

# PowerXL DM1 option cards instruction leaflet

**Instruction Leaflet**  
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**Notice d'installation**  
**Instrucciones de montaje**  
**Istruzioni per il montaggio**  
**安装说明**

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**Montagehandleiding**  
**Montagevejledning**  
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**Instruções de montagem**  
**Monteringsanvisning**

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**Návod k montáži**  
**Paigaldusjuhend**  
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**ΜΟΝΤΑЖΝΗ ΙΝΣΤΡΥΚΤΙΟΝ**  
**Instrucțiuni de montaj**



**(en) Electric Current! Danger to Life!**

Only skilled or instructed persons may carry out the following operations.

**(de) Lebensgefahr durch elektrischen Strom!**

Nur Elektrofachkräfte und elektrotechnisch unterwiesene Personen dürfen die im Folgenden beschriebenen Arbeiten ausführen.

**(fr) Tension électrique dangereuse !**

Seules les personnes qualifiées et averties doivent exécuter les travaux ci-après.

**(es) ¡Corriente eléctrica! ¡Peligro de muerte!**

El trabajo a continuación descrito debe ser realizado por personas cualificadas y advertidas.

**(it) Tensione elettrica: Pericolo di morte!**

Solo persone abilitate e qualificate possono eseguire le operazioni di seguito riportate.

**(zh) 触电危险!**

只允许专业人员和受过专业训练的人员进行下列工作。

**(ru) Электрический ток! Опасно для жизни!**

Только специалисты или проинструктированные лица могут выполнять следующие операции.

**(nl) Levensgevaar door elektrische stroom!**

Uitsluitend deskundigen in elektriciteit en elektrotechnisch geïnstrueerde personen is het toegestaan, de navolgend beschrevene werkzaamheden uit te voeren.

**(da) Livsfare på grund af elektrisk strøm!**

Kun uddannede el-installatører og personer der er instruerede i elektrotekniske arbejdsopgaver, må udføre de nedenfor anførte arbejder.

**(el) Προσοχή, κίνδυνος ηλεκτροπληξίας!**

Οι εργασίες που αναφέρονται στη συνέχεια θα πρέπει να εκτελούνται μόνο από ηλεκτρολόγους και ηλεκτροτεχνίτες.

**(pt) Perigo de vida devido a corrente eléctrica!**

Apenas electricistas e pessoas com formação electrotécnica podem executar os trabalhos que a seguir se descrevem.

**(sv) Livsfara genom elektrisk ström!**

Endast utbildade elektriker och personer som undervisats i elektroteknik får utföra de arbeten som beskrivs nedan.

**(fi) Hengenvaarallinen jännite!**

Vain pätevät sähköasentajat ja opastusta saaneet henkilöt saavat suorittaa seuraavat työt.

# EAT•N

Powering Business Worldwide

**CS Nebezpečí úrazu elektrickým proudem!**

Níže uvedené práce smějí provádět pouze osoby s elektrotechnickým vzděláním.

**et Eluhtlik! Elektrilöögiolt!**

Järgnevalt kirjeldatud töid tohib teostada ainult elektriala spetsialist või elektrotehnilise instrueerimise läbinud personal.

**hu Életveszély az elektromos áram révén!**

Csak elektromos szakemberek és elektrotechnikában képzett személyek végezhetik el a következőkben leírt munkákat.

**lv Elektriskā strāva apdraud dzīvību!**

Tālāk aprakstītos darbus drīkst veikt tikai elektrospeciālisti un darbam ar elektrotehnikām ekārtām instruētās personas!

**lt Pavojus gyvybei dėl elektros srovės!**

Tik elektrikai ir elektrotechnikos specialistai gali atlikti žemiau aprašytus darbus.

**pl Porażenie prądem elektrycznym stanowi zagrożenie dla życia!**

Opisane poniżej prace mogą przeprowadzać tylko wykwalifikowani elektrycy oraz osoby odpowiednio poinstruowane w zakresie elektrotechniki.

**sl Življenjska nevarnost zaradi električnega toka!**

Spodaj opisana dela smejo izvajati samo elektrostrokovnjaki in elektrotehničarji, poučene osebe.

**sk Nebezpečnosť ohrozenia života elektrickým prúdom!**

Práce, ktoré sú nižšie opísané, smú vykonávať iba elektroodborníci a osoby s elektrotechnickým vzdelaním.

