

Customer Requirements Meter Socket Configurations

C-MR-0005

Application

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

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 26 in. from the front working surface or grade to the mid-point of the socket for residential multi-metering installed in a vertical configuration

Disconnect

Single family dwelling emergency disconnects shall be installed on the load side of the meter enclosure.

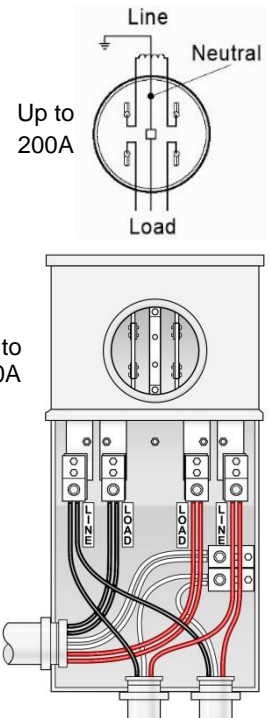
Meter Sockets

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 ^[1]

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				3' – 5'		OPTIONAL	
	SMALL COMMERCIAL		240/480V				125/200A	5' – 6'
	SMALL INDUSTRIAL							
	PEDESTAL ^[2]		REQUIRED					
	DOT ONLY PEDESTAL				REQUIRED			
	DOT ONLY STREET LIGHTS	REQUIRED						

^[1] If 5-jaw socket used for this system, the 5th jaw shall be removed.

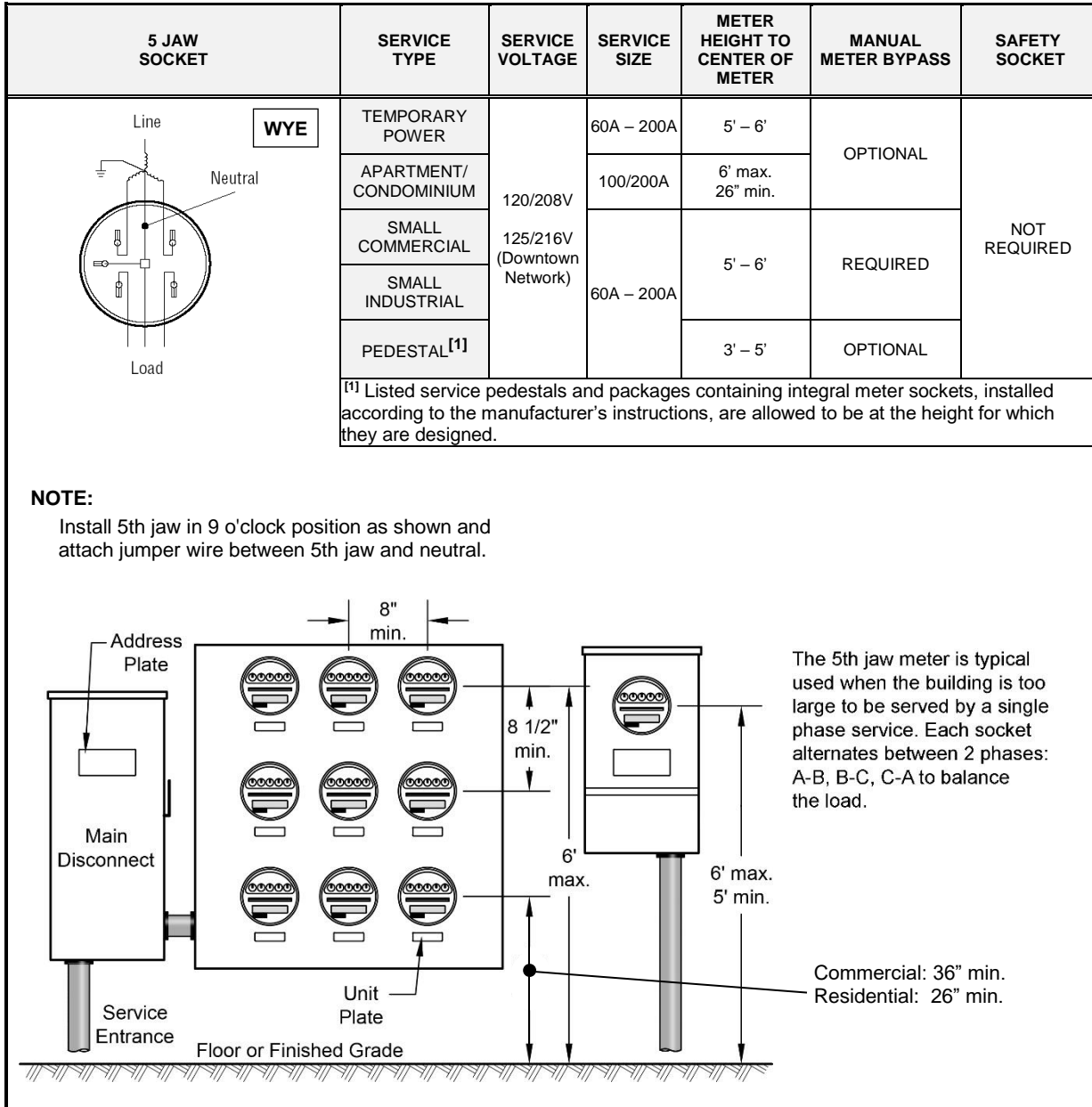
^[2] Listed service pedestals and packages containing integral meter sockets, installed according to the manufacturer's instructions, are allowed to be at the height for which they are designed.

