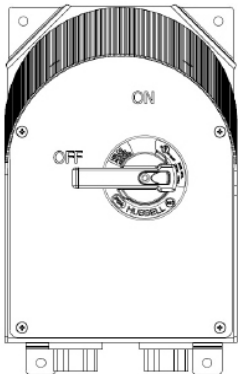


HUBBELL 60-100 AMP CIRCUIT-LOCK® DISCONNECT SWITCH

English

GENERAL INFORMATION

- 1. **NOTICE:** For installation by a qualified electrician in accordance with national and local electrical codes and the following instructions.
- 2. **CAUTION: RISK OF ELECTRIC SHOCK.** More than one disconnect switch may be required to de-energize this equipment before servicing. Disconnect ALL power supplies to enclosure before exposing interior.
- 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, 600VAC maximum. Suitable for use on a circuit capable of delivering not more than 65,000 rms symmetrical amperes, 600 VAC maximum when protected by Class J fuses rated 100 amperes maximum. Auxiliary contact (if installed) is suitable for use in a circuit not capable of delivering more than 3,000 rms symmetrical amperes, 600 VAC maximum.
- 5. This enclosure includes a lockout provision: ON-OFF control knob (in the OFF position) accepts up to 5/16 inch (8 mm) diameter shackle of a suitable padlock or 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 does NOT isolate the power supplied to the enclosure during internal servicing of the enclosure.



CLEANING PROCEDURES

- 6. Follow the general cleaning procedures established by your facility for your specific application.
- 7. This product is certified by NSF® International for use in food processing Splash Zone Areas, the following cleaning practice is recommended for this product:
 - CAUTION:** Use only chemicals and cleaning solutions that are safe for use with plastics and rubber gaskets.
 - CAUTION:** Risk of electric shock. Do not clean this product while undergoing electrical maintenance or service.
 - a. Use hose directed water or cleaning solution to remove any collected soil or contaminants from behind this enclosure. Care must be exercised to apply the water spray in such a manner to completely wash the area between the enclosure and the wall onto which it is mounted.
 - b. Use hose directed water or cleaning solution to wash away soil or contaminants from the exterior surfaces of the enclosure.
 - c. **CAUTION:** Do not direct or concentrate high pressure water or cleaning solution on the lid and box gasket seams, switch handle area or on any applied labels.
 - d. After using hose directed water or cleaning solutions, use a clean damp cloth to manually re-move any soil or other contaminants from the gasket seam area, handle area or other necessary areas.
 - e. Use a dry clean cloth to wipe away any excess water.

This manual motor controller carries a maximum rating of:

60 A and 100 A	600 VAC
7.5 HP (5.6 kW)	120 VAC, 1Ø
15 HP (11.19 kW)	200-240 VAC, 1Ø
30 HP (22.37 kW)	480 VAC, 1Ø
30 HP (22.37 kW)	200-240 VAC, 3Ø
50 HP (37.28 kW)	480 VAC, 3Ø
50 HP (37.28 kW)	600 VAC, 3Ø

INSTALLATION INSTRUCTIONS

This enclosure may be mounted for bottom or dual conduit entrances.

A. MOUNTING INSTRUCTIONS

- 1. For Type 4X, Type 12 and IP69k applications, enclosure must be mounted by means of mounting feet. DO NOT drill, punch or nail mounting holes through the enclosure.
- 2. Mounting feet will accept up to 1/4" or 6 mm screws (not provided). Mounting pattern is shown in Fig. M-1.
- 3. Remove the enclosure cover.
- 4. Drill or punch at the desired conduit entrance location(s): (drill spots shown in Fig. M-2)
 - a. 1-3/8 inch (34.9 mm) diameter for 1 inch TRADE SIZE.
 - b. 1-3/4 inch (44.4 mm) diameter for a 1-1/4 inch TRADE SIZE.
- 5. Use appropriately rated conduit hub for required environmental rating of the application. Provided conduit hub (Raco #1705) is rated for Type 4X and Type 12 applications.
- 6. Install the conduit hub. Be sure that the "O" ring is properly seated in its groove. Tighten the conduit hub.
- 7. Any unused conduit entrance holes must be sealed with Listed/Certified closure plugs rated Type 4X, Type 12 and/or IP69k depending on required environmental application.
- 8. If required use ONLY a Listed / Certified Breather Drain rated for Type 4X, Type 12 and/or IP69k depending on required environmental application. Punch or drill a .796 inch diameter hole on the drill spot through the bottom wall of the enclosure (see Fig M-3).

