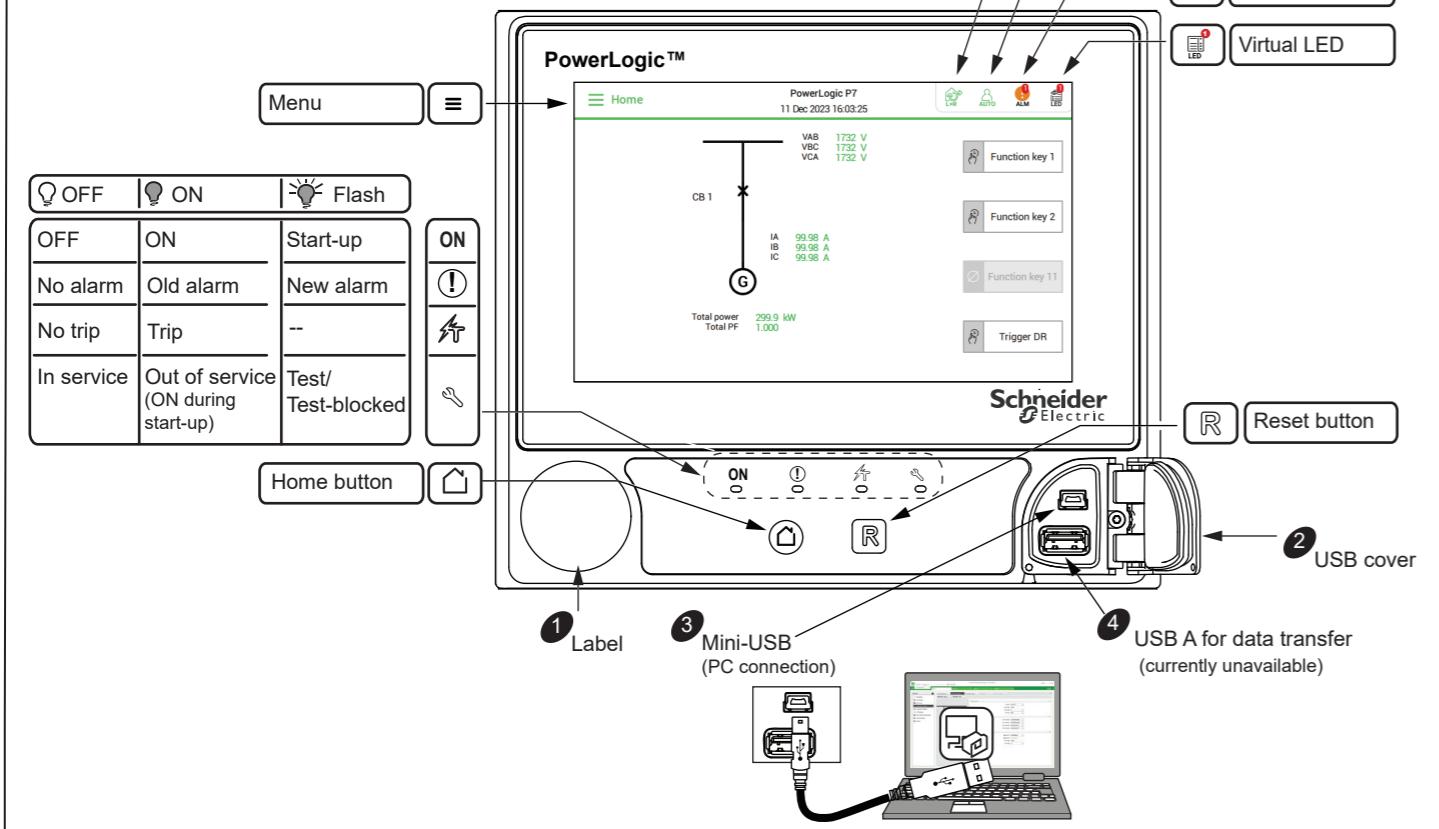


## ⚠ WARNING

### UNINTENDED DEVICE OPERATION

- This device requires advanced knowledge of the application and setting of protection systems.
- Only persons with such knowledge should be allowed to configure and set this device.