**bg Опасност за живота от електрически ток!**

Операциите, описани в следващите раздели, могат да се извършват само от специалисти-електротехници и инструктиран електротехнически персонал.

**ro Atenție! Pericol electric!**

Toate lucrările descrise trebuie efectuate numai de personal de specialitate calificat și de persoane cu cunoștințe profunde în electrotehnică.

**Installation steps**

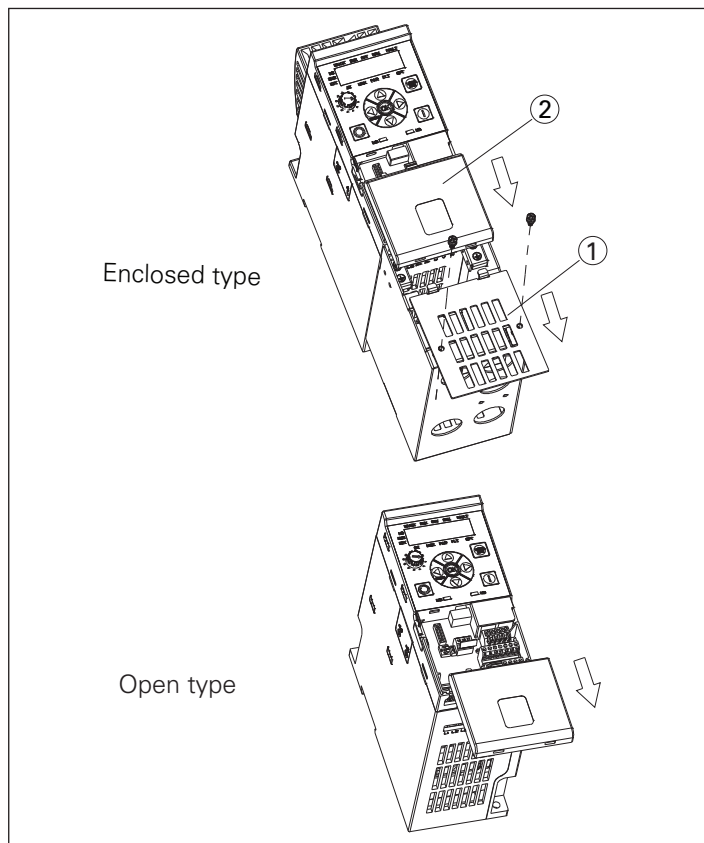
**Step 1.**

**For enclosed type:**

1. Remove the front cover ① from the NEMA 1 kit.
2. Remove the terminal cover ② from the drive.

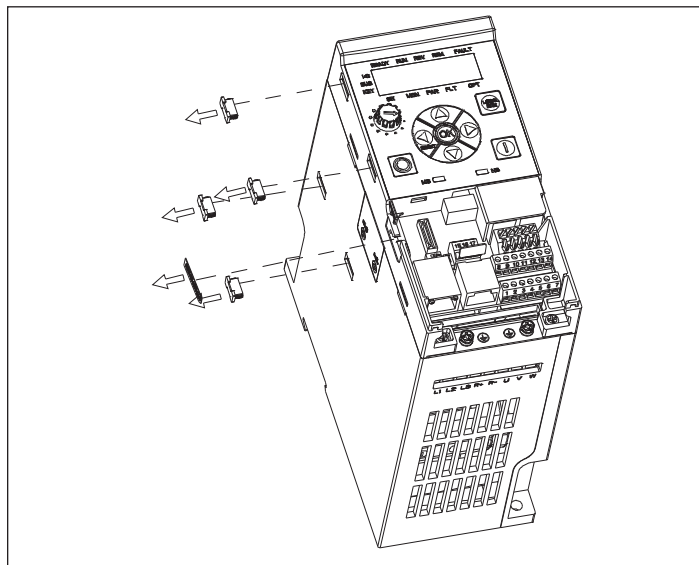
**For open type:**

1. Only remove the terminal cover ② from the drive.



