XT compact combination starter with BACnet MS/TP

General description

The *XT* compact combination starter is a UL® 508A Type F combination starter consisting of a contactor and a manual motor protector (MMP). Standard features include a control power transformer (CPT), Hand-Off-Auto selector switch, red RUN pilot light, I/O terminal blocks, and BACnet MS/TP module. For standard product instructions, please refer to the *XT* compact combination starter instruction leaflet, PUB53892.

Wiring schematic

There are three wiring diagrams for the factory-installed BACnet module. **Figure 1** illustrates 120 V control power for 208 V, 240 V, and 480 V for the BACnet module. **Figure 2** shows 24 V control power. **Figure 3** represents 120 V control power at 600 V. It utilizes a 120 V CPT and a 24 V power supply for the BACnet module.
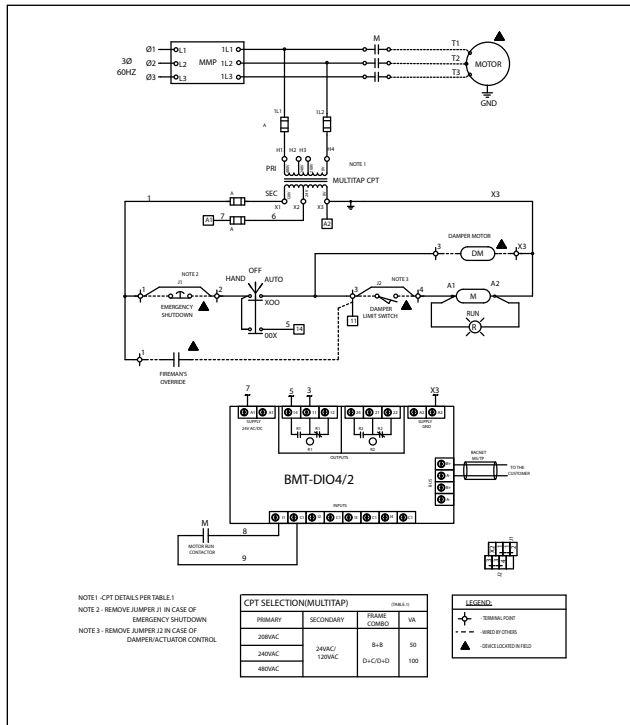

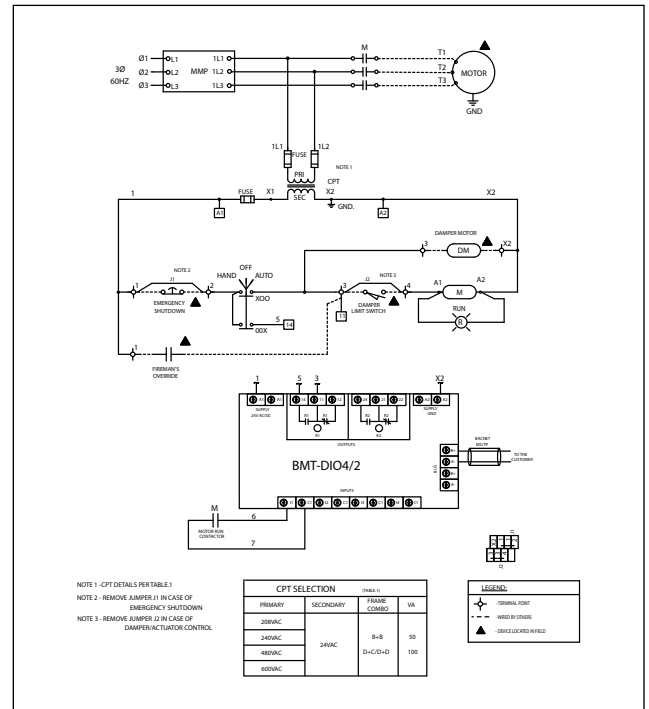**Figure 1. 120 V control power for 208 V, 240 V, and 480 V**
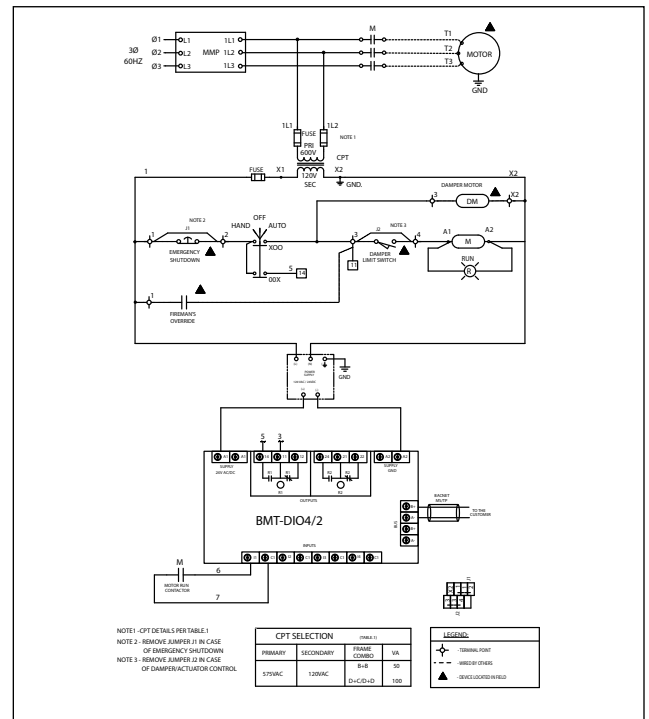