Failure to follow these instructions can result in death, serious injury or equipment damage.

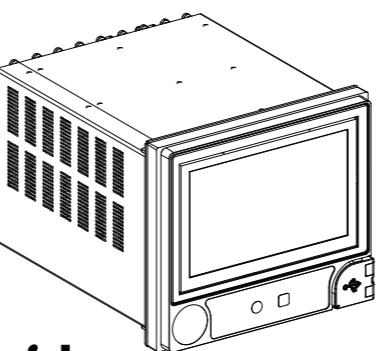


### Default configuration (Y, Z) BI / BO

| BI1 | BI2 | BO1  | BO2   | BO3     | BO7        | BO8         | TCS1        | TCS2         | WD       |
|-----|-----|------|-------|---------|------------|-------------|-------------|--------------|----------|
| 52b | 52a | Trip | Close | CB fail | 2pole trip | 2pole close | Trip CCT OK | Close CCT OK | Watchdog |

## PowerLogic™ P7

### Protection and control device



**Schneider**  
Electric

07/2025

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### NOTICE

#### PRODUCT TAMPERING

Our products leave our factory in closed, sealed original packaging. At delivery, if the packaging is open or the seal is broken, the confidentiality and authenticity of the information contained in the products cannot be ensured.

Failure to follow these instructions can result in compromised confidentiality and authenticity of the information contained in the products.

Instruction sheet  
Retain for future use

Go to [www.se.com](http://www.se.com) to download the PowerLogic™ P7 user manuals and other documents.

