

MILBANK[®]
ENERGY AT WORK



CUIVRE RIVER

ELECTRIC COOPERATIVE

Product Catalog



Meter mounting equipment
approved for use within the
Cuivre-River Electric
Cooperative service area.

Milbank Overview

Energy At Work Since 1927

Milbank designs and manufactures electrical solutions that move and manage power for the residential, commercial, industrial, utility and transportation sectors. With nearly a century of expertise in electrical engineering design and manufacturing, Milbank's portfolio includes metering equipment, enclosures and power distribution and controls equipment. Founded in 1927, Milbank is a family-owned, American manufacturer headquartered in Kansas City, Mo. For more information, please visit milbankworks.com.



Metering

Milbank has been a market leader in electrical metering equipment, setting the standard in quality, for 95 years and counting. There are hundreds of available configurations, including a range of sizes as well as various knockout, terminals and bypass options. Products also have a variety of selections for hubs, locks and connectors. Milbank has the socket you need with thousands of active products to meet your utility's requirements.



Enclosures

Milbank's line of enclosures include commercial junction boxes, panel mount enclosures, transformer cabinets, wireways and troughs. Enclosures are designed to meet or exceed industry standards. Each one is constructed with high-quality materials and built with superior craftsmanship. Each unit is engineered to protect controls and equipment from dust, dirt and other harmful elements, based on various NEMA ratings.



Power Distribution & Controls

Milbank doesn't just build empty enclosures. We design and deliver complete power distribution solutions. Our custom power distribution and control equipment is engineered and built to your exact specifications. Milbank systems are an attractive, secure, easy to install, and cost-effective option. These units can replace unsightly or insufficient strut and backboard structures when underground remote site power distribution and control equipment is required.



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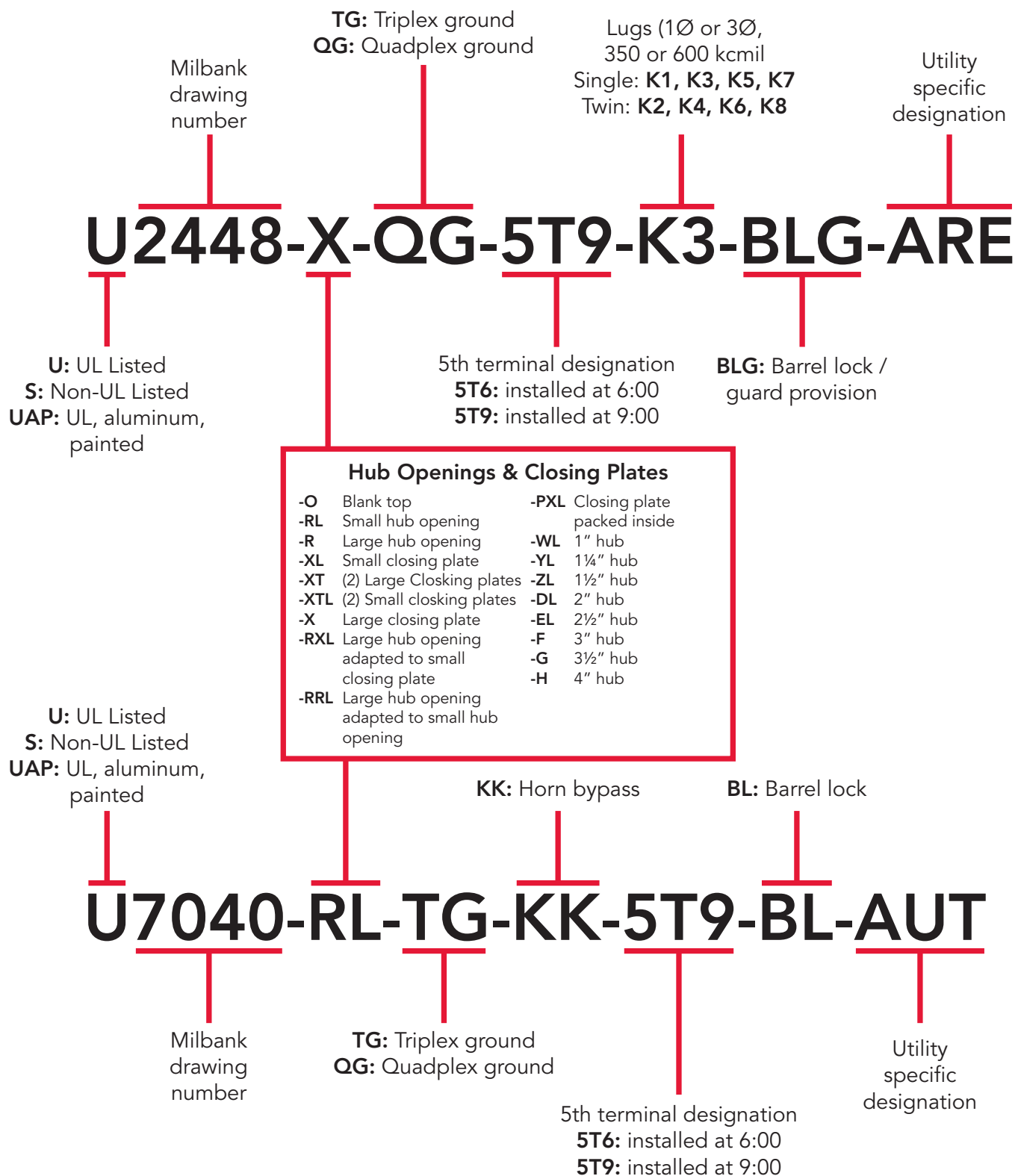
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Catalog Number Logic

How Our Product Catalog Numbers are Derived



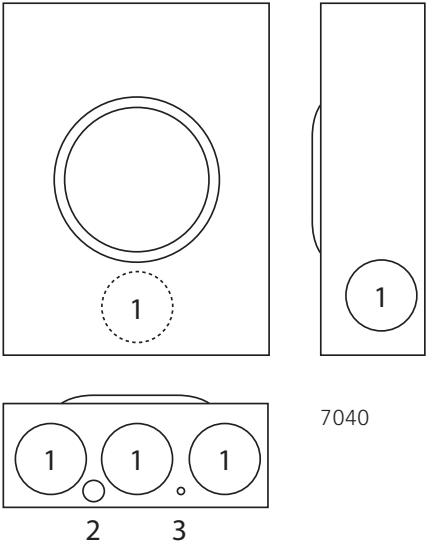
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Single Position

200 Amps | 4 Terminals | Ringless | 600V



U7040-XL-QG-KK



7040

4 Terminals | Single Position | Ringless | 1Ø3W

Catalog Number	Service	Hub	Connectors CU/AL		Bypass	Dimensions			Knockouts			
			Line	Load		D"	W"	H"	1	2	3	4
U7040-XL-QG-KK	OH/UG	C.P.	#6-350	#6-350	Horn	4 1/8	11	14 5/8	2 1/2	1/4, 1/2	1/4	—

Notes

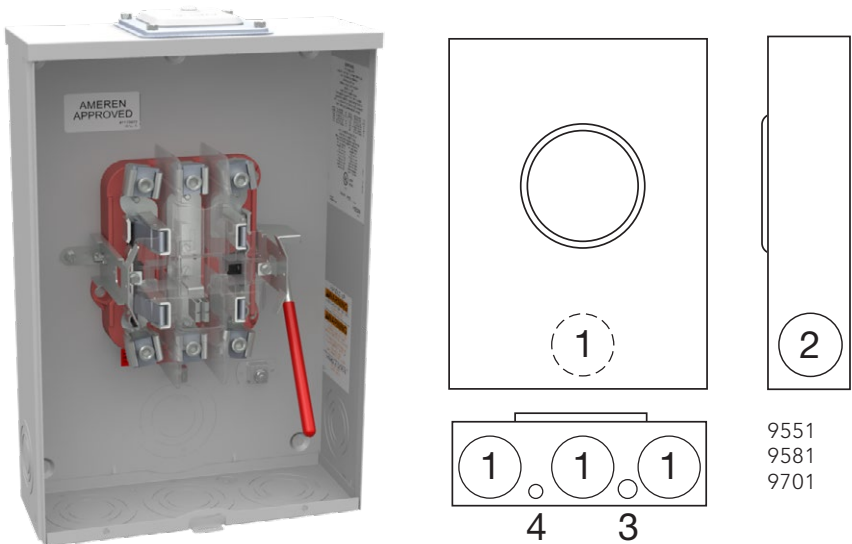
- **Hubs:** For proper hub selection, see the hub suffix chart on the accessories page.
- **Connectors:** Extruded aluminum connectors are tin plated.