WIRING INSTRUCTIONS

- 1. Select conductors having 90°C or higher rated insulation and sufficient ampacity in accordance with the 75 °C column of National Electrical Code® Table 310-16 or Canadian Electrical Code, Table 2.
- 2. **CAUTION: USE COPPER CONDUCTORS ONLY.**
- 3. **DO NOT TIN CONDUCTORS.**
- 4. Make sure the connected equipment rating does not exceed the rating of this device. See GENERAL INFORMATION (#4) regarding over-current protection.
- 5. Terminal capacity:

TABLE 1	60A	100A
Switch	#2 to #10 AWG	#2 to #10 AWG
Ground	#6 to #16 AWG	#6 to #16 A
Neutral	#6 to #14 AWG	#2 to #12 AWG
Auxiliary Contact	#14 to #18 AWG	#14 to #18 AWG

- 6. Strip conductor insulation 1/2" (13 mm).
- 7. Select the proper wiring diagram. Loosen terminal screws. Insert conductors fully into proper terminals.
- 8. Tighten terminal screws as follows:
 - a. SWITCH terminal capacity: 50 pound•inches (5.7 N•m).
 - b. GROUND terminals: 35.4 pound•inches (3.9 N•m)
 - Neutral terminals 60A: 35.4 pound•inches (3.9 N•m)
 - Neutral terminals 100A: 44.3 pound•inches (5.0 N•m)
 - c. Auxiliary Contact terminals: 10-12 pound•inches(1.2-1.4 N•m)
- 9. **TAKE CAUTION THAT THERE ARE NO STRAY WIRE STRANDS.**
- 10. Tighten the grounding buss mounting screw to 21.2 pound•inches (2.4 N•m).
- 11. Reinstall the cover. The handle must be in the OFF position. Start each of the four screws by hand to avoid cross threading. Tighten the four cover screws to 24 pound•inches (2.7 N•m). Make sure the sealing O-rings are in place under the screw heads.
- 12. An additional DANGER label (D64558) has been supplied loose with this product as a convenience. Apply label to the outside of the front cover (see figure M-1) if the product application does not pose the risk of the label being removed through cleaning, hose down or any other means.
- 13. Consult factory for auxiliary contact availability.



