

## VILLAGE OF MONTPELIER ELECTRIC DEPARTMENT

### General Specifications for Residential Overhead and Underground Electric Services

The following specifications shall supplement the Village of Montpelier Electric Department General Rules and Regulations.

1. The following describes the installation of a residential meter base positioned on the side of a dwelling. All work shall be done in accordance with the latest National Electrical Code (NEC) and any applicable local, state or federal regulations in existence at the time of installation. All work shall be in accordance with the attached specifications and drawings and shall be subject to the acceptance of the Electric Superintendent or his authorized representative of the Village of Montpelier's Electric Department.
2. All new installations and changes to an existing electrical service shall require a Residential Electric Permit from the Village of Montpelier. To obtain a Residential Electric Permit, the owner and/or electrical contractor shall hold a pre-construction meeting with the Electric Superintendent or his authorized representative of the Electric Department to determine the proper installation location and method. ***To schedule a meeting please call the Electric Department at 419-485-5576.***
3. The owner or electrical contractor shall be responsible for calling the Ohio Utilities Protection System (OUPS) at 1-800-362-2764 before any digging or ground rods are installed.
4. The Village of Montpelier reserves the right **NOT** to connect the residential electric service if the Electric Superintendent or his authorized representative considers the installation not to be installed according to the required specifications. The Village of Montpelier also reserves the right to determine unsafe electric services and may terminate those services at any time.
5. All residential electric services shall be a minimum of 100 Amp.
6. For the safety of the Village of Montpelier employees and Customers, all electrical services 400 Amp and lower shall have a properly installed disconnect.
7. All meter socket bases with disconnect breaker shall be purchased from the Village of Montpelier Electric Department along with the Residential Electric Permit.
8. Meter socket bases with disconnect breaker shall be solidly secured to the side of the dwelling and shall be 4'-6" minimum to 6' maximum from final grade.
9. Meter socket bases shall **NOT** be installed inside porches (screened or open) or inside any carport or garage.
10. If there is more than one meter to the premises, each meter shall be permanently identified by the Customer to properly identify that portion of the

premises being served. Metal stamping or a metal tag is required. **Painted identification is NOT acceptable.**

11. Overhead and underground meter socket base locations and the underground trench paths shall be specified by the Electric Superintendent or his authorized representative.
12. The Customer shall install, own and maintain the service entrance equipment in accordance with applicable rules and requirements.
13. The Village of Montpelier's service drop will terminate at the first point of contact on the building or structure supporting the service equipment. The point of service drop attachment on the building shall be located on the exterior wall facing the direction determined by the Electric Superintendent or his authorized representative.
14. Drip loop or point of attachment (whichever is lowest) shall be at least 13'0" from the final grade on overhead services.
15. Customer's point of attachment must be strong enough to support the service drop (typically 600 pounds tension) and high enough to provide NESC Code clearance for the service drop and drip loop above the underlying area, including the roof.
16. Customer shall install a house knob (provided by utility) at the point of attachment.
17. No foreign attachments such as cable TV wire, phone wire, fiber wire, etc. shall be permitted on a service riser conduit.
18. Conduit shall be installed on the entire entrance conductor from the meter base into the dwelling, including an entrance sleeve through the wall of the dwelling. All fittings or hardware shall be of weather/corrosion resistant materials, and must be in good condition.
19. Customer shall leave a minimum of 36" of wire from the weather head, and the neutral shall be marked with white tape to differentiate it from other current carrying conductors.
20. Two ground rods of copper weld 5/8" x 8' shall both be driven into the ground to a point where the ground rod clamps are below surface grade. **Galvanized ground rods are NOT permissible.**
21. The grounding conductor to the ground rods shall be determined by size of service. The conductor shall be continuous from the ground lug of the meter to the ground rods. The conductor shall be securely strapped or stapled to the building to protect it from mechanical injury. Otherwise it shall be installed in 1/2" conduit and securely fastened to the wall.

**Approved by Motion by the Village of Montpelier Council**

*October 11, 2011*

Date

*Patricia S. Lucas*

Village Manager

# Montpelier Electric Dept. Underground Electrical Service Installation

**The location of the service must be approved by the Utility before work is started. All meters/disconnects shall be located so as to be exposed and accessible from the outside.**

\* Please give 24 to 48 hours notices unless it is an emergency.