**Step 2.**

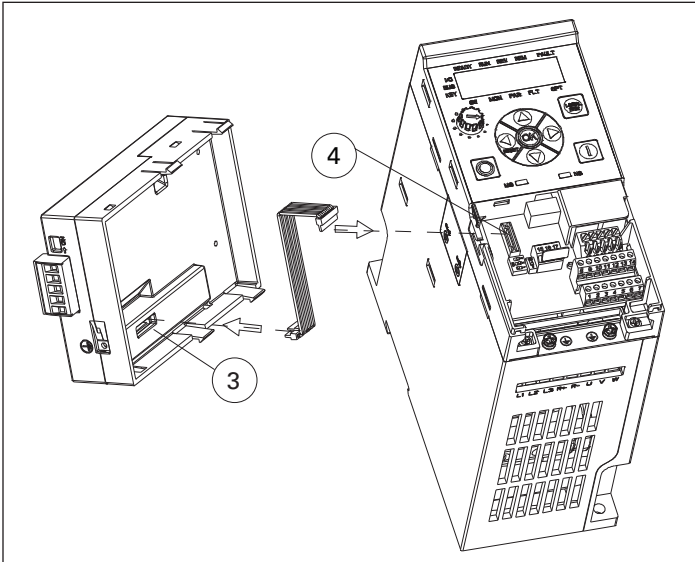
1. Remove the option card port label and four snap covers from the drive.



**Mounting – Montaje – Montage – Montaggio – Monteren – Τοποθέτηση – Montagem – Asennus –  
Montáž – Paigaldamine – Felszerelés – Montāža – Montavimas – Montaż – Montaža – Монтаж –  
Montarea – Монтаж – 安装**

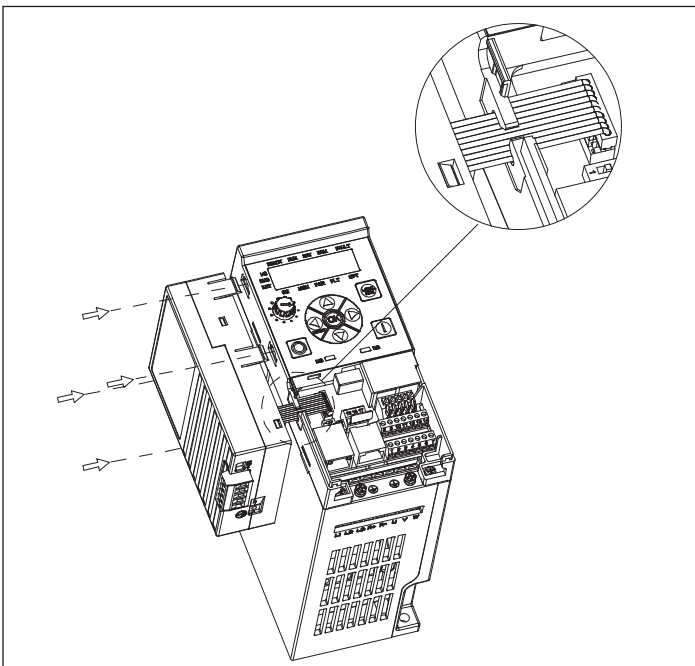
**Step 3.**

1. Connect the cable to option card connector ③ and MCU board connector ④.



**Step 4.**

1. Clamp the cable with optional card port.
2. Mount the option card to the drive by inserting the four snaps into the slots on drive.