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Single Position Lever Bypass

200 Amps | 5 Terminals | Ringless | 600V



U9551-RXL-QG-5T9-AMS

9551
9581
9701

200 Amps | 5 Terminals | Single Position | Ringless | 1Ø3W

Catalog Number	Service	Hub	Connectors CU/AL		Bypass	Dimensions			Knockouts			
			Line	Load		D"	W"	H"	1	2	3	4
U9550-RXL-QG-5T9-AMS	OH	H.O.	#6-350		4 ⁷ / ₈	10	18½	3	2½	¾	¼, ½	¼, ½
U9551-RXL-QG-5T9-AMS	OH/UG	C.P.	#6-350		4 ⁷ / ₈	13	19	3	2½	¼, ½	¼	¼

Notes

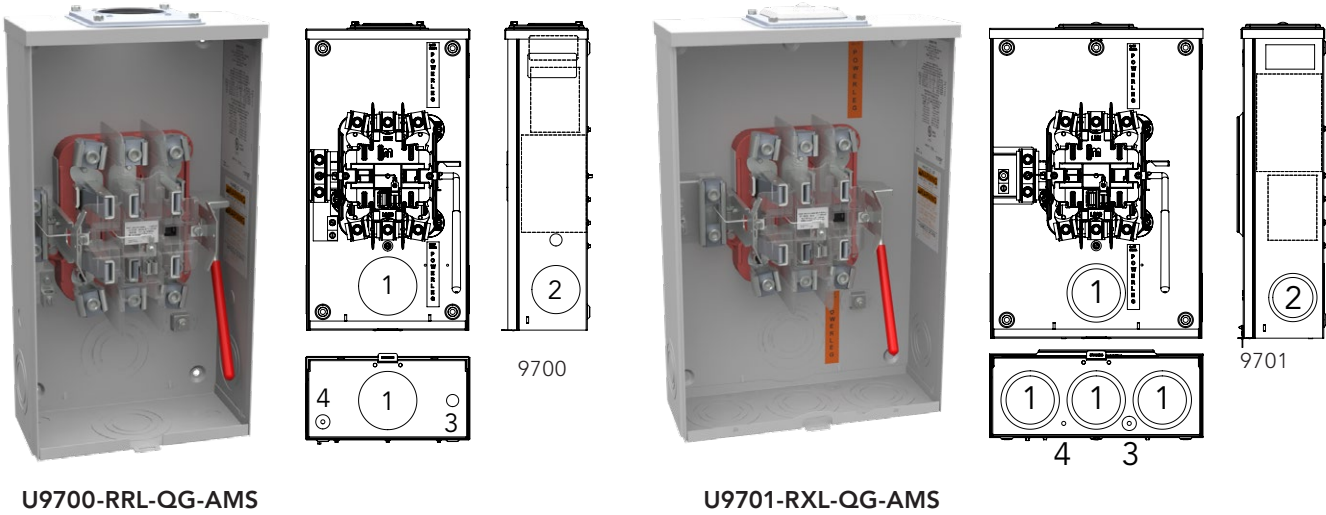
- **Hubs:** For proper hub selection, see the hub suffix chart on the accessories page.
 - **Bypass:** The lever operates bypass device and supplies clamping action to meter spades.
 - **Connectors:** Extruded aluminum connectors are tin plated.
- * For 3Ø3W, remove bonding strap on **U9551**.



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Single Position Lever Bypass

200 Amps | 7 Terminals | Ringless | 600V



200 Amps | 7 Terminals | Single Position | Ringless | 3Ø4W

Catalog Number	Service	Hub	Connectors CU/AL		Bypass	Dimensions			Knockouts			
			Line	Load		D"	W"	H"	1	2	3	4
U9700-RRL-QG-AMS	OH	H.O.	#6-350	#6-350	Lever	4 ⁷ / ₈	10	18 ¹ / ₂	3	2 ¹ / ₂	³ / ₄	1 ¹ / ₄ , 1 ¹ / ₂
U9701-RXL-QG-AMS	OH/UG	C.P.	#6-350	#6-350	Lever	4 ⁷ / ₈	13	19	3	2 ¹ / ₂	1 ¹ / ₄ , 1 ¹ / ₂	1 ¹ / ₄

Notes

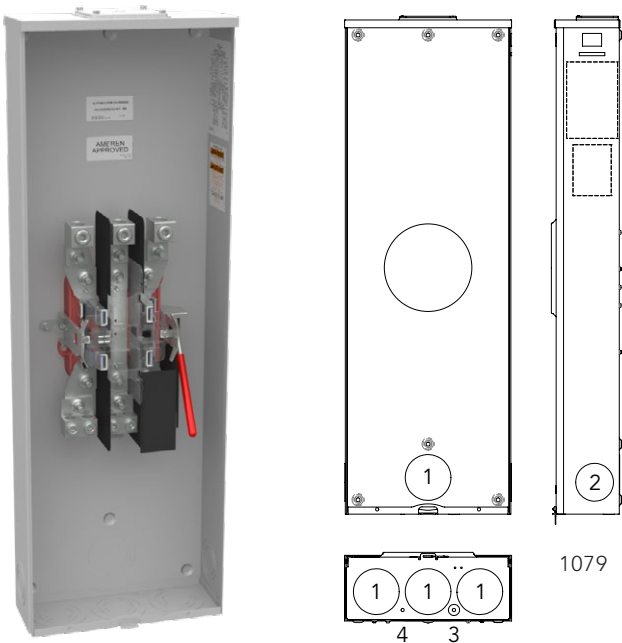
- **Hubs:** For proper hub selection, see the hub suffix chart on the accessories page.
- **Bypass:** The lever operates bypass device and supplies clamping action to meter spades.
- **Connectors:** Extruded aluminum connectors are tin plated.

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Single Position Lever Bypass

320 Amps | 5 Terminals | Ringless | 600V



U1079-X-QG-K3-K2-5T9-AMS

320 Amps | 5 Terminals | Single Position | Ringless | 1Ø3W

Catalog Number	Service	Hub	Connectors CU/AL		Dimensions			Knockouts			
			Line	Load	D"	W"	H"	1	2	3	4
U1079-X-QG-K3-K2-5T9-AMS	OH/UG	C.P.	#1-600 or (2) #2-250	Twin #350	4 ⁷ / ₈	13	38 ³ / ₄	3	2 ¹ / ₂	1 ¹ / ₄ , 1 ¹ / ₂	1 ¹ / ₄

Notes

- **Bypass:** The lever operates bypass device and supplies clamping action to meter spades.
- * For 3Ø3W, remove bonding strap on **U1079**.



