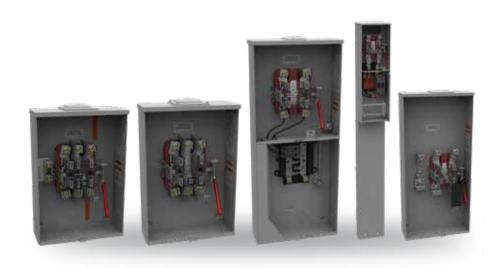




# Cuivre River Electric Cooperative

Product Catalog





## 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 90 years of expertise in electrical engineering design and manufacturing, Milbank's portfolio includes metering equipment, enclosures and enclosed controls. Founded in 1927, Milbank is a family-owned, American manufacturer headquartered in Kansas City, Mo. For more information, please visit milbankworks.com.



## METERING

As a market leader in electrical metering equipment, Milbank has set the standard for quality since 1927. Hundreds of configurations are available, including many sizes, knockout configurations, terminal configurations, bypass options, 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, wireway, and trough. Built with high-quality craftsmanship and materials which meet or exceed industry standards, Milbank enclosures are made to protect controls and equipment from dust, dirt and other harmful elements found in a wide variety of environments.



#### **ENCLOSED CONTROLS**

Milbank doesn't just build empty enclosures. We can deliver the entire package, complete with custom control equipment built to your exact specifications by our engineers. Milbank commercial pedestals are an attractive, secure, easy to install and cost-effective solution when underground remote site power distribution and control equipment is required, replacing unsightly and inefficient strut and backboard structures. Milbank's manual and automatic transfer switches are durable, easy to install and compatible with most generators.





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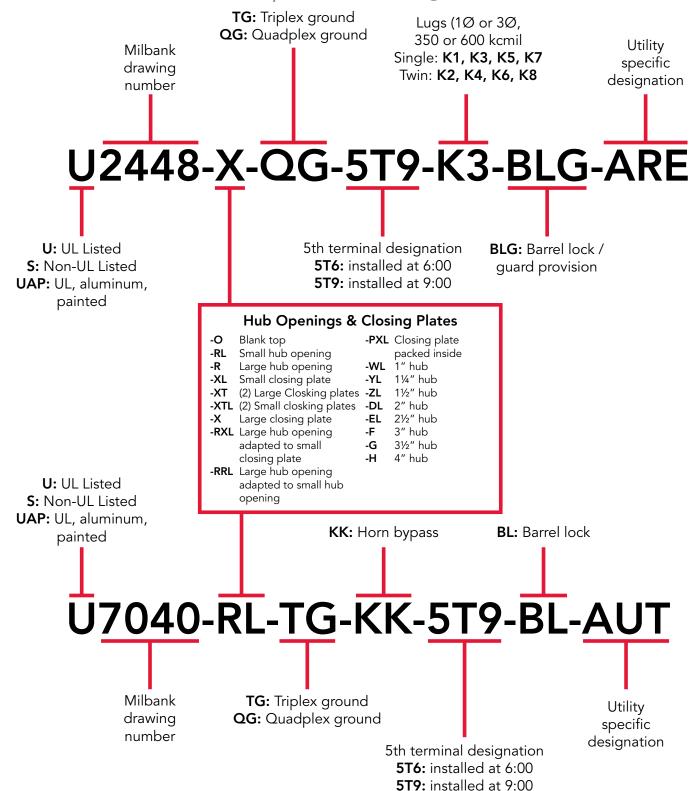




4 CATALOG NUMBER LOGIC

# **Catalog Number Logic**

How our product catalog numbers are derived





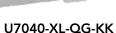


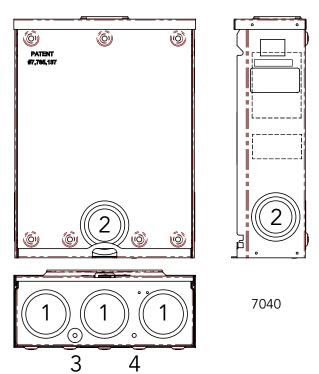
# **Single Position**

# 200 Amps | 4 Terminal | Ringless | 600 VAC









#### 4 Terminal | Single Position | Ringless | 1Ø3W | Residential/Commercial

Catalan Numban	Service	Hub	Connecto	ors CU/AL	D	Dimensions				D" W" H"		Knockouts			
Catalog Number	Service	пир	Line	Load	Bypass	D"	W"	Н"	1	2	3	4			
U7040-XL-QG-KK	OH/UG	C.P.	#6-350	#6-350	Horn	41//8	11	14%	2½	1/4,1/2	1/4	_			