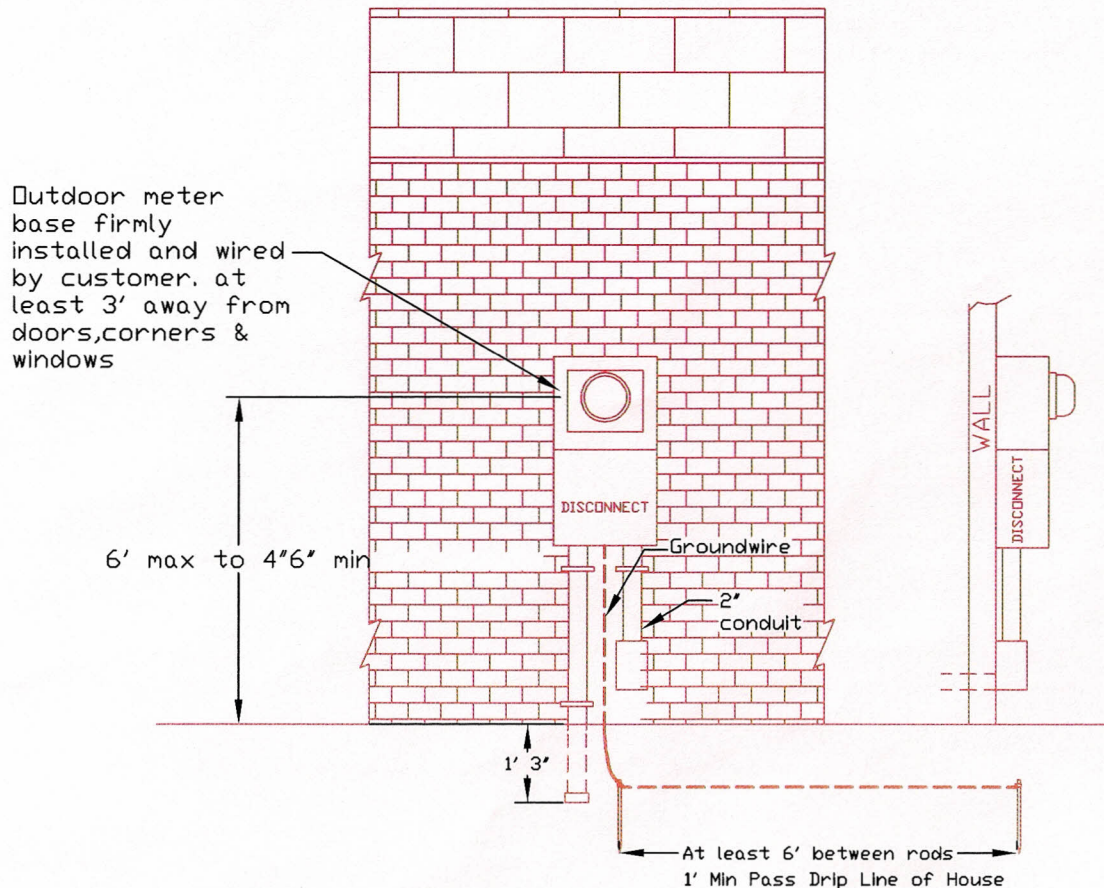
Service Capacity (AMP)		
	100 AMP	200 AMP
Copper Wire	#2	3/0
Aluminum Wire	#2	4/0
Ground Wire	#6	#4

**Contractor must follow the latest edition of the National Electric Code (NEC).**

Note: Neutral Wire Shall be identified by White Tape on Each End.

3-Wire from utility source to meter base shall be installed in an electrical conduit  
4-Wire from disconnect to house electrical panel

\* All material can be quoted and purchased from Electric Department



# Montpelier Electric Dept. Overhead Electrical Service Installation

**The location of the service must be approved by the Utility before work is started. All meters/disconnects shall be located so as to be exposed and accessible from the outside.**

\* Please give 24 to 48 hours notices unless it is an emergency.

