

Electric Service and Digital Meter Installation Requirements 2024



REVISIONS FROM PREVIOUS YEAR.

PAGE 7, NOTE 5;

• "All ground wire should be external and not within CT chase"

PAGE 14, EE014

Added Schedule 80 PVC (similar to page 15 in the book)

PAGE 16, EE004

• Added Schedule 80 PVC (similar to page 15 in the book)

PAGE 17, EE011

• On note 2, deleted the "+-" before 4"

PAGE 33, M7A

- Added "minimum of 6'-8' of conductor out of weatherhead"
- Added "to lockable main disconnect"
- Added Note 4 "all ground wire is required to be external and not within CT chase"

PAGE 34, M7B

- Added "to lockable main disconnect"
- Added Note 4 "all ground wire is required to be external and not within CT chase"

PAGE 37, M12

- Added "Minimum of 6'-8' of conductor out of weatherhead
- Added note 4. "All ground wire is required to be external"
- Added "customers main disconnect to be lockable and permanently marked in approximate location as shown"

PAGE 38, M13

- Added "Minimum of 6'-8' of conductor out of weatherhead
- Added note 4. "All ground wire should be external and not in conduit
- Added "customers main disconnect to be lockable and permanently marked in approximate location as shown"

PAGE 39, S2

• Added the word "only" to note 5

PAGE 40, S5

Added the word "only" to note 7

For Your Information

Please send revision suggestions to:

OUC-The *Reliable* One P. O. Box 3193 Orlando, FL 32802

Attn: MTRS

Email: ElectricMeterShop@ouc.com

Send all plans and drawings to:

OUC-The *Reliable* One P. O. Box 3193 Orlando, FL 32802 Attn: Development Services

Table of Contents

ntroduction nitial Contacts and Communication nitial Contact Telephone Directory Meter Base Requirements Service Entrance Specifications for CT Services Multi-Tenant Electric Meter Installations	2 4 5 7
Electric Distribution Construction Standards	
Temporary Temporary Underground Residential Service (T.U.G.) 19 Temporary Construction Service from Pad XFMR, Junction Box	1
Residential Typical Overhead Service 400 Amps or Less	4 5 6
Pad-Mount Transformer Installations Underground Requirements Single-Phase Installation 1 Requirements Three-Phase and Single-Phase XFMR Installations	9

Electric Service and Meter Installation Requirements

Electric Metering Standards	
Index for OUC Digital Meter Installations	22
Installations 200A or Less	
Typical Overhead Residential 120/240V	
Single-Phase 200 Amps or Less	23
Typical Commercial 120/240V Single-Phase 200 Amps	24
Typical Underground Residential 120/240V	
Single-Phase 200 Amps or Less	25
Typical Overhead Residential Network	
120/208V 200 Amps	
Typical Commercial Network 120/208V 200 Amps	
Typical 3 Phase Wye or Delta 4 Wire 200 Amps	28
3 Wire Socket for 400 Amp Maximum Service	
MEG Shortlist of Approved 320 Amp Bases	
Residential Single-Phase Larger Than 400 Amp	
Single-Phase CT Wiring Diagram	32
Commercial Installations over 200 Amps	
Overhead Service Entrance w/CT Cabinet	
Underground Service Entrance w/CT Cabinet	
Multiple Position (Ganged) Meter Center Requirements	
OUC Meter Base Configuration Requirement	36
Special Requirement 200 Amp or Less – 480 Volt Services	
Single-Phase 240/480V	
Three-Phase 480V	38
Miscellaneous Meter Installations	
Concrete Meter Post 6" x 6" x 8"	
Meter Post Rack Installation	
Pulse/Phone Meter Application	41



Introduction

This handbook is provided by OUC-The *Reliable* One as a guide for use by customers, electrical contractors, engineers, architects and local inspecting authorities. The specifications and procedures in this handbook are subject to change without notice. Therefore, communication between the user and OUC is essential in all circumstances. Page 4 provides the user with contacts within OUC.

If items in this handbook fall short of the most recent National Electrical Code (NEC) or local inspecting authority standards, the NEC and/or local standards will prevail. However, OUC reserves the right to exceed the NEC and local authority standards on installations that it serves.

Under no circumstances is compliance with the information contained within this handbook to relieve the user of his/her responsibility for compliance with all applicable codes or safety standards.

Electric service will not be energized until:

- 1. Specifications and requirements are met.
- A contract for electric service has been made. (Call OUC Customer Service at 407.423.9018)
- 3. The electric service has passed local authority inspection and OUC has been notified by customer/contractor.

If OUC turns down the service (does not install meter), OUC will leave a door hanger onsite indicating the reason why a meter was not installed. The Owner/Contractor is required to fix installation issues, and contact OUC Customer Service.

Installation of Unauthorized Customer Equipment

OUC does not permit the installation of any equipment at or near the electric service meter which, in OUC's opinion, may jeopardize the reliability or operations of the OUC electric transmission or distribution system. OUC may remove any such equipment installed between the transformer to the meter and may require the Customer, as a condition of continued service, to remove any such equipment that is installed after the meter on the customer's system.

Initial Contacts and Communication

- 1. At the onset of any new project, contact OUC Development Services, 407.236.9651. A site plan showing the proposed project layout, a landscaping plan, stormwater retention and the electric service requirements (E-plans which include load calculations, power and voltage requirements, size of service, riser diagram, etc.) is required. Additionally, for multi-tenant buildings, the building addresses and unit numbers are needed as early as possible. It is important that the addresses used for permits match the addresses for which the orders for service are placed. OUC's Electric Engineering, 407.434.4427, will review the site plan and service requirements to assess the availability and location of service. Contact them for any changes to an existing electric service. If necessary, the Owner/Contractor/ Developer may be required to pay in advance if any extension of existing facilities is required. The costs will be determined as set forth in OUC's Administrative Policy Manual. As your project proceeds you can contact OUC's Development Service Representatives for any additional information you may require.
- 2. Temporary electric service (2 years or less) may be required during the construction of your project. The Owner/Contractor/Developer is required to have a temporary pole installed on site and have a UL approved meter base properly attached to the pole (see page 6). For concrete block, residential, detached homes our Temporary Underground Service (TUG) program is available. It is the responsibility of the Owner/Contractor/ Developer to request an electrical inspection from the City/County. Call OUC's Commercial Service Representatives, 407.423.9018, to place an application for the meter installation and account application. When the inspection clearance and application have been received, OUC will attempt to install a meter(s) within ten (10) to twelve (12) business days. (Note: three phase or CT service may require additional time for scheduling.) Temporary line extension costs, deposits and/or connection fees are required to be paid prior to scheduling.
- 3. Permanent electric service is the final electric service required to bring the building to completion for occupancy. Call OUC's Commercial Service Representatives, 407.423.9018, to establish the amount of security deposit required to be paid for the application of the permanent electric meter installation. It is the responsibility of the Owner/Contractor/Developer to request a final electrical inspection from the City/County. If OUC has not received an inspection clearance, services will not be energized and meters will not be set.

The City/County must be contacted to pursue the reason why a clearance was not received. When the final inspection clearance and application have been received, OUC will attempt to install a meter(s) within ten (10) to twelve (12) business days. (Note: three phase service may require additional time for scheduling.)

- 4. To schedule transformer stand-by to: install any conduit, pull wire, or land wire (Not CT'ed); contact OUC Electric Distribution, 407.434.4111 or email standbyrequest@ouc.com
- 5. For changes of service involving current transformers (CTs) within a CT cabinet, contact OUC Electric Operations, 407.434.2136.
- For a service change which requires OUC personnel after hours, additional overtime charges may apply. Authorization Form must be signed.
- 7. **Special Notice:** OUC offers 400 amp services for single-phase residential services (320 amp MEG socket meter base w/bypass handle, no "K" base). For services 400 amps and less, OUC requires contractors in residential subdivisions to install the conduit from the transformer or junction box to the meter base.
- 8. Conduit shall be used with the appropriate type ells and shall be buried a minimum of 36". Warning tape shall be installed above all buried conduits. Ten (10) to twelve (12) days notice is necessary for OUC to run the permanent service to the house. Grey electrical grade schedule 40 or 80 pvc conduit (5° chamfered edges) is the approved pipe for underground residential installations unless the electrical engineer indicates otherwise. Minimum 200 lb. test pulling string shall be installed throughout all conduit runs. Heating the pvc pipe is not allowed for bending. All installation questions should be directed to your OUC engineer.