#### **Notes**

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

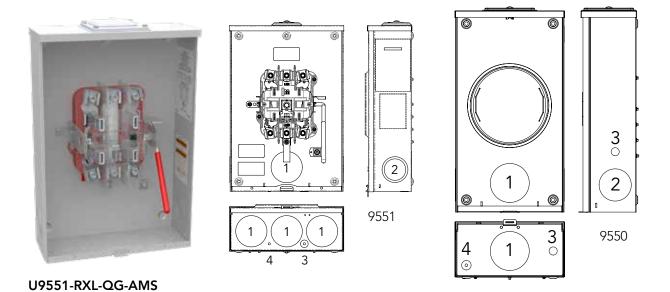






# **Single Position Lever Bypass**

200 Amps | 5 Terminal | Ringless | 600 VAC



## $5 \; Terminal \; | \; Single \; Position \; | \; Ringless \; | \; 10\hspace{-0.05cm} 03W \; | \; Residential/Commercial$

Catalan Number	Comico	Ulada	Connectors CU/AL		Dumana	Di	mensio	ons	Knockouts				
Catalog Number	Service	Hub	Line	Load	Bypass	D"	W"	Н"	1	2	3	4	
U9550-RDL-QG-AMS	ОН	2"	#6-350	#6-350	Lever	47/8	10	18½	3	21/2	3/4	1/4,1/2	
U9551-RXL-QG-AMS*	OH/UG	C.P.	#6-350	#6-350	Lever	47/8	13	19	3	21/2	1/4,1/2	1/4	

#### **Notes**

- Hubs: For proper hub selection see the hub suffix chart on the accessory page.
- Connectors: Extruded aluminum connectors are tin plated.
- \* For 3Ø3W, remove bonding strap on **U9551**.





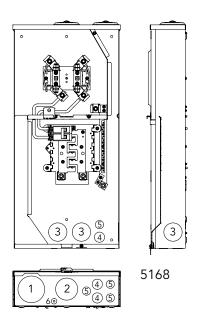
## Meter Main with Load Center

200 Amps | 4 Terminal | Ringless | 120/240 VAC





U5168-XL-200-KK-AMS



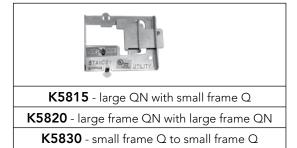
### 200 Amps | 4 Terminal | Meter Main with Load Center | Ringless | Residential/Commercial

Catalog Number		Camilaa	LLink	Connectors CU/AL		D. un ann	Dimensions			Knockouts					
Catalog Number		Service Hub Line Load Byp		Bypass	D"	W"	I.	1	2	3	4	5	6		
U5168-XL-200-KK-AMS	200	OH/UG	C.P.	#6-350	СВ	Horn	41/2	141//8	32¾	3	21/2	2	1	3/4	1/4,1/2

#### **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 breaks replace -200 with -150 or -175.
- Interlock Kit: For generator auxiliary circuit breaker interlock, order K8515 for large frame QN with small frame Q; order K5820 for large frame QN with large frame QN; order K5830 for small frame Q with -SFQ.

#### **Generator Interlock**







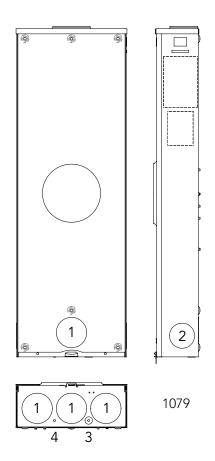
# 320 AMPS SINGLE POSITION LEVER BYPASS

# **Single Position Lever Bypass**

320 Amps | 5 Terminal | Ringless | 600 VAC



U1079-X-QG-K3-K2-5T6-AMS



#### 320 Amps | 5 Terminal | Single Position | Ringless | 1Ø3W | Residential/Commercial

Catalog Number	Service	U.Ja	Connectors CU/AL		Dynasa	Dimensions			Knockouts			
Catalog Number	Service	ce Hub Line Load		Bypass	D"	W"	H"	1	2	3	4	
U1079-X-QG-K3-K2-5T6-AMS*	OH/UG	C.P.	#1-600 or (2) #2-250	(2) #350	Lever	47/8	13	38½	3	2½	3/4	1/4,1/2

#### **Notes**

\* For 3Ø3W, remove bonding strap on **U1079**.



