

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

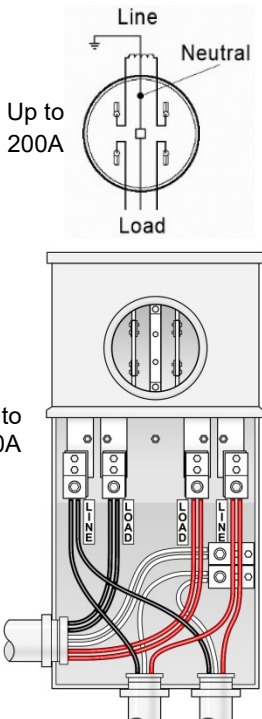
Meter sockets must be:

- rated NEMA 3R for outdoor use.
- installed level, plumb, and rigidly secured to the supporting surface.
- covered when socket is energized.

Meter Sockets

Meter sockets are available in five configurations. The services used with each configuration are shown in Figures 1 through 5. Other applicable reference drawings can be found in EUSERC (Electric Utility Service Equipment Requirements Committee) Section 200 F1, F3, and F5.

Figure 1 Self-contained 120/240V and 240/480V 1-Phase, 3-Wire System

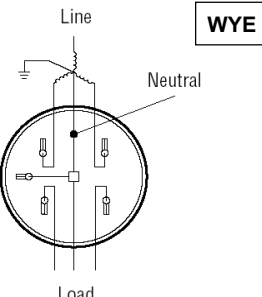
4 JAW SOCKET	SERVICE TYPE	SERVICE VOLTAGE	SERVICE SIZE	METER HEIGHT TO CENTER OF METER	MANUAL METER BYPASS	SAFETY SOCKET	
	TEMPORARY POWER	120/240V	60A – 320A	5' – 6'	NOT REQUIRED	NOT REQUIRED	
	SINGLE FAMILY GARAGE SHOP		200A		OPTIONAL		
	DUPLEX		200A		REQUIRED		
	SEPTIC SYSTEM	30A – 125A	OPTIONAL				
	TRAFFIC CONTROL SYSTEM	240/480V	125/200A		REQUIRED		REQUIRED
	STREET LIGHTS						
	DOT ONLY STREET LIGHTS	120/240V	125/200A	3' – 5'	NOT REQUIRED	NOT REQUIRED	
	SMALL COMMERCIAL						
	SMALL INDUSTRIAL						
	PEDESTAL	240/480V	125/200A	3' – 5'	NOT REQUIRED	REQUIRED	
	DOT ONLY PEDESTAL				REQUIRED		

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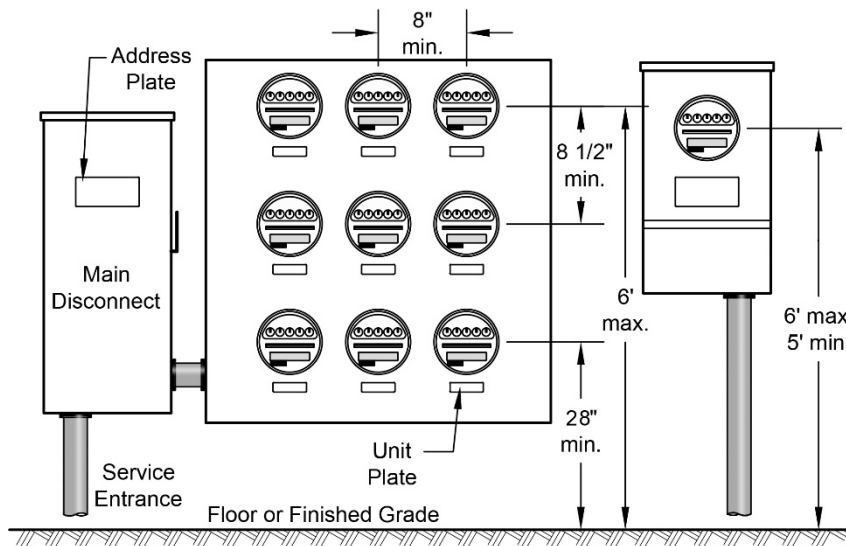
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Figure 2 Self-contained 5-Jaw Socket 120/208V 2-Phase and Neutral 3-Wire WYE System