Initial Contact Telephone Directory Development Services Plan review and project coordination 407.236.9651 Customer/Commercial Services Deposit, connection and service applications 407.423.9018 Electric Engineering New services & changes to existing electric service(s) 407.434.4427 Electric Distribution Schedule stand-by or de-energize transformer 407.434.4111 Electric Operations Changes of service involving current transformers (CTs) . 407.434.2136 Service Order Technicians Schedule unlocking meters in multi-tenant buildings. 407.423.9018 (at IVR prompt; respond "not a customer", and "electric") Special Electric Requests For contractors to check installation status and schedule requests (at IVR prompt; respond "not a customer", "no", and then respond with one of the options) **OUConvenient Lighting OUC Renewables** Photovoltaic system information/questions 407.434.2263 Inspection Authorities

Meter Base Requirements

- Meter bases are provided by the Customer/Contractor and shall be electrical grade, steel, UL listed and stickered, NEMA 3R, and have a maximum rating of 320 amps (residential)/200amps (commercial). Meter bases must have a provision to accept an OUC lock or seal. Additionally, 320 amp meter bases must be on the Meter Equipment Group (MEG) approved list. A short list is shown on page 33.
- 2. Commercial services shall have a lockable main disconnect that will accept an OUC padlock.
- OUC must have 24/7 access to metering equipment (CT cabinet, meters) and main disconnect. A lock box can be provided if necessary.
- 4. For all commercial services, contact Electric Engineering first.
- 5. For services over 200 AMPS, contact Electric Engineering first.
- Meter bases are provided for transformer-rated (CT) services. Electric
 Metering must receive information from Electric Engineering (see
 above) to issue any equipment. Instrument transformer cabinets must
 be provided by the Customer/Contractor. See specific requirements
 for these services.
- 7. Meter bases for **commercial services** 200 AMPS or less and **320 single-phase** residential services shall be provided with **lever bypass handles**.
- 8. Meter bases shall include a neutral conductor (except multi-gang).
- 9. Each address must be unique or have a unique address identifier i.e. suite 1, suite 2 etc.
- 10. For multiple meter bases and commercial services, (all services except single family under one roof), meter bases must be clearly and permanently marked with element resistant labeling indicating the floor, suite, apartment, room or building served by the meter. Each building must also be clearly and permanently labeled with the respective address number. Permanent numbers must be located on or adjacent to unit doors. This marking is required before the service connection is made by OUC. Final unit number/address verification will be made when meters are set. The Owner/Contractor must be on site to assist with this task. If at any time the meter base label is not visible and/or legible, service may be terminated. The following methods meet the requirement for clear and permanent marking and are acceptable.
 - * Metal plates, riveted or screwed to meter base, with engraved or stamped lettering.
 - * Plastic plates, riveted or screwed to meter base, with engraved or stamped lettering.

Paper decals or any non-permanent labels shall not be accepted.

Do not use paint or marking pens to label meter bases or plates attached to meter bases. The inside of the meter base shall be labeled with the address or unit number with a permanent marker. If at any time the meter base label is not visible and/or legible, service may be terminated.

- 11. Meter bases shall be surface mounted (do not recess) using the following approved fasteners:
 - * Tap Conns
 - * Lead Anchors
 - * Toggle Bolts
 - * 1/4" Nylon Nail-ins
 - * ZINK Mushroom Head 1/4" Pin Drives
 - * Screws (wood construction only)
 - * Nylon Togglers (drywall construction only)
- 12. Nails, shoot-in-nails, or plastic anchors are <u>unacceptable and not approved.</u>
- 13. Meter bases must be attached to the structure in a quality fashion using good workmanship as to prevent binding or inoperability of the unit. Poor quality and workmanship can result in refusal of electric service.
- 14. A clear space of 3 feet is required in front and to the side of all meters at all times. Please consult with OUC to avoid conflict with landscaping projects.
- 15. Do not wire through the back of the meter socket.
- 16. Use the provided conduit knockouts only.
- 17. A grounding electrode shall not be installed within the same chase as the line conductors.
- 18. No meter base shall be located downstream of a photocell or similar control device, nor a customer owned transformer.

Additional Requirements

The Customer/Contractor must provide OUC with a suitable point of attachment for the electric service cable as required by the NEC. This point of attachment must be sufficient to allow proper cable clearance as stipulated by NEC/NESC as well as proper strength to support the cable weight. Shoot-in fasteners or plastic anchors should not be used. Insufficient points of attachment must be relocated and/or replaced at Customer/Contractor expense.

Service Entrance Specifications for Commercial Services Over 200 AMPS and Single Phase Residential Services Over 400 AMPS (CT Required)

- Contact your OUC project engineer prior to construction for approval of the location of the meter base, current transformers (CTs), CT cabinet and conduit size/routing; and allowable conductor size. The OUC Project Engineer will need information to fill out a Service & Metering Information form. This form will be sent to Development Services so that CT equipment may be picked up by the customer/contractor. See page 5 for further meter base requirements.
- All material shall be electrical grade, steel, NEMA 3R, and UL listed and must conform to National Electrical Code (NEC), local requirements and OUC specifications.
- 3. The meter base and CTs will be supplied by OUC and installed by Customer/ Contractor. Meter base must be grounded with minimum #4 solid copper to the service grounding electrode conductor, except where restricted by NEC code. Ground must be externally visible (do not place in service or metering conduit or raceway). Meter ground wire shall be secured sufficiently with straps and lag screws.
- 4. Meter base to be surface mounted (do not recess). Use the provided knockouts only. Do not mount meter base with shoot-in fasteners or plastic anchors.
- 5. CT cabinet to be supplied and installed by customer/contractor. Cabinet size must conform to current NEC requirements. CT cabinet shall be Hoffman number A242411CT, A303011CT, A363611CT, or equal. Equivalents shall be approved by Electric Metering. CT Cabinets are for service entrance conductors ONLY and shall include a neutral conductor. All ground wire should be external and not within CT chase. For outside installations, a sealing type lock nut shall be used for conduits entering the top or sides of CT cabinet. No other circuits of any kind will be allowed.
- 6. Hinged doors are required for CT cabinets larger than 36x36 and approved by Electric Metering. The maximum height of a CT Cabinet shall be 6 foot at the top. The minimum bottom height shall be 1 foot off the ground.
- 7. Customer/contractor to supply and install a minimum of 1" conduit from CTs to meter base. Meter conduit shall be IMC rigid metallic or schedule 80 or better above ground and PVC underground. Conduit shall be strapped sufficiently with 2 hole straps and lag screws. Conduit to enter the side or bottom of meter base. Use the provided knockouts only.

- 8. No junction boxes are allowed in the conduit run nor splicing in the CT cabinet. A maximum fo 40' of conduit is to be used from CT's to the meter with no more than 4 bends allowed in conduit run. Exceptions must be approved by OUC project engineer and electric metering.
- 9. CT polarity mark (dot or HI) shall face towards line feeding service (towards OUC). See additional drawing for wiring CT for single phase service. For 3 phase delta services, mount "high leg" CT at furthest right or bottom position. No exceptions.
- On transformers with bushing CTs, Customer/Contractor shall not land secondaries until CTs have been installed. Coordinate with your OUC project engineer.
- 11. Customer/Contractor shall supply and install service entrance conductors from main panel through CT and/or weatherhead. Length of conductors out of weatherhead or CT to be a minimum of 6ft. Conductors must be color marked on the line side of the CT.
- 12. Mount lightning arresters no more than 8" from weatherhead.
- 13. Commercial/Multi-tenant services shall have a lockable main disconnect that will accept an OUC padlock. OUC must have 24/7 access to all metering equipment (CT cabinet, meters) and main disconnect.
- 14. CTs located inside a building must comply with all NEC rules regarding location of the cabinet.
- 15. All commercial services shall be properly labeled as explained on page 5.
- 16. If installation does not conform to OUC specifications, the Customer/ Contractor will be required to relocate or renumber as necessary at their expense.

Electric Service Will Not Be Energized Until:

- Specifications and requirements are met.
- A contract for electric service has been made. (Call Customer Service.)
- The electric service has passed local authority inspection and OUC has been notified by customer/contractor.



Multi-Tenant Electric Meter Installation Requirements and Procedures

Definition: OUC defines multi-tenant as all premises except single-family homes under one roof.

These requirements are for contractors requesting single phase self-contained metering in gang type bases involving multiple family residential, or commercial projects of a similar nature.

- 1. Contact OUC Development Services (407-236-9651) to advise them of the proposed project layout. This will include: a site plan, a power riser diagram, and a landscaping plan showing storm water retention. Landscaping must be designed to ensure adequate accessibility for OUC personnel for all equipment maintenance purposes. IMPORTANT: Building addresses and unit numbers for tenant spaces are needed as soon as possible. <a href="The addresses used to pull permits MUST match the addresses under which orders for electric service are placed, and match those permanently marked on the meter bases as specified in this handbook. (Page 5-6)</p>
- 2. Contact OUC Commercial Services (407-423-9018) to place an order for new electric service. Please specify "multi-tenant".
- 3. When building(s) have been cleared for power (final inspection received) by the inspection authority, if in the City of Orlando or Orange County upload the inspection clearance at **ouc.com/inspections**. For all other inspection authority inspections OUC Service Planning is notified. If OUC has not received an inspection clearance, secondaries will not be energized and meters will not be set. Contact the inspection authority to pursue the reason why a clearance was not received. (Contacts page 4)
- 4. After all the above items are satisfied, contact OUC Electric Distribution to schedule secondaries to be energized. (407-434-4111)
- 5. Contractor is responsible to schedule stand-by to install secondary conductor and perform "bolt up".
- 6. House main to have a lockable main.

OUC will attempt to install meter(s) within five (5) business days after the secondaries have been energized provided the contractor has met all requirements. Inclement weather, emergency calls, exposed wiring, or other conditions beyond OUC's control may cause delays. A representative for the Owner/Contractor/Developer must be on site to assist the OUC representative in verifying unit numbers and addresses.

Note: It is imperative that the meter bases are permanently marked to OUC specifications. (Pages 5-6) If at any time the meter base label is not visible and/or legible, service may be terminated. In addition, permanent numbers must be located on or adjacent to unit doors so that OUC cross checks can be made with the project electrician or designated representative. Each building must also be clearly and permanently labeled with the respective address number. If meter bases and/or units are not permanently labeled, meters will not be set. Additional trips to multi-tenant buildings will result in additional charges as set forth in OUC's Administrative Policy Manual.