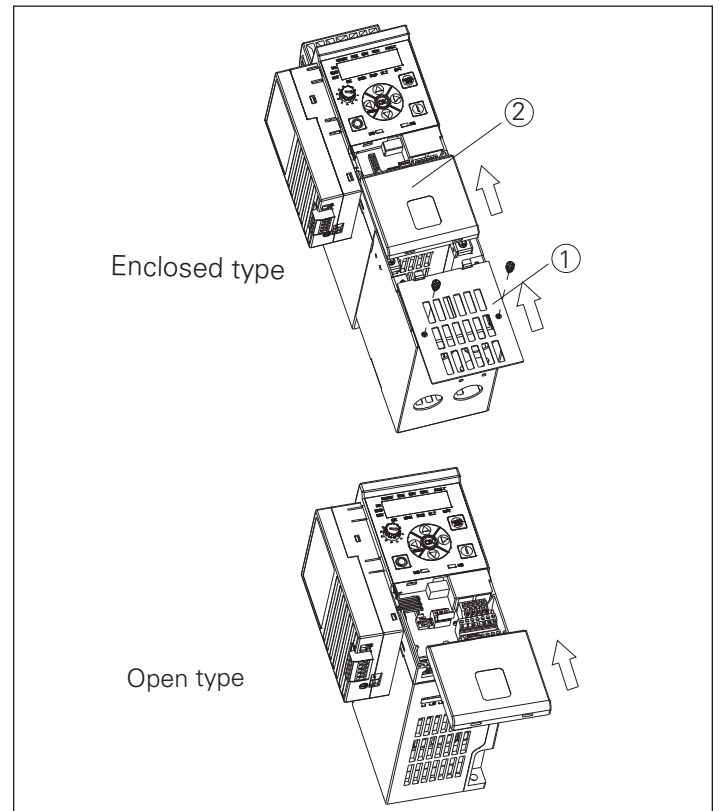
**Step 5.**

**For enclosed type:**

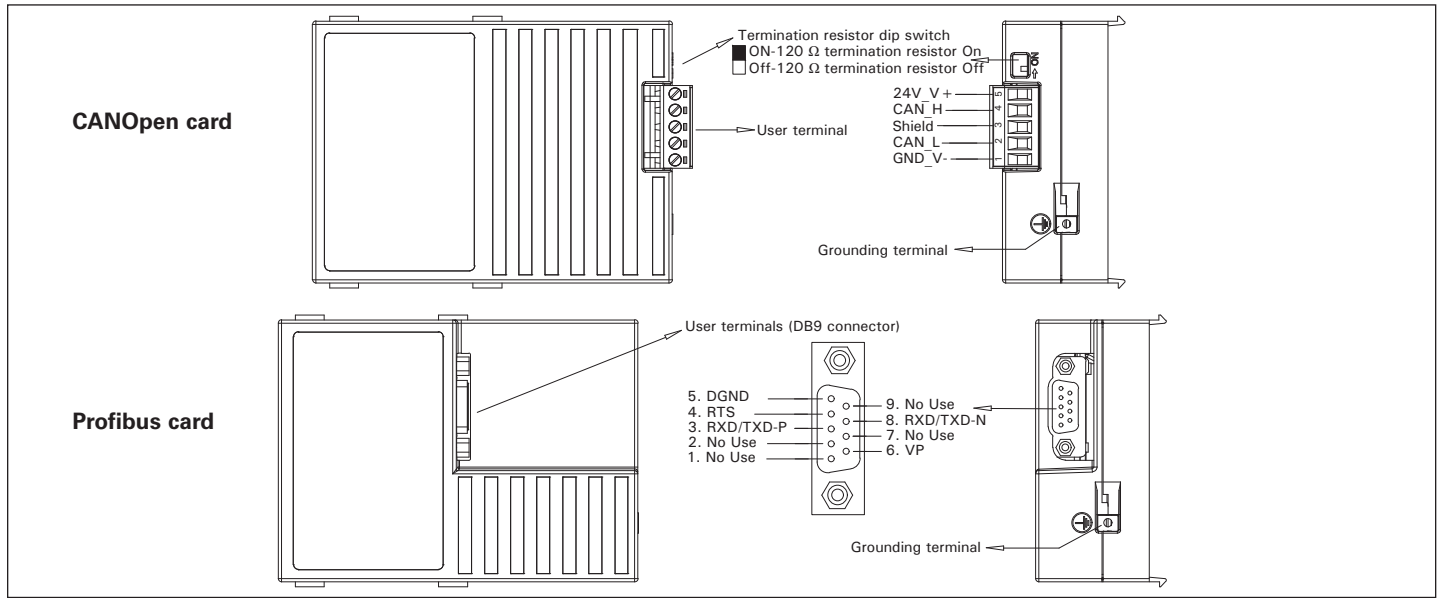
1. Install the terminal cover ② to the drive.
2. Install the front cover ① to the NEMA 1 kit.

