

## Customer Requirements Meter Socket Configurations

**C-MR-0005**

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### Application

Meter socket configurations for services available with Tacoma Power.  
For enclosed meter pedestals, see Standard C-MR-0020 "Customer Requirements, Enclosed Meter Pedestal".

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### General Requirements

#### Meter sockets must be:

- Rated for their intended use
- Installed level, plumb, and rigidly secured to the supporting surface
- Covered when socket is energized
- Readily accessible
- Have level workspace, measuring no less than 3 feet by 3 feet, maintained in front of the meter location at all times
- For multiple occupancy buildings:
  - All meters shall be accurately marked to identify the units they serve
  - Labels must be of sufficient durability to withstand removal from rubbing, fading, or environmental exposure
  - Label characters must be a minimum 1/2 in. tall and of a contrasting color or shade from the surface to which they are affixed so that they are easily readable

#### Meter sockets must not be:

- Of the ringless type
- Placed on a pole owned and maintained by Tacoma Power
- Concealed by materials, structures, or vegetation
- Installed below 36 in. from the front working surface or grade to the mid-point of the socket for commercial multi-metering installed in a vertical configuration
- Installed below 28 in. from the front working surface or grade to the mid-point of the socket for residential multi-metering installed in a vertical configuration

The Chief Electrical Inspector may grant special permission.

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### Meter Sockets

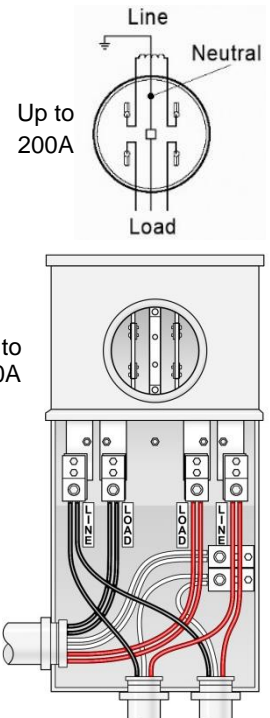
Meter sockets are available in five configurations. The services used with each configuration are shown in Figures 1 through 5 on the following pages. Other applicable reference drawings can be found in Electric Utility Service Equipment Requirements Committee (EUSERC) drawings. Contact the **Meter Shop** if you need further assistance.

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**Figure 1** Self-contained 120/240V and 240/480V 1-Phase, 3-Wire System <sup>[1]</sup>

4 JAW SOCKET	SERVICE TYPE	SERVICE VOLTAGE	SERVICE SIZE	METER HEIGHT TO CENTER OF METER	MANUAL METER BYPASS	SAFETY SOCKET
	TEMPORARY POWER	120/240V	60A – 320A	5' – 6'	OPTIONAL	OPTIONAL
	SINGLE FAMILY GARAGE SHOP		200A		REQUIRED	
	DUPLEX		200A		OPTIONAL	
	SEPTIC SYSTEM		30A – 125A		REQUIRED	
	TRAFFIC CONTROL SYSTEM		125/320A			
	STREET LIGHTS					
	SMALL COMMERCIAL		240/480V		125/200A	
	SMALL INDUSTRIAL					
	PEDESTAL <sup>[2]</sup>					
	DOT ONLY PEDESTAL				REQUIRED	
	DOT ONLY STREET LIGHTS				5' – 6'	

<sup>[1]</sup> If 5-jaw socket used for this system, the 5<sup>th</sup> jaw shall be removed.