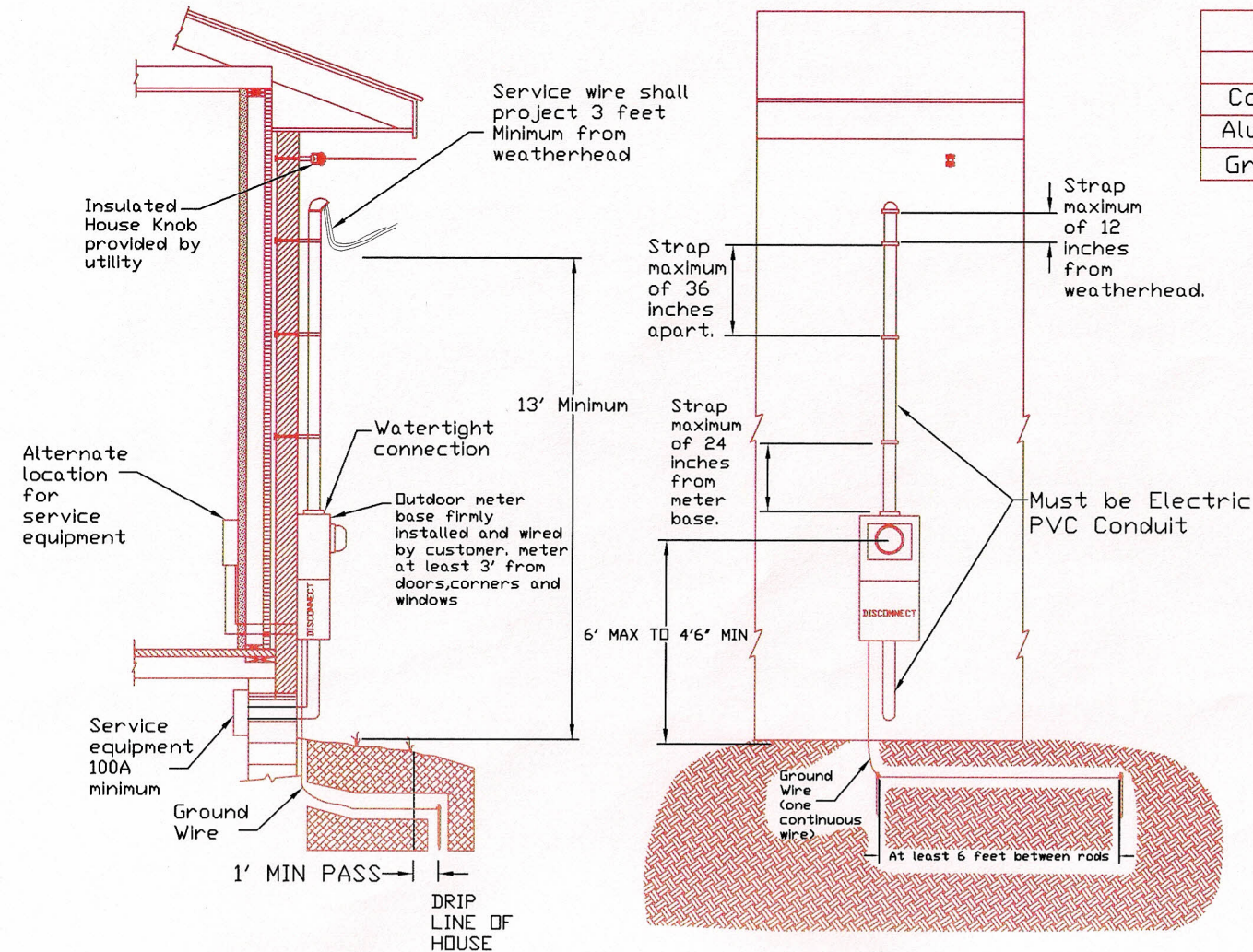
Service Capacity (AMP)		
	100 AMP	200 AMP
Copper Wire	#2	3/0
Aluminum Wire	#2	4/0
Ground Wire	#6	#4

**Contractor must follow the latest edition of the National Electric Code (NEC).**

Note: Neutral wire shall be identified by White Tape on Each End.