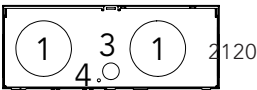
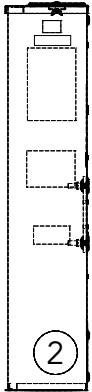
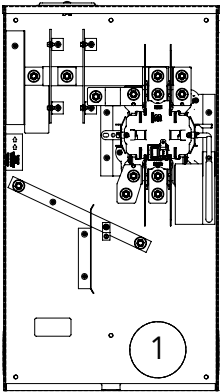
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Single Position Lever Bypass

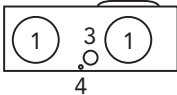
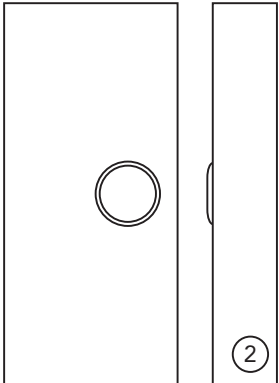
320 Amps | 7 Terminals | Ringless | 600V



U2120-X



U4911-X-QG-BL-AMS



4911

320 Amps | 7 Terminals | Single Position | Ringless | 3Ø4W

Catalog Number	Service	Hub	Connectors CU/AL		Bypass	Dimensions			Knockouts			
			Line	Load		D"	W"	H"	1	2	3	4
U2120-X	OH/UG	C.P.	3/8" Studs	3/8" Studs	Lever	6½	17¾	31¾	3	2½	¾	¼, ½
U4911-X-QG-BL-AMS	OH/UG	C.P.	3/8" Studs	3/8" Studs	Lever	6½	17½	38¾	4	3	1	¼

Notes

- **Hubs:** For proper hub selection, see the hub suffix chart on the accessories page.
- **Bypass:** The lever operates bypass device and supplies clamping action to meter spades.

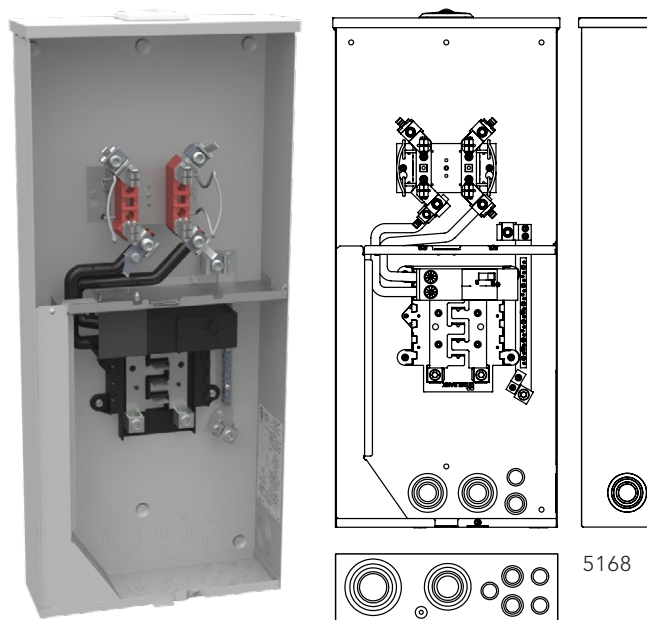
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1 □

Meter Mains with Load Center

200 Amps | 4 Terminals | Ringless | 120/240V | *NEC 2020 Compliant*



U5168-XL-200-KK-AMS

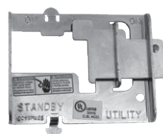
200 Amps | 4 Terminals | Meter Mains with Load Center | Ringless

Catalog Number	Service	Hub	Connectors CU/AL		Bypass	Dimensions			Knockouts					
			Line	Load		D"	W"	H"	1	2	3	4	5	6
U5168-XL-200-KK-AMS	OH/UG	C.P.	#6-350	CB	Horn	4½	14⅞	32⅜	3	2½	2	1	¾	1¼½

Notes

- **Interior:** U5168 has 8 circuit interior with feed through lugs.
- **Breakers:** The U5168 is rated 22K AIC with Milbank QNR2200H main installed. Units are also available with 150 or 175 Amps breakers—replace -200 with -150 or -175.

Generator Interlock



K5815 - large QN with small frame Q

K5820 - large frame QN with large frame QN

K5830 - small frame Q to small frame Q



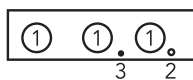
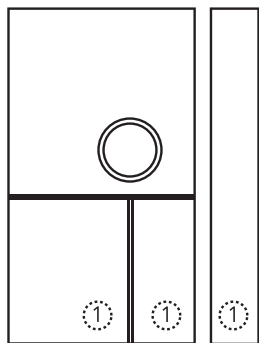
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Heavy Duty Lever Bypass Meter Mains 1 1

320 Amps | 5 Terminals | Ringless | 120/240V | *NEC 2020 Compliant*



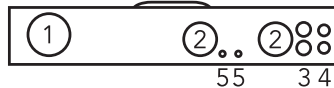
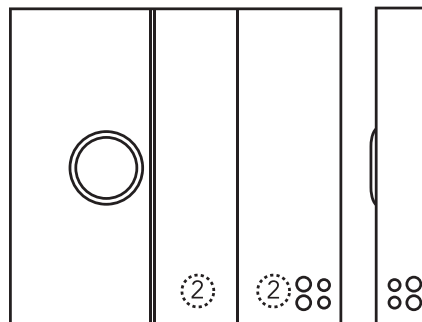
U6585-X-2/200-K3L-5T9-AMS



6585



U6602-X-2/200-K3L-5T9-AMS



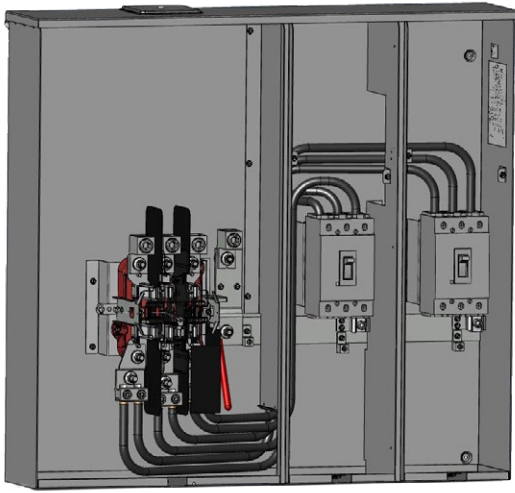
6602

320 Amps | 5 Terminals | Meter Mains | Ringless | OH/UG Service

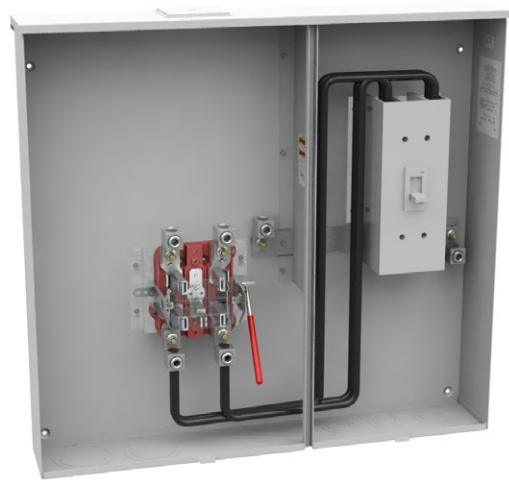
Catalog Number	Service	Hub	Branch Circuits	Connectors CU/AL		Dimensions			Knockouts				
				Line	Load	D"	W"	H"	1	2	3	4	5
U6585-X-2/200-K3L-5T9-AMS	OH/UG	C.P.	—	#4-600	1/0-300	4 $\frac{7}{8}$	20 $\frac{1}{4}$	45	3	1 $\frac{1}{4}$, 1 $\frac{1}{2}$	1 $\frac{1}{4}$	—	—
U6602-X-2/200-K3L-5T9-AMS	OH/UG	C.P.	8	#4-600	1/0-300	6	38	41	4	2 $\frac{1}{2}$	1 $\frac{1}{4}$, 1 $\frac{1}{2}$	1 $\frac{1}{4}$	—