**For open type:**

1. Only install the terminal cover ② to the drive.



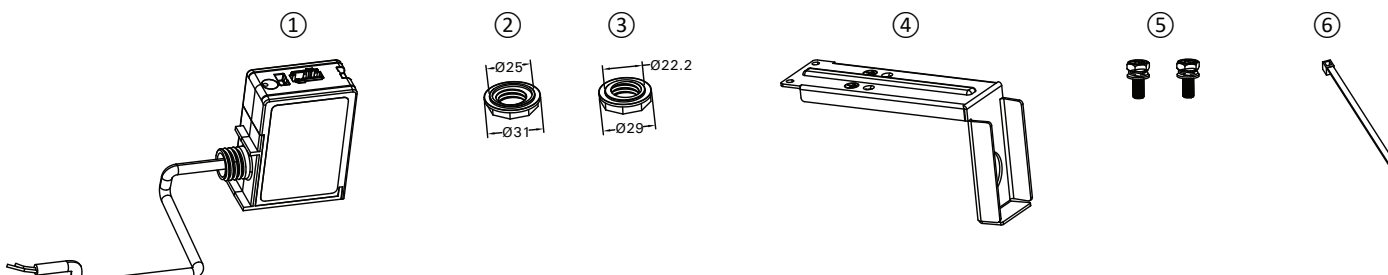
**Wiring instruction**



## Smartwire kit installation

### Component lists

**IP20 Smartwire kit**

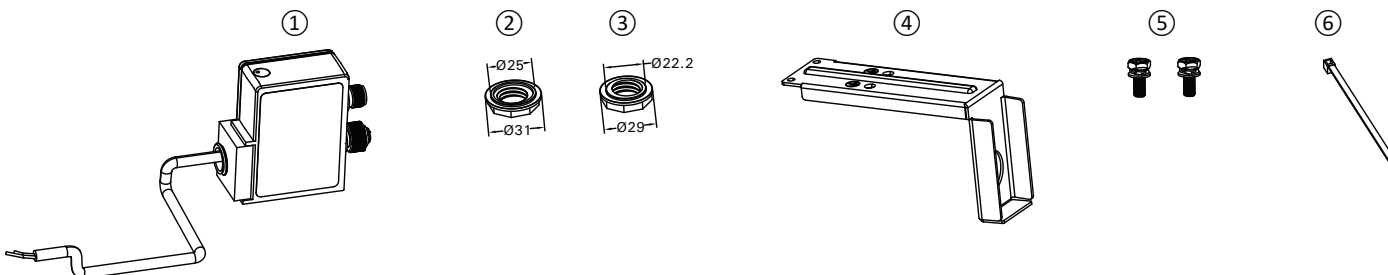


The diagram shows six components of the IP20 Smartwire kit. Part 1 is a Smartwire module with a cable. Part 2 is an EN version nut with dimensions  $\phi 25$  and  $\phi 31$ . Part 3 is a US version nut with dimensions  $\phi 22.2$  and  $\phi 29$ . Part 4 is a metal adapter plate. Part 5 consists of two M3\*8 screws. Part 6 is a cable tie.

1. Smartwire module (DXG-NET-SWD-IP20)
2. EN version nut
3. US version nut
4. Metal adapter plate
5. M3\*8 screws
6. Cable tie

Note: Parts 1, 2, 3, and 6 are used for all DG1/DH1/DM1 drives.  
Parts 4 and 5 are only used for DM1 open type drives.

**IP54 Smartwire kit**



The diagram shows six components of the IP54 Smartwire kit. Part 1 is a Smartwire module with a cable. Part 2 is an EN version nut with dimensions  $\phi 25$  and  $\phi 31$ . Part 3 is a US version nut with dimensions  $\phi 22.2$  and  $\phi 29$ . Part 4 is a metal adapter plate. Part 5 consists of two M3\*8 screws. Part 6 is a cable tie.

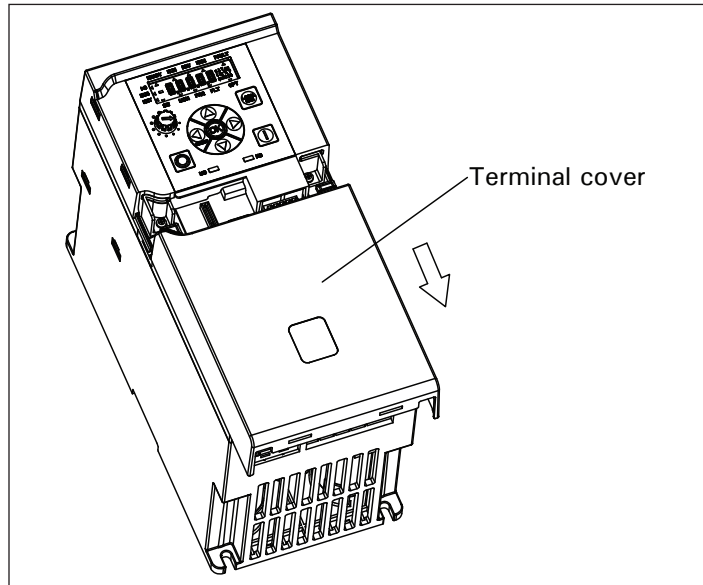
1. Smartwire module (DXG-NET-SWD-IP54)
2. EN version nut
3. US version nut
4. Metal adapter plate
5. M3\*8 screws
6. Cable tie

Note: Parts 1, 2, 3, and 6 are used for all DG1/DH1/DM1 drives.  
Parts 4 and 5 are only used for DM1 open type drives.