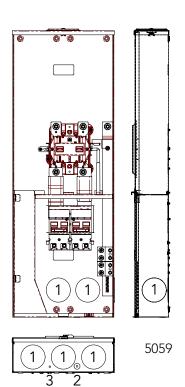


# Lever Bypass Meter Mains



320 Amps | 5 Terminal | Ringless | 120/240 VAC

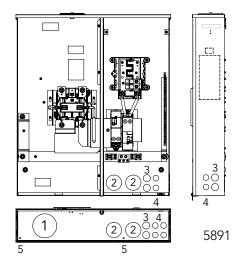




U5059-X-2/200-K3L-5T6-AMS



U5891-X-2/200-K3L-5T6-MLK-AMS



#### 320 Amps | 5 Terminal | Single Position | Ringless | Residential/Commercial

Catalan Numban	Comico	Llink	Connectors CU/AL		D	Di	mensi	ons	Knockouts					
Catalog Number	Service	Hub	Line	Load	Bypass	D"	W"	Н"	1	2	3	4	5	
U5059-X-2/200-K3L-5T6-AMS	OH/UG	C.P.	#4-600	1/0-300	Lever	47/8	15	421/2	3	1/4,1/2	1/4	_		
U5891-X-2/200-K3L-5T6-MLK-AMS	OH/UG	C.P.	#4-600	1/0-300	Lever	6	291/2	35	4	21/2	1	1/2, 3/4	1/3	

#### Notes

• Interior: U5891 has 10-circuit interior with feed through lugs.

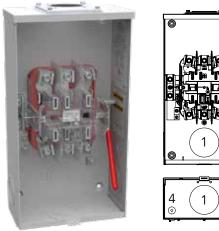




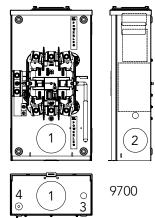


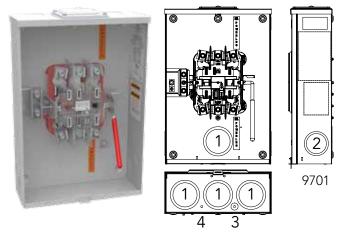
# **Single Position Lever Bypass**

200 Amps | 7 Terminal | Ringless | 600 VAC



U9700-RRL-QG-AMS





U9701-RXL-QG-AMS

7 Terminal | Single Position | Ringless | 3Ø4W | Commercial

Catalog Number	Service Hub Connectors CU/AL Bypass		Dunass	Dimensions			Knockouts						
Catalog Number	Service	пив	Line	Load	Bypass	D"	W"	Н"	1	2	3	4	
U9700-RRL-QG-AMS	ОН	H.O.	#6-350	#6-350	Lever	47/8	10	18½	3	21/2	3/4	1/4,1/2	
U9701-RXL-QG-AMS	OH/UG	C.P.	#6-350	#6-350	Lever	47/8	13	19	3	21/2	1/4,1/2	1/4	

## Notes

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



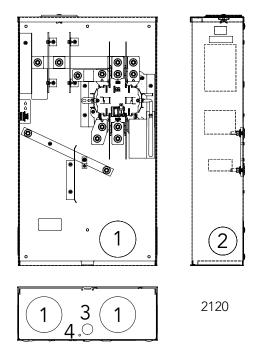


# **Single Position Lever Bypass**

320 Amps | 7 Terminal | Ringless | 600 VAC

320 AMPS
SINGLE
POSITION
LEVER BYPASS





U2120-X

## 320 Amps | 7 Terminal | Single Position | Ringless | 3Ø4W | Commercial

Catalog Number	ber Service Hub Connectors CU/AL Bypass		Dynass	Di	mensio	ons	Knockouts					
Catalog Number	Service	пив	Line	Load	Bypass	D"	W"	H"	1	2	3	4
U2120-X	OH/UG	C.P.	#6-350	#6-350	Lever	6½	17¾	31¾	3	21/2	3/4	1/4,1/2







## **Transformer Cabinets**

401-800 Ampss



PT48AL\* PT48AR\*



photo shown with **K5930** rack installed. See page 13.