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400 Amps | 5-7 Terminals | Single- and Three-Phase | *NEC 2020 Compliant*

U6056-X-2/200-K7L-AMS



U6227-X-400-K3L-5T9-AMS

400 Amps | 5 Terminals | Meter Mains | 1Ø3W | NEC 2020 Compliant

Catalog Number	Service	Hub	Connectors CU/AL	Dimensions			Knockouts			
			Line	D"	W"	H"	1	2	3	4
U6227-X-400-K3L-5T9-AMS	OH/UG	C.P.	#4-600 kcmil or (2) #1/0-250	6	36¼	34	4	2½	½	¼

400 Amps | 7 Terminals | Meter Mains | 3Ø4W | NEC 2020 Compliant

Catalog Number	Service	Hub	Connectors CU/AL	Dimensions			Knockouts			
			Line	D"	W"	H"	1	2	3	4
U6056-X-2/200-K7L-AMS	OH/UG	C.P.	#4-600 kcmil or (2) #1/0-250	7	36¼	34	4	2½	½	¼
U6229-X-400-K7L-AMS**	OH/UG	C.P.	#4-600 kcmil or (2) #1/0-250	6	36¼	34	4	2½	½	¼

Specifications

- **AIC Rating:** 22K AIC at 240V.
- ****300 Amps breaker:** Can be installed from the factory (upon request).
- Available while supplies last.

*Comes with two, 200 Amps 3Ø breakers



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Transformer Cabinets

400–800 Amps

13



PT48AL*
PT48AR*



CT364811-HC-AMS

*photo shown with **K5930** rack installed.
See page 13[†]*

Transformer Cabinets

Catalog Number	CT Racks [†]	Dimensions			Hinged Door
		D"	W"	H"	
CT304811-HC-AMS	A, B, G, H	11	30	48	Double
CT364811-HC-AMS	A, B, G, H	11	36	48	Double

PT Cabinets

Catalog Number	Dimensions			Knockout
	D"	W"	H"	
PT48AL	8	12	36	2½" - right side
PT48AR	8	12	36	2½" - left side

Notes

- **PT Cabinets:** PT cabinets are required on all 277 and 480 VAC installations.
- **Enclosure:** These units are rated NEMA 3R, powder coated and constructed of galvanized steel.
- **Mounting:** ¼" - 20 welded studs.
- **CT Base:** CT rated meter base and CTs provided by utility

***PT48AL** has mounting emboss on the right side to be mounted on left side of CT cabinet. **PT48AR** has mounting emboss on left side to be mounted on right side of CT cabinet.

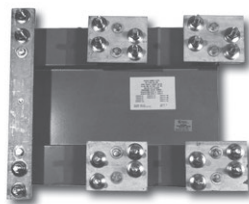
[†]Select CT mounting rack from next page.

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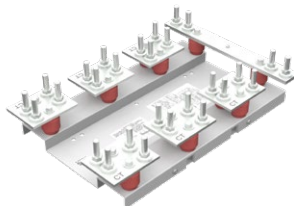


CT Cabinet Mounting Racks

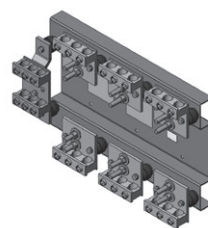
Stud and Lug Type



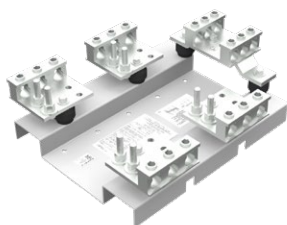
K4797 (with studs)



K4798 (with studs)



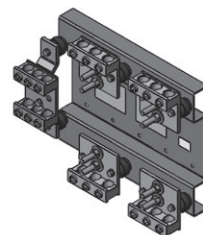
K5930 (with lugs)



K4729 (with lugs)



K4722 (with lugs)



K5931 (with lugs)

CT Cabinet Mounting Racks

Code	Catalog Number	AIC Rating	Amps	Volt	Type of Service	Termination Type
A	K4797	50K	800	600	1Ø3W or 3Ø3W	½ - 13 studs on 1¾" centers
B	K4798	50K	800	600	3Ø4W	½ - 13 studs on 1¾" centers
G	K4729	50K	800	600	1Ø3W or 3Ø3W	6 lugs: (3) #4-600 or (6) #1-250
H	K4722	50K	800	600	3Ø4W	8 lugs: (3) #4-600 or (6) #1-250
H	K5930	50K	800	600	3Ø4W	8 lugs: (3) #4-600 or (6) #1-250
G	K5931	50K	800	600	1Ø3W or 3Ø3W	6 lugs: (3) #4-600 or (6) #1-250

Notes

- **Enclosures:** Select CT enclosures from previous page.
- **PT Cabinets:** PT cabinets are required on all 277/480 VAC installations.



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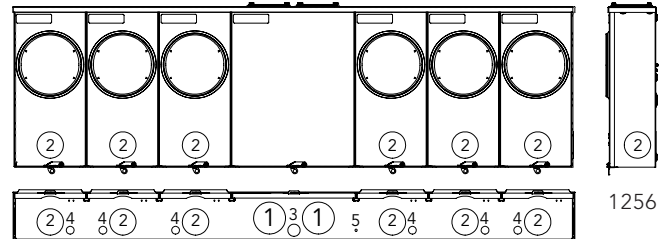
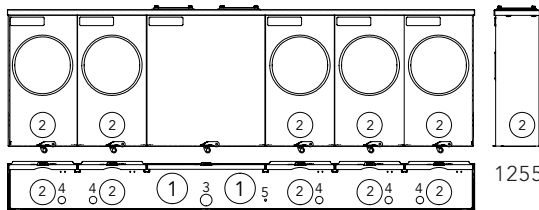
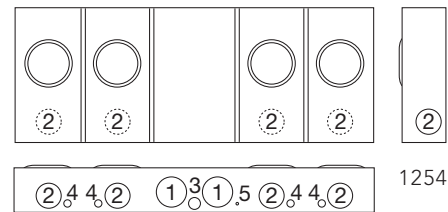
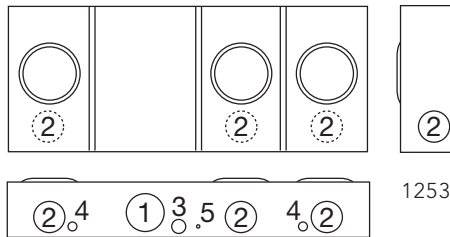
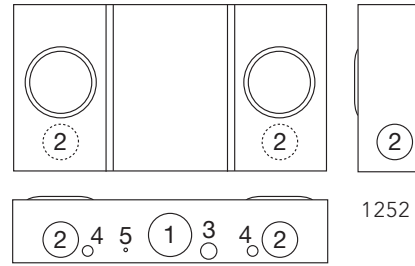
Multi-Position Meter Sockets