## Smartwire kit installation steps

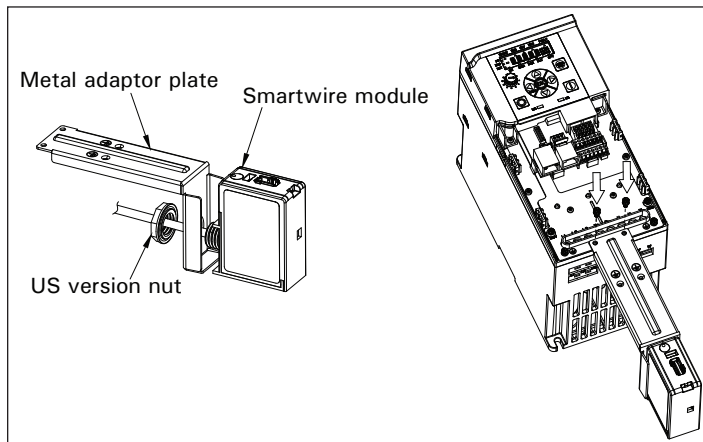
### Step 1.

1. Remove the terminal cover from the drive.



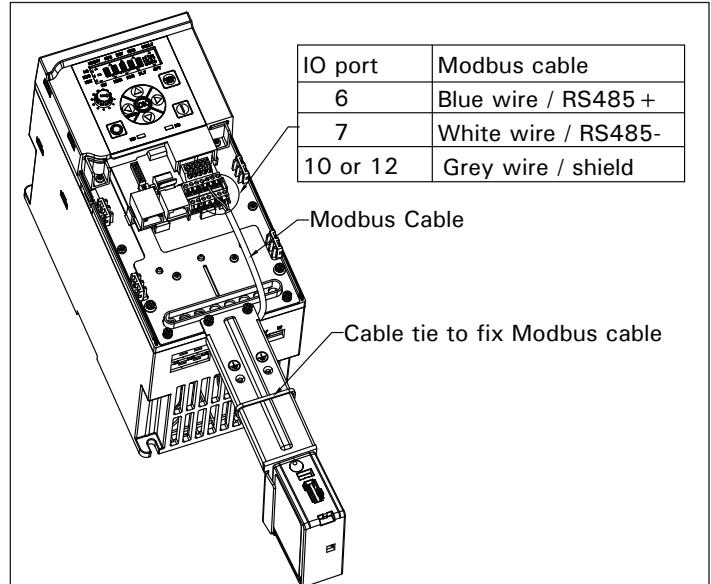
### Step 2.

1. Run the smartwire module cable through the metal adaptor plate conduit hole. Lock the module with the US version plastic nut.
2. Mount the adaptor plate and smartwire module on the drive ground plate with two M3\*8 screws torqued to 0.8 N.m (7 lb-in).



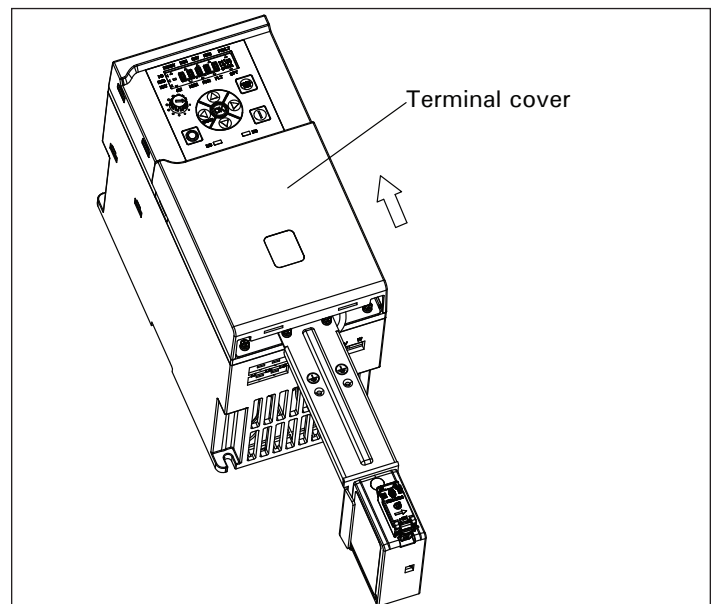
### Step 3.