#### **Hinge Cover Transformer Cabinets**

Catalan Number	C T De alcatt	Dir	nensi	ons	History Deep
Catalog Number	C.T. Racks**	D"	W"	H"	Hinged Door
CT304811-HC-AMS	A, B, G, H	11	30	48	Double
CT364811-HC-AMS	A, B, G, H	11	36	48	Double

#### **PT Cabinets**

Catalan Numban	Dir	nensi	ons	Kanaliani
Catalog Number	D"	W"	Н"	Knockout
PT48AL	8	12	36	2½" - right side
PT48AR	8	12	36	2½" - left side

#### Notes

- \*PT48: 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.
- PT Cabinets: PT Cabinets are required on all 277/480V installations.
- \*\*Mounting Rack: Select CT mounting rack from next page.
- Enclosure: These units are rated Type 3R, powder coated and constructed of galvanized steel.
- Mounting: 1/4 20 welded studs.
- CT rated meter base and CT's provided by utility





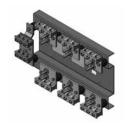
# **CT Cabinet Mounting Racks**

Stud & Lug Type

MOUNTING RACKS







K4797 (studs)



K4798 (studs)

K5930 (with lugs)





K5931 (with lugs)



#### **Connector Kits**

Code	Catalog Number	AIC Rating	Ampss	Volt	Type of Service	Termination Type
А	K4797	50K	800	600	1Ø3W or 3Ø3W	½ - 13 studs on 1¾"centers
В	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
Н	K4722	50K	800	600	3Ø4W	8 lugs: (3) #4-600 or (6) #1-250
Н	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**

- Select CT enclosures from previous page.
- PT Cabinets: PT Cabinets are required on all 277/480V installations.





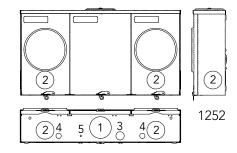
# 14 200 AMPS MULTIPOSITION

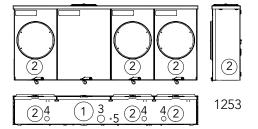
## **Multi-Position Meter Sockets**

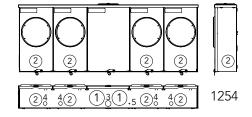
200 Amps per Position | 4 Terminal | Ringless | 300 VAC

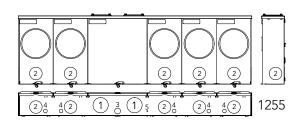


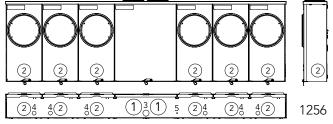
U1252-X











#### 200 Amps per Position | 4 Terminal | Multi-Position | Ringless | Residential/Commercial

Catalan Number	Pos.	Service Hub Connectors CU/AL Bypass		Dimensions			Knockouts							
Catalog Number	Pos.	Service	пив	Line	Line Load	Bypass	D"	W"	H"	1	2	3	4	5
U1252-X	2	OH/UG	C.P.	½" Stud	#2-350	None	51/8	26½	14	3	21/2	1	1/2	1/4
U1253-X	3	OH/UG	C.P.	½" Stud	#2-350	None	51/8	341/2	14	3	21/2	1	1/2	1/4
U1254-X	4	OH/UG	C.P.	½" Stud	#2-350	None	51/8	421/2	14	3	21/2	1	1/2	1/4
U1255-X	5	OH/UG	C.P.	½" Stud	#2-350	None	51/8	54½	14	3	21/2	1	1/2	1/4
U1256-X	6	OH/UG	C.P.	½" Stud	#2-350	None	51/8	621/2	14	3	21/2	1	1/2	1/4