Fig. M-1

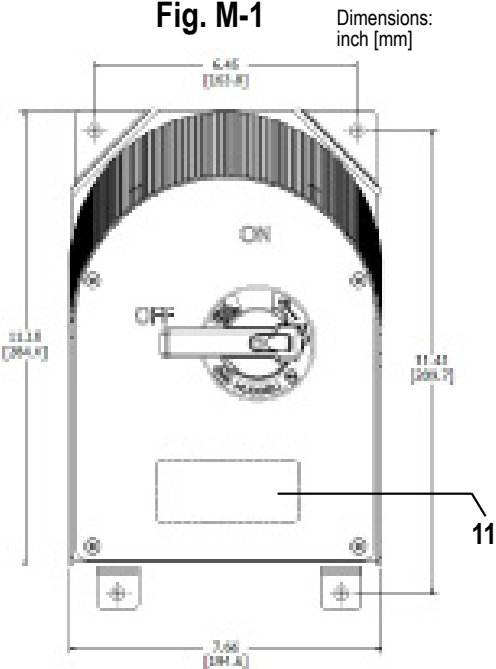


Fig. M-2

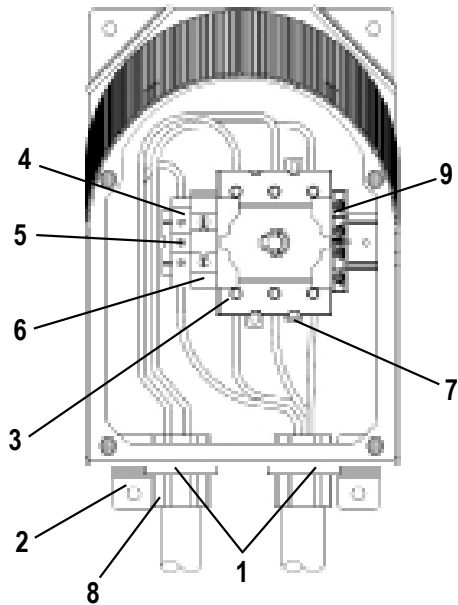
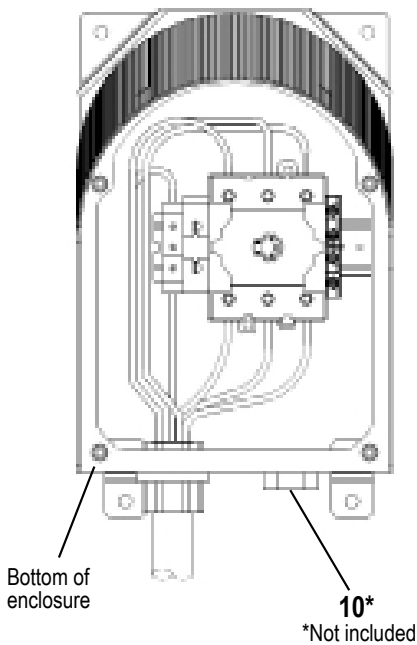
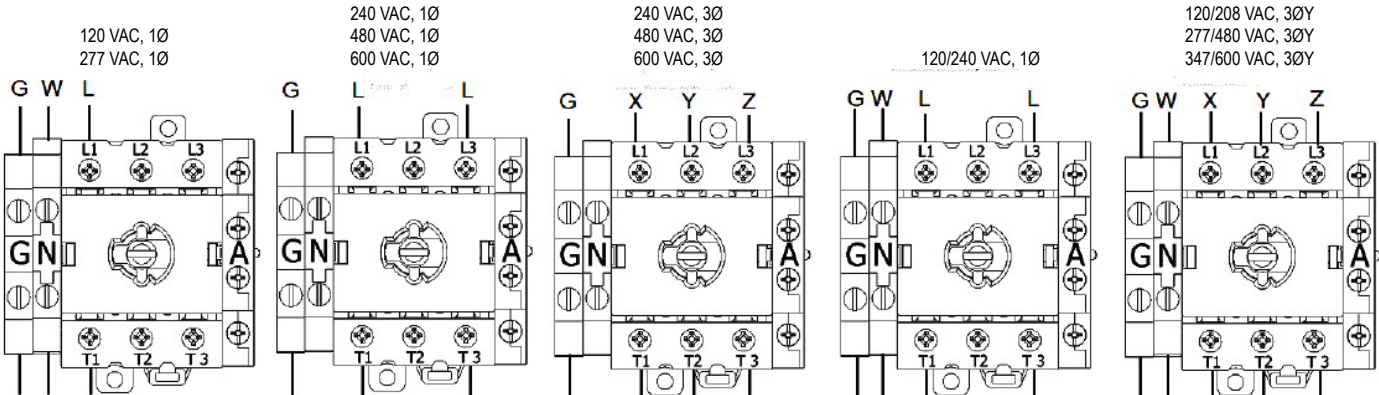
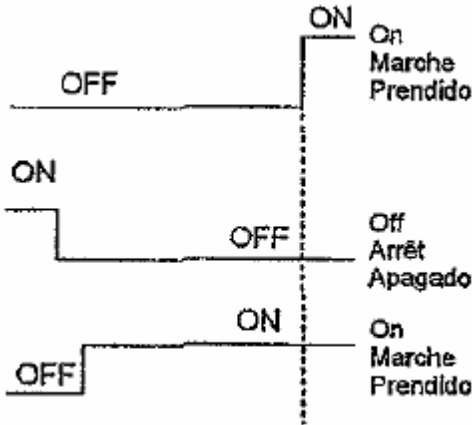


Fig. M-3



- 1 (2) Drill spots for user installed conduit
- 2 Mounting foot
- 3 Switch
- 4 Grounding buss
- 5 Grounding buss mounting screw
- 6 Neutral buss
- 7 Switch release tab. Pull to remove switch.
- 8 User installed conduit entrance for bottom feed
- 9 Auxiliary contact (if installed)
- 10 Breather drain (if required)
- 11 Optional field installed label. See note 12.

WIRING DIAGRAMS



Français***Español***

100 A	600 VAC
7,5 HP (5,6 kW)	120 VAC, 1Ø
15 HP (11,19 kW)	200-240 VAC, 1Ø
30 HP (22,37 kW)	480 VAC, 1Ø
30 HP (22,37 kW)	200-240 VAC, 3Ø
50 HP (37,28 kW)	480 VAC, 3Ø
50 HP (37,28 kW)	600 VAC, 3Ø

TABLEAU 1	60 A	100 A
Interrupteur	2 à 10 AWG	2 à 10 AWG
MALT	6 à 16 AWG	6 à 16 A
Neutre	6 à 14 AWG	2 à 12 AWG
Contact auxiliaire	14 à 18 AWG	14 à 18 AWG

- | TABLA 1 | 60 A | 100 A |
|-------------------|-------------|--------------|
| Interruptor | 2 a 10 AWG | 2 a 10 AWG |
| TIERRA | 6 a 16 AWG | 6 a 16 A |
| Neutro | 6 a 14 AWG | 2 a 12 AWG |
| Contacto auxiliar | 14 a 18 AWG | 14 a 18 AWG |

- HUBBELL DE MÉXICO, S.A. DE C.V.**
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Fig. M-1