TEMPORARY UNDERGROUND (1-PHASE) FF006 RESIDENTAL SERVICÈ (T.U.G.) NOTE: 1. MUST BE SURFACE MOUNTED ON CONCRETE BLOCK WALL ONLY 2. DO NOT RECESS INTO STUCCO FINISHES. 3. CONTACT OUC ENGINEERING FOR SERVICES GREATER THAN 200 AMPERES. 4. SINGLE FAMILY DETACHED HOMES ONLY. 5. SINGLE PHASE ONLY, NO THREE PHASE. 6. NO CURRENT TRANSFORMER (C.T.) INSTALLATION. 7. THE PERMANENT ADDRESS MUST BE MARKED ON THE BUILDING PRIOR TO SETTING THE METER. METER ENCLOSURE, MAIN SERVICE OVER CURRENT PROTECTION DEVICE AND GFI OUTLET PROVIDED AND INSTALLED BY CUSTOMER M.F. 48"-72" - GFI OUTLET METER ENCLOSURE AND CONDUIT INSTALLED BY THE CUSTOMER CONSTRUCTION STANDARDS OH & UG Distribution System Orlando Utilities Commission The Reliable One Approved by 5.23.19 Added note 7 JD. Drawn by Checked by Date No. Date Revision Ck. JORDAN BRAMLETT 09-19-06

RESIDENTIAL TEMPORARY CONSTRUCTION SERVICE FROM EE009 PADMOUNTEDTRANSFORMER, SECONDARY JUNCTION BOX (200 AMP OR LESS) NOTE: CUSTOMER MUST PROVIDE ADEQUATE GROUNDING OF FACILITIES IN ACCORDANCE. WITH THE N.E.C. OR LOCAL CODES. 2. METER BASE PROVIDED AND INSTALLED BY CUSTOMER PER O.U.C. REQUIREMENTS. SERVICE PEDESTAL FURNISHED AND INSTALLED BY CUSTOMER—PIPE SIZE - 2" GALVANIZED. MINIMUM POST SIZE - 4" X 8" PRESSURE TREATED WOOD MINIMUM CONCRETE SIZE - 6" X 6" X 8" MAIN SERVICE -OVER CURRENT PROTECTION DEVICE ELECTRICAL CONTRACTOR TO LEAVE ADEQUATE LENGTH OF CABLE AND FLEXIBLE CONDUIT FOR TERMINATION IN TRANSFORMER. O.U.C. TO COMPLETE PIGTAIL INSTALLATION INTO TRANSFORMER 48"-72" O.U.C. PAD - MOUNTED-TRANSFORMER SERVICE ENTRANCE CONDUCTOR IN CONDUIT OR INTERLOCKED ARMORED CABLE MINIMUM MINIMUM CABLE COVERED 36" MINIMUM PIPE OR POST OUC SINGLE PHASE TRANSFORMER PAD SMALL PAD 40"x40" LARGE PAD 48"x60" PRIMARY SECONDARY

Ck.

The Reliable One

Checked by

Drawn by

JORDAN

CONSTRUCTION STANDARDS

OH & UG Distribution System

Orlando Utilities Commission

09-19-06

Approved by

BRAMLETT

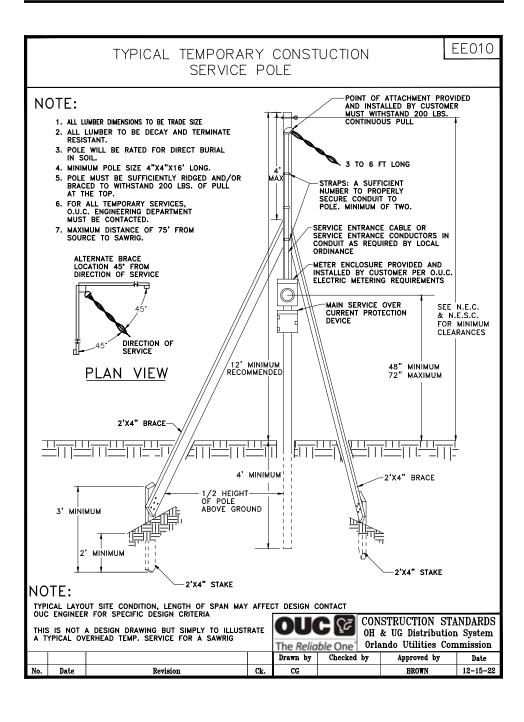
FRONT

Revision

Date

No.

TOP VIEW

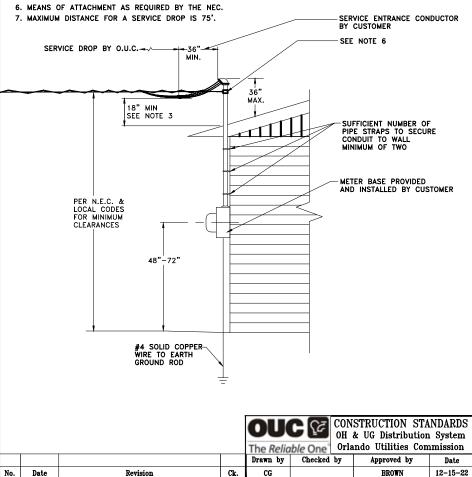


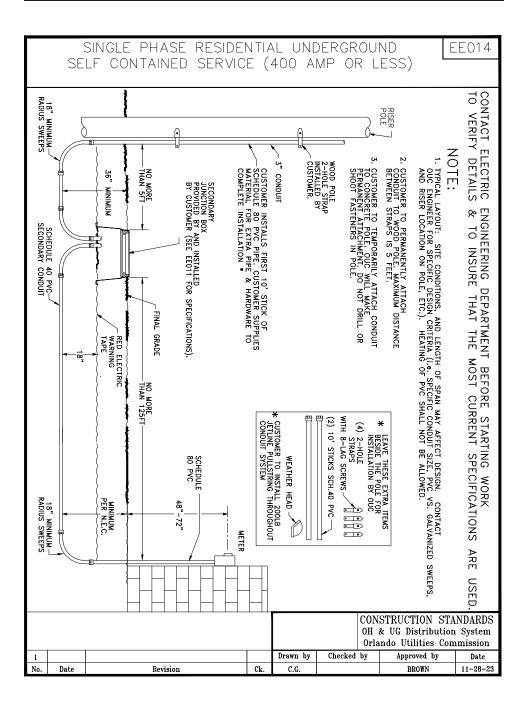
TYPICAL OVERHEAD RESIDENTIAL SERVICE INSTALLATION 400A OR LESS (SELF-CONTAINED METER BASE)

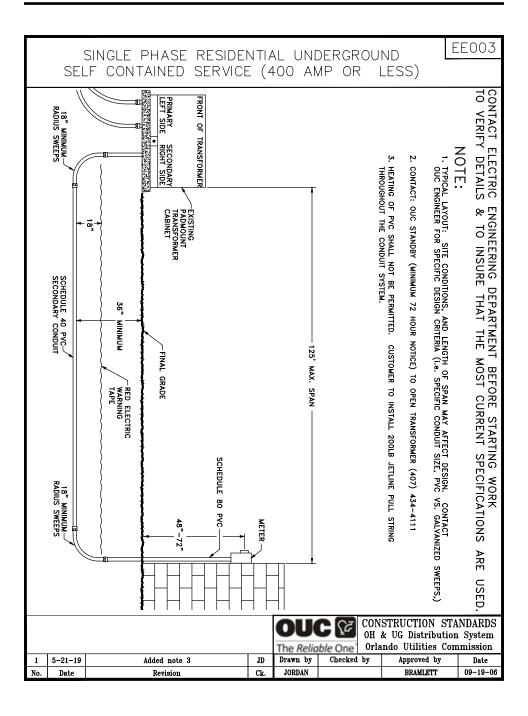
FF008

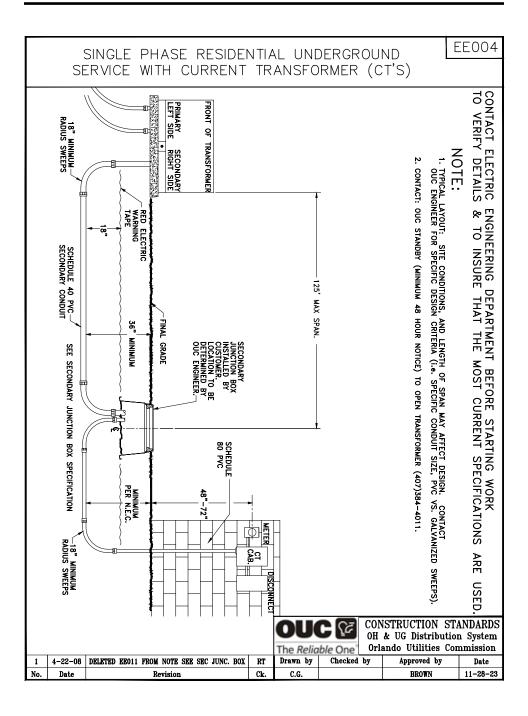
NOTE:

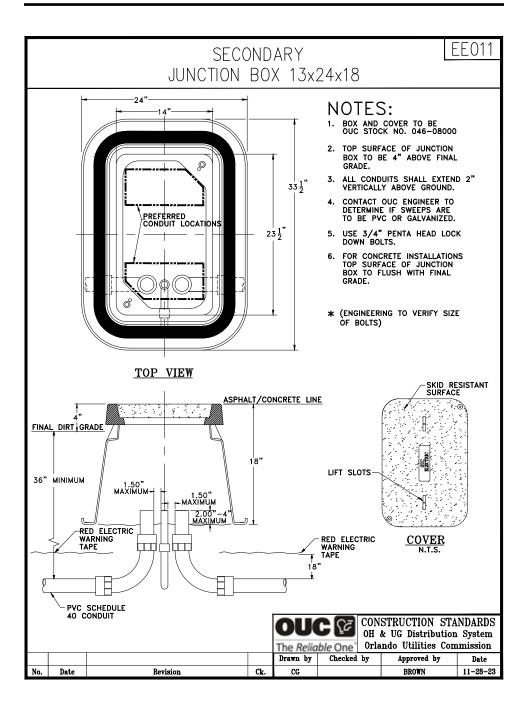
- 1. CATV OR TELEPHONE CABLE SHALL NOT BE ATTACHED TO THE SERVICE MAST.
- 2. FOR SPECIFIC HEIGHT REQUIREMENTS & CLEARANCE, REFER TO N.E.C. AND LOCAL CODES.
- METER BASE PROVIDED AND INSTALLED BY CUSTOMER PER O.U.C. APPROVED METERING INSTALLATION REQUIREMENTS.
- 4. SERVICE RISER SHALL BE 2"MINIMUM RIGID METAL CONDUIT PROVIDED AND INSTALLED BY CUSTOMER. SERVICE RISER MUST WITHSTAND 200 LBS. OF CONTINUOUS PULL.
- 5. MAXIMUM CONDUIT HEIGHT ABOVE THE ROOF IS 36".