#### **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.





## **Multi-Position Meter Sockets**

200 Amps per Position | 5 Terminal | Ringless

15
200 AMPS
MULTI-POSITION
METER SOCKETS



U2862-X-KK-5T



U2864-X-KK-5T

#### 200 Amps per Position with Main Breaker Provision | 5 Terminal | Ringless | Residential/Commercial

Catalog Number	Positions	Main Bus	Connectors CU/AL	Dimensions		ns		Knockouts			
Catalog Number	POSITIONS	IVIAIII DUS	Line	D"	W"	H"	1	2	3		
U2862-X-KK-5T	2	250 Amps	¾ x16 Stud*	5 <sup>13</sup> / <sub>16</sub>	21	29	3	2	1/4, 1/2		
U2863-X-KK-5T	3	300 Amps	3% x16 Stud*	5 <sup>13</sup> / <sub>16</sub>	21	41	3	2	1/4, 1/2		
U2864-X-KK-5T	4	400 Amps	¾ x16 Stud*	47/8	36	29	3	2	1/4, 1/2		
U2865-X-KK-5T	5	600 Amps	3% x16 Stud*	47/8	36	41	3	2	1/4, 1/2		
U2866-X-KK-5T	6	600 Amps	3% x16 Stud*	47/8	36	41	3	2	1/4, 1/2		

#### Connector Kits\*

Size	Suffix	Kit Number	Compatible	Wire Range
Cinalo	-K1	K1539	U2852-56, U2862-66	#6-350
Single	-K3	K1540	U2854-56, U2864-66	#4-600
Twin	-K2	K1350	U2854-56, U2864-66	#6-350
IWIN	-K4	K1541	U2864-66	#2-600

#### **Breaker Chart**

Manufacturer	125-200 Ampss	125 Ampss or Less
Cutler Hammer	BR, BJ	Quicklag P, BR, HQP
Siemens	QN	QP
Siemens/Murray	MD	MP
G.E.	Q Line	Q Line

#### **Notes**

- Connectors: For line wire connector kits, order separately.
- Breakers: Units have provision for one double pole main per meter position. Breakers not included.
- Short Circuit Current Rating: 10K 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.

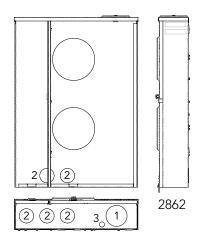


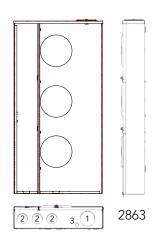


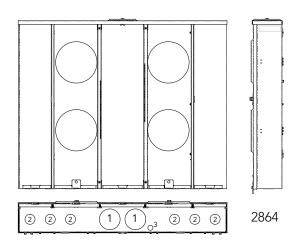
# 16 MULTI-POSITION METER SOCKETS KNOCKOUT INFORMATION

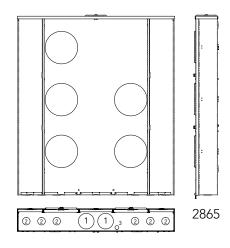
# **Multi-Position Meter Sockets**

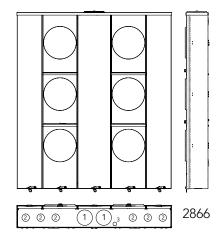
Knockout Information















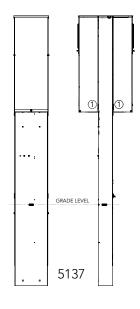
# Meter Main with Load Center Pedestal

200 Amps | 4 Terminal | Ringless | 120/240 VAC

METER MAIN WITH LOAD CENTER









U5137-O-200S\*

## 200 Amps | 4 Terminal | Meter Main Pedestal | Ringless | Residential/Commercial

Catalan Number	Camilaa	Connectors CU/AL		Dimens	Dimensions			Knockouts				
Catalog Number	Service	Line	Load	Bypass	D"	W"	Н"	1	2	3	4	5
U5136-O-200S	UG	#6-350	СВ	Horn	47/8	15	421/2	3	1/4,1/2	1/4	_	_
U5137-O-200S*	UG	#6-350	СВ	Horn	6	29½	35	4	21/2	1	1/2, 3/4	1/3

#### **Notes**

- Parallel to Series Conversion: For field converting from parallel wired to series wired order K5194.
- 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.
- \*U5137: Double power head version.