- 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



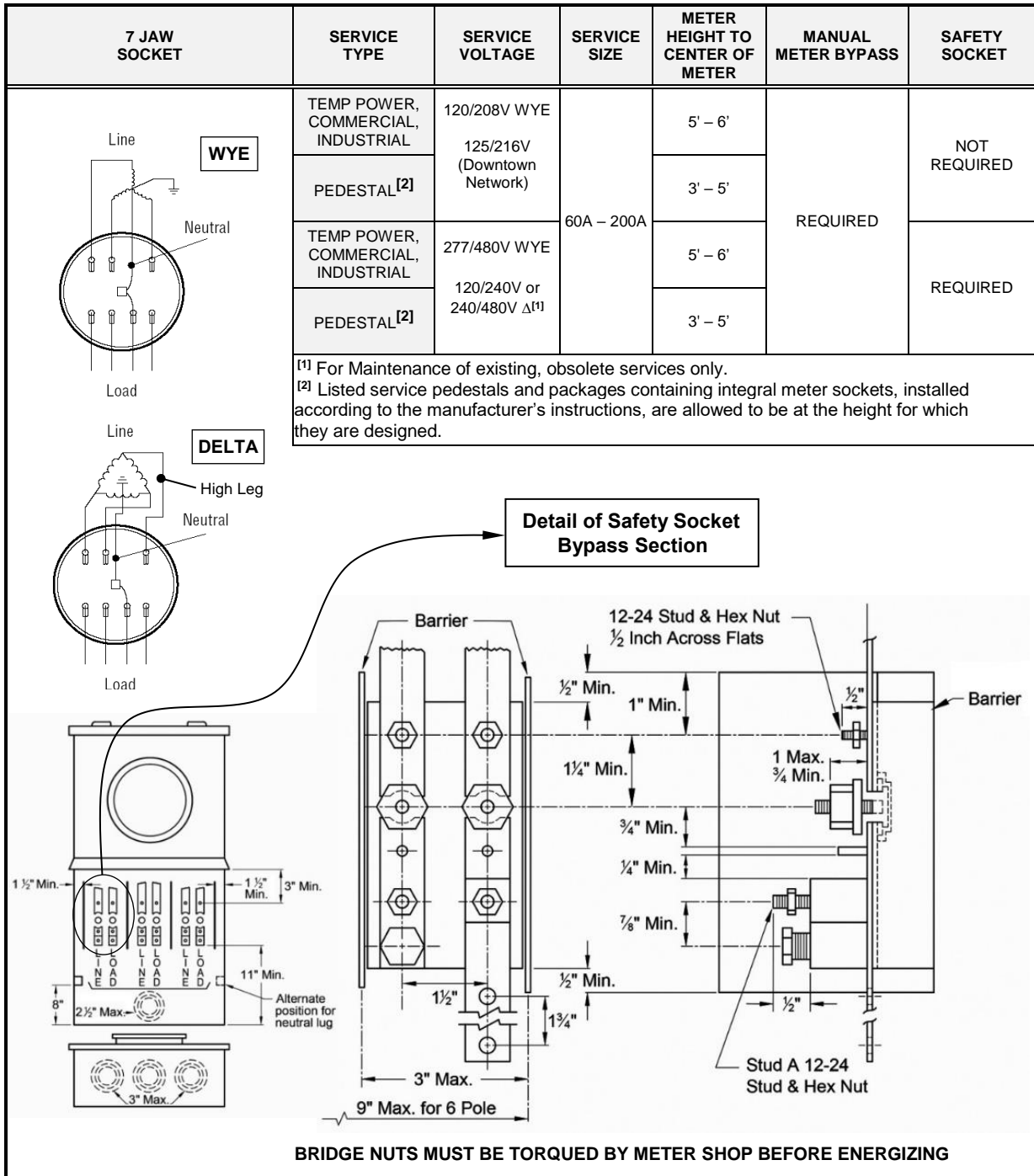
^[1] Listed service pedestals and packages containing integral meter sockets, installed according to the manufacturer's instructions, are allowed to be at the height for which they are designed.