1. Connect the Modbus cable to MCU board IO terminals.
2. Use a cable tie to fix the Modbus cable to adapter plate.



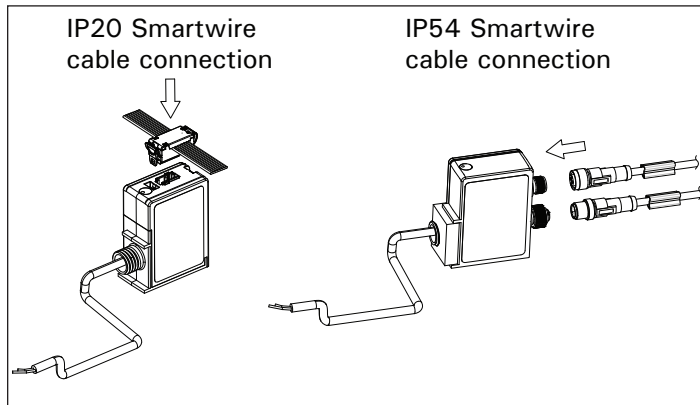
### Step 4.

1. Mount the terminal cover back on the drive.



**Step 5.**

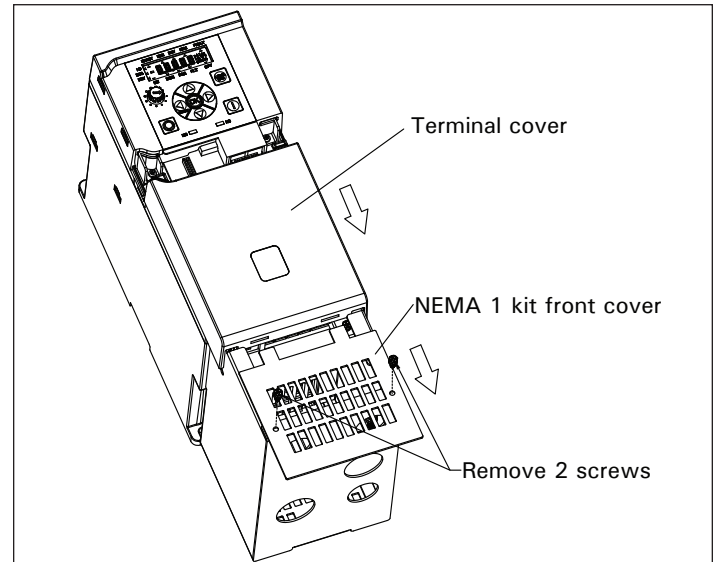
1. Connect the communication cable (ribbon cable for IP20 smartwire kit, round cable for IP54 smartwire kit) to the smartwire module.