5 JAW SOCKET	SERVICE TYPE	SERVICE VOLTAGE	SERVICE SIZE	METER HEIGHT TO CENTER OF METER	MANUAL METER BYPASS	SAFETY SOCKET
	TEMPORARY POWER	120/208V	60A – 200A	5' – 6'	NOT REQUIRED	NOT REQUIRED
	APARTMENT/ CONDOMINIUM		100/200A	6' max. 28" min.		
	SMALL COMMERCIAL	125/216V (Downtown Network)	60A – 200A	5' – 6'	REQUIRED	
	SMALL INDUSTRIAL					
	PEDESTAL			3' – 5'	NOT REQUIRED	

NOTE:

Install 5th jaw in 9 o'clock position as shown and attach jumper wire between 5th jaw and neutral.



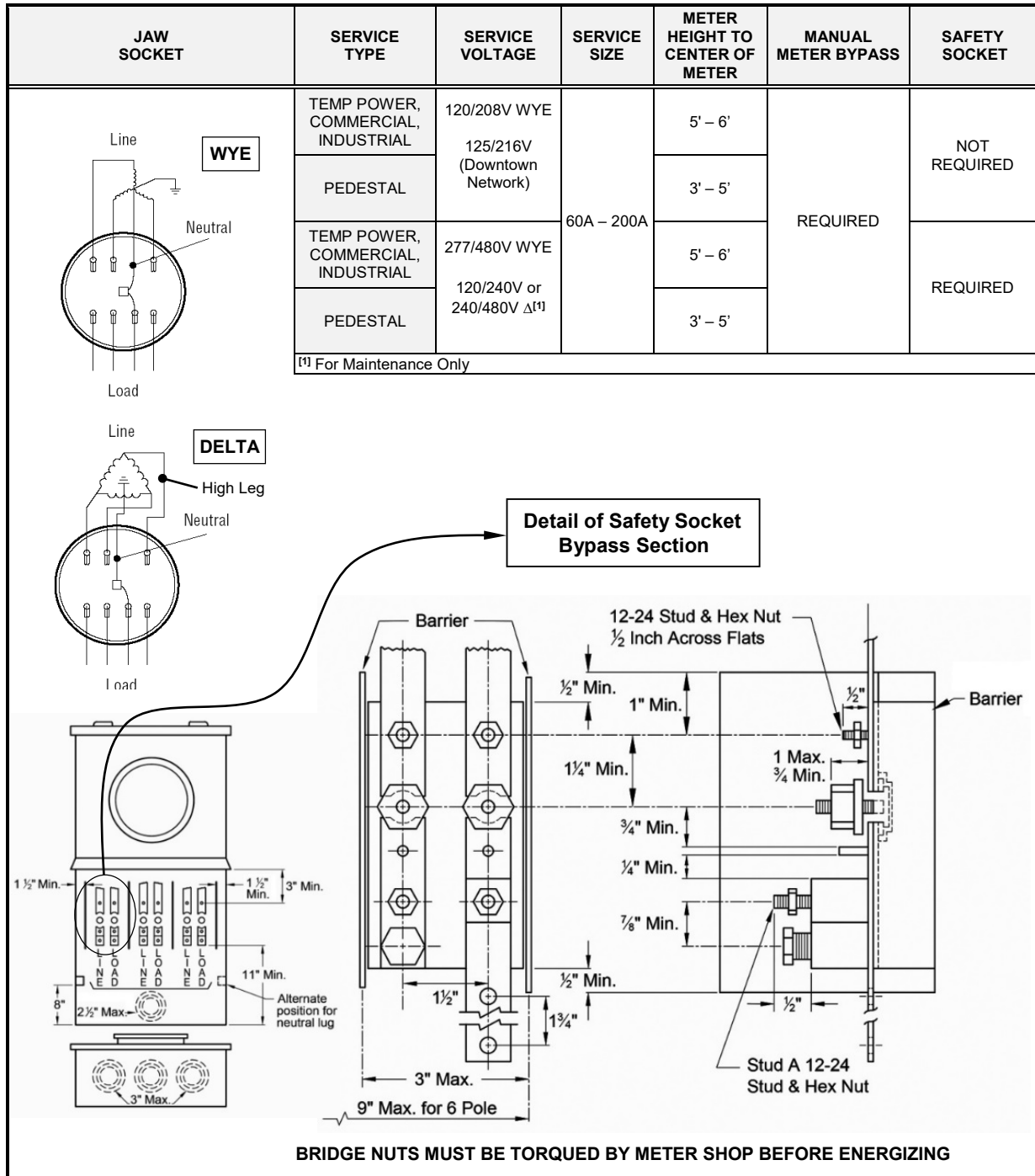
The 5th jaw meter is typical used when the building is too large to be served by a single phase service. Each socket alternates between 2 phases: A-B, B-C, C-A to balance the load.