3-Wire from weatherhead to meter base  
4-Wire from disconnect to house electrical panel

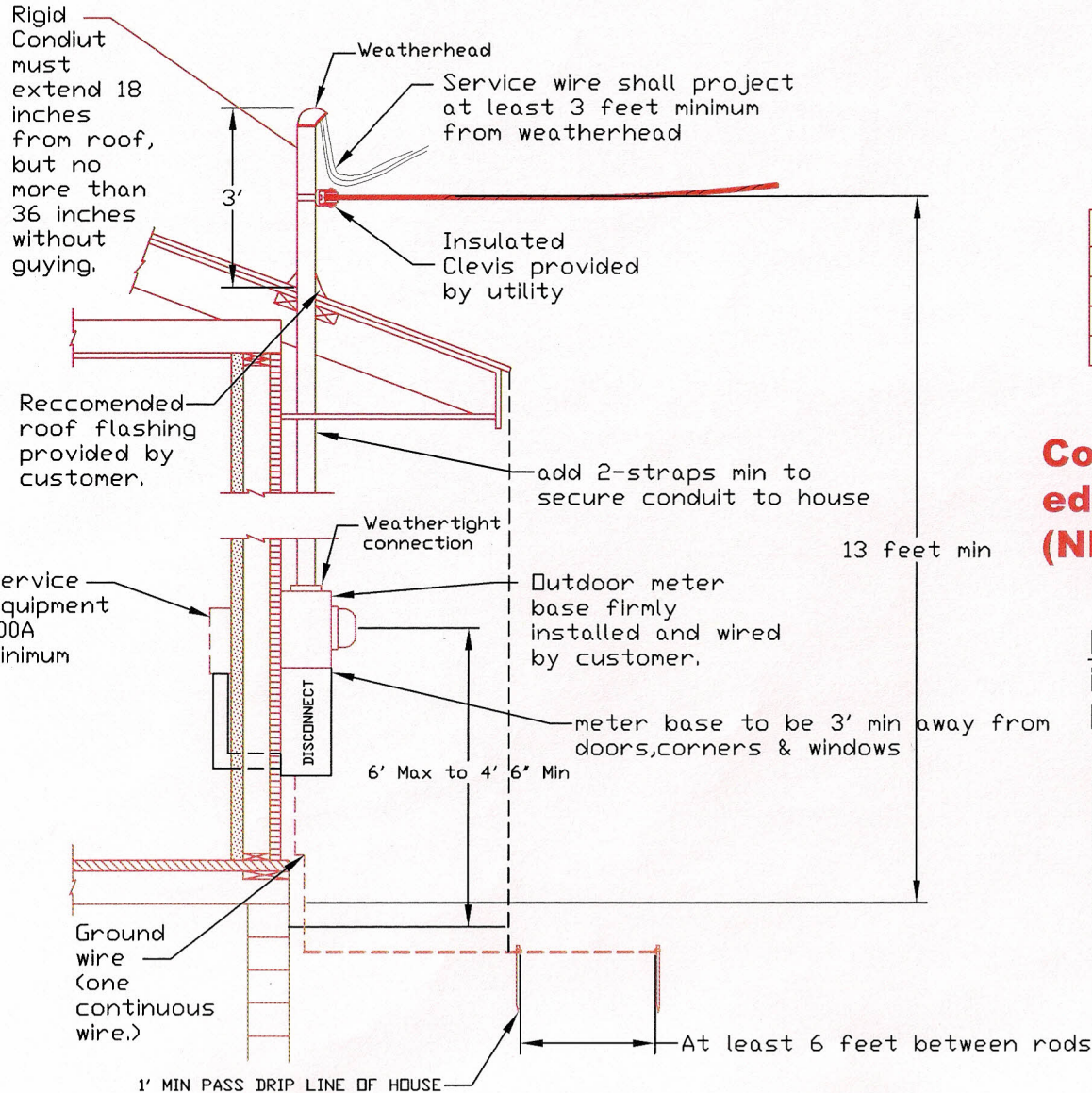
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# Montpelier Electric Dept. Overhead Electrical Service Installation

**The location of the service must be approved by the Utility before work is started. All meters/disconnects shall be located so as to be exposed and accessible from the outside.**

\* Please give 24 to 48 hours notices unless it is an emergency.