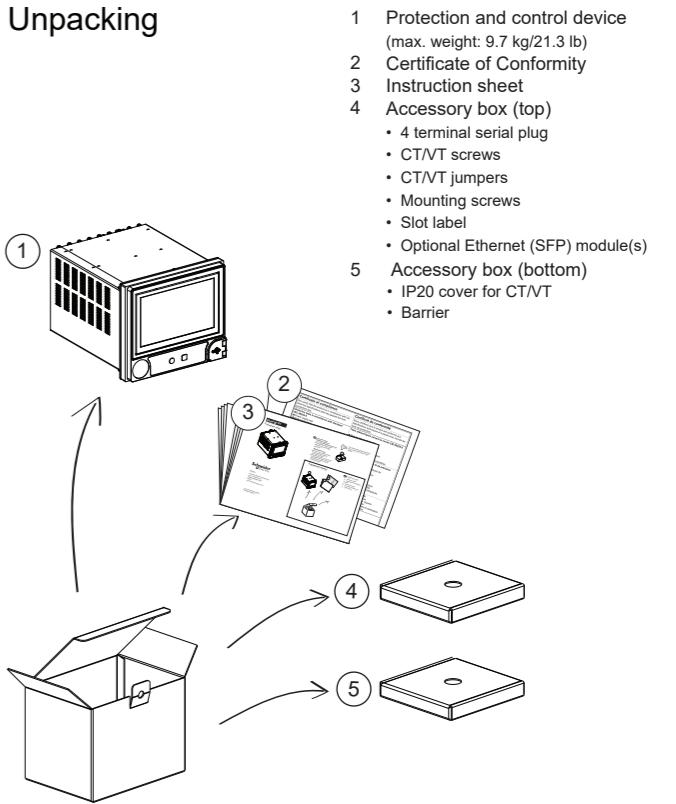
#### IMPORTANT NOTE

Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

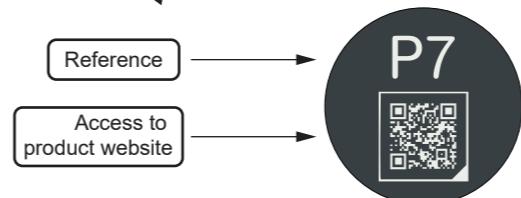
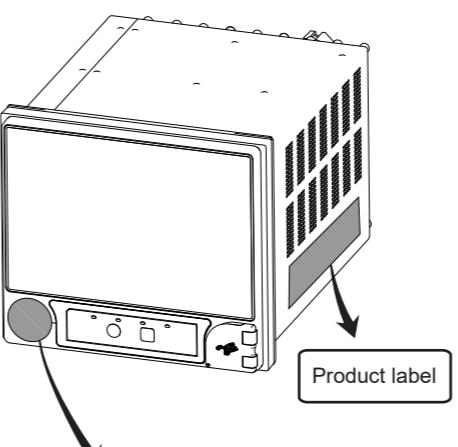
#### NOTE

If the device is not immediately installed after receipt, it should be stored in its original packaging in a dry, dust-free area.

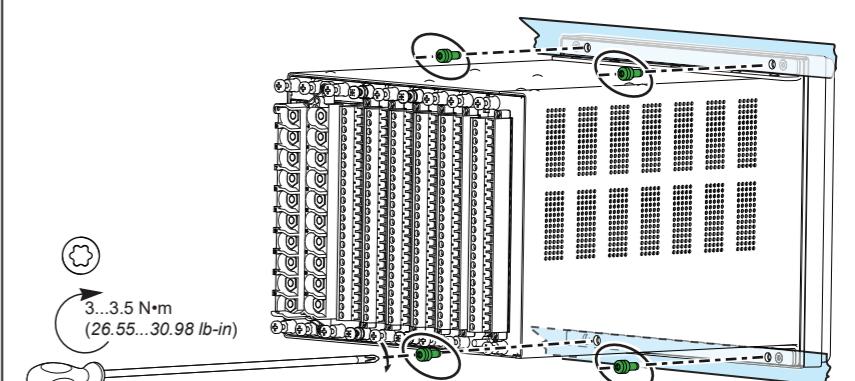
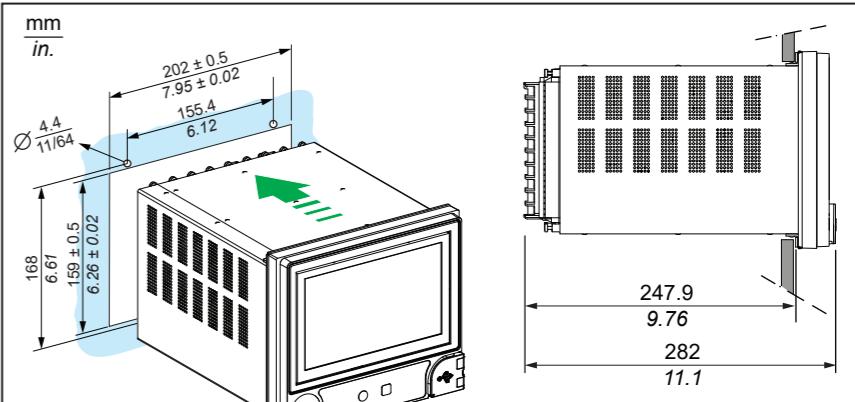
### Unpacking



### Identification



 The QR code provides direct access to the product website, where technical data as well as REACH and RoHS declarations are available.



**Note:** The thickness of the panel plate should be in a range of 2 to 4 mm (0.078...0.157 in.).  
The PowerLogic P7 is designed for use on a flat surface of a Type 1 enclosure, as defined by Underwriters Laboratories Inc. (UL).  
The PowerLogic P7 is designed for use in a pollution degree 2 environment as defined by Underwriters Laboratories Inc. (UL).