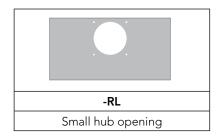
and features shown without notice or obligation.

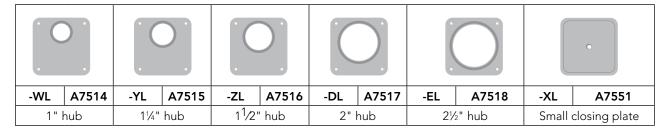


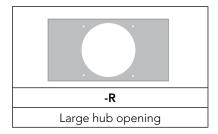


## **Accessories**

**Hub Sizes** 







							0		
-F	A8110	-G	A8111	Н	A8112	-X	A9064	-RRL	S8324
3"	hub	3½"	hub	4"	hub	Large clo	sing plate	adapted	ub opening to small hub ening





## Connector Kits, Closing Kits and Sealing Rings

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





	Si	ngle		Tw	vin
Suffix	Part #	(3 per set) - 1Ø	Suffix	Part #	(3 per set) - 1Ø
K1	K1539	6-350	K2 <b>K1350</b>		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 <b>K3442</b>		6-350
K7	K3441	4-600 or (2) 1/0-250	K8	K3083	4-600

#### **Bypass Link**

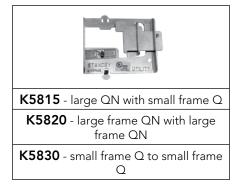


K8180 (sold in pairs)

### **Closing Covers**



#### **Generator Interlock**



#### **Sealing Rings**



## **Touch-Up Paint**



A-GP - Light Grey







## **Accessories**

## Fifth Terminals and Tap Connectors

#### Fifth Terminals



**5T8K2** - 100-200 Amps "Plug-In"

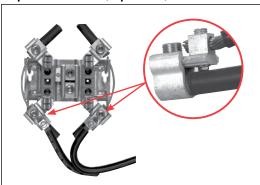


**K5T** - 200 Amps (Block with Square Hole)



**K3865** - Heavy Duty Jaw ClAmpsing (**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 300 VAC. Three lugs per kit.

K4977-INT - Internal Hex

K4977-EXT - External Hex

**K5022-INT** - Internal Hex (set of 4 with barrier)

#### **Triplex Ground**



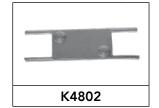
K1190 (For factory installed triplex ground, add suffix -TG to catalog number)

#### **Isolated Neutral Kit**



1047

#### **Anti-Inversion Clip**



#### **Disconnect Sleeve**



<sup>\*</sup>Isolated neutrals are specific to the meter socket. Consult factory for correct isolated neutral.





## Circuit Breakers



## UQFP Plug-In Series & UQFB Bolt-On Series













UQFP UQFPH

UQFP-M UQFPH-M

UQFB-X1 UQFB-X

**UQFB** 

**UQFB-X-MOD** 

#### 200 Amps | Frame Plug-In | 10,000 AIC & 22,000 AIC | Two-Pole - Common Trip

	10K AIC	22K AIC	10K AIC	22K AIC	Wire	Range
	Plug-In	Plug-In	Plug-In	Plug-In	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 | 10,000 AIC & 22,000 AIC | Two-Pole - Common Trip

Amanaa	10K AIC 22K AIC 10K AIC 22K AIC		22K AIC	Wire I	Range	
Ampss	Bolt-On	Bolt-On	Bolt-On	Bolt-On	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.





# **Multi-Position Tap Box**

Three Phase



#### **Features**

- Painted Aluminum Construction: Enclosure shells are constructed with lightweight aluminum, making wall-mount installations easier. Powdercoat 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 Pentabolt Secured Handle: Enclosure handle includes a pentabolt locking mechanism (see photos below) for enhanced protection.
   Does not come standard.