Overhead Conduit Size	
100A	2" Rigid steel
200A	2" Rigid steel

Service Capacity (AMP)		
	100 AMP	200 AMP
Copper Wire	#2	3/0
Aluminum Wire	#2	4/0
Ground Wire	#6	#4

**Contractor must follow the latest edition of the National Electric Code (NEC).**

Note: Neutral wire Shall be indentified by White Tape on Each End.

3-Wire from weatherhead to meter base  
4-Wire from disconnect to house electrical panel

\* All material can be quoted and purchased from Electric Department

# RESIDENTIAL ELECTRIC PERMIT (REP)

*Village of Montpelier*

211 North Jonesville Street, P.O. Box 148

Montpelier, OH 43543

Phone: 419-485-5543 Fax: 419-485-4947

Web Page <http://www.montpelieroh.net/>

Address:
Date:
Legal Owner:
Address (if different than above):
Electrical Contractor:
Address:
Telephone Number:
Size of New Service (amps):
Location of New Service:

<input type="checkbox"/>	Village Residential Wiring Permit Fee:	\$20.00	<input type="checkbox"/>
<input type="checkbox"/>	100 Amp Meter Base w/Disconnect :	\$140.00	<input type="checkbox"/>
<input type="checkbox"/>	200 Amp Meter Base w/Disconnect:	\$140.00	<input type="checkbox"/>
<input type="checkbox"/>	Temporary Electric Service Hook Up:	\$100.00	<input type="checkbox"/>
<input type="checkbox"/>	Initial Service Connection:	\$50.00	<input type="checkbox"/>
	(Location, Inspection of Service Entrance, Etc.)		
<input type="checkbox"/>	Underground Electric Service		<input type="checkbox"/>
	(\$100.00 Base Fee plus \$1.75/foot Trenching Fee)		
	TOTAL FEE COSTS:		<input type="checkbox"/>
	ADDITIONAL MATERIAL COST (see attached):		<input type="checkbox"/>
	TOTAL:		<input type="checkbox"/>

## Additional Notes/Information:

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*(Please note all prices are subject to change without notice.)*

**PLEASE MAKE CHECKS PAYABLE TO: VILLAGE OF MONTPELIER**  
For 400 amp and Multiple Meter Sets see Electric Superintendent for pricing.

<input type="text"/>	<input type="text"/>
VOM Approval Signature	Customer/Contractor Signature

