

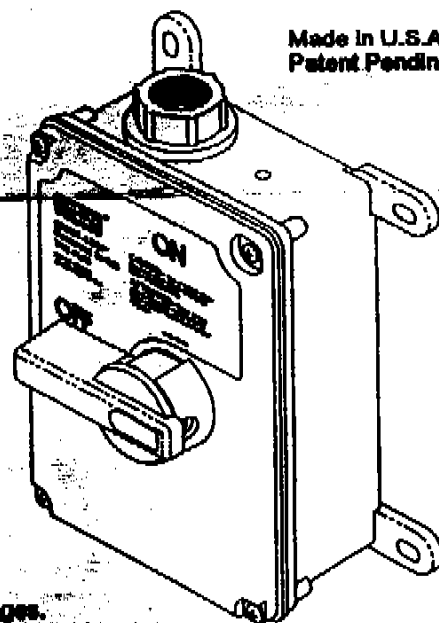


®

Wiring Device Division

CIRCUIT-LOCK™ DISCONNECT SWITCH

This enclosure provides ON-OFF switched control of a directly connected load and meets the requirements of Outdoor/Indoor (Type 4X, Watertight, Corrosion Resistant) and Indoor (Type 12K Dust Tight) Installations.



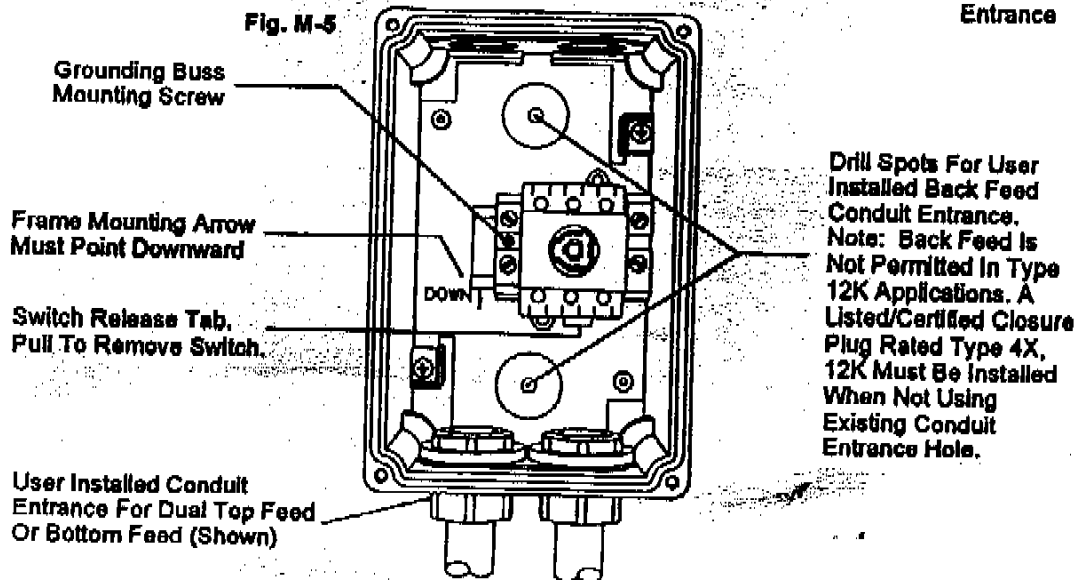
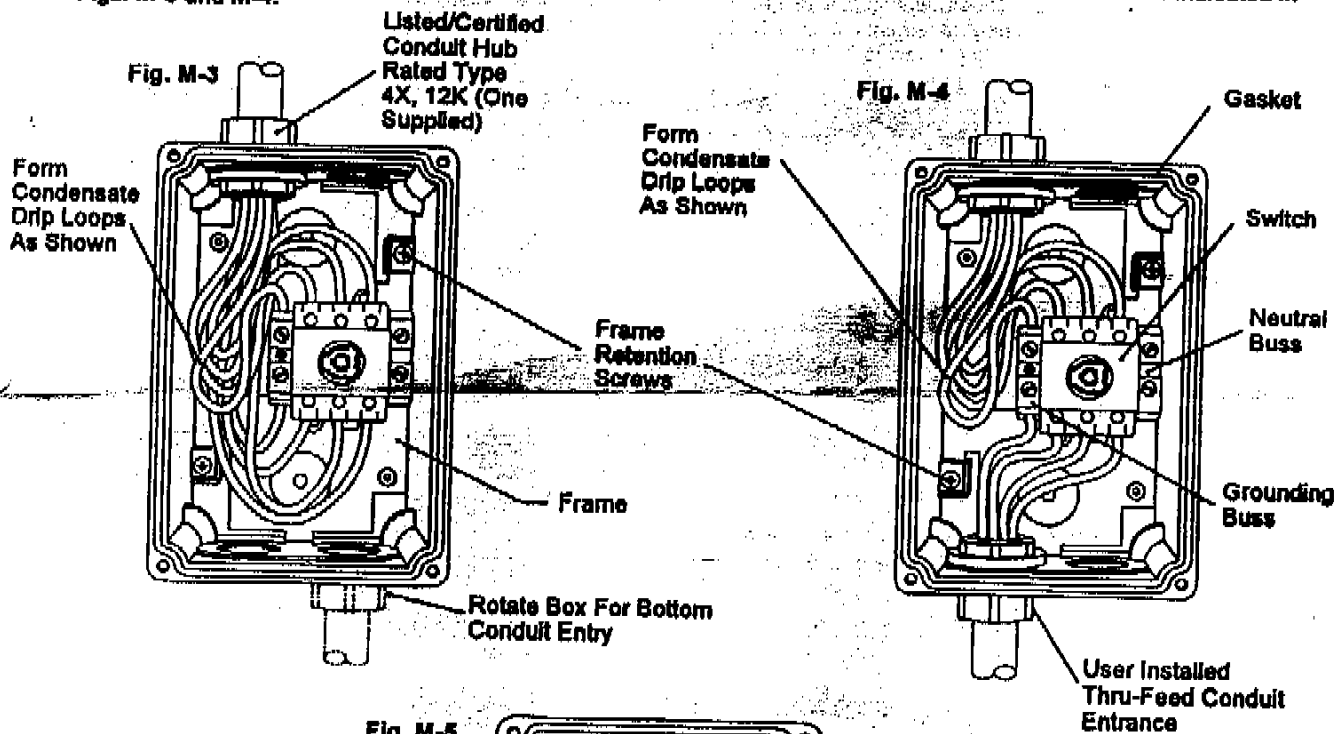
Made in U.S.A.
Patent Pending

GENERAL INFORMATION

1. **NOTICE:** For installation only by a qualified electrician in accordance with the National Electrical Code® or the Canadian Electrical Code, local codes, and the instructions on the following pages.
2. **CAUTION:** **RISK OF ELECTRIC SHOCK. MORE THAN ONE SUPPLY DISCONNECT MAY BE REQUIRED TO DE-ENERGIZE THIS EQUIPMENT BEFORE SERVICING. DISCONNECT ALL POWER SUPPLIES TO ENCLOSURE BEFORE EXPOSING INTERIOR.**
ATTENTION: **RISQUE DE CHOC ÉLECTRIQUE. IL PEUT ÊTRE NÉCESSAIRE DE DÉBRANCHER PLUS D'UN DISJONCTEUR D'ALIMENTATION AFIN DE METTRE HORS-TENSION L'ÉQUIPEMENT AVANT D'EN FAIRE L'ENTRETIEN. DÉBRANCHER TOUTS LES GROUPES D'ALIMENTATION AU BOÎTIER AVANT DE L'OUVRIER ET D'EN EXPOSER L'INTÉRIEUR.**
3. **NOTICE:** Separate overcurrent protection must be provided in accordance with National Electrical Code® Article 220 or Canadian Electrical Code, Section B, as appropriate.
4. Suitable for use on a circuit capable of delivering not more than 10,000 rms symmetrical amperes, 600 VAC maximum.
5. This enclosure includes a lockout provision: ON-OFF control knob (in the OFF position) accepts up to a 5/16 inch (8 mm) diameter shackle of a suitable padlock Lockout device to isolate energy from the connected equipment as a method of compliance to OSHA Lockout/Tagout Regulation 29 CFR Part 1910.147. This feature, however, does NOT isolate the power supplied to the enclosure during internal servicing of the enclosure.