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

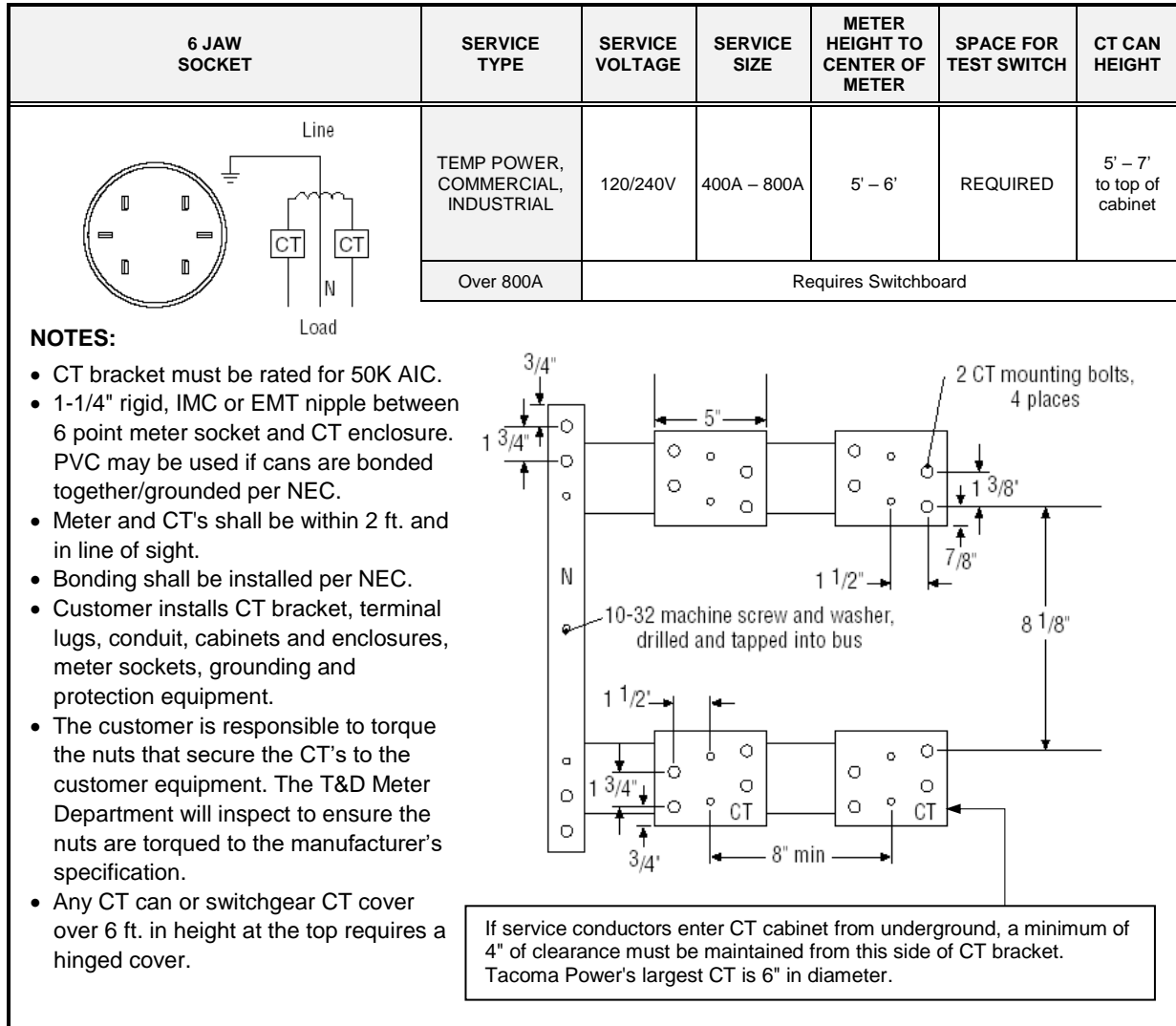


- Reference**
- EUSERC bypass area drawings: 300 II (I), 306
 - EUSERC safety socket drawings: 200F, 305, 305A, 311, 312