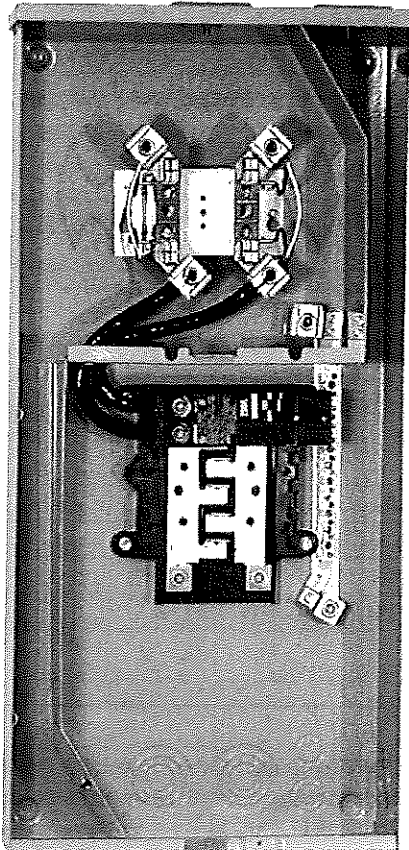
*(Office Use Only)*

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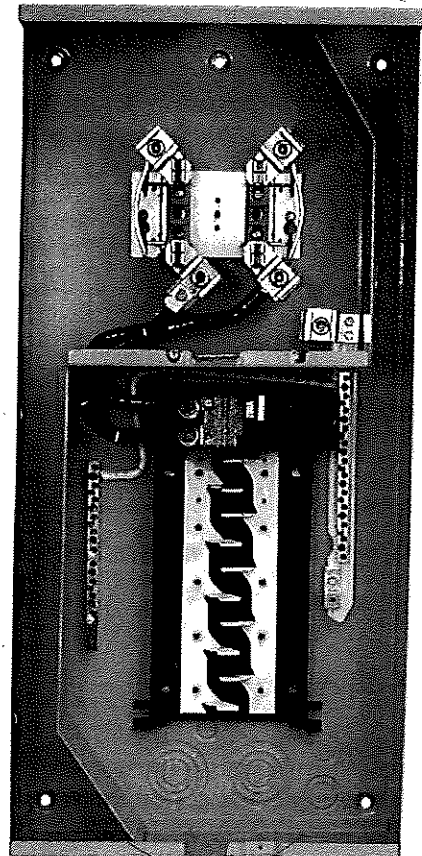
Account Number:                      Engineering/ElecDoc [Wiring Permit 2011.xls](#)                      1/13/2012

# Meter Main with Load Center

U5168 & U5268 Series | 200 Amp | 4 Terminal



U5168-XTL-200



U5268-XTL-200

## Specifications & Features

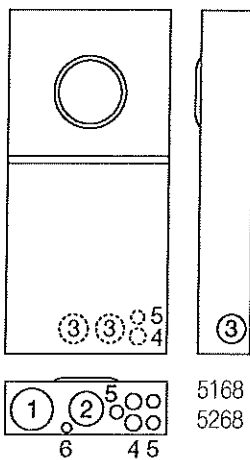
- Listed UL 67 as "suitable only for use as service equipment" – file number E32628 Series 1800 MS.
- 200 amp continuous ringless meter socket with or without horn type bypass. Accepts ANSI type C12.10 watt-hour meters. Overall ampere rating limited to main circuit breaker rating.
- For use on 120/240 volt single phase applications.
- Short circuit withstand rating 22K AIC. See wiring diagrams on back page for series rating compatibility.
- Type 3R enclosure constructed with G90 galvanized steel or 5052 aluminum.
- Light gray polyester powder coat finish.
- Service entrance overhead or underground. OH has up to 2-1/2" hub opening and UG has up to 3" knockout.
- Load exit overhead or underground.
- Wire terminations accept copper or aluminum conductors: Line & Neutral: # 6-350; Ground: #14-2/0
- Main circuit breaker: 100 amp type Q small frame, 150 & 200 amp type QN large frame.
- Branch circuit breaker ground and neutral: See wiring diagram on back page.
- Interior: 8 or 20 space copper buss accepts most manufacturers plug-in type circuit breakers. See wiring diagrams for acceptable manufacturers and models on back page.
- #6-350 kcmil sub-feed lugs provided on 8 circuit interior. Not available on 20 circuit interior.



Milbank Manufacturing  
4801 Deramus Avenue | Kansas City, MO 64120  
www.milbankmfg.com | 877.483.5314

**MILBANK**

Accessories & Replacement Parts



5168  
5268

K5T Fifth Terminal	1124651 Meter Front	1122710 Lower Front	QN2200RH, Q2100H Circuit Breakers
1122660 (8 cir.) 1127108 (20 cir.) Interior	1122705 (8 cir.) 1124562 (20 cir.) Dead Front	K5815* (QN w/Q), K5820* (QN w/QN), K5830 (Q w/Q) Interlock Kits <i>*only compatible with Siemens circuit breakers</i>	

4 Terminal — Meter Mains — 1Ø3W — Ringless

Catalog Number	Circuits	Amps	Service	Hub	Connectors CU/AL - Line	Dimensions			Knockouts					
						D"	W"	H"	1	2	3	4	5	6
U5168-XTL-100	8	100	OH/UG	C.P.	#6-350	4½	14¾	30	3	2½	2	1	½,¾	¼,½
U5168-XTL-150	8	150	OH/UG	C.P.	#6-350	4½	14¾	30	3	2½	2	1	½,¾	¼,½
U5168-XTL-200	8	200	OH/UG	C.P.	#6-350	4½	14¾	30	3	2½	2	1	½,¾	¼,½
U5268-XTL-150	20	150	OH/UG	C.P.	#6-350	4½	14¾	30	3	2½	2	1	½,¾	¼,½
U5268-XTL-200	20	200	OH/UG	C.P.	#6-350	4½	14¾	30	3	2½	2	1	½,¾	¼,½

