T60°C Db IP66 -40°C to +40°C
II 2 D Ex tb IIIC T75°C Db IP66 -40°C to +55°C

Input voltage:
100-277 VAC 50/60 Hz
100-250 VDC
347-480 VAC 50/60 Hz

⚠WARNING

To avoid the risk of fire, explosion or electric shock, this product should be installed, inspected and maintained by a qualified electrician only, in accordance with all applicable electrical codes.

⚠WARNING

To avoid electric shock:

Be certain electrical power is OFF before and during installation and maintenance.

Luminaire must be supplied by a wiring system with an equipment grounding conductor.

To avoid burning hands:

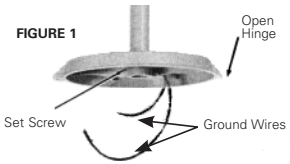
Make sure lens and housing are cool when performing maintenance.

INSTALLATION

MOUNTING:

1. Mount the cover module in its support position.
   - Ceiling and wall mount: mark and drill desired location on mounting surface. Secure with 1/4" (6mm) bolts or lag screws (not provided).
   - Pendant, cone, stanchion mount: securely thread onto the appropriate NPT size conduit. Tighten set screw located in the conduit hub. See Figure 1.
   - Eaton's Crouse-Hinds HTL thread lubricant must be added to the conduit threads to prevent water from entering the fixture.

FIGURE 1



⚠WARNING

To avoid explosion:

Make sure the supply voltage is the same as the luminaire voltage.

Do not install where the marked operating temperatures exceed the ignition temperature of the hazardous atmosphere.

Do not operate in ambient temperatures above those indicated on the luminaire nameplate.

Use proper supply wiring as specified on the luminaire nameplate.

All gasket seals must be clean.

Before opening, electrical power to the luminaire must be turned off. Keep tightly closed when in operation.

To reduce the risk of ignition due to electrostatic discharge, avoid contact with the luminaire while explosive atmosphere is present. Clean only with damp cloth.

Wiring

1. Pull field wiring into cover module.
2. Close all unused conduit entries with conduit plugs provided. To prevent galling and to ensure watertightness, lubricate conduit plugs with Eaton's Crouse-Hinds HTL lubricant before installing, and secure wrench-tight with at least five (5) full threads engaged (42-52 ft.-lb. for 3/4" plugs, and 58-68 ft.-lb. for 1" plugs).
3. Hang LED luminaire on the cover module hinge hook. See Figure 2a.

4. Connect supply wires to luminaire wire leads or terminal block per the attached wiring diagrams using methods that comply with all applicable codes. See Figure 2b. Tighten all electrical connections.
5. Close driver housing onto cover module, making sure that all wires are safely inside driver housing. Tighten captive closing screw to 30 in.-lbs. (3.4 N-m). Ensure two (2) bosses on driver housing are in contact with cover module.
6. Turn power on.