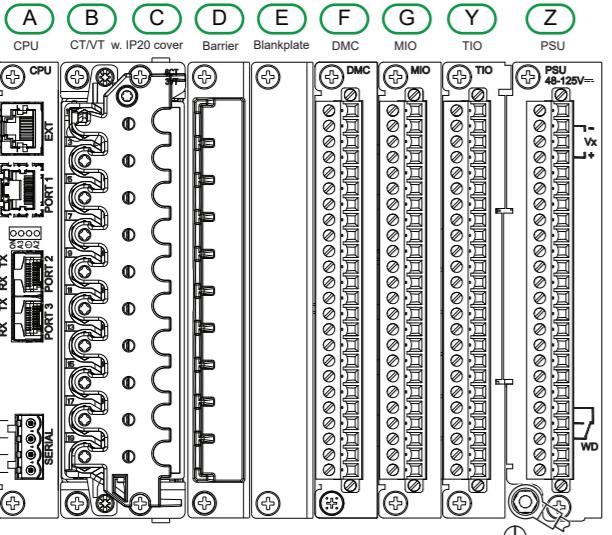
## ⚠ DANGER

### HAZARD OF ELECTRICAL SHOCK, EXPLOSION OR ARC FLASH

- Turn off all power supplying this equipment before working on or inside the equipment.
- Always use an appropriate voltage detection device to confirm that no voltage is present.
- Replace all devices, doors and covers before switching on power to this equipment.

Failure to follow these instructions will result in death or serious injury.

Example with slots B-C for CT/VT module, slots F and G for DMC and MIO modules



NOTE: • Optional boards (slots D to G) depend on the configuration selected.  
• The IP20 cover and barrier are shown fitted, but are separately provided in the accessory box and need to be fitted manually.

## ⚠ DANGER

### HAZARD OF ELECTRICAL SHOCK, EXPLOSION, ARC FLASH AND FIRE

- Connect the device to ground with nut and washer.
- Tighten the terminal screws within the recommended range.
- A maximum of two ring terminals can be used for each terminal on the CT/VT module.
- Protect the power supply circuit against overcurrents.

Failure to follow these instructions will result in death or serious injury.

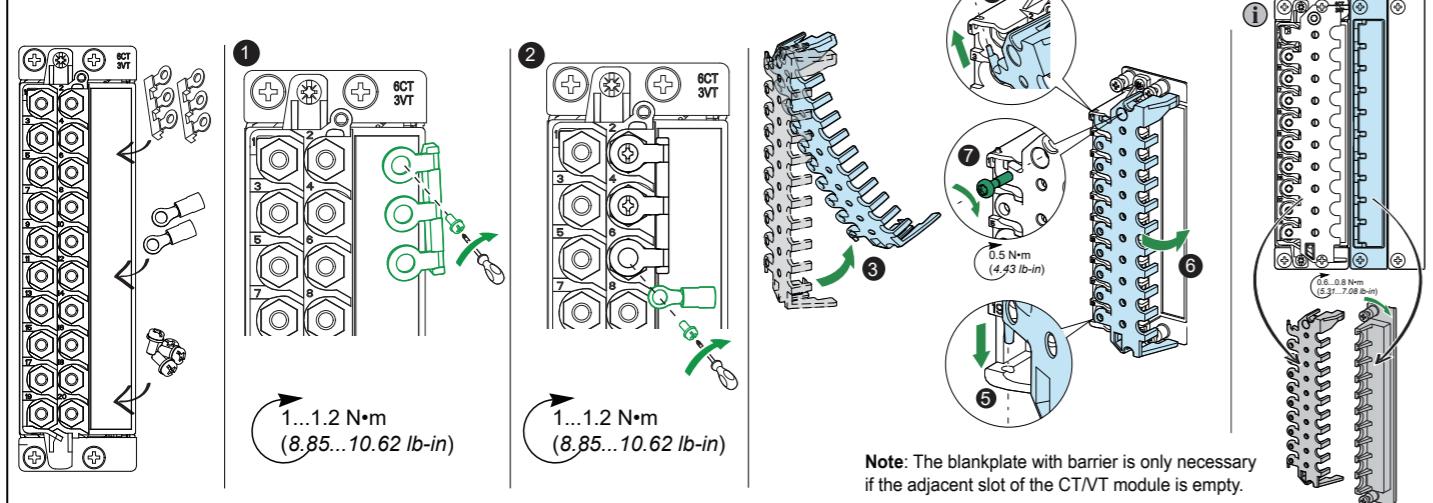
## ⚠ WARNING

### UNINTENDED DEVICE OPERATION

Replace the terminal blocks in the correct locations after removing them for wiring or testing.