Figure 2. 24 V control power

Figure 3. 120 V control power at 600 V

BACnet communication settings

Read and follow the instructions below, which can also be found in F-I of the Metz Connect BMT-DIO4/2 leaflet provided with each unit.

Output settings

The control of the outputs can be set for both outputs (K1, K2) with the respective toggle switch.

The LEDs indicate the respective switching state of the outputs.

Output active   = LED is lighting

Output inactive = LED is not lighting

Example ①   Setting: Manual mode (position 0)
The output is inactive (LED is not lighting).
Commands of the controller are ignored.

Example ②   Setting: Automatic mode (position A)
The relay receives the commands from the controller.
The LED is lighting depending on the switching state.

Example ③   Setting: Manual mode (position 1)
The output is active (LED is lighting).
Commands of the controller are ignored.
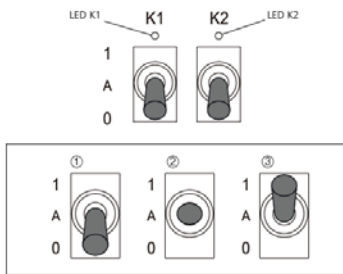
Input settings

Step 1: Disconnect the device from power supply.

Step 2: Remove the front cover of the module.

G1 Jumper ① on pins GND and 2 (factory setting)
When switching contacts are used between an input (1 to 4) and contact C1 or between an input (1 to 4) and A1.

G2 Jumper ① on pins +24 V and 2
When switching contacts are used between an input (1 to 4) and A2.

Step 3: Remount the front cover of the module.
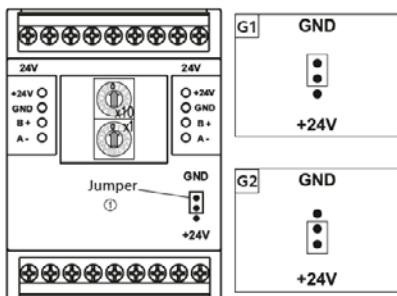
Bit rate settings

Bit rate is set with the rotary switches x10 (❶), x1 (❷).

Factory setting: 9600 Bit/s

The device has to be switched to the programming mode for bit rate setting.

Note: A connection to the bus is not necessary for the programming mode.

The following steps are necessary.

**Step 1:** Switch on the supply voltage of the device.

Bit rate setting

Step 2: H1 Turn switch **x10** (①) to **F**, programming mode "ON" (BUSY and ERROR LEDs (3) flash alternately)

Step 3: H2 Set the desired bit rate with rotary switch **x1** (②) as per the chart below.

x10	F	F	F	F	F	F
x1	A	B	C	D	E	F
Bit/s	9600	19200	38400	57600	76800	115200

Step 4: Wait 1 second after setting; the value is stored.

Step 5: H3 Turn switch **x10** (①) to 0, programming mode "OFF" (device is reinitialized).
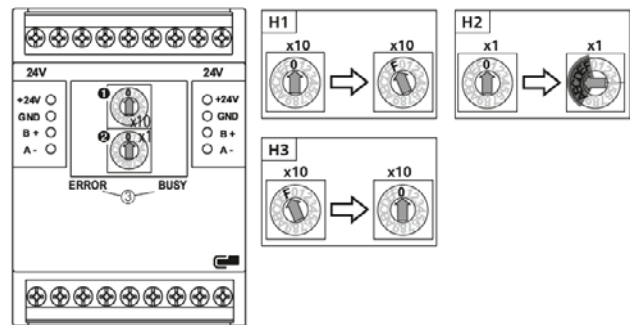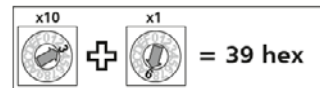
Module address settings

The module address is set with the rotary switches **x10** (❶) and **x1** (❷).

Address range: 00 to F9

Example: **x10** = 3 + **x1** = 9, module address = 39 hex

All other settings = 0 = Broadcast

For more information and product support:
Eaton.com/xtcompact
877-386-2273, option 2 and then option 1
trc@eaton.com

E·A·T·N
Powering Business Worldwide

Eaton is a registered trademark.

All other trademarks are property of their respective owners.