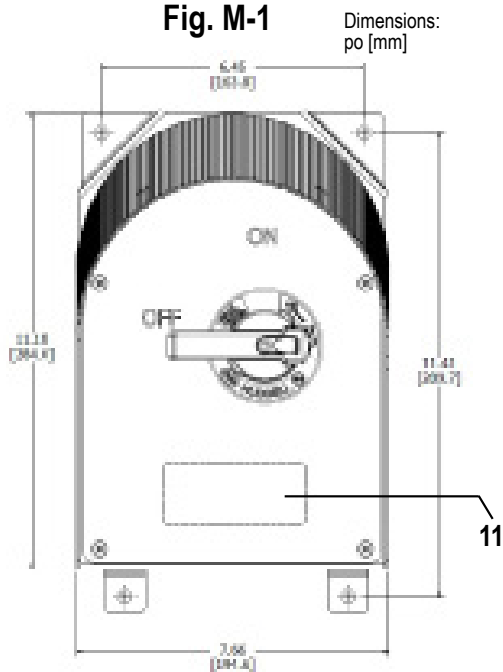


Fig. M-2

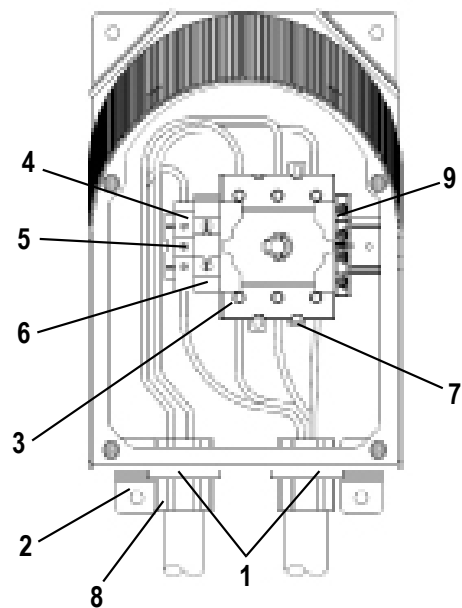
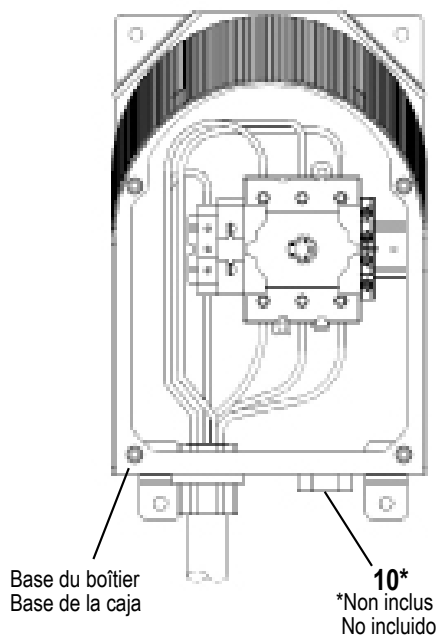
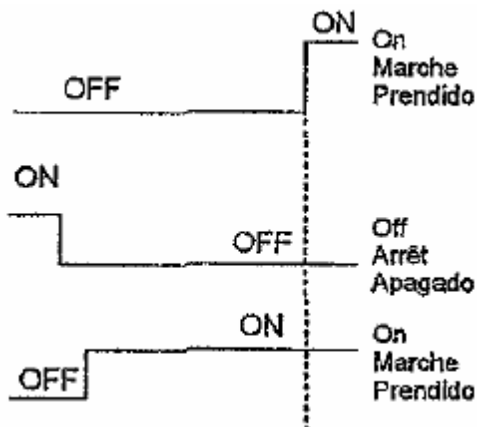


Fig. M-3



- 1 (2) repères de perçage pour conduit installé par le client
- 2 Patte de fixation
- 3 Interrupteur
- 4 Barre de MALT
- 5 Vis de fixation de la barre de MALT
- 6 Barre de neutre
- 7 Patte de dégagement de l'interrupteur, tirer pour enlever l'interrupteur.
- 8 Entrée de conduit réalisée par l'utilisateur pour une alimentation par le bas
- 9 Contact auxiliaire (si installé)
- 10 Évén (si nécessaire)
- 11 Étiquette optionnelle installée sur place. Consulter le point 12.

• DIAGRAMMES DE CÂBLAGE • DIAGRAMAS DE CABLEADO



- 1 (2) puntos de taladro para conducto instalado por el usuario
- 2 Orejas de fijación
- 3 Interruptor
- 4 Barra de puesta a tierra
- 5 Tornillo de fijación de la barra de puesta a tierra
- 6 Barra de neutro
- 7 Lengüeta de desenganchar del interruptor. Tirar para sacar el interruptor.
- 8 Conduit de alimentación inferior, instalado por el usuario
- 9 Contacto auxiliar (si existe)
- 10 Respiradero (si es necesario)
- 11 Etiqueta opcional instalada en sitio. Ver punto 12.