Failure to follow these instructions can result in death, serious injury or equipment damage.

### Typical CT/VT terminal block cabling procedure (with IP20 cover and barrier)



### A CPU: Main processor module

- EXT: CAN bus port for connection with additional accessories like IRIG-B/RTD/CLIO module.
- PORT 1: Ethernet port RJ45
- PORT 2/3: Optional SFP modules
  - 100/1000 Mbps RJ45
  - 100 or 1000 Mbps fiber optic multimode
  - 100 or 1000 Mbps fiber optic singlemode
- SERIAL: 2-wire RS485 serial port

### B-C CT/VT analog input module - 2 slots

### D-E/F-G CT/VT analog input module, optional - 2 slots

### D / E / F / G MIO: Mixed I/O module, optional - 1 slot DMC: Motor control board, optional - 1 slot

### Y TIO: PSU auxiliary

### Z PSU: Power supply module with binary outputs

PSU: Low range: 24...34 V DC

Mid range: 48...125 V DC

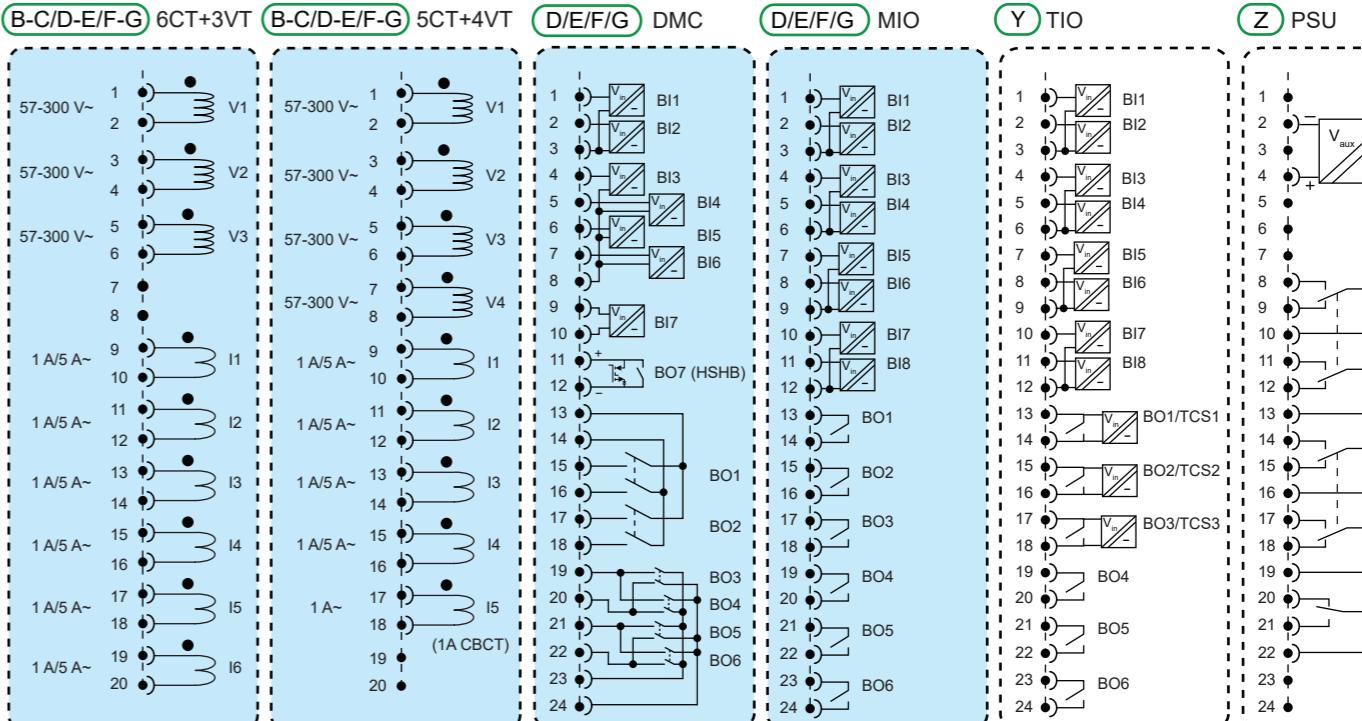
High range: 110...250 V DC/AC 50/60 Hz

