NEMA Type 7/9 disconnect switch

Installation & maintenance information

SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE

APPLICATION

Eaton's NEMA Type 7/9 disconnect switches are suited for Class I, Divisions 1 & 2, Groups B, C, D; Class II, Division 1, Groups E, F, G; Class II, Division 2, Groups F, G; Class III; and Class I, Zones 1 & 2, Groups IIB + H2, as defined by the National Electrical Code® as well as in damp, wet or corrosive locations.

INSTALLATION

WARNING

To avoid risk of electrical shock, electrical power must be OFF before and during product installation and maintenance. Failure to comply can result in damage to equipment, injury or death to personnel.

1. Select a mounting location that will provide suitable strength and rigidity for supporting the Eaton's NEMA Type 7/9 disconnect switch. Weights and dimensions are listed below.

![Figure 1](Image)

![Figure 2](Image)

2. Securely fasten enclosure to the mounting location, and then attach enclosure into conduit system. Install approved conduit or cable sealing fittings in all conduit entries within 18 inches (46cm) of enclosure per the National Electrical Code requirements.

CAUTION

To avoid risk of explosion, hazardous location information specifying Class and Group listing of each device is marked on the nameplate of each enclosure. Class and Group list for and device penetrating the enclosure must be suitable for the classification of location in which the enclosure is installed. Conduit sealing fittings MUST be installed in each attached conduit run within 18 inches of the enclosure per the National Electrical Code.

3. For Eaton's NEMA Type 7/9 disconnect switch enclosures furnished with disconnect switch, please see Step 4. For Eaton's NEMA Type 7/9 disconnect switch enclosures furnished without disconnect switch, select appropriate disconnect switch from Table 2 below (ordered separately).

![Table 1](Image)

![Table 2](Image)

Additionally, this series is suitable for NEMA 3, 4, 4X applications. Eaton's NEMA Type 7/9 disconnect should be installed, inspected, maintained and operated by qualified and competent personnel only.

a. Using hardware provided, securely mount disconnect switch on mounting plate with line terminals on top and load terminals on bottom. Use existing holes in mounting plate; please refer to mounting plate drawing below. Be sure to tighten screws to 3 ft.-lbs. (0.4 Kg.-m.).

b. The rating for each disconnect can be observed in Table 3.

![Table 3](Image)

4. Ensure the operator is in the OFF position and then remove the cover bolts while securing cover. Carefully open the cover fully to prevent damage to the machined joint flame path and cover gasket.

CAUTION

To avoid the risk of explosion, hammers or prying tools must not be allowed to damage the flat machined joint surfaces or cover gasket. Do not handle covers roughly or place them on surfaces that might damage or scratch the flat machined joint surfaces.

5. Pull wires into enclosure, making sure they are long enough to make the required electrical connections. Install the proper wire clamps or other approved devices to hold the wires securely in place. Install the ground, line and load wires. Tighten the wire binding screws to torque values shown on Table 4.

Note:

a. The internal grounding terminal shall be used as equipment grounding means. The external terminal is only a supplemental bonding connection.

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MAINTENANCE

To avoid the risk of explosion, all unused conduit openings must be closed properly with an approved plug, drain or breather such as the Crouse-Hinds series PLG plugs or ECD breather/drain. NO CONDUIT OPENINGS ARE TO BE ADDED IN THE FIELD.

STOP ADJUSTMENT

1. Move operator to ON position.
2. Put light pressure on handle in the ON direction and hold in that position. Fork should be touching toggle.
3. Turn stop screw until it touches handle.
4. Tighten stop nut.
5. Move operator to OFF position.
6. Put normal pressure on handle in the OFF direction until the handle stops. Hold in that position.
7. Turn stop screw until it touches handle.
8. Tighten stop nut.

To properly lock out device, put operating handle on OFF position. Press the silver lockout plate tab on the handle inward (note spring resistance). Place an OSHA approved lock or hasp through any of the three (3) holes of the handle and secure the device.

When it is safe to do so, verify that the handle cannot be moved to the ON position.

Table 4

<table>
<thead>
<tr>
<th>Series</th>
<th>Amperage</th>
<th>Wire range</th>
<th>in.-lb.</th>
<th>N-m</th>
</tr>
</thead>
<tbody>
<tr>
<td>DS361UX</td>
<td>30A</td>
<td>#10-#6 AWG</td>
<td>35-40</td>
<td>4-5</td>
</tr>
<tr>
<td>DS362UX</td>
<td>60A</td>
<td>#6-#3 AWG</td>
<td>45</td>
<td>5</td>
</tr>
<tr>
<td>DS363UX</td>
<td>100A</td>
<td>#1-1/0 AWG</td>
<td>50</td>
<td>6</td>
</tr>
<tr>
<td>DS361FX</td>
<td>30A</td>
<td>#10-#6 AWG</td>
<td>35-40</td>
<td>4-5</td>
</tr>
<tr>
<td>DS362FX</td>
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<td>#6-#3 AWG</td>
<td>45</td>
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</tr>
<tr>
<td>DS363FX</td>
<td>100A</td>
<td>#1-1/0 AWG</td>
<td>50</td>
<td>6</td>
</tr>
</tbody>
</table>

Table 5

<table>
<thead>
<tr>
<th>Series</th>
<th>Cover screw</th>
<th>ft.-lb.</th>
<th>N-m</th>
</tr>
</thead>
<tbody>
<tr>
<td>DS361UX</td>
<td>3/16&quot;-18</td>
<td>20-25</td>
<td>27-34</td>
</tr>
<tr>
<td>DS362UX</td>
<td>3/8&quot;-16</td>
<td>35-40</td>
<td>48-64</td>
</tr>
<tr>
<td>DS363UX</td>
<td>3/8&quot;-16</td>
<td>35-40</td>
<td>48-64</td>
</tr>
<tr>
<td>DS361FX</td>
<td>3/8&quot;-16</td>
<td>35-40</td>
<td>48-64</td>
</tr>
<tr>
<td>DS362FX</td>
<td>3/8&quot;-16</td>
<td>35-40</td>
<td>48-64</td>
</tr>
<tr>
<td>DS363FX</td>
<td>1/2&quot;-13</td>
<td>40-45</td>
<td>54-61</td>
</tr>
</tbody>
</table>

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