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

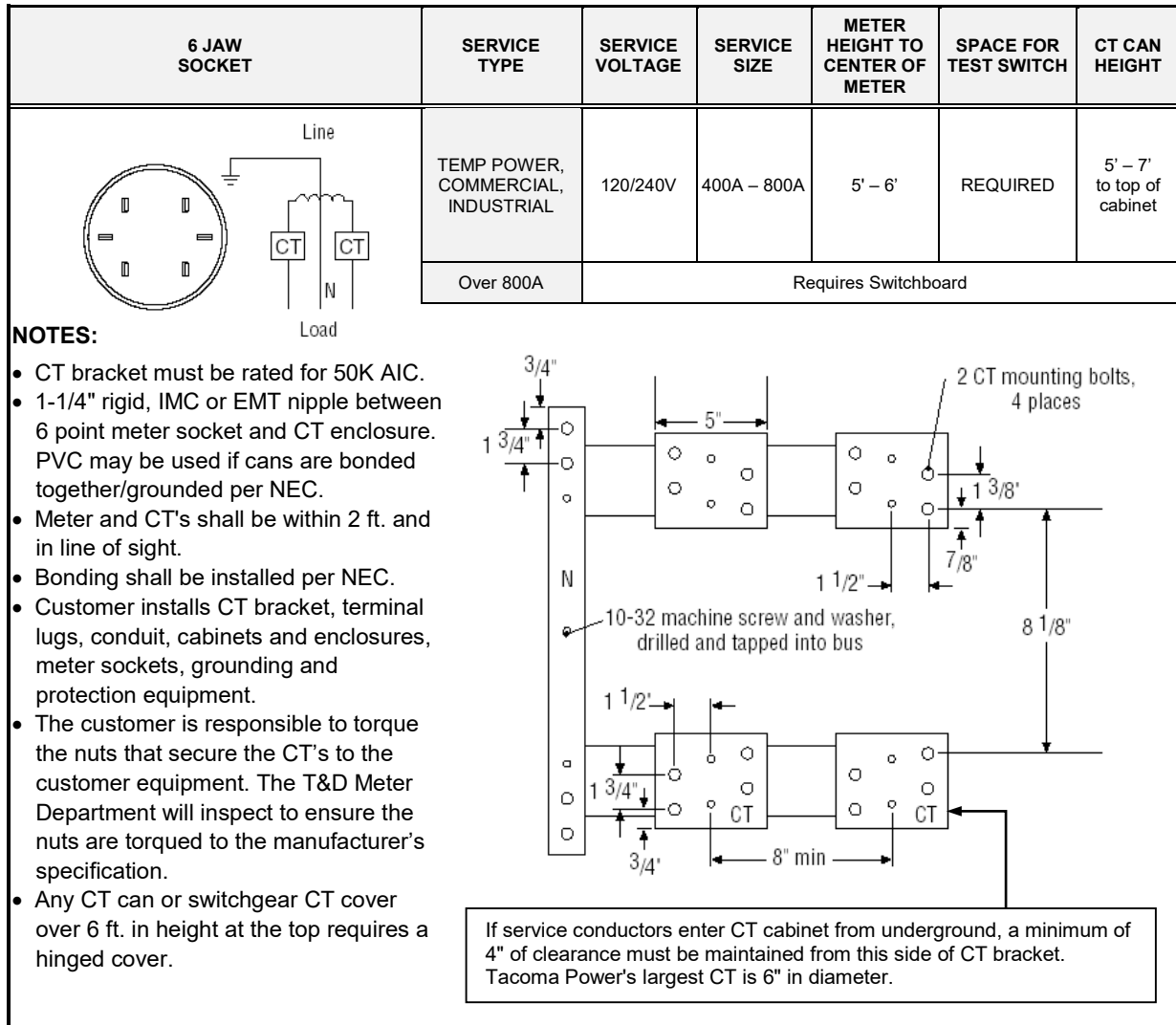


- Reference**
- EUSERC bypass area drawings: 300 II (I), 306
 - EUSERC safety socket drawings: 200F, 305, 305A, 311, 312