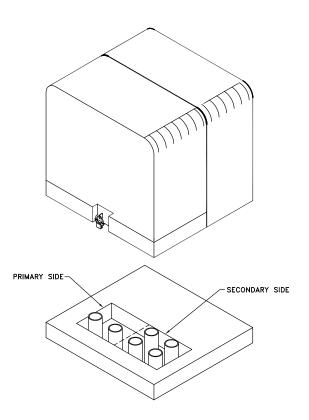


UNDERGROUND REQUIREMENTS FOR SINGLE-PHASE PAD-MOUNT TRANSFORMER INSTALLATIONS

EE007

NOTE:

- 1. THE LOCATION OF THE CONCRETE PAD & CONDUITS WILL BE SPECIFIED BY O.U.C..
- 2. PAD-MOUNT TRANSFORMERS MUST MEET THE LOCATION REQUIREMENTS FOR OIL FILLED EQUIPMENT.
- 3. ALL SECONDARY CONDUITS SHALL BE INSTALLED FLUSH WITH THE TOP OF THE CONCRETE PAD.



OUC F

CONSTRUCTION STANDARDS OH & UG Distribution System Orlando Utilities Commission

 No.
 Date
 Revision
 Ck.
 JORDAN
 Checked by
 Approved by
 Date

 No.
 Date
 Revision
 Ck.
 JORDAN
 BRAMLETT
 09-19-06

REQUIREMENTS FOR THREE-PHASE & SINGLE PHASE **UG PAD-MOUNT TRANSFORMER INSTALLATIONS**

EE005

NOTE:

- 1. CONCRETE PAD AND CONDUIT LOCATIONS TO BE DETERMINED BY OUC ENGINEER.
- 2. THE CLEARANCE AREA SHALL HAVE NO LANDSCAPING, EQUIPMENT, STRUCTURE OR OBSTACLES THAT MAY IMPEDE ACCESSIBILITY TO O.U.C. TRANSFORMERS. CONTACT OUC ENGINEER FOR APPROVED LAYOUT.
- 3. 12 FOOT CLEARANCE REQUIRED ON DOOR SIDE (FRONT) OF TRANSFORMER.
- 4. CONTACT O.U.C ENGINEER FOR SPECIFIC PAD SPECIFICATION.

THRFF	PHASE	INSTALL	ATIONS

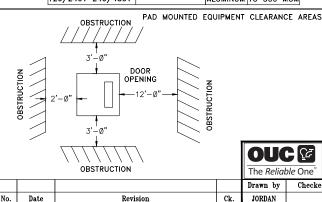
SECONDARY	KVA	MAXIMUM ALLOWED CABLES	APPROVED	CONDUCTOR
VOLTAGE AVAILABLE	```	PER PHASE	TYPE	CABLE SIZE
	75	*8		1/0
	150	*8		2/0
	300	8	COPPER	350 KCM
120/208Y	500	10		500 KCM
120/240V	750	12		600 KCM
·	1000	14		750 KCM
	1500	16		1/0
	150	*8		2/0
	300	8		3/0
	500	8		4/0
277/480Y	750	10	ALUMINUM	250 KCM
	1000	10		350 KCM
	1500	10		500 KCM
	2000	12		600 KCM
	2500	14		750 KCM

*A MULTI-PORT LUG OR SPADE EXTENSION MAY BE REQUIRED FOR MORE THAN 4 CONDUCTORS PER PHASE CONTACT O.U.C. ENGINEER.

CINCLE BUACE INCTALLATIONS

SINGLE PHASE INSTALLATIONS							
SECONDARY	MAXIMUM ALLOWED CABLES APPROVED CONDUCTOR						
VOLTAGE AVAILABLE	PER PHASE TYPE CABLE SIZ			CABLE SIZE			
25 KVA 120/240V 240/480V	6	COPPER	# 6				
			TO 500 MCM				
50 KVA 120/240V 240/480V	6	COPPER ALUMINUM	# 6 TO 500 MCM				
100 KVA	6	COPPER	# 6				
120/240V 240/480V	,	ALUMINUM	ТО 500 МСМ				
167 KVA 120/240V 240/480V	6	COPPER ALUMINUM	# 6 TO 500 MCM				

*ANY EXCEPTIONS MUST BE APPROVED BY O.U.C ELECTRIC ENGINEERING



The Reliable One

CONSTRUCTION STANDARDS OH & UG Distribution System Orlando Utilities Commission

Drawn by Checked by Approved by Date BRAMLETT 09-19-06 JORDAN

EE013

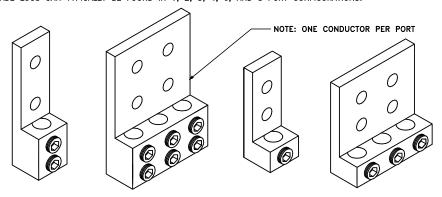
SPADE LUGS

CONDUCTOR TERMINAL LUG:

TERMINAL LUG (ONLY NEMA APPROVED LUGS ARE ACCEPTABLE) SHALL HAVE AN AMPACITY RATING EQUAL TO OR GREATER THAN THE CONDUCTOR(S) CONNECTED TO IT. TERMINAL LUG SHALL BE CAPABLE OF ACCEPTING EITHER ALUMINUM OR COPPER CONDUCTORS AND PRE FILLED BY MANUFACTURER WITH AN OXIDE INHIBITOR.

TERMINAL LUG SHALL HAVE AT LEAST TWO CIRCULAR MOUNTING HOLES FOR SINGLE CONDUCTORS OR FOUR CIRCULAR MOUNTING HOLES FOR MULTI-CONDUCTORS, 0.562 (9/16) INCHES IN DIAMETER AND SPACED 1.750 (1 3/4) INCHES CENTER TO CENTER (STANDARD NEMA SPACING FOR MOUNTING HOLES.) USE ONLY LUGS WHICH WILL NOT CONFLICT WITH OTHER LUGS, SPADES OR CURRENT TRANSFORMERS.

TERMINAL LUG CONNECTOR SHALL BE COMPRESSION TYPE OR SET SCREW TYPE. SET SCREW TYPE CONNECTORS MUST HAVE TWO (2) SET SCREWS PER CONDUCTOR FOR ALL CONDUCTORS OVER 4/0 IN SIZE. (SEE DRAWING BELOW.) SPADE LUGS CAN TYPICALLY BE FOUND IN 1, 2, 3, 4, 6, AND 8 PORT CONFIGURATIONS.



TWO SET SCREWS FOR CONDUCTORS ABOVE 4/0

ONE SET SCREW FOR CONDUCTORS 4/0 AND BELOW

MOUNTING HARDWARE

BOLT: 1/2"- 13 THDS/INCH - GRADE 5 WITH ZINC FINISH - HEX HEAD (3/4" ACROSS FLATS)
NUT: 1/2"- 13 THDS/INCH - GRADE 5 WITH ZINC FINISH - HEX HEAD (3/4" ACROSS FLATS)
WASHERS: TWO - 1/2" FLAT USS (1 3/8" OUTER DIAMETER) - GRADE 5 WITH ZINC FINISH

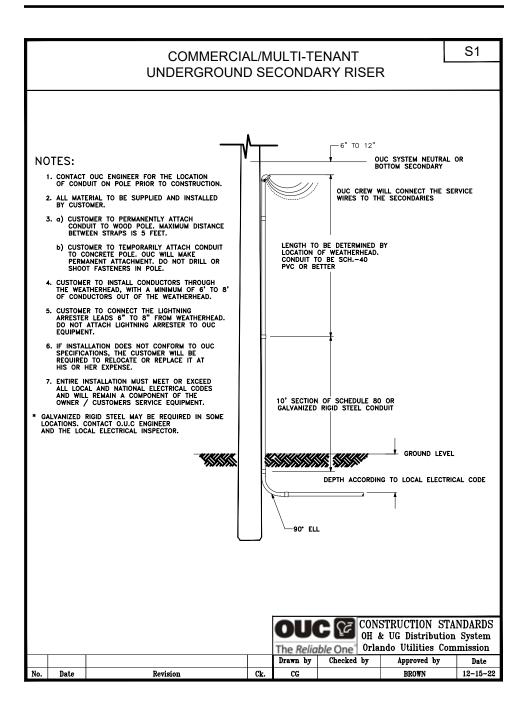
ONE - 1/2" LOCK WASHER WITH ZINC FINISH

FINAL HARDWARE ASSEMBLY SHOULD HAVE A MINIMUM 1/4" THREAD BEYOND NUT.

TIGHTENING BOLT AND NUT: USE TWO WRENCHES TO GAIN EQUAL OPPOSITION WHICH REDUCES THE CHANCE OF BUSHING LEAKAGE OR BREAKAGE. TORQUE TO 57 LB-FT.