Notes

- Bypass: Horn bypass is available, add suffix **-KK** to catalog number.
- Fifth Terminal: For field installed fifth terminal, order **K5T**. For factory installed, add suffix **-5T** to catalog number.
- Interlock Kit: For generator auxiliary circuit breaker interlock, order **K5815** for large QN with small frame **Q**; order **K5820** for large frame QN with large frame **QN**; order **K5830** for small frame **Q** to small frame **Q**.
- Sub Feed Lugs: #6-350 sub feed lugs provided on 8 circuit interior. **Not available on 20 circuit interior.**

U5168 Series — 200 Amp 8 Circuit Interior

ENCLOSED PANELBOARD  
SERIES 1800MS  
200 AMP 1 Ø 3 WIRE 120/240 VAC  
TYPE 3R ENCLOSURE  
METER SOCKET RATED 200 AMP  
CONTINUOUS

ENCLOSED PANELBOARD  
SERIES 1800MS  
200 AMP 1 Ø 3 WIRE 120/240 VAC  
TYPE 3R ENCLOSURE  
METER SOCKET RATED 200 AMP  
CONTINUOUS

SUITABLE ONLY FOR USE AS SERVICE EQUIPMENT.

THE MAXIMUM SHORT CIRCUIT CURRENT RATING OF THIS DEVICE IS 22,000 RMS SYMMETRIC 120/240 VAC IN ACCORDANCE WITH THE TABLE BELOW. THE SHORT CIRCUIT CURRENT RATING IS LIMITED TO THE LOWEST INTERRUPTING RATING OF ANY INSTALLED CIRCUIT BREAKER OR COMBINATION SERIES CONNECTED CIRCUIT BREAKER. WAIT HOUR METER NOT INSTALLED IN SHORT CIRCUIT CURRENT RATING.

RATING MVA	CIRCUIT BREAKERS
15	MAIN BREAKER: SIEMENS TYPE QNR, QNR-BRANCH BREAKERS: SIEMENS OP, GPF, CUTLER-HAMMER ER, BRV, HOP, CRWV, GPF, GPF-GF, SQUARE D HOURLINE, G.E. (50 AMP MAX.) THOL, THOL, THOL-GF, THOL-GF
22	MAIN BREAKER: SIEMENS TYPE QNBR, BRANCH BREAKERS: SIEMENS TYPE OP, GPF

LINE & NEUTRAL TERMINALS: #2 AWG-150 LB-IN. AL-CU, TORQUE TO 50 LB-IN. MAX. LOAD TERMINAL AS SPECIFIED ON CIRCUIT BREAKERS (15 MAXIMUM).  
COMBINATION BRANCH NEUTRAL & GROUND TERMINAL:  
SMALL HOLE: #14-#6 AWG CU OR #12-#8 AWG AL  
#14-#10 AWG 20 LB-IN, #8 AWG 25 LB-IN, #6 AWG 35 LB-IN  
LARGE HOLE: #14-#10 AWG CU OR #12-#8 AWG AL  
#14-#10 AWG 35 LB-IN, #8 AWG 45 LB-IN, #6 AWG 45 LB-IN  
FEED THROUGH LUGS:  
#6 AWG - 150 LB-IN AL-CU, TORQUE TO 50 LB-IN.  
#14-#10 AWG TORQUE TO 50 LB-IN.  
ALL UNUSED BRANCH NEUTRAL TERMINALS MAY BE USED AS EQUIPMENT GROUNDING WIRE TERMINALS.  
FEED THROUGH LUGS:  
#6 AWG - 150 LB-IN AL-CU, TORQUE TO 50 LB-IN.  
#14-#10 AWG TORQUE TO 50 LB-IN.

TO RESET TRIPPED BREAKER, FIRST PUSH HANDLE TO "OFF" POSITION, AND THEN TO "ON" POSITION.