**Smartwire NEMA kit installation steps**

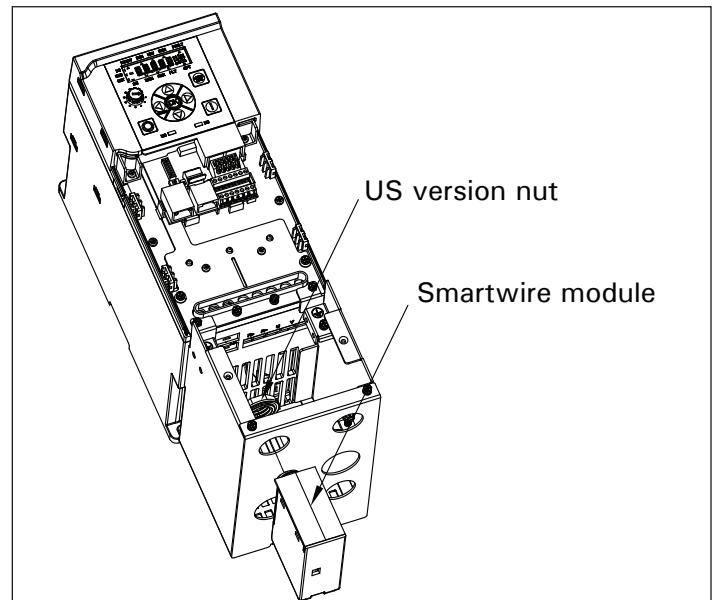
**Step 1.**

1. Remove the NEMA 1 kit front cover.
2. Remove the terminal cover from the drive.



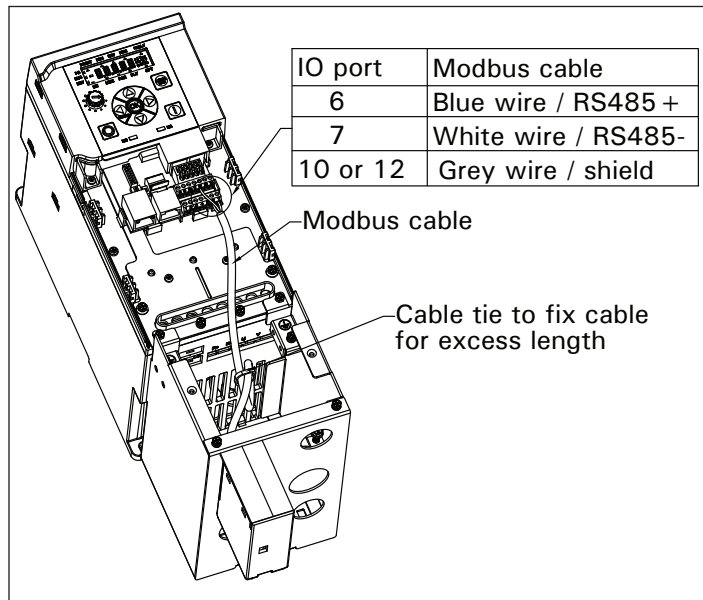
**Step 2.**

1. Insert the smartwire module cable into the top left conduit hole.
2. Lock the module with the US version plastic nut.



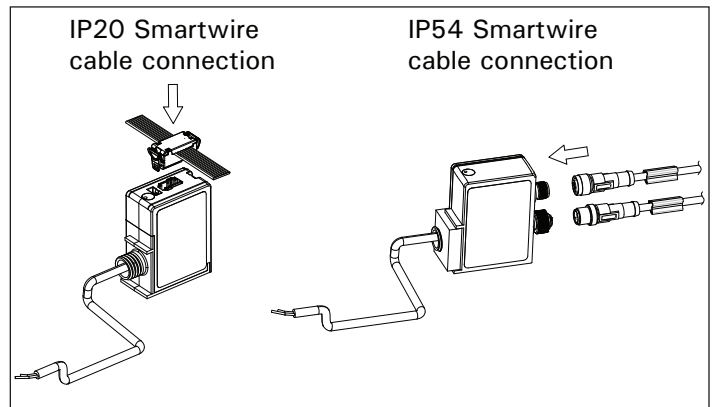
**Step 3.**

1. Connect the Modbus cable to the MCU board IO terminals.
2. Use a cable tie to fix the Modbus cable for excess length.



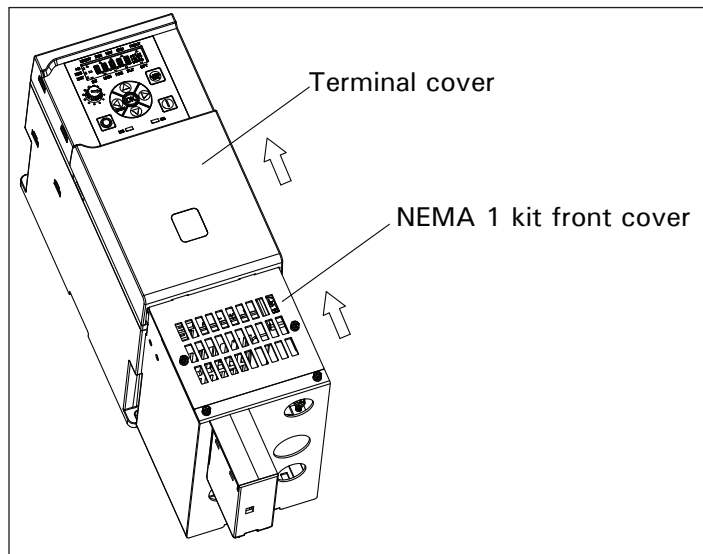
**Step 5.**

1. Connect the communication cable (ribbon cable for IP20 smartwire kit, round cable for IP54 smartwire kit) to the smartwire module.



**Step 4.**

1. Mount the terminal cover back on the drive.
2. Mount the NEMA 1 kit front cover back on the NEMA 1 kit.





**Notes:**

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