CUSTOMER'S CONTRACTOR/ELECTRICIAN IS RESPONSIBLE FOR LANDING SECONDARIES. 3Ø PADMOUNT TRANSFORMER: EIGHT (8) CONDUCTORS PER PHASE TYPICAL

					P (73	CON	STRUCTION STA	NDARDS
4	02-08-18	ADD NOTES	C.G.		C To	OH .	& UG Distribution	System
3	1-13-95	ADDED NOTE (CURRENT TRANS.)		The Relia	ble One	0rla	ndo Utilities Com	mission
2	9-03-92	ADDED NOTE		Drawn by	Checked	by	Approved by	Date
No.	Date	Revision	Ck.	OLIVER			HOOVER	02-08-18



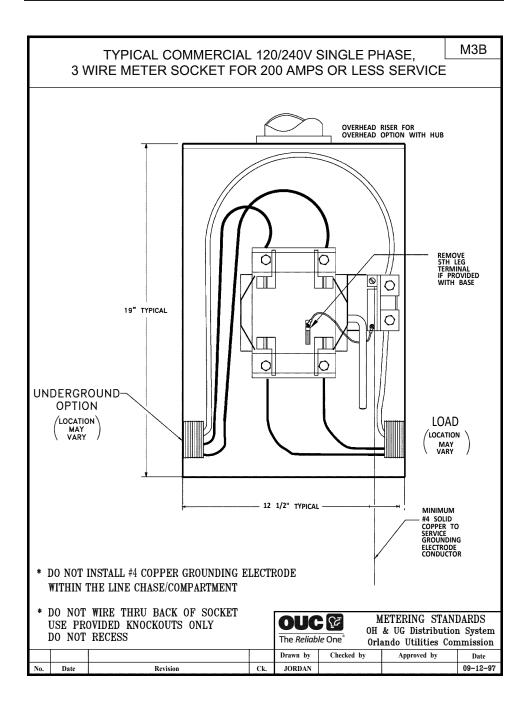
INDEX FOR METER BASE INSTALLATIONS

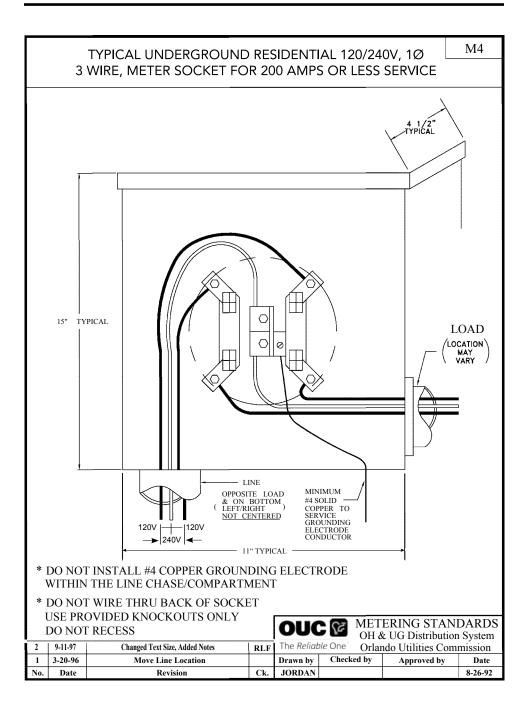
Service Size	Phases	Installation Type	OUC Digital Meter	Drawing		
All	1	2 Wire 480v	Go to 3 Wire	N/A		
≤200A	1	3 Wire 120/240v (Comm. w/bypass)	5CD/6CD/7CD	M3, 4		
=200A	1	3 Wire 120/208v Network*	5XD	M5		
	1	3 Wire 240/480	5CM (node)	M12		
	1	3 Wire 277/480	Go to 3 Phase	N/A		
≤200A	3	4 Wire 120/208v Y		M6		
≥200A	3	4 Wire 120/240v Delta	_	M6		
	3	4 Wire 277/480v	5ZR M13			
	3	4 Wire 240/480v Delta	-	M13		
>200A	1	3 Wire 120/240v Commercial	1JR	M11		
	1	3 Wire 120/208v	Go to 3 Phase			
	1	3 Wire 240/480v	1JR w/PT	M11		
	1	3 Wire 277/480v	N/A	N/A		
400A	1	3 Wire 120/240v Residential	5CE	M15		
>200A	3	4 Wire 120/208v Y				
/200A	<u> </u>		-			
	3	4 Wire 120/240v Delta	1ZR	М7		
	3	4 Wire 277/480v				
	3	4 Wire 240/480v Delta				

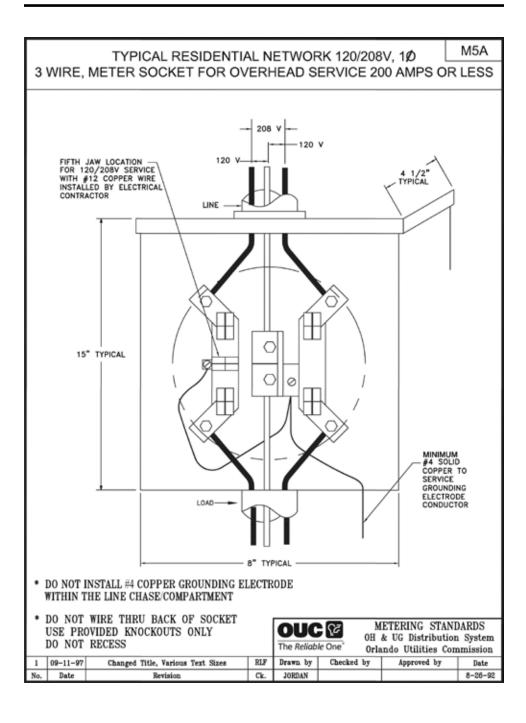
^{*} Contractor must install 5th terminal in meter base NOTE FOR OUC:

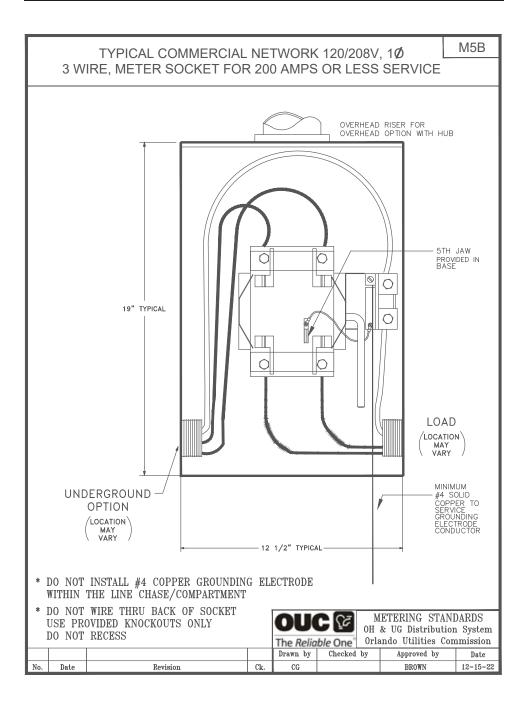
⁵CR & 5XR meters are identical to 5CD & 5XD except without an internal disconnect. 2PD meters are identical to 5CR meters except configured for bi-directional PV services.

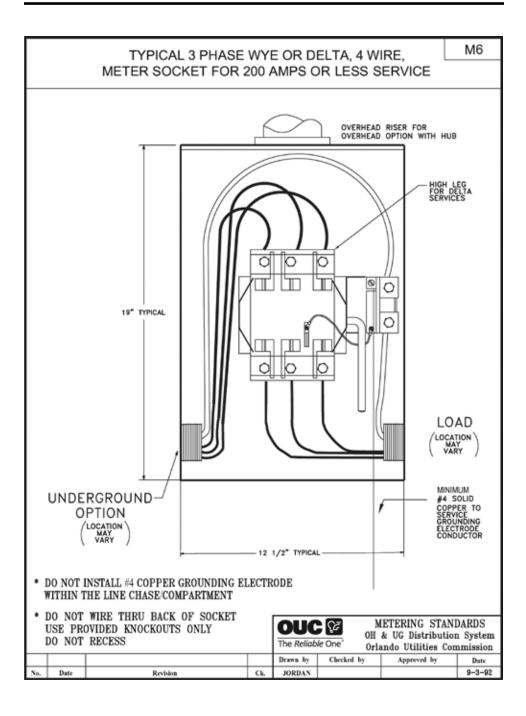
TYPICAL OVERHEAD RESIDENTIAL МЗА 120/240V SINGLE PHASE, 3 WIRE METER SOCKET FOR 200 AMPS OR LESS SERVICE 15" TYPICAL MINIMUM #4 SOLID COPPER TO SERVICE GROUNDING ELECTRODE CONDUCTOR LOAD 8" TYPICAL * DO NOT INSTALL #4 COPPER GROUNDING ELECTRODE WITHIN THE LINE CHASE/COMPARTMENT * DO NOT WIRE THRU BACK OF SOCKET USE PROVIDED KNOCKOUTS ONLY DO NOT RECESS METERING STANDARDS OUC @ OH & UG Distribution System The Reliable One Orlando Utilities Commission 09-11-97 Changed Text Size, Added Note RLF Drawn by Checked by Approved by JORDAN 8-26-92 No. Date Revision Ck.