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

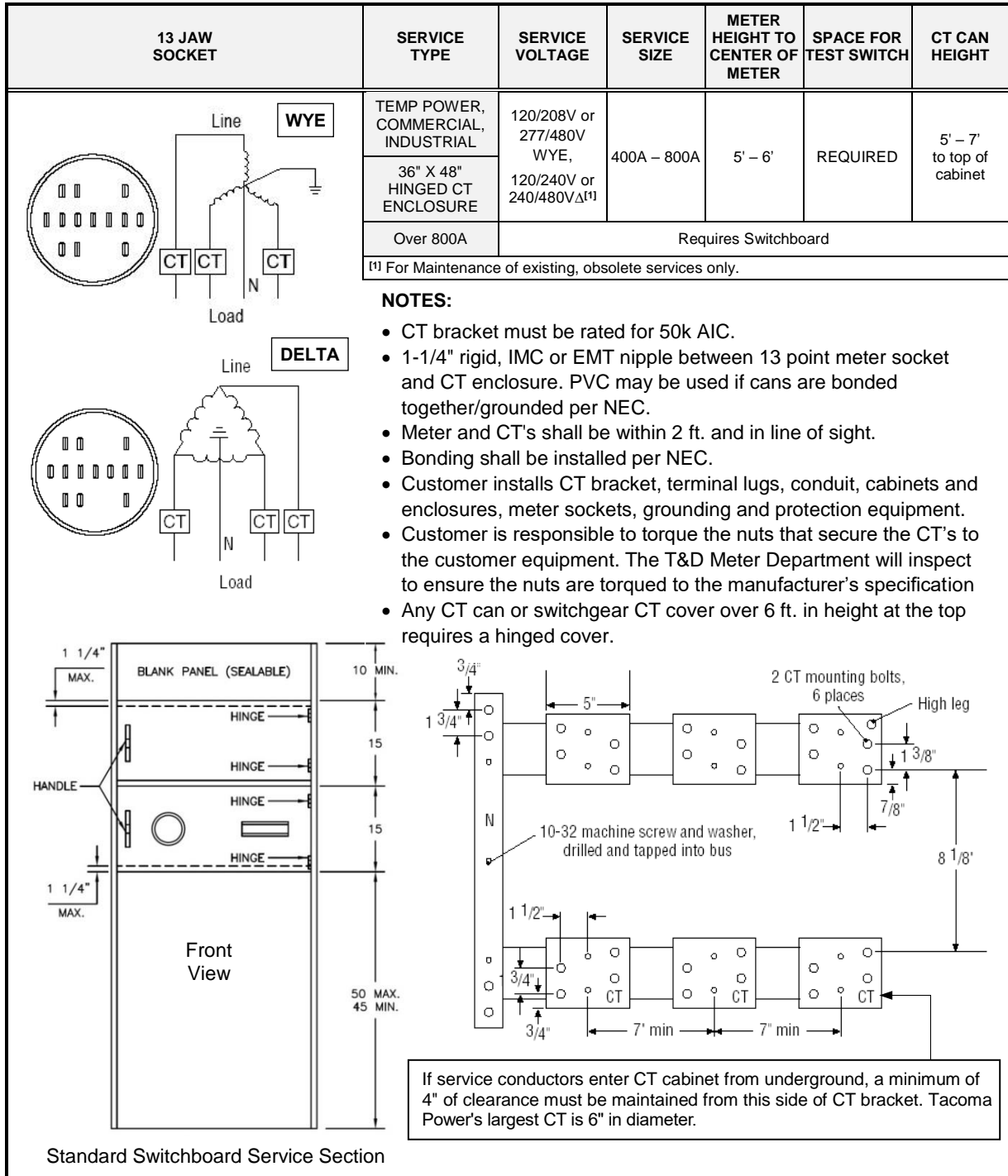


- Reference**
- EUSERC CT bus drawings: 328A and 328B
 - EUSERC CT enclosure drawings: 315 – 319, 325, 326, and 354

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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