15

200 Amps per Position | 4 Terminals | Ringless | 300V



U1252-X



200 Amps per Position | 4 Terminals | Multi-Position | Ringless

Catalog Number	Pos.	Service	Hub	Connectors CU/AL		Bypass	Dimensions			Knockouts				
				Line	Load		D"	W"	H"	1	2	3	4	5
U1252-X	2	OH/UG	C.P.	½" Studs	#2-350	None	5⅞	26½	14	3	2½	1	½	¼
U1253-X	3	OH/UG	C.P.	½" Studs	#2-350	None	5⅞	34½	14	3	2½	1	½	¼
U1254-X	4	OH/UG	C.P.	½" Studs	#2-350	None	5⅞	42½	14	3	2½	1	½	¼
U1255-X	5	OH/UG	C.P.	½" Studs	#2-350	None	5⅞	54½	14	3	2½	1	½	¼
U1256-X	6	OH/UG	C.P.	½" Studs	#2-350	None	5⅞	62½	14	3	2½	1	½	¼

Notes

- **Hubs:** For proper hub selection, refer to the hub suffix chart on the accessories page. For the **U1254-6**, two hub openings are supplied and the extra opening is closed with a closing plate as standard.
- **Connectors:** Extruded aluminum connectors are tin plated.

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Multi-Position Meter Sockets

200 Amps per Position | 4 Terminals | Ringless | 120/240V

NEC 2020 Compliant



U5882-X-KK-AMS



U5884-X-KK-AMS

200 Amps per Position | Multi-Position with Main Breaker Provision | 4 Terminals | Ringless

Catalog Number	Amps	Positions	Connectors CU/AL	Dimensions			e
			Line	D"	W"	H"	
U5882-X-KK-AMS	200	2	3/8" x 16 Studs	5 1/8	26 1/2	30	58
U5883-X-KK-AMS	200	3	3/8" x 16 Studs	5 1/8	34 5/8	30	88
U5884-X-KK-AMS	200	4	3/8" x 16 Studs	5 1/8	42 5/8	30	107
U5885-X-KK-AMS	200	5	3/8" x 16 Studs	5 1/8	51 1/20	30	128
U5886-X-KK-AMS	200	6	3/8" x 16 Studs	5 1/8	59 3/10	30	146

Connector Kits for Use on Line Side*

Size	Suffix	Kit Number	Compatible	Wire Range
Single	-K1	K1539	U5902-06 U5882-86	#6-350
	-K3	K1540	U5904-06 U5884-86	#4-600
Twin	-K2	K1350	U5904-06 U5884-86	#6-350
	-K4	K1541	U5884-86	#2-600

Breaker Chart

Rating kAIC	Circuit Breaker 125A
10	Siemens: QP Cutler-Hammer: BR, HQP, QPGF, Square D: Homeline, G.E.: (50AMP. Max.) THQL, THQL-GF
22	Siemens: QPH
150-200 Amp	
10	Siemens: QN
22	Siemens: QNH

Notes

- **Breakers:** Units have provision for one Two-pole main per meter position. Breakers not included.
- **Short Circuit Current Rating:** 22K AIC. However, this rating is limited to the lowest interrupting capacity of any circuit breaker installed. Watthour meter not included in short circuit current rating.
- **Knockouts:** See next page for drawings and knockout configurations.

*For line wire connector kits, order separately.

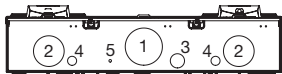
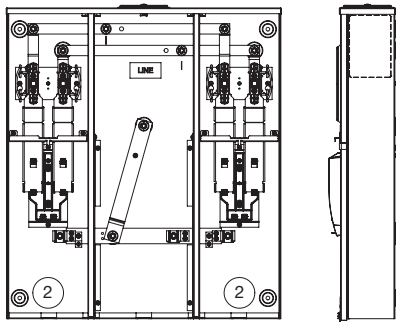


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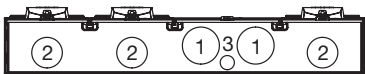
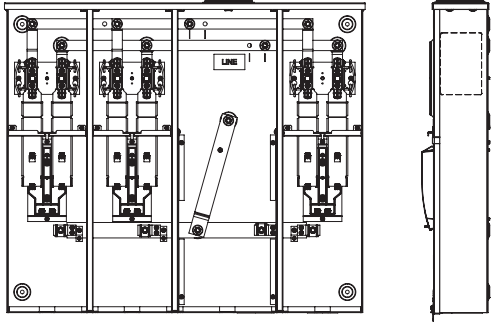
Multi-Position Meter Mains

U5902 and U5882 Series Knockout Information

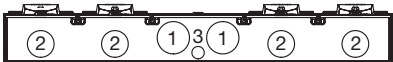
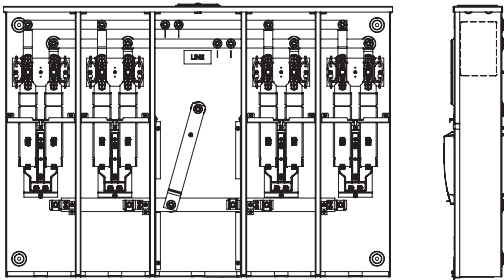
Knockouts				
1	2	3	4	5
3	2½	1	7/8	¼



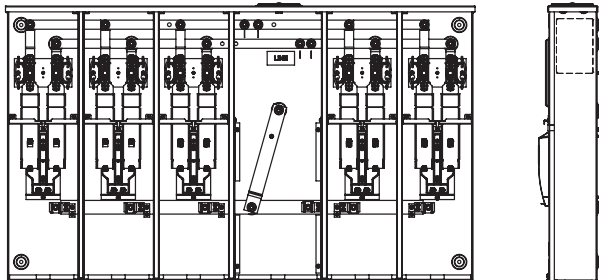
5882
5902



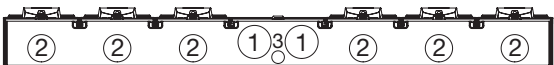
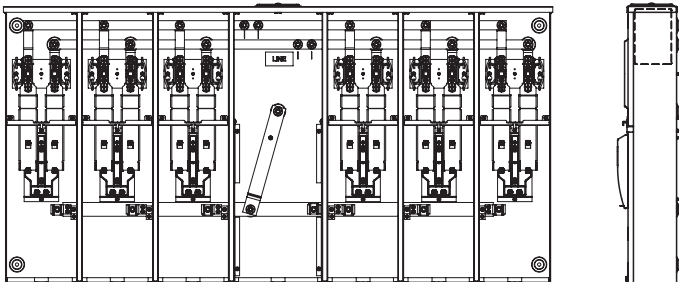
5883
5903



5884
5904



5885
5905



5886
5906

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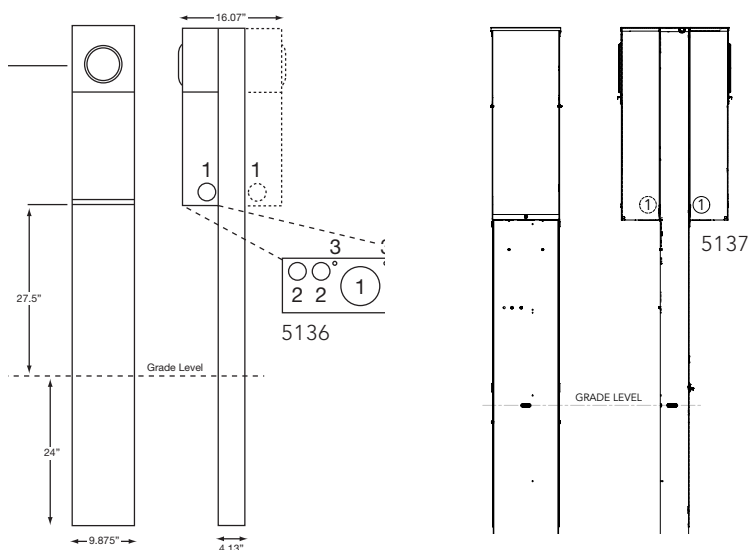