FIGURE 2a

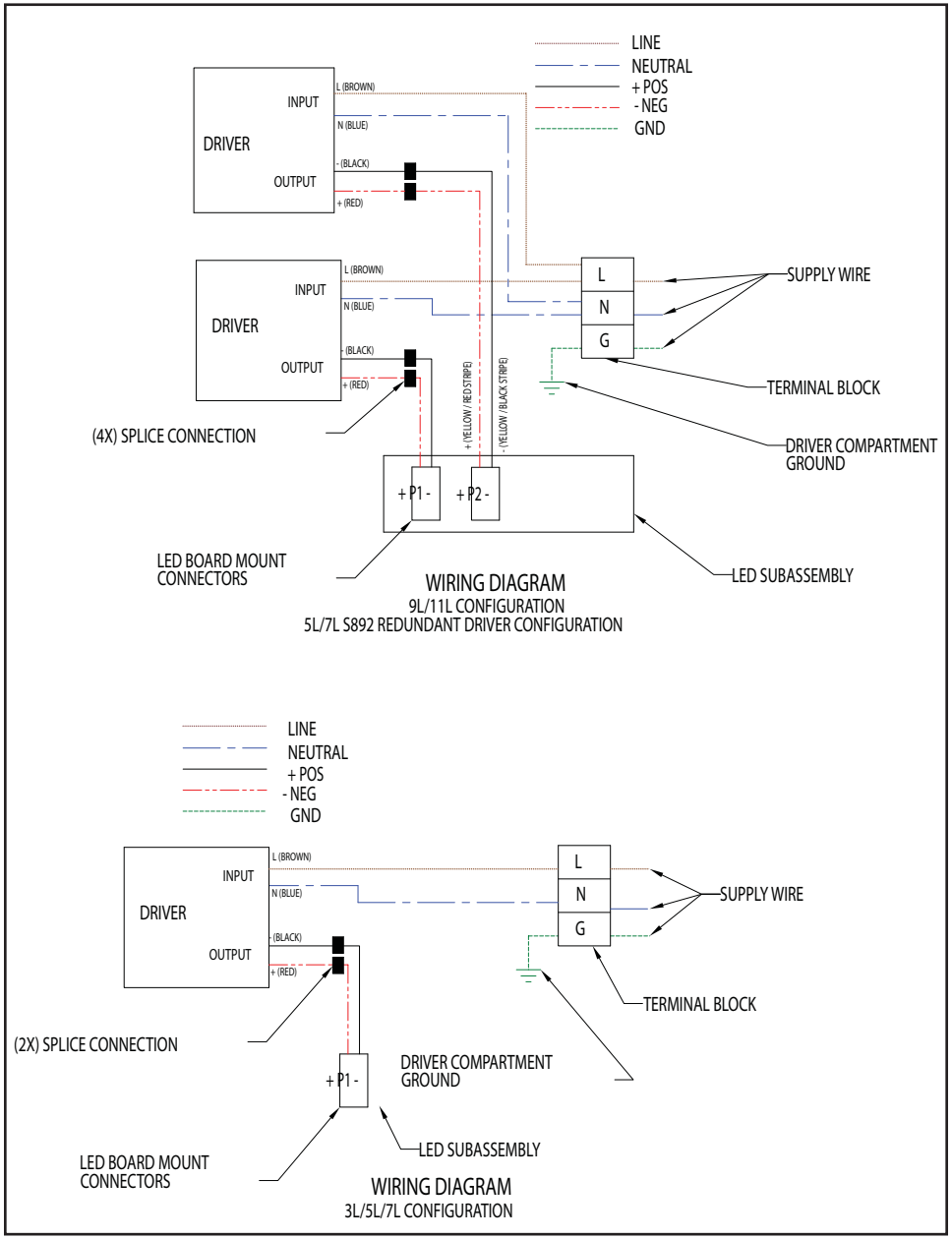


FIGURE 2b

WIRE GUARD INSTALLATION

Loosen but DO NOT completely remove wire guard screw. If already loosened, move to next step.

Set wire guard in place by pushing it over the bottom rim of the fixture which is on the lowest casting until it sits in place above that rim. Ensure that the wire guard is in place around the complete bottom and is not partially in place above the rim.

Tighten the screw attached to wire guard until guard is securely attached to bottom casting. The screw will be tight enough when the wire guard can no longer easily rotate on the fixture.

NOTE: The sheet metal tabs which the screw goes through do not need to be touching for the guard to be securely fastened; the wire guard will be secure without those two tabs touching one another.

CHAMP LED SAFETY CABLE (NEC/CEC ONLY)

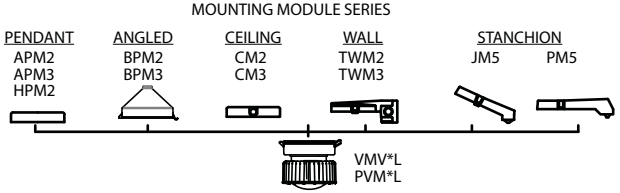
1. Pass cable though the Kwik-Loc adjustment in hole in the direction of the arrows.

2. Loop the cable around the fixture body (between the fins and driver housing) and back though the Kwik-Loc 2nd adjustment pin hole in the direction of the arrows.

3. Pull the cable in the 2nd adjustment pin hole, ensuring the cable and Kiwk-Loc is snug around the fixture.
4. Confirm engagement of the lock.
5. Attach hook at end of cable to support structure (anchor).