CONDUIT HUB OPENING MUST BE FITTED WITH ONE OF THESE APPROVED DEVICES:

CONDUIT SIZE	1"	1 1/4"	1 1/2"	2"	2 1/2"	CLOSING PLATE
CATALOG NO.	#7514	#7516	#7517	#7518	#7519	#7521

WIRE CONDUCTOR INSULATION: SEE CIRCUIT BREAKER MARKING. IF NO MARKING USE 75°C RATED CONDUCTORS.

MILBANK MFG. CO. GENERAL OFFICES, K.C. MO.      04-04-11 PLANT # XX      1124259 REV. B

U5268 Series — 200 Amp 20 Circuit Interior

ENCLOSED PANELBOARD  
SERIES 1800MS  
200 AMP 1 Ø 3 WIRE 120/240 VAC  
TYPE 3R ENCLOSURE  
METER SOCKET RATED 200 AMP  
CONTINUOUS

ENCLOSED PANELBOARD  
SERIES 1800MS  
200 AMP 1 Ø 3 WIRE 120/240 VAC  
TYPE 3R ENCLOSURE  
METER SOCKET RATED 200 AMP  
CONTINUOUS

SUITABLE ONLY FOR USE AS SERVICE EQUIPMENT.

THE MAXIMUM SHORT CIRCUIT CURRENT RATING OF THIS DEVICE IS 22,000 RMS SYMMETRIC 120/240 VAC IN ACCORDANCE WITH THE TABLE BELOW. THE SHORT CIRCUIT CURRENT RATING IS LIMITED TO THE LOWEST INTERRUPTING RATING OF ANY INSTALLED CIRCUIT BREAKER OR COMBINATION SERIES CONNECTED CIRCUIT BREAKER. WAIT HOUR METER NOT INSTALLED IN SHORT CIRCUIT CURRENT RATING.

RATING MVA	CIRCUIT BREAKERS
10	MAIN BREAKER: SIEMENS TYPE QNR, BRANCH BREAKERS: SIEMENS OP, GPF, CUTLER-HAMMER ER, BRV, HOP, CRWV, GPF, GPF-GF, SQUARE D HOURLINE, G.E. (50 AMP MAX.) THOL, THOL, THOL-GF, THOL-GF
22	MAIN BREAKER: SIEMENS TYPE QNBR, BRANCH BREAKERS: SIEMENS TYPE OP, GPF

LINE & NEUTRAL TERMINALS: #2 AWG-150 LB-IN. AL-CU, TORQUE TO 50 LB-IN. MAX. LOAD TERMINAL AS SPECIFIED ON CIRCUIT BREAKERS (20 MAXIMUM).  
COMBINATION BRANCH NEUTRAL & GROUND TERMINAL:  
SMALL HOLE: #14-#6 AWG CU OR #12-#8 AWG AL  
#14-#10 AWG 20 LB-IN, #8 AWG 25 LB-IN, #6 AWG 35 LB-IN  
LARGE HOLE: #14-#10 AWG CU OR #12-#8 AWG AL  
#14-#10 AWG 35 LB-IN, #8 AWG 45 LB-IN, #6 AWG 45 LB-IN  
FEED THROUGH LUGS:  
#6 AWG - 150 LB-IN AL-CU, TORQUE TO 50 LB-IN.  
#14-#10 AWG TORQUE TO 50 LB-IN.

TO RESET TRIPPED BREAKER, FIRST PUSH HANDLE TO "OFF" POSITION, AND THEN TO "ON" POSITION.

CONDUIT HUB OPENING MUST BE FITTED WITH ONE OF THESE APPROVED DEVICES:

CONDUIT SIZE	1"	1 1/4"	1 1/2"	2"	2 1/2"	CLOSING PLATE
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WIRE CONDUCTOR INSULATION: SEE CIRCUIT BREAKER MARKING. IF NO MARKING USE 75°C RATED CONDUCTORS.

MILBANK MFG. CO. GENERAL OFFICES K.C. MO.      PLANT # (SEE CHART)      XXXXXXXX

Milbank Manufacturing  
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www.milbankmfg.com | 877.483.5314