CT/VT: 50 Hz or 60 Hz

BI: 24...250 V DC, 220...250 V AC

BO: 8A (UL: 5 A) 250 V AC/DC

WD: 2 A 240 V AC/DC



BI Binary input

BO Binary output

WD Watchdog

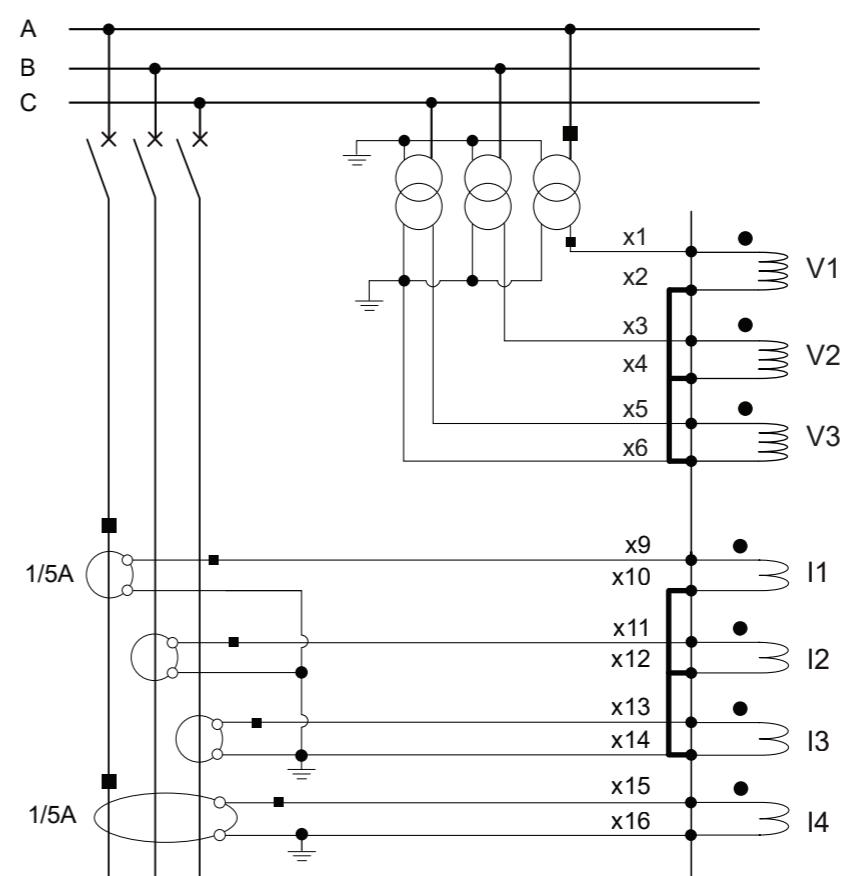
CBCT Core balance current transformer

TCS Trip Circuit Supervision

HSHB High Speed High Break

Terminal

Optional



■ P1 ■ S1

○ Current transformer (CT)

○ Voltage transformer (VT)

- Wiring diagrams represent the protection and control device not energized.

- Typical connections for basic applications are shown. Refer to the PowerLogic™ P7 User Manual for other connections.

- The terminal reference x refers to the first slot used by the first analog module which occupies 2 slots.  
For example, if the first analog module is fitted in slots B & C then x1 becomes B1.

- The mapping shown is typical but needs to be configured by the PowerLogic™ Engineering Suite before using the product.