1 8 Meter Main with Load Center Pedestals

200 Amps | 4 Terminals | Ringless | 120/240V | *NEC 2020 Compliant*



U5136-O-200S



U5137-O-200S*

200 Amps | 4 Terminals | Meter Main Pedestals | Ringless

Catalog Number	Service	Connectors CU/AL		Bypass	Dimensions			Knockouts				
		Line	Load		D"	W"	H"	1	2	3	4	5
U5136-O-200S	UG	#6-350	CB	Horn	4 $\frac{7}{8}$	15	42 $\frac{1}{2}$	3	1 $\frac{1}{4}$, 1 $\frac{1}{2}$	1 $\frac{1}{4}$	—	—
U5137-O-200S*	UG	#6-350	CB	Horn	6	29 $\frac{1}{2}$	35	4	2 $\frac{1}{2}$	1	1 $\frac{1}{2}$, 3 $\frac{3}{4}$	1 $\frac{1}{3}$

Notes

- **Stabilizer Foot:** For field-installed stabilizer foot, order **K5415**.
- **Short Circuit Current Rating:** 22K AIC. However, this rating is limited to the lowest interrupting capacity of any circuit breaker installed. Watthour meter not included in short circuit current rating.
- **Receptacles:** Consult factory for installed receptacle assemblies.

*Double power head version.

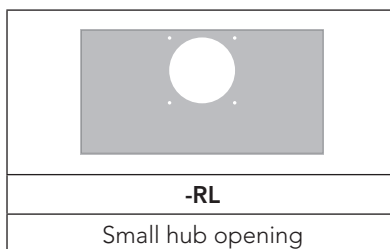


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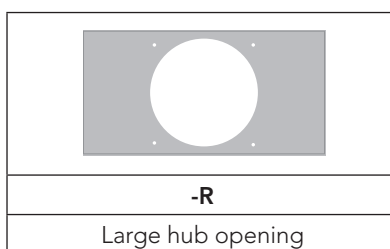
Accessories

Hubs and Closing Plates

19



-WL A7514	-YL A7515	-ZL A7516	-DL A7517	-EL A7518	-XL A7551
1" hub	1¼" hub	1½" hub	2" hub	2½" hub	Small closing plate



-F A8110	-G A8111	H A8112	-X A9064	-RRL S8324
3" hub	3½" hub	4" hub	Large closing plate	Large hub opening adapted to small hub opening



Notes

- **Suffix:** Add to catalog number for factory installation of hub.
- **Packaging:** Individually packed units for field installation.
- **Abbreviations:** H.O. (hub opening), C.P. (closing plate).

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Connector Kits | For Use with 3/8"-16 Stud Type Units Only

					
Single			Twin		
Suffix	Part #	(3 per set) - 1Ø	Suffix	Part #	(3 per set) - 1Ø
K1	K1539	#6-350	K2	K1350	#6-350
K3	K1540	#4-600 or (2) #1/0-250	K2L	K1350L	#6-350 (non rotating)
K3L	K1540L	#4-600 or (2) #1/0-250 (non rotating)	K4	K1541	#4-600
Suffix	Part #	(4 per set) - 3Ø	Suffix	Part #	(4 per set) - 3Ø
K5	K3082	#6-350	K6	K3442	#6-350
K7	K3441	#4-600 or (2) #1/0-250	K8	K3083	#4-600

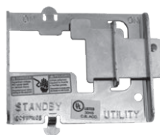
Bypass Link



Closing Covers

	
Meter Closing Plate (Ring Type/Ringless)	Metal Closing Plate (For Ringless Sockets)
6003 - Gray Plastic	CP-21
6116 - Clear Plastic	

Generator Interlock


K5815 - Large QN with small frame Q
K5820 - Large frame QN with large frame QN
K5830 - Small frame Q to small frame Q

Sealing Rings

	
MR-2 - Snap Action	MR-4 - Screw Type (Stainless Steel)
MR2-SS - Stainless Steel	

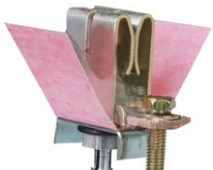
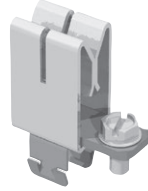

Touch-Up Paint



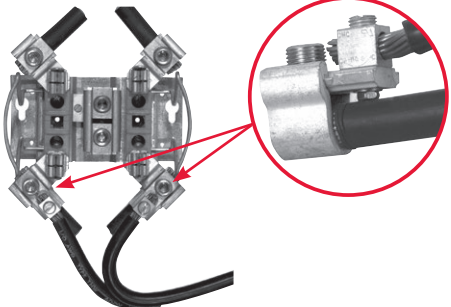
Accessories

Fifth Terminals and Tap Connectors

Fifth Terminals

		
5T8K2 - 100-200 Amps "Plug-In"	K5T - 200 Amps (Block with Square Hole)	K3865 - Heavy Duty Jaw Clamping (K3866 without Neutral Wire)

Tap Connectors (3 per set)

	Replaces the load or line side slide-in nut assembly on Milbank 200 Amps sockets. Allows for a 100 Amps tap location in addition to the #6-350 kcmil load-side connector. K5022 includes safety barrier extensions for applications over 300V. Three lugs per kit.
K4977-INT - Internal Hex	
K4977-EXT - External Hex	
K5022-INT - Internal Hex (set of 4 w/ barrier)	


Triplex Ground


K1190 (For factory-installed triplex ground, add suffix -TG to catalog number)

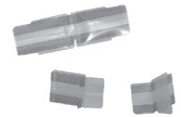
Isolated Neutral Kit


K1047*

Anti-Inversion Clip


K4802

Disconnect Sleeve


M5-144

*Isolated neutrals are specific to the meter socket. Consult factory for correct isolated neutral.

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UQFP
UQFPH



UQFP-M
UQFPH-M



UQFB-X1



UQFB-X



UQFB



UQFB-X-MOD

200 Amps Frame | Plug-In | 10K AIC and 22K AIC | Two-Pole - Common Trip

Amps	10K AIC Plug-In	22K AIC Plug-In	10K AIC Plug-In	22K AIC Plug-In	Wire Range	
					CU	AL
100	UQFP-100	UQFPH-100	UQFP-M-100	UQFPH-M-100	#3-#1	#1-1/0
125	UQFP-125	UQFPH-125	UQFP-M-125	UQFPH-M-125	#3-#1	#1-1/0
150	UQFP-150	UQFPH-150	UQFP-M-150	UQFPH-M-150	1/0-300	2/0-300
175	UQFP-175	UQFPH-175	UQFP-M-175	UQFPH-M-175	1/0-300	2/0-300
200	UQFP-200	UQFPH-200	UQFP-M-200	UQFPH-M-200	1/0-300	2/0-300