Optional (not standard)

## **Common Applications**







Catalan Number	Phase	Position	Maximum	Maximum	Dimensions			
Catalog Number	rnase	Lugs	Wire Size	Ampserage	D"	W"	H"	
UAP6094-O	3	16	500 kcmil	3000 Ampss	16	25%	43	
UAP6095-O	3	22	500 kcmil	4000 Ampss	16	32¾	43	
UAP6096-O	3	14	750 kcmil	3300 Ampss	16	25 <sup>15</sup> ⁄16	51	

Stainless steel pad mount spacing brackets included





# Conduit, Ampsacity & SCCR

Reference Information



#### MAXIMUM NUMBER OF CONDUCTORS IN CONDUIT

Table from 2008 NEC Code Reference: Rigid Metal Conduit

T	Conductor Size			(	Condu	it Trac	de Size	es (Inc	hes)		
Туре	(AVVG/RCMII)						2	21/2		31/2	4
	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
THHN,	4	1	2	4	7	10	16	23	36	48	62
THWN,	3	1	1	3	6	8	14	20	31	41	53
THWN-2	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
	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
XHH,	2/0	0	1	1	2	3	6	9	13	18	23
XHHW,	4/0	0	1	1	1	2	4	6	9	12	16
XHHW-2	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.

#### **SAMPSLE RATING LABEL**

CATALOG NUMBERS U5952 & U5953 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 QP, QT; CUTLER-HAMMER QP, BD, BR; SQUARE D HOMELINE; G.E. TQ, THQ, THQL. SUITABLE FOR USE AS RECREATIONAL VEHICLE SITE SUPPLY EQUIPMENT UNDERGROUND FEED ONLY TO RESET BREAKER MOVE TO "OFF" THEN TO "ON" DANGER TURN OFF POWER SUPPLYING THIS EQUIPMENT NEUTRAL O F GROUND LOAD A BEFORE WORKING INSIDE SHIPPING TENDS TO LOOSEN BOLTED CONNECTIONS. CHECK AND TIGHTEN ALL WIRE TERMINAL INFORMATION USE AL-CU CONDUCTORS TORQUE LB-IN WIRE RANGE LINE AND LINE NEUTRA 350 KCMIL - #6 HARDWARE BEFORE ENERGIZING UNIT GROUND CONNECTOR 120 SIZE OF FIELD INSTALLED CONDUCTORS SHALL BE 60° OR 75°C SIZED TO 60°C RATING FOR 110 AMPS OR LESS AND 75°C SIZED TO 75°C FOR 125 AMPS AND ABOVE 14 - 10 8 6 - 4 LOAD NEUTRAL SLOTTED HEAD 14 - 10 8 LOAD NEUTRAL SLOTTED HEAD

#### \* ALLOWABLE AmpsACITIES OF INSULATED COPPER &

\*\* ALUMINUM CONDUCTORS (3W IN CONDUIT) 75° C (167° F)

,	Д	AL or **Cl	J-Clad AL
Α	В	А	В
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 = Ampsere Rating for
Insulation Types:
FEPW, RH, RHW, THW,

THWN, XHHW, USE, 2W.

\*\*C = Ampsere Rating for
Insulation Types:

PH PHW THWN THWN

RH, RHW, THW, THWN, XHHW, USE (Per NEC table 310-16)

## AmpsACITY 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

Overall Ampsere ratings of U/L listed Milbank multiple position meter sockets are based on 2008 N.E.C. Handbook Article 220-84 and MSI / 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 U/L listed gang sockets meet or exceed these diversity factor/demand and factor requirements. Standard overall Ampsacity ratings for U/L listed and non U/L listed gang sockets are as shown in the chart below. Ampsere ratings of meter sockets are based on the meter socket being wired with 75° C insulated wire conductor, sized in accordadnce with Table 310-16 of the National Electric Code.

#### GANG SOCKET OVERALL AmpsACITIES

# of Meter Pos.	100A/Pos. Ampsacity	125A/Pos. Ampsacity	150A/Pos. Ampsacity	200A/Pos. Ampsacity
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

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

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







# **Energization of Electrical Equipment**

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		Joint Description		Taurus (In ala I la a )	
Size	Screw Nut		Туре	Torque (Inch Lbs.)	
10	Brass	Brass Nut or Extruded Hole		20-25 inch lbs.	
10	Steel	Copper or Aluminum Busbar ≤ 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	l Aluminum Extruded Hole		30-35 inch lbs.	
12	Steel	teel Steel Nut or Extruded Hole		40-50 inch lbs.	
1/4	Steel	Aluminum Extruded Hole		40-50 inch lbs.	
1/4	Steel	el Steel Nut or Extruded Hole; CU