B. DUAL CONDUIT ENTRY AND BACK FEED: See Figs. M-1 and M-2.

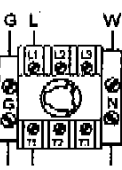
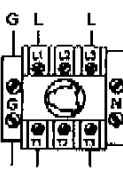
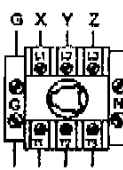
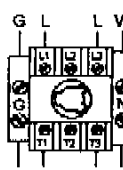
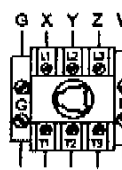
1. **NOTE:** Back feed is NOT permitted in Type 12K applications. Back feed is permitted in Type 4X applications.
2. Remove frame retention screws and remove frame.
3. Drill or punch a 1.109 inch diameter (3/4" trade size) hole at the desired conduit entrance location. Use drill spots to accurately locate hole.
4. Use a Listed/Certified conduit hub rated for Type 4X and Type 12K applications such as RACO #1703.
5. Any unused conduit entrance holes must be sealed with Listed/Certified closure plugs rated Type 4X and Type 12K.
6. Use of user-installed conduit entrances above the switch are not recommended in applications where condensation may be present in conduit. When using the top feed conduit entrance, drip loops must always be formed as indicated in Figs. M-3 and M-4.



C. WIRING INSTRUCTIONS

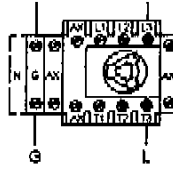
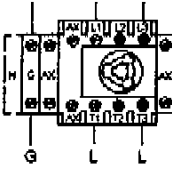
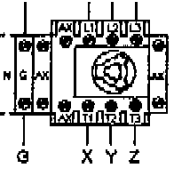
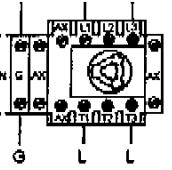
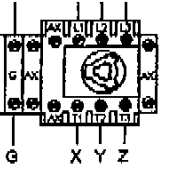
1. Use conductors with insulation rated 90°C or higher having sufficient ampacity in accordance with the 60°C column of Table 310-16 of the National Electrical Code® or Table 2 of the Canadian Electrical Code.
2. CAUTION: Use copper conductors only.
ATTENTION: Employer uniquement avec fil de cuivre.
3. DO NOT tin conductors.
4. Make sure that the connected device rating does not exceed the rating of this device. See General information # 4 regarding overcurrent protection.
5. For all catalogs, except HBLDS33ACNK, switch terminals will accept wire size range from # 8-14 AWG; ground terminals from # 6-16 AWG; and neutral terminals from # 8-22 AWG.
6. For catalog HBLDS33ACNK only, switch terminals will accept wire size range from # 8-14 AWG; ground terminals from # 6-16 AWG.
7. For all catalogs, except HBLDS33ACNK: Strip length of all conductors is 1/2 inch (13 mm). For catalog HBLDS33ACNK, strip length of all conductors is .35 inch (9 mm).
8. Select the correct wiring diagram and wire the switch as shown.
9. For all catalogs, except HBLDS33ACNK: Tighten the switch terminal screws to 12-15 lb.-in. (1.4-1.7 N-m); For catalog HBLDS33ACNK tighten the switch terminal screws to 11 lb.-in. (1.25 N-m). For all catalogs: Tighten ground terminal screws 16-18 lb.-in. (1.8-2.0 N-m); and neutral terminal screws 13-15 lb.-in. (1.5-1.7 N-m).
10. Tighten the grounding buss mounting screw to 7-10 lb.-in. (0.8-1.2 N-m).
11. Take extra caution that there are no loose wire strands.
12. Reinstall the cover. The handle must be in the OFF position. Make sure the rope gasket is properly seated in the groove. Tighten the four cover screws to 18 lb.-in. (2.0 N-m).
13. Consult factory for auxiliary contact availability.