200 Amps Frame | Bolt-On | 10K AIC and 22K AIC | Two-Pole - Common Trip

Amps	10K AIC Bolt-On	22K AIC Bolt-On	10K AIC Bolt-On	22K AIC Bolt-On	Wire Range	
					CU	AL
100	UQFB-100	UQFBH-100	UQFB-100-X1	UQFBH-M-100	#3-#1	#1-1/0
125	UQFB-125	UQFBH-125	UQFB-125-X1	UQFBH-M-125	#3-#1	#1-1/0
150	UQFB-150	UQFBH-150	UQFB-150-X1	UQFBH-M-150	1/0-300	2/0-300
175	UQFB-175	UQFBH-175	UQFB-175-X1	UQFBH-M-175	1/0-300	2/0-300
200	UQFB-200	UQFBH-200	UQFB-200-X1	UQFBH-M-200	1/0-300	2/0-300

Notes

- **UL-Listed:** For use with 60°C or 75°C wire.
- **UQFP:** For parallel main circuit breaker applications.
- **UQFP-M:** For series main circuit breaker applications. Split load tab features allow for feed-through capability.
- **UQFB:** (2) 1/0-300 lugs provided on load and line side (cable-in, cable-out).
- **UQFB3:** Three-pole available. Consult factory.
- **UQFB-X:** (2) 1/0-300 lugs provided on load side and (2) line bar bus connections on line side.
- **UQFB-M:** For series main circuit breaker applications. Split load tab features allow for feed-through capability.
- **UQFB-X-MOD:** Replacement circuit breaker with line barriers removed.



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Multi-Position Tap Boxes

Three-Phase

23



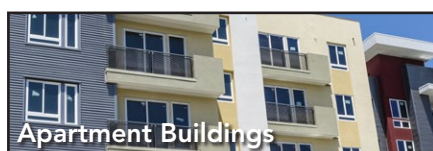
Features

- **Painted Aluminum Construction:** Enclosure shells are constructed with lightweight aluminum, making wall-mount installations easier. Powder-coat paint finish helps prevent corrosion.
- **Capable of Wall- or Pad-mounting:** Units feature a removable bottom, allowing an easy conversion from a wall-mount to a pad-mount.
- **Smaller Footprint:** The UAP6094 model has a more compact footprint compared with the leading competitor.
- **Multi-port Ground Lugs**
- **Optional Penta Bolt Secured Handle:** Enclosure handle includes a penta bolt locking mechanism (see photos below) for enhanced protection. Does not come standard.



Optional (not standard)

Common Applications



Apartment Buildings



Strip Malls



Housing Developments

Tap Boxes

Catalog Number	Phase	Position Lugs	Maximum Wire Size	Maximum Amperage	Dimensions		
					D"	W"	H"
UAP6094-O*	3	16	500 kcmil	3000 Amps	16	25 $\frac{5}{8}$	43
UAP6095-O*	3	22	500 kcmil	4000 Amps	16	32 $\frac{3}{8}$	43
UAP6096-O*	3	14	750 kcmil	3300 Amps	16	25 $\frac{15}{16}$	51

*Stainless steel pad-mount spacing brackets included

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MAXIMUM NUMBER OF CONDUCTORS IN CONDUIT

Table from 2008 NEC Code Reference: Rigid Metal Conduit

Type	Conductor Size (AWG/kcmil)	Conduit Trade Sizes (Inches)									
		1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4
THHN, THWN, THWN-2	12	9	16	26	46	62	102	146	225	301	387
	10	6	10	17	29	39	64	92	142	189	244
	8	3	6	9	16	22	37	53	82	109	140
	6	2	4	4	12	16	27	38	59	79	101
	4	1	2	4	7	10	16	23	36	48	62
	3	1	1	3	6	8	14	20	31	41	53
	2	1	1	3	5	7	11	19	26	34	44
	1	1	1	1	4	5	8	12	19	25	35
	1/0	1	1	1	3	4	7	10	16	21	27
	2/0	0	1	1	2	3	6	8	13	18	23
	3/0	0	1	1	1	3	5	7	11	15	19
	4/0	0	1	1	1	2	4	6	9	12	16
XHH, XHHW, XHHW-2	4	1	2	4	7	10	16	24	37	49	63
	2	1	1	3	5	7	12	17	26	35	45
	1/0	1	1	1	3	4	7	10	16	22	28
	2/0	0	1	1	2	3	6	9	13	18	23
	4/0	0	1	1	1	2	4	6	9	12	16
	250	0	0	1	1	1	3	5	7	10	13
	350	0	0	1	1	1	2	3	6	7	10
	500	0	0	0	1	1	1	2	4	5	7
	750	0	0	0	0	1	1	1	3	4	5

This table is for concentric stranded conductors only. For cables with compact conductors refer to NEC. Refer to latest NEC Code or Local Codes for updated requirements.

SAMPLE RATING LABEL

CATALOG NUMBERS U6952 & U6953
100A MAXIMUM, 120/240 VAC SINGLE PHASE, THREE WIRE
RAINPROOF NEMA TYPE 3R

SHORT CIRCUIT CURRENT RATING IS 10,000 RMS SYMMETRICAL AMPERE AT 240 VAC MAXIMUM, BUT IS LIMITED TO THE LOWEST SHORT CIRCUIT CURRENT RATING OF ANY INSTALLED CIRCUIT BREAKER. WATTHOUR METER NOT INCLUDED IN SHORT CIRCUIT CURRENT RATING. REPLACEMENT CIRCUIT BREAKER MUST BE THE SAME TYPE AND RATING. USE SIEMENS CP, QT; CUTLER-HAMMER CP, BD, BR; SQUARE D HOMELINE; G.E. TO, THQ, THQL.

SUITABLE FOR USE AS RECREATIONAL VEHICLE SITE SUPPLY EQUIPMENT

UNDERGROUND FEED ONLY

ON TRIP OFF

TO RESET BREAKER MOVE TO "OFF" THEN TO "ON"

DANGER
HAZARD OF ELECTRICAL SHOCK OR BURN
TURN OFF POWER
SUPPLYING THIS EQUIPMENT BEFORE WORKING INSIDE

WIRE TERMINAL INFORMATION USE AL-CU CONDUCTORS		
TERMINAL	WIRE RANGE	TORQUE LB-IN
LINE AND LINE NEUTRAL	350 kcmil - #6	250
GROUND CONNECTOR	20 AWG - #14 AWG	120
LOAD NEUTRAL SLOTTED HEAD (LARGE HOLE)	14 - 10 8 6 - 4 3 - 1/0	35 40 45 60
LOAD NEUTRAL SLOTTED HEAD (SMALL HOLE)	14 - 10 8 6	20 25 35

SHIPPING TENDS TO LOOSEN BOLTED CONNECTIONS. CHECK AND TIGHTEN ALL HARDWARE BEFORE ENERGIZING UNIT.

SIZE OF FIELD INSTALLED CONDUCTORS SHALL BE 60°C RATED TO 60°C RATING FOR 110 AMPS OR LESS AND 75°C RATED TO 75°C FOR 125 AMPS AND ABOVE.