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



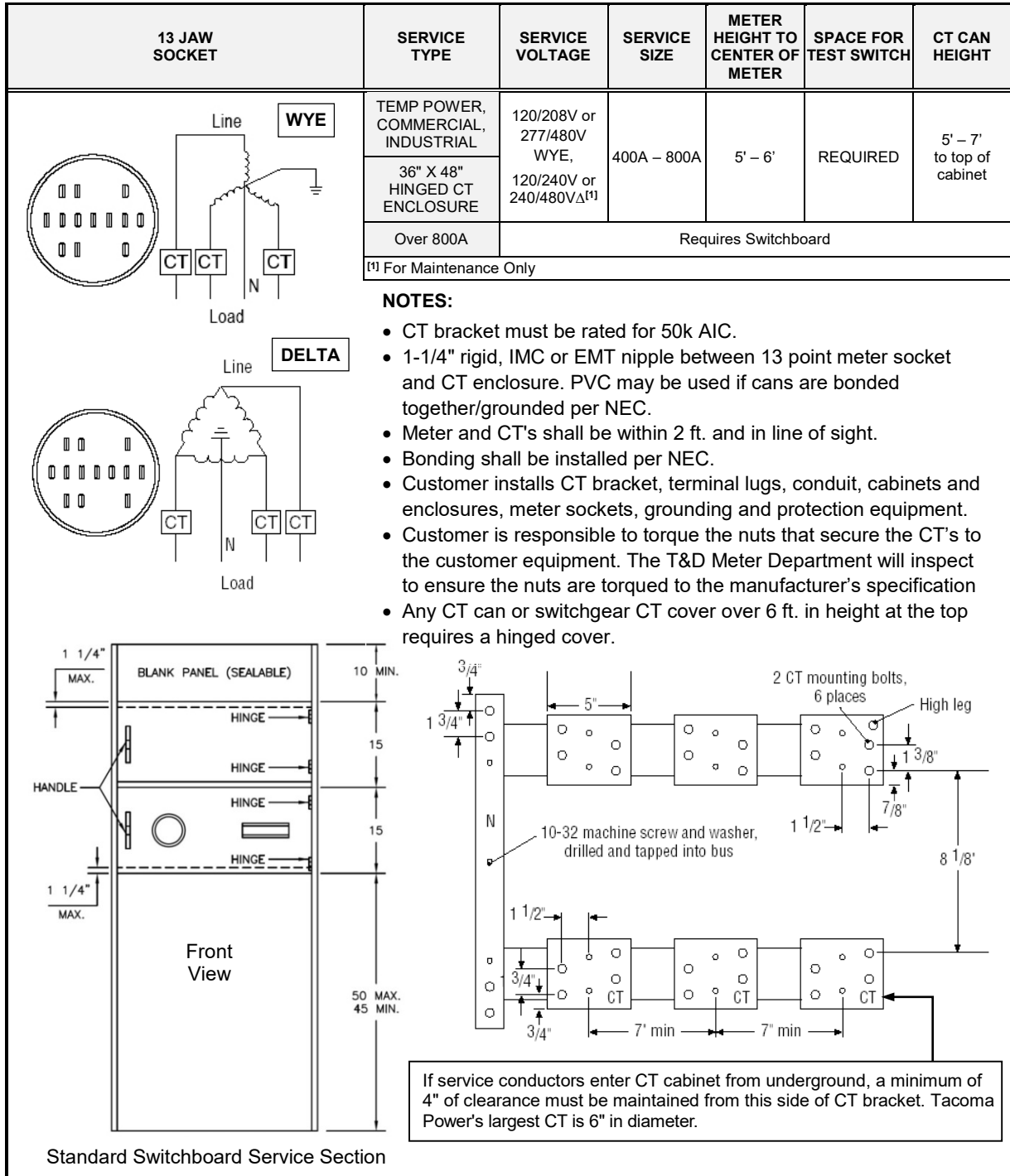
Reference

- 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