Wiring diagrams for all Catalogs, except HBLDS33ACNK

<p>125 VAC 1Ø 240 VAC 1Ø</p> 	<p>240 VAC 1Ø 480 VAC 1Ø 600 VAC 1Ø</p> 	<p>240 VAC 3Ø 480 VAC 3Ø 600 VAC 3Ø</p> 	<p>125/240 VAC 1Ø</p> 	<p>120/208 VAC 3ØY 240/480 VAC 3ØY 347/600 VAC 3ØY</p> 	<p>NOTICE: This manual motor controller carries a maximum rating of:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>30 Amp</td> <td>600 VAC</td> </tr> <tr> <td>1 HP</td> <td>120 VAC 1Ø</td> </tr> <tr> <td>3 HP</td> <td>200-240 VAC 1Ø</td> </tr> <tr> <td>5 HP</td> <td>480 VAC 1Ø</td> </tr> <tr> <td>7.5 HP</td> <td>200-240 VAC 3Ø</td> </tr> <tr> <td>15 HP</td> <td>480 VAC 3Ø</td> </tr> <tr> <td>15 HP</td> <td>600 VAC 3Ø</td> </tr> </table>	30 Amp	600 VAC	1 HP	120 VAC 1Ø	3 HP	200-240 VAC 1Ø	5 HP	480 VAC 1Ø	7.5 HP	200-240 VAC 3Ø	15 HP	480 VAC 3Ø	15 HP	600 VAC 3Ø
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15 HP	600 VAC 3Ø																		

Note: "G" designates ground wire and yellow and green grounding buss.

Wiring diagrams for catalog HBLDS33ACNK only.

<p>125 VAC 1Ø 240 VAC 1Ø</p> 	<p>240 VAC 1Ø 480 VAC 1Ø 600 VAC 1Ø</p> 	<p>240 VAC 3Ø 480 VAC 3Ø 600 VAC 3Ø</p> 	<p>125/240 VAC 1Ø</p> 	<p>120/208 VAC 3ØY 240/480 VAC 3ØY 347/600 VAC 3ØY</p> 	<p>NOTICE: This manual motor controller carries a maximum rating of:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>30 Amp</td> <td>600 VAC</td> </tr> <tr> <td>1 HP</td> <td>120 VAC 1Ø</td> </tr> <tr> <td>2.5 HP</td> <td>220-277 VAC 1Ø</td> </tr> <tr> <td>5 HP</td> <td>480 VAC 1Ø</td> </tr> <tr> <td>5 HP</td> <td>208-240 VAC 3Ø</td> </tr> <tr> <td>10 HP</td> <td>480 VAC 3Ø</td> </tr> <tr> <td>10 HP</td> <td>600 VAC 3Ø</td> </tr> </table>	30 Amp	600 VAC	1 HP	120 VAC 1Ø	2.5 HP	220-277 VAC 1Ø	5 HP	480 VAC 1Ø	5 HP	208-240 VAC 3Ø	10 HP	480 VAC 3Ø	10 HP	600 VAC 3Ø
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Note: "G" designates ground wire and yellow and green grounding buss.
Note: "N" represents optional neutral buss.

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