* ALLOWABLE AMPACITIES OF INSULATED COPPER and
 ** ALUMINUM CONDUCTORS (3W IN CONDUIT) 75° C (167° F)

A		AL or **CU-Clad AL	
A	B	A	B
18	—	—	—
16	—	—	—
14	20†	—	—
12	25†	12	20†
10	35†	10	30†
8	50	8	40
6	65	6	50
4	85	4	65
3	100	3	75
2	115	2	90
1	130	1	100
1/0	150	1/0	120
2/0	175	2/0	135
3/0	200	3/0	155
4/0	230	4/0	180
250	255	250	205
300	285	300	230
350	310	350	250
400	335	400	270
500	380	500	310
600	420	600	340
700	460	700	375
750	475	750	385

A = Size: AWG/MCM
 *B = Ampere Rating for Insulation Types:
 FEPW, RH, RHW, THW, THWN, XHHW, USE, 2W.
 **C = Ampere Rating for Insulation Types:
 RH, RHW, THW, THWN, XHHW, USE (Per NEC table 310-16)

AMPACITY CORRECTION FACTORS

Ambient Temp. C°	Correction Factor	Ambient Temp. F°
21 - 25	1.05	70 - 77
25 - 30	1.00	78 - 86
31 - 35	.94	87 - 95
36 - 40	.88	96 - 104
41 - 45	.82	105 - 113
46 - 50	.75	114 - 122
51 - 55	.67	123 - 131
56 - 60	.58	132 - 140
61 - 65	.33	141 - 158

GANG SOCKET OVERALL AMPACITIES

# of Meter Pos.	100A/Pos. Ampacity	125A/Pos. Ampacity	150A/Pos. Ampacity	200A/Pos. Ampacity
2	200A	200A	200A	200A #
3	200A	225A	225A	270A
4	200A	250A	270A	360A
5	225A	285A	338A	450A
6	270A	330A	396A	528A

Overall Ampere ratings of UL-listed Milbank multiple position meter sockets are based on **2008 NEC Handbook Article 220-84** and **ANSI / UL-414** (except where restricted by line connector size). These requirements provide for a diversity factor / demand factor being utilized in determining the overall (main bus / lug) rating of a gang socket. All Milbank UL-listed gang sockets meet or exceed these diversity factor/ demand and factor requirements. Standard overall Ampacity ratings for UL-listed and non-UL-listed gang sockets are as shown in the chart below. Ampere ratings of meter sockets are based on the meter socket being wired with 75° C insulated wire conductor, sized in accordance with **Table 310-16** of the **National Electric Code**.

† Unless otherwise permitted elsewhere in the Code, the overcurrent protection for conductor types marked with an obelisk (†) shall not exceed 15 Amps for 14 AWG, 20 Amps for 12 AWG, and 30 Amps for 10 AWG copper; or 15 Amps for 12 AWG and 25 Amps for 10 AWG aluminum and copper-clad aluminum after any correction factors for ambient temperature and number of conductors have been applied.

Some constructions are rated at 400 Amps overall (1252). Contact your sales representative for more information. Refer to latest NEC Code or Local Codes for updated requirements.



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Energization of Electrical Equipment

25

Important Information for Installers

Important Note

In addition to national and local electrical codes, many utilities have specific requirements for metering equipment. Always consult the serving utility for their specifications and requirements prior to ordering or installing Milbank meter mounting equipment.

Before Energizing

1. Give equipment a thorough visual examination to determine that:
 - a) no shipping or installation damage exists.
 - b) proper clearances have been maintained.
 - c) all connections have been made.
 - d) equipment is clean and dry.
2. Make a thorough examination to:
 - a) verify tightness of all bolted connections (see table below).
 - b) manually operate all circuit breakers, switches, relays, etc.
 - c) check rigidity of all mountings, bus bars and components.
 - d) use test equipment to check continuity of circuitry and integrity of insulation.
3. All switches and circuit breakers should be in the OFF position.
4. Verify that manual meter bypass (if applicable) is in non-bypass position.
5. Install cover and/or close doors.
6. If installation is not being energized at this time, follow "after-energizing" steps listed below. These steps will secure the installation in case of accidental energization.

When Energizing

1. Use caution and follow established safety procedures:
 - a) wear safety apparel.
 - b) use safety equipment.
 - c) take action to prevent injury to yourself and others in the event of failure of the installation.
 - d) take action to prevent/decrease damage to property in the event of failure of the installation.
 - e) if you are unsure how to safely energize the installation, get someone who is knowledgeable to do it.

After Energizing

1. Secure the installation:
 - a) to prevent accidental contact with energized parts, cover all openings with approved filler devices.
 - b) to prevent unauthorized access, secure all covers and/or doors with approved security devices.
 - c) attach/post information to advise others of potential hazards associated with the installation.

Recommended Torque for General Applications*

Nominal Size	Joint Description		Head Type	Torque (Inch Lbs.)
	Screw	Nut		
10	Brass	Brass nut or extruded hole	All	20-25 inch lbs.
10	Steel	Copper or aluminum busbar $\leq 1/8"$	All	25-30 inch lbs.
10	Steel	Steel nut or extruded hole; CU or AL busbar $> 1/8"$	All	30-35 inch lbs.
12	Steel	Aluminum extruded hole	All	30-35 inch lbs.
12	Steel	Steel nut or extruded hole	All	40-50 inch lbs.
1/4	Steel	Aluminum extruded hole	All	40-50 inch lbs.
1/4	Steel	Steel nut or extruded hole; CU or AL busbar	All	50-60 inch lbs.
5/16	Steel	Aluminum extruded hole	Hex	60-70 inch lbs.
5/16	Steel	Steel nut or extruded hole; CU or AL busbar	Hex	100-150 inch lbs.
3/8	Steel	Steel nut	Hex	150-200 inch lbs.
1/2	Steel	Steel nut	Hex	200-250 inch lbs.

* Interior labels typically indicate the required torque for wire connectors and studs, and should be referenced first.
CU: Copper
AL: Aluminum

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Materials

Steel Quality

The meter equipment listed in this catalog is made of galvanized steel, American Iron and Steel Institute (AISI) G90.

Steel Sheet

16-gauge, galvanized, sheet: 1 1/4 oz./ sq.ft. class zinc-coated. (AISI G90)
14-gauge, galvanized, sheet: 1 1/4 oz./ sq.ft. class zinc-coated.

Aluminum Extrusion

Wire-terminals: Alloy; 6061-T6, tin-plated for Cu/Al wire.
Bus bar: Alloy; 6101-O and 6063-O

Aluminum Sheet

3000 series aluminum sheet, H14, or 5052 series aluminum sheet, H32. Where applicable thicknesses range from .064 – .125.

Copper Sheet and Bus

Electrolytic copper with tin plating in most applications.

Insulating Materials

- In most units, support bases for current-carrying components are molded from fiberglass reinforced high-strength, track resistant thermoset polyester molding compounds.
- Clear or black safety shields and polarity barriers are molded from high-strength, track resistant, polycarbonate molding compounds.
- Various sheet insulating materials, as appropriate for the application are utilized in the fabrication of flat, formed and punched component parts and barriers.

Finish

Process

Light gray state-of-the-art electrostatically applied powder paint offers a durable, non-fading finish. For further information concerning the chemical analysis of the weather-resistant finish, please contact your local Milbank Manufacturers' Representative.

Metal Fasteners

Zinc-coated with a chromate dip.

Ratings and Compliance

Ratings and Compliance

All Milbank electrical enclosures in this catalog are rated NEMA 3R enclosure unless otherwise specified on individual product pages. All enclosures with a UL designation are constructed per the appropriate UL standard and may be installed per the National Electric Code. UL procedure files associated with the UL Standards are listed as follows: Meter Sockets (UL 414, File E30202), Test Switches (UL 414, File E62531), Power Outlets (UL 231, File E90945), Panelboards (UL 67, File E32628) and Pullout Switches (UL 1429, File E133062). Additional standards are utilized as applicable: Meter Sockets (ANSI C12.7), Test Switches (ANSI C12.9) and Panelboards (NEMA PB-1).



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K3442.....	20	U6056-X-2/200-K7L-AMS.....	12
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K3866.....	21	U6585-X-2/200-K3L-5T9-AMS.....	11
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