FIELD ASSEMBLED FIXTURES

Champ® VMV Series Lighting Fixtures, 50-140 Watt



MOUNTING MODULE NOTES:

- 2: indicates 3/4" NPT thread
- 3: indicates 1" NPT thread
- 5: indicates 1-1/2" thread
- Pendant, angled, ceiling and stanchion mounts have one (1) conduit entry; ceiling and wall mounts have five (5) conduit entries

MAINTENANCE

1. Perform visual, electrical and mechanical inspections on a regular basis. The environment and frequency of use should determine this. However, it is recommended that checks be made at least once a year. We recommend an Electrical Preventive Maintenance Program as described in the National Fire Protection Association Bulletin NFPA No. 70B: Recommended Practice For Electrical Equipment Maintenance (www.nfpa.org).
2. The lens should be cleaned periodically to ensure continued lighting performance. To clean, wipe the lens with a clean, damp cloth. If this is not sufficient, use a mild soap or a liquid cleaner such as Collinite NCF or Duco #7. Do not use an abrasive, strong alkaline or acid cleaner. Damage may result.
3. Visually check for undue heating evidenced by discoloration of wires or other components, damaged parts or leakage evidenced by water or corrosion in the interior. Replace all worn, damaged or malfunctioning components, and clean gasket seals before putting the luminaire back into service.
4. Electrically check to make sure that all connections are clean and tight.
5. Mechanically check that all parts are properly assembled.
6. If the lens is removed from the fixture, the lens gasket must be replaced to maintain restricted breathing ratings.

REPLACEMENT PARTS

Eaton's Crouse-Hinds VMV and NVMV Series Champ Luminaires are designed to provide years of reliable lighting performance. However, should the need for replacement parts arise, they are available through your authorized Eaton's Crouse-Hinds distributor. Assistance may also be obtained through your local Eaton's Crouse-Hinds representative.

Eaton's Crouse-Hinds Sales Service Department, 1201 Wolf Street, Syracuse, New York 13208, Phone (866) 764-5454.

Driver Option	Ambient	Supply Wire	Class II, Div. 1	Simultaneous Rating	Class I, Div 2	Class I, Zone 2	Zone 21 AEx tb IIIC; Class III, Div 1; Class II, Div1, Groups E, F, and G
UNV1	40°C	75°C	T5	T3C	T5	T6	T66°C
UNV1	55°C	90°C	T4A	T3B	T5	T5	T83°C
UNV1	65°C	90°C	T4A	T3B	T4A	T5	T92°C
UNV34	40°C	75°C	T5	T3C	T3C	T4	T70°C
UNV34	55°C	90°C	T4A	T3A	T3A	T4	T85°C
RL, GL, BL, AL	40°C	75°C	T6	T4A	T5	T5	T60°C
RL, GL, BL, AL	55°C	90°C	T6	T4A	T4A	T4	T75°C

Table 1

⚠ WARNING

To avoid electric shock:

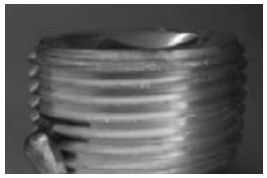
Be certain electrical power is OFF before and during installation and maintenance. Luminaire must be supplied by a wiring system with an equipment grounding conductor.

To avoid burning hands:

Make sure globe or refractor and lamp are cool when performing maintenance.

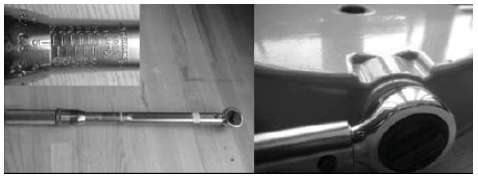
INSTALLATION CHECKLIST

1._____ Verify sufficient HTL lubricant is on conduit plugs (recommend approximately 1/8" bead around the first thread of plug) and that all unused conduit entries on the cover module are closed with lubricated plugs.



2._____ Verify conduit plugs are installed to at least five (5) full threads into the cover module conduit entries.

3._____ Verify installed conduit plugs are torqued to 42-52 ft.-lbs. for 3/4" plugs and 58-68 ft.-lbs. for 1" plug.



4._____ Verify supply wires are connected to luminaire wire leads (or terminal block) per wiring diagrams.

5._____ Verify all electrical connections are tightened.

6._____ Verify all wires are safely and neatly inside driver housing and not on top of wire terminal. Close driver housing onto cover module.

7._____ Verify captive closing screw is tightened to 30 in.-lbs. (3.4 N-m) and two (2) bosses on driver housing are in contact with cover module.

Crouse-Hinds by EATON
Eaton's Crouse-Hinds Business
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IF 1743
Revision 1
New 06/15

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