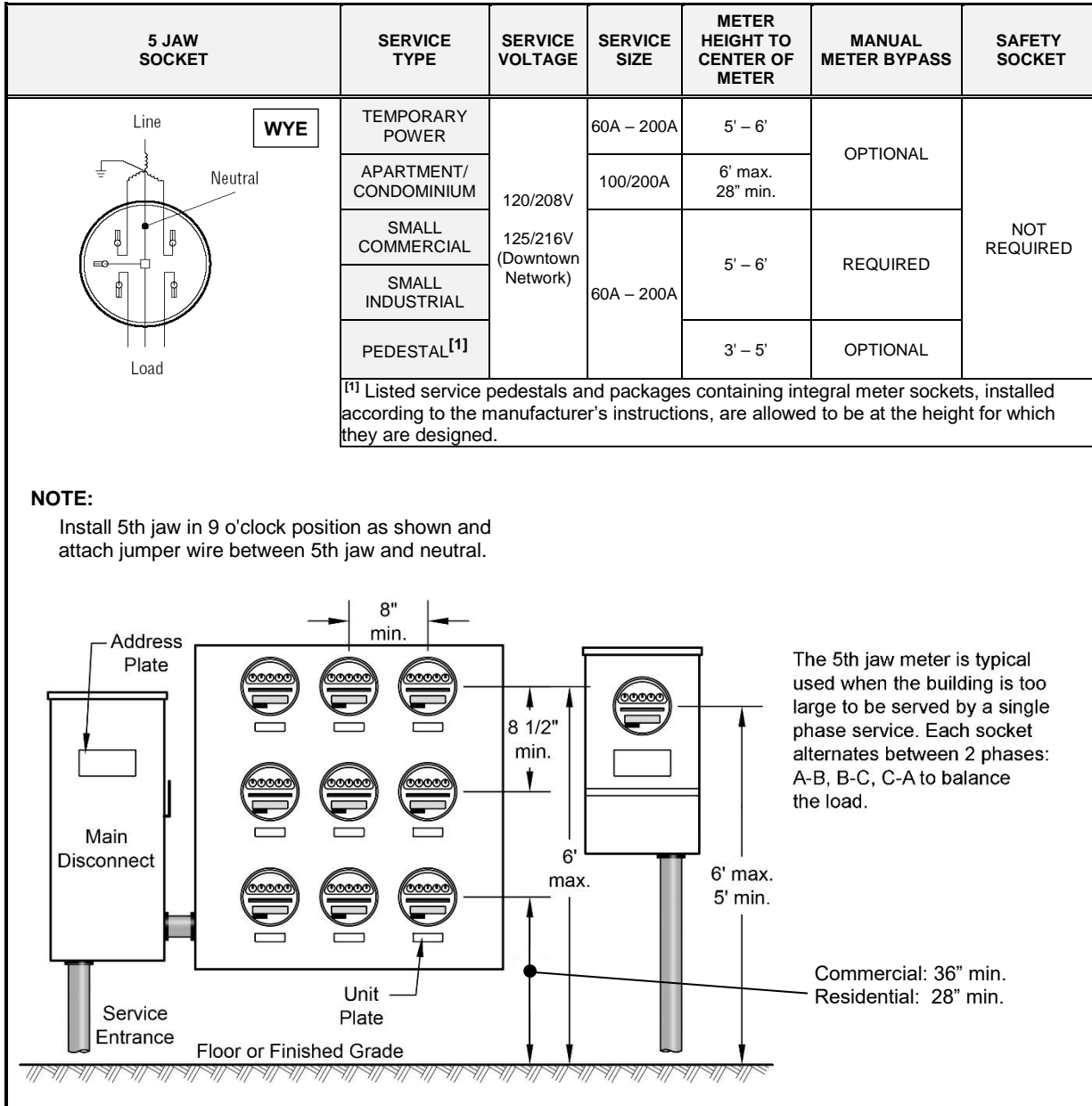
<sup>[2]</sup> Listed service pedestals and packages containing integral meter sockets, installed according to the manufacturer's instructions, are allowed to be at the height for which they are designed.

- Reference**
- EUSERC meter sockets up to 200A: drawings: 300, 301 and 302
  - EUSERC bridge nut or bypass area: drawings: 302B, 311, 312, and 339

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**Figure 2** Self-contained 5-Jaw Socket 120/208V 2-Phase and Neutral 3-Wire WYE System