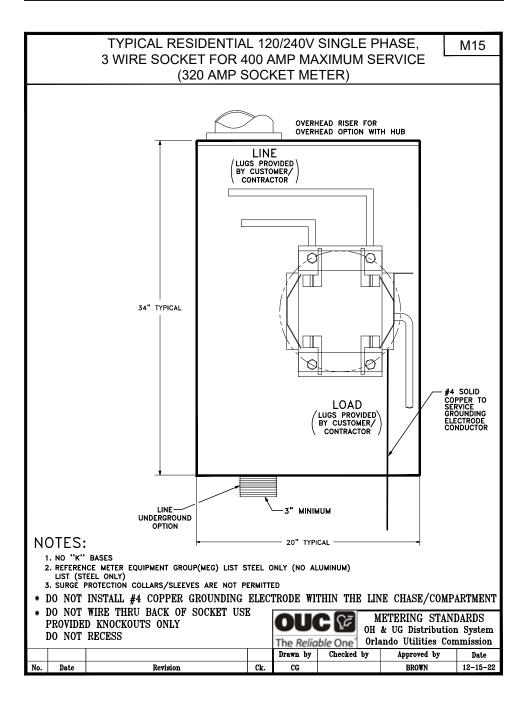








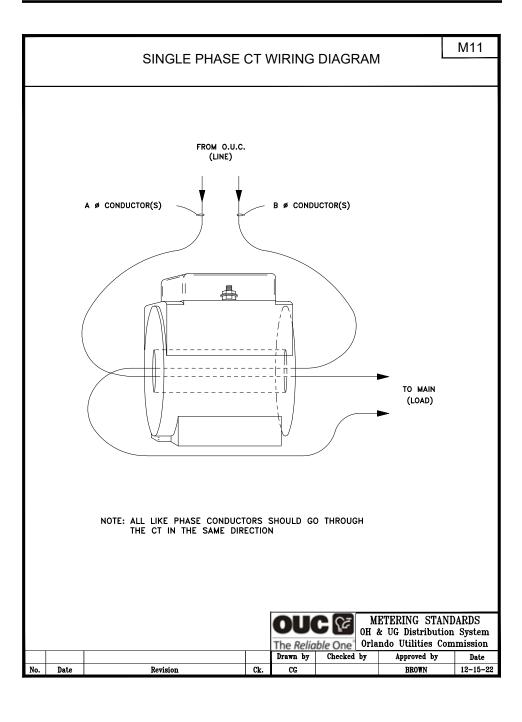




METER EQUIPMENT GROUP APPROVED 320AMP BASES

Manufacturer	Amp Rating	Catalog Number	Phase	Over/Under	Bypass Handle
Cutler Hammer	320	1008836CH	1	O/U	Y
Cutler Hammer	320	UT-H4300T-FLCH	1	0	Y
Cutler Hammer	320	UT-H5300T-FLCH	1	0	Υ
Cutler Hammer	320	UT-H5330U-FLCH	1	O/U	Υ
Cutler Hammer	400	CG1212P400BSL	1	U	Υ
Durham	320	1008836	1	0/U	Υ
Durham	320	UT-H4300T-FL	1	0	Υ
Durham	320	UT-H5300T-FL	1	0	Υ
Durham	320	UT-H5330U-FL	1	0/U	Υ
Landis & Gyr	320	47705-02FL	1	O/U	Υ
Landis & Gyr	320	49005-02FL	1	O/U	Υ
Midwest	320	1008836MEP	1	O/U	Υ
Midwest	320	UT-H4300T-FLMEP	1	0	Υ
Midwest	320	UT-H5300T-FLMEP	1	0	Υ
Midwest	320	UT-H5330U-FLMEP	1	O/U	Υ
Milbank	400	U3313-X-HSP	1	O/U	Υ
Murray	320	DL143W5	1	O/U	Υ
Siemens	320	MC0816B1350RLTM	1	O/U	Y
Square D	320	1008836SQD	1	O/U	Υ
Square D	320	UT-H4300T-FLSQD	1	0	Υ
Square D	320	UT-H5300T-FLSQD	1	0	Υ
Square D	320	UT-H5330U-FLSQD 1		O/U	Υ
Square D	400	QU816D400SLxxx	1	U	Υ
Square D	400	QU12L400SLxxx	1	U	Υ

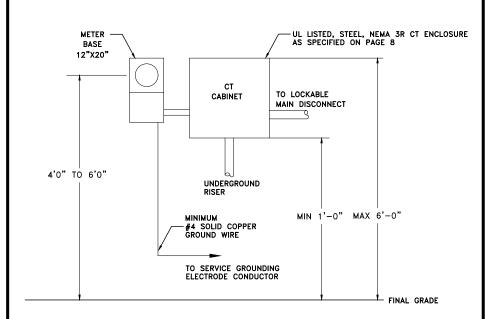
M10 UNDERGROUND 10 RESIDENTIAL SERVICE ENTRANCE LARGER THAN 400 AMP. (CT REQUIRED) UL LISTED, STEEL, NEMA 3R CT ENCLOSURE METER AS SPECIFIED ON PAGE 8 BASE 12" X 20" CT TO MAIN DISCONNECT CABINET MINIMUM #4 SOLID-GROUND 4'0" TO 6'0" MAX 6'0" - TO SERVICE MIN 1'0" GROUNDING ELECTRODE CONDUCTOR SECONDARY JUNCTION BOX (MINIMUM SIZE 13" X 24") FINAL GRADE OUC INSTALLED CONDUCTORS FINAL GRADE NOTES: 1. CUSTOMER/CONTRACTOR TO SUPPLY AND INSTALL CONDUIT PER NEC REQUIREMENTS. 2. CUSTOMER/CONTRACTOR TO SUPPLY AND INSTALL SERVICE CONDUIT TO ENTRANCE CONDUCTORS FROM MAIN PANEL THROUGH TO O.U.C. SECONDARY JUNCTION BOX. ALLOW A MINIMUM OF 4' (FEET) OF CONDUCTOR IN SECONDARY BOX FOR MAKEUP BY O.U.C. ENTER BOTTOM OF JUNCTION BOX. PER NEC REQUIREMENTS. DETAIL METERING STANDARDS 12-6-17 ADDED HEIGHT REQUIREMENTS J.D. 3 OH & UG Distribution System Orlando Utilities Commission 2 09-11-97 Added & Changed Note RLF The Reliable One'l Drawn by 1/27/93 Revised to restrict application Checked by Approved by Date 1 No. Date Last Revision Ck. JORDAN



COMMERCIAL OVERHEAD SERVICE ENTRANCE M7A LARGER THAN 200 AMPS (CT REQUIRED) WITH CT CABINET MEANS OF ATTATCHMENT AS REQUIED BY NEC. MINIMUM 6'-8' OF CONDUCTOR OUT OF WEATHERHEAD OVERHEAD RISER METER -BASE UL LISTED, STEEL, NEMA 3R CT ENCLOSURE AS SPECIFIED ON PAGE 8 12"X20" СТ Q CABINET TO LOCKABLE MAIN DISCONNECT 4'0" TO 6'0" MIN 1'-0" MAX 6'-0" MINIMUM SOLID COPPER GROUND WIRE TO SERVICE GROUNDING ELECTRODE CONDUCTOR ┸ FINAL GRADE NOTE: 1. CONDUCTORS MUST BE COLOR MARKED IN CT CABINET ON LINE SIDE OF CT. FOR DELTA SERVICES, MOUNT CT FOR HIGH LEG TO THE RIGHT OR BOTTOM. REFER TO NEC FOR COLOR CODING 2. CT'S REQUIRED FOR COMMERCIAL SERVICES LARGER THAN 200 AMPS. 3. FOR CT'S LOCATED INSIDE A BUIDLING REFER TO THE NEC REGARDING LOCATION OF THE CABINET. 4. ALL GROUND WIRE IS REQUIRED TO BE EXTERNAL AND NOT WITHIN CT CHASE. METERING STANDARDS OH & UG Distribution System 1 12-06-17 ADDED HEIGHT REQUIREMENTS CF Orlando Utilities Commission The Reliable One 4-22-08 ADDED NOTE 3 & NEC NOTE RT Drawn by Checked by Approved by Date 1 Revision CG BROWN 11-28-23 Date Ck. No.

COMMERCIAL UNDERGROUND SERVICE ENTRANCE LARGER THAN 200 AMPS (CT REQUIRED) WITH CT CABINET

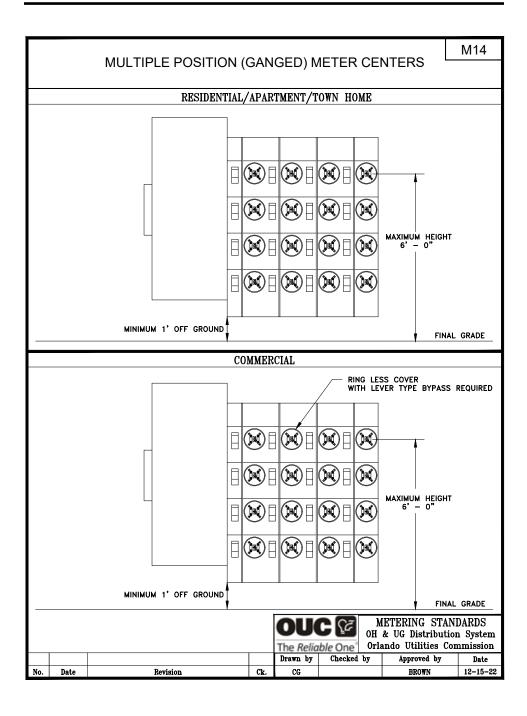
M7B

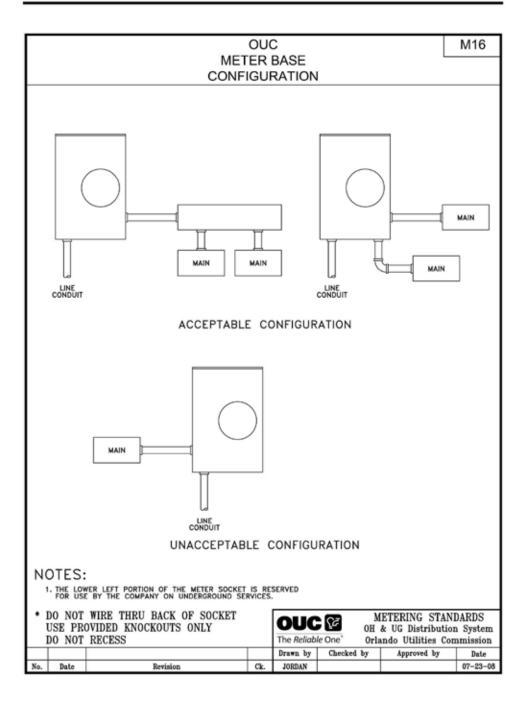


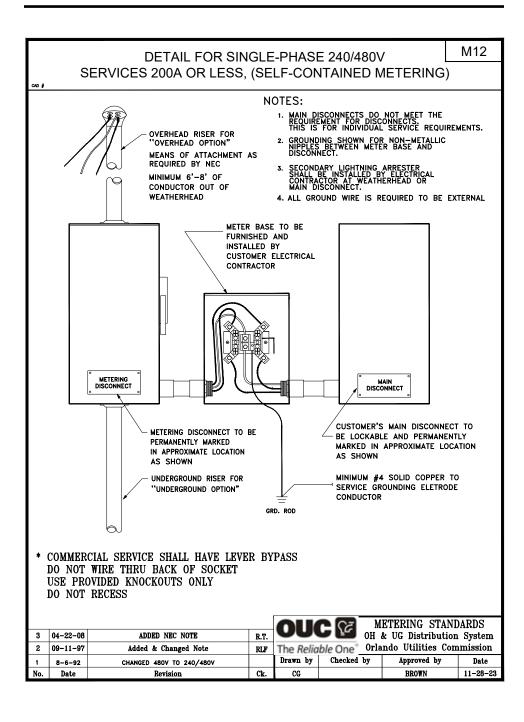
NOTE:

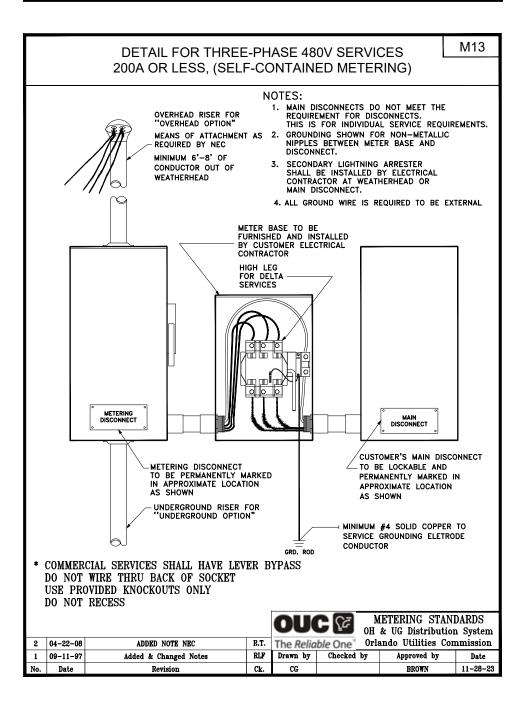
- 1. CONDUCTORS MUST BE COLOR MARKED IN CT CABINET ON LINE SIDE OF CT. FOR DELTA SERVICES, MOUNT CT FOR HIGH LEG TO THE RIGHT OR BOTTOM. REFER TO NEC FOR COLOR CODING
- 2. CT'S REQUIRED FOR COMMERCIAL SERVICES LARGER THAN 200 AMPS.
- 3. FOR CT'S LOCATED INSIDE A BUIDLING REFER TO THE NEC REGARDING LOCATION OF THE CABINET.
- 4. ALL GROUND WIRE IS REQUIRED TO BE EXTERNAL AND NOT WITHIN CT CHASE.

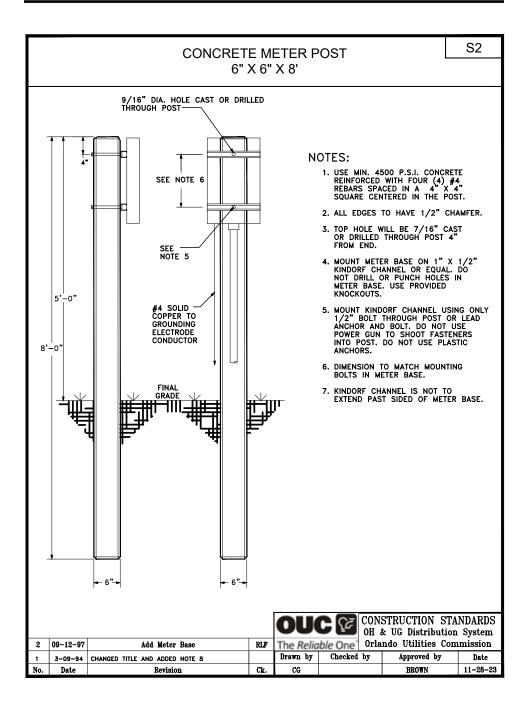
				OU	C		IETERING STAN & UG Distribution	
2	4-22-08	ADDED NOTE 3	R.T.	The Reliable One Orlando Utilitie			ando Utilities Con	nmission
1	3-25-96	ADDED TEXT		Drawn by	Checked	by	Approved by	Date
No.	Date	Revision	Ck.	CG			BROWN	11-28-23







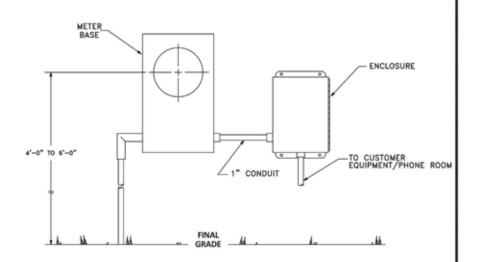




S5 METER POST RACK INSTALLATION 5'-0" MAXIMUM DIMENSION TO MATCH MOUNTING CUSTOMER MAIN HOLES IN METER BASE DISCONNECT METERBASE 5'-0" SEE NOTE 4 MINIMUM #4 SOLID COPPER TO SERVICE GROUNDING ELECTRODE CONDUCTOR NOTES: TWO 6"X6"X8' CONCRETE METER POSTS 6. MOUNT METER BASE ON 1"X 1/2" KINDORF CHNNEL OR EQUAL. DO NOT DRILL OR PUNCH HOLES IN METER BASE. USE MIN. 4500 P.S.I. CONCRETE REINFORCED WITH FOUR (4) #4 REBARS SPACED IN A 4"X4" USE PROVIDED KNOCKOUTS. 7. MOUNT KINDORF CHANNEL USING ONLY SQUARE CENTERED IN THE POST. 1/2" BOLT THROUGH POST OR LEAD ANCHOR AND BOLT. DO NOT USE ALL EDGES TO HAVE ¹/₂" CHAMFER. POWER GUN TO SHOOT FASTENERS INTO POST. DO NOT USE PLASTIC TOP HOLE WILL BE 9/16" CAST ANCHORS. OR DRILLED THROUGH POST 4" FROM END. KINDORF CHANNEL IS NOT TO EXTEND PAST SIDES OF METER BASE. CONSTRUCTION STANDARDS OH & UG Distribution System Orlando Utilities Commission The Reliable One" Drawn by Checked by Approved by Date No. Date Revision CG BROWN 11-28-23

PULSE METER APPLICATION

S4



NOTES:

- 8" x 8" x 6" ENCLOSURE (EQUIVALENT TO HOFFMAN A-8R86HCLO) SHALL BE SUPPLIED AND INSTALLED BY CONTRACTOR.
- 2. ALL METERING CONDUITS SUPPLIED AND INSTALLED BY CONTRACTOR.
- IF THE CUSTOMER PLANS ON HAVING AN ENERGY MANAGEMENT SYSTEM WHICH UTILIZES METER OUTPUT PULSES, THEY MUST REQUEST PULSE METER(S) FROM O.U.C.

TO APPLY FOR SPECIAL METERING EQUIPMENT AND INFORMATION ON ASSOCIATED CHARGES CONTACT:

Electric Meter Shop OUC—The Reliable One P.O. Box 3193 Orlando, FL 32802 Email: ElectricMeterShop@ouc.com

OUC The Reliable One

CONSTRUCTION STANDARDS OH & UG Distribution System Orlando Utilities Commission

No.	09-12-97	Changed Various Text Sizes	RLF	Drawn by	Checked by	Approved by	Date
No.	Date	Revision	Ck.	JORDAN			2-14-94



OUC 3-Φ PADMOUNT TRANSFORMER DATA

				15 KV CLASS			
KVA	KV-Pri.	Volt - Sec.	Impedence	Fault Current	Full-Load	Stock #	Approx.
			(Max Fault)	(Max Amps)	Current		Weight (lbs)
75	12.47	120 / 208 Y	2.46%	8,473	208	027-03607	2717
150	12.47	120 / 208 Y	2.24%	18,579	416	027-03615	3304
300	12.47	120 / 208 Y	1.66%	50,285	833	027-03630	4291
500	12.47	120 / 208 Y	1.74%	79,900	1,388	027-03650	5371
750	12.47	120 / 208 Y	4.85%	42,915	2,082	027-03675	7148
1000	12.47	120 / 208 Y	5.11%	54,298	2,776	027-03690	8929
1500	12.47	120 / 208 Y	5.17%	80,596	4,164	027-03695	14617
75	12.47	277 / 480 Y	1.94%	4,640	90	027-04607	2648
150	12.47	277 / 480 Y	1.86%	9,684	180	027-04615	3168
300	12.47	277 / 480 Y	1.92%	18,823	361	027-04630	4164
500	12.47	277 / 480 Y	1.73%	34,804	601	027-04650	5207
750	12.47	277 / 480 Y	5.18%	17,402	902	027-04675	6984
1000	12.47	277 / 480 Y	5.13%	23,447	1,203	027-04690	8584
1500	12.47	277 / 480 Y	5.10%	35,356	1,804	027-04695	11128
2000	12.47	277 / 480 Y	5.14%	46,811	2,406	027-04696	14531
2500	12.47	277 / 480 Y	5.03%	59,770	3,007	027-04698	16259
75	12.47	120 / 240 (D)	2.77%	6,509	180	027-01607	2904
150	12.47	120 / 240 (D)	1.60%	22,525	361	027-01615	3614
300	12.47	120 / 240 (D)	3.20%	22,588	722	027-01630	5654
500	12.47	120 / 240 (D)	1.96%	61,305	1203	027-01650	5879
750	12.47	120 / 240 (D)	5.18%	34,804	1804	027-01675	8174
75	12.47	240 / 480 (D)	1.08%	8,353	90	027-02607	2897
150	12.47	240 / 480 (D)	2.46%	7,343	180	027-02615	3393
750	12.47	360 / 600 Y	5.02%	14,371	722	027-06675	6984
			NOTE: (D) In-				