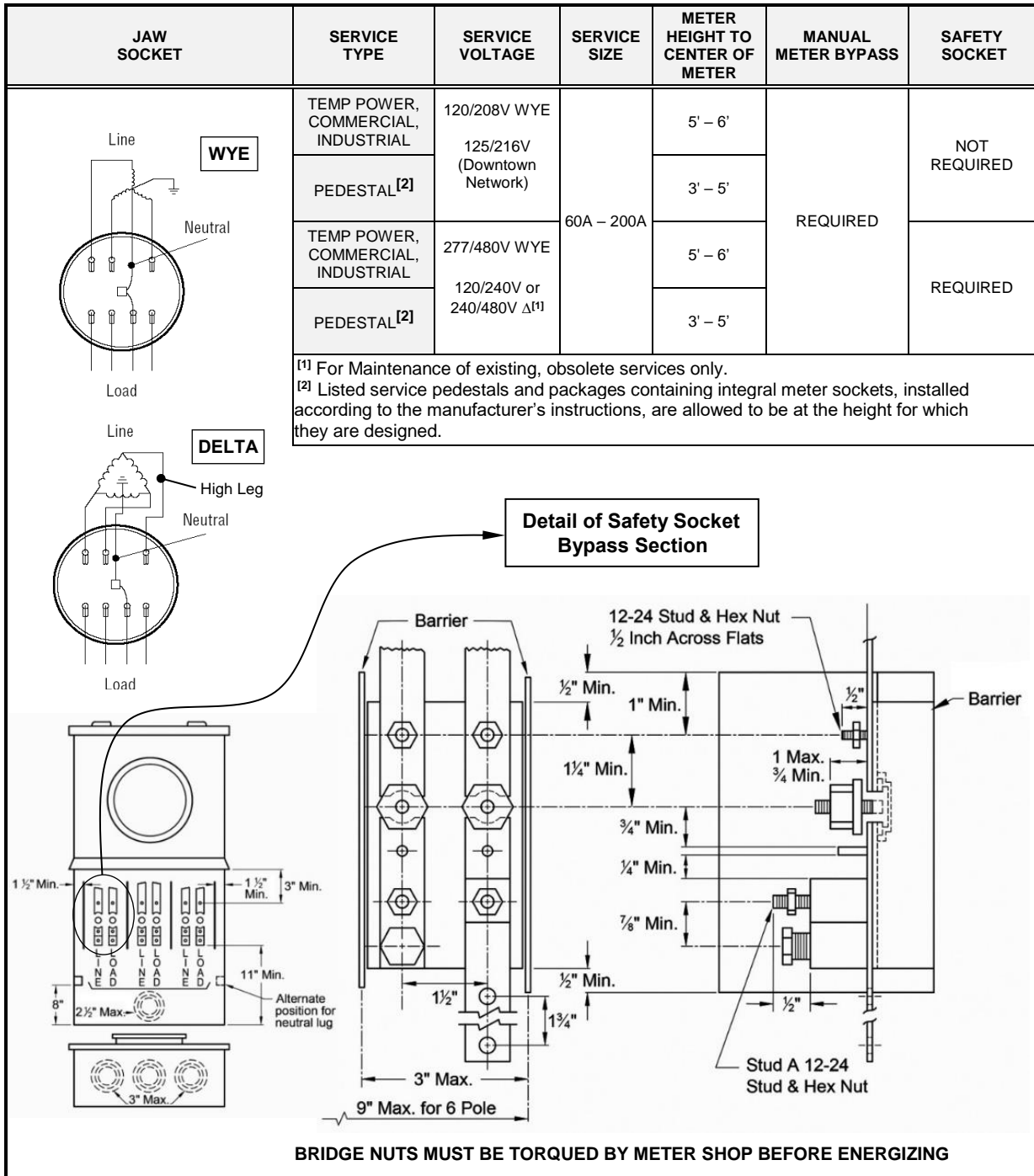
<sup>[1]</sup> Listed service pedestals and packages containing integral meter sockets, installed according to the manufacturer's instructions, are allowed to be at the height for which they are designed.

**Reference** EUSERC multi meter panel drawings: 300 II (H, I and M), 301, 342, 347, and 353

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**Figure 3** Self-contained, 7-Jaw Socket 120/208V, 277/480V 3-Phase 4-Wire WYE Systems and 120/240V, 240/480V 3-Phase 4-Wire DELTA System with Safety or Bypass Socket

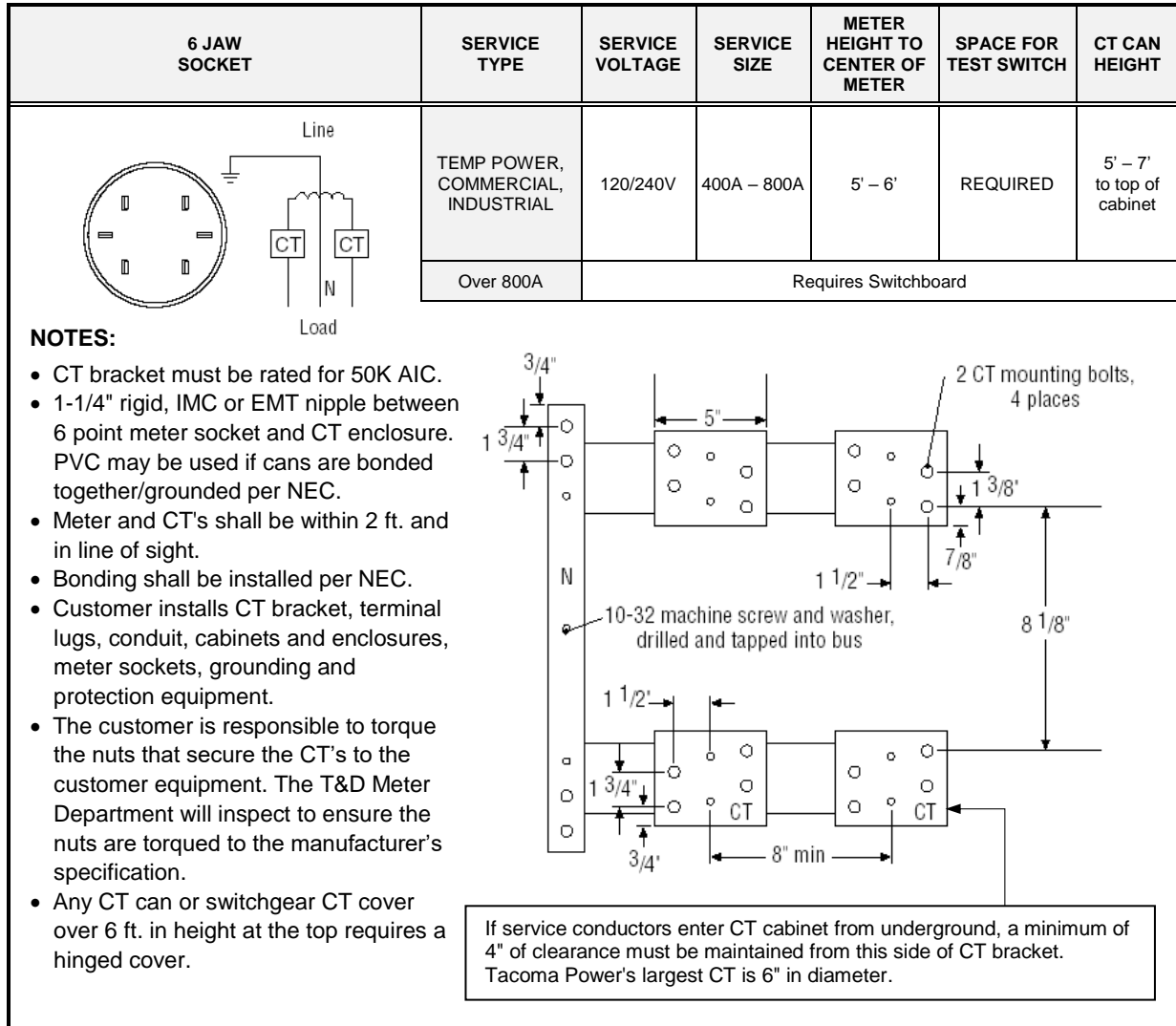


- Reference**
- EUSERC bypass area drawings: 300 II (I), 306
  - EUSERC safety socket drawings: 200F, 305, 305A, 311, 312

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**Figure 4** 6-Jaw Socket for 120/240V 1-Phase, 3-Wire Bar-Type System with CT (Current Transformer) Enclosure

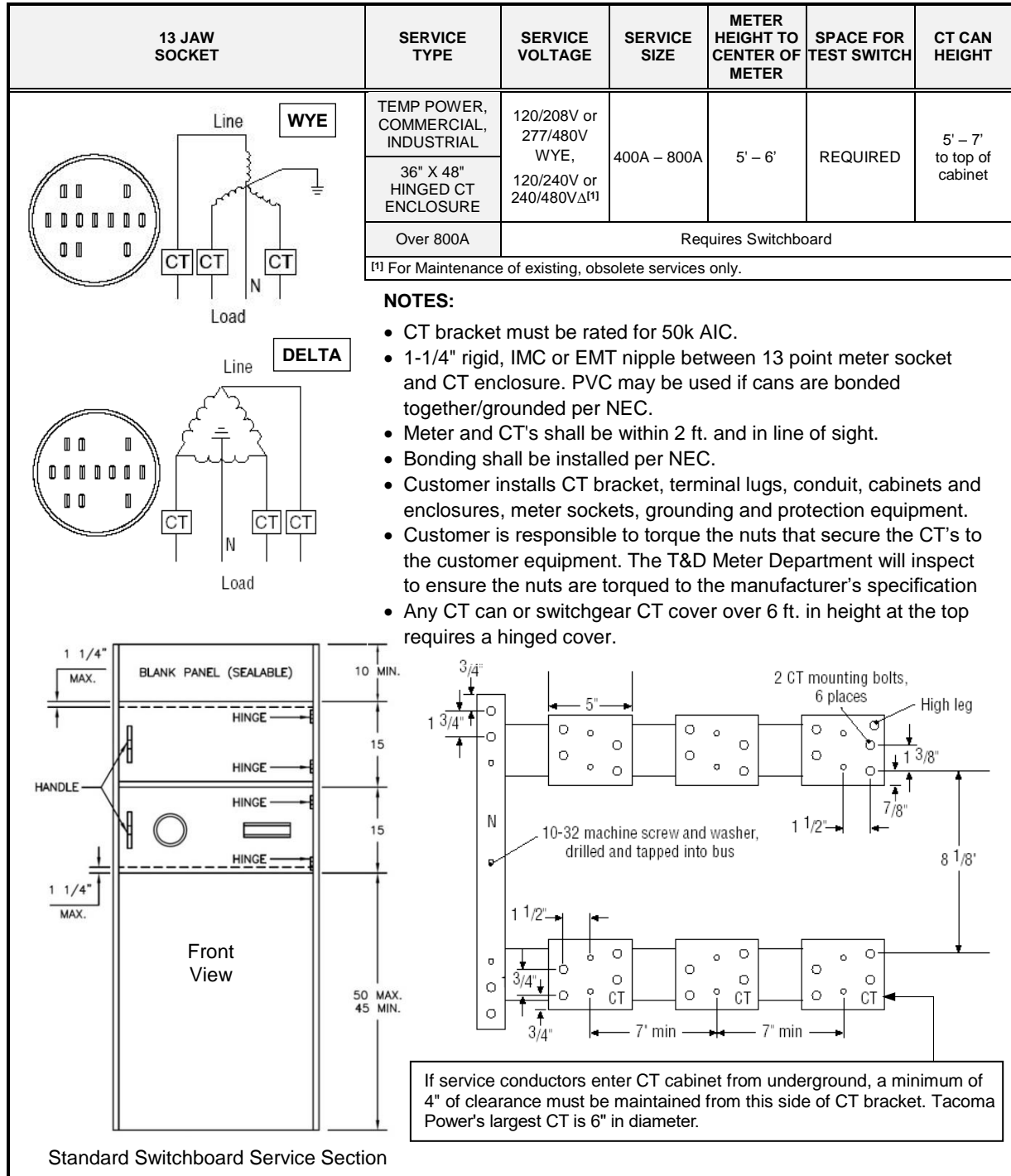


- Reference**
- EUSERC CT bus drawings: 328A and 328B
  - EUSERC CT enclosure drawings: 315 – 319, 325, 326, and 354

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**Figure 5** 13-Jaw Socket for 3-phase 120/208V, 277/480V 4-wire WYE and 120/240V or 240/480V 4-wire DELTA System with CT (Current Transformer) Enclosure



- Reference**
- EUSERC drawings: 313, 314, 316, 318, 329A, 329B, 330, 339
  - EUSERC CT enclosure drawings: 315 – 319, 325, 326, and 354
  - EUSERC switchboard drawings: 315, 320, 321