NOTE: (D) - Indicates delta connected windings

				25 KV CLASS			
KVA	KV-Pri.	Volt - Sec.	Impedence (Max Fault)	Fault Current (Max Amps)	Full-Load Current	Stock #	Approx. Weight (lbs)
75	24.95	120 / 208 Y	1.94%	10,709	208	027-53607	2746
150	24.95	120 / 208 Y	1.80%	23,131	416	027-53615	3328
300	24.95	120 / 208 Y	2.01%	41,491	833	027-53630	4816
500	24.95	120 / 208 Y	2.12%	65,620	1,388	027-56350	5839
750	24.95	120 / 208 Y	5.18%	40,158	2,082	027-53675	8152
1000	24.95	120 / 208 Y	5.17%	53,731	2,776	027-53690	9533
75	24.95	277 / 480 Y	1.85%	4,866	90	027-54607	2983
150	24.95	277 / 480 Y	1.76%	10,280	180	027-54615	3366
300	24.95	277 / 480 Y	1.94%	18,562	361	027-54630	4364
500	24.95	277 / 480 Y	1.81%	33,245	601	027-54650	5353
750	24.95	277 / 480 Y	5.17%	17,462	902	027-54675	7146
1000	24.95	277 / 480 Y	5.18%	23,202	1,203	027-54690	8751
1500	24.95	277 / 480 Y	5.20%	34,683	1,804	027-54695	11324

			35 KV	CLASS (Dual Voltage	e)		
KVA	KV-Pri.	Volt - Sec.	Impedence (Max Fault)	Fault Current (Max Amps)	Full-Load Current	Stock #	Approx. Weight (lbs)
75	34.5 x 12.47	120 / 208 Y	1.83%	11,395	208	035-03607	4873
150	34.5 x 12.47	120 / 208 Y	1.65%	25,280	416	035-03615	5800
300	34.5 x 12.47	120 / 208 Y	1.65%	50,560	833	035-03630	6123
500	34.5 x 12.47	120 / 208 Y	1.95%	71,063	1,388	035-03650	8145
750	34.5 x 12.47	120 / 208 Y	4.95%	42,056	2,082	035-03675	11156
1000	34.5 x 12.47	120 / 208 Y	5.63%	49,346	2,776	035-03690	12526
1500	34.5 x 12.47	120 / 208 Y	5.07%	82,171	4,164	035-03695	13896
75	34.5 x 12.47	277 / 480 Y	1.36%	6,638	90	035-04607	4990
150	34.5 x 12.47	277 / 480 Y	1.60%	11,262	180	035-04615	5345
300	34.5 x 12.47	277 / 480 Y	1.80%	20,047	361	035-04630	6342
500	34.5 x 12.47	277 / 480 Y	1.67%	36,121	601	035-04650	7491
750	34.5 x 12.47	277 / 480 Y	4.90%	18,425	902	035-04675	9581
1000	34.5 x 12.47	277 / 480 Y	4.68%	25,701	1,203	035-04690	13813
1500	34.5 x 12.47	277 / 480 Y	5.11%	35,294	1,804	035-04695	16852
2500	34.5 x 12.47	277 / 480 Y	5.17%	58,208	3,007	035-04696	20222

OUC 1-Φ PADMOUNT TRANSFORMER DATA

	COCT & LADINGOINT HIGHISTORINER DATA										
	15 KV CLASS										
KVA KV/Φ - Pri.	KV/Φ - Pri.	Volt - Sec.	Impedence	Fault Current	Full-Load	Stock #	Approx.				
KVA	κν/ψ - ΡΠ.	voit - sec.	(Max Fault)	(Max Amps)	Current		Weight (lbs)				
25	7.2	120 / 240 V	1.51%	13,779	208	026-01x02	801				
50	7.2	120 / 240 V	1.82%	22,919	417	026-01x05	971				
100	7.2	120 / 240 V	1.49%	55,779	833	026-01x10	1468				
167	7.2	120 / 240 V	2.05%	67,820	1,392	026-01x16	1776				
25	7.2	240 / 480 V	1.68%	6,189	104	026-02802	963				

	25 KV CLASS										
KVA	KV/Φ - Pri.	Volt - Sec.	Impedence (Max Fault)	Fault Current (Max Amps)	Full-Load Current	Stock #	Approx. Weight (lbs)				
25	14.4	120 / 240 V	1.85%	11,292	208	026-51x02	875				
50	14.4	120 / 240 V	1.74%	23,988	417	026-51x05	1032				
100	14.4	120 / 240 V	1.54%	54,148	833	026-51x10	1421				
167	14.4	120 / 240 V	1.66%	84,038	1,392	026-51x16	1973				
25	14.4	240 / 480 V	1.94%	5,383	104	026-52x02	881				

	35 KV CLASS (Dual Voltage)										
KVA	VA KV/Φ - Pri.	Volt - Sec.	Impedence	Fault Current	Full-Load	Stock #	Approx.				
KVA	κν/ψ - Ρπ.	voit - sec.	(Max Fault)	(Max Amps)	Current	Stock #	Weight (lbs)				
25	19.9 x 7.2	120 / 240 V	1.49%	14,029	208	033-01x02	1257				
50	19.9 x 7.2	120 / 240 V	1.86%	22,401	417	033-01x05	1489				
100	19.9 x 7.2	120 / 240 V	1.45%	57,511	833	033-01x10	2741				
167	19.9 x 7.2	120 / 240 V	3.83%	36,298	1,392	033-01x16	3065				
50	19.9 x 7.2	240 / 480 V	1.84%	11,347	208	033-02805	1547				
167	19.9 x 7.2	240 / 480 V	1.51%	46,082	696	033-02816	2500				

NOTE: "x" in the sixth digit-place of stock number represents material variance - no change in fault currents

OUC 1-Φ POLE-MOUNT TRANSFORMER DATA

				15 KV CLASS			
KVA	KV/Φ - Pri.	Volt - Sec.	Impedence (Max Fault)	Fault Current (Max Amps)	Full-Load Current	Stock #	Approx. Weight (lbs)
15	7.2	120 / 240 V	2.16%	5,787	125	025-11001	235
25	7.2	120 / 240 V	2.61%	7,982	208	025-11002	296
50	7.2	120 / 240 V	1.62%	25,720	417	025-11005	573
100	7.2	120 / 240 V	2.07%	40,258	833	025-11010	1078
167	7.2	120 / 240 V	2.34%	59,473	1,392	025-11016	1500
25	7.2	240 / 480 V	1.89%	5,511	104	025-12002	353
50	7.2	240 / 480 V	1.44%	14,468	208	025-12005	364
100	7.2	240 / 480 V	2.07%	20,129	417	025-12010	1007
250	7.2	240 / 480 V	1.80%	57,870	1,042	025-12025	1814
25	7.2	277 V	2.07%	4,360	90	025-14002	339
100	7.2	277 V	2.34%	15,428	361	025-14010	972
167	7.2	277 V	1.80%	33,494	603	025-14016	1153
250	7.2	277 V	2.43%	37,141	903	025-14025	1845

				25 KV CLASS			
KVA	KV/Φ - Pri.	Volt - Sec.	Impedence (Max Fault)	Fault Current (Max Amps)	Full-Load Current	Stock #	Approx. Weight (lbs)
15	14.4	120 / 240 V	1.26%	9,921	125	025-51001	280
25	14.4	120 / 240 V	2.61%	7,982	208	025-51002	327
50	14.4	120 / 240 V	1.98%	21,044	417	025-51005	590
100	14.4	120 / 240 V	1.71%	48,733	833	025-51010	1046
15	14.4	240 / 480 V	1.35%	4,630	63	025-52001	250
100	14.4	240 / 480 V	1.90%	21,930	417	025-52010	1160
25	14.4	277 V	2.20%	4,102	90	025-54002	380
50	14.4	277 V	2.16%	8,357	181	025-54005	618
100	14.4	277 V	1.71%	21,112	361	025-54010	1154

	35 KV CLASS (Dual Voltage)									
KVA	KV/Φ - Pri.	Volt - Sec.	Impedence (Max Fault)	Fault Current (Max Amps)	Full-Load Current	Stock #	Approx. Weight (lbs)			
25	19.9 X 7.2	120 / 240 V	1.62%	14,289	208	031-11002	617			
50	19.9 X 7.2	120 / 240 V	1.53%	27,233	417	031-11005	762			
100	19.9 X 7.2	120 / 240 V	1.98%	46,764	833	031-11010	1272			
167	19.9 X 7.2	120 / 240 V	2.16%	71,588	1,392	031-11016	2362			
50	19.9 X 7.2	277 V	1.89%	10,612	181	031-14005	609			
100	19.9 X 7.2	277 V	1.62%	22,285	361	031-14010	1357			
167	19.9 X 7.2	277 V	2.34%	28,627	603	031-14016	1509			



Scan QR and link to: Electric Service & Digital Meter Installation Requirements handbook



ORLANDO UTILITIES COMMISSION

Reliable Plaza 100 West Anderson Street Orlando, FL 32801

FIND US ONLINE

www.ouc.com/business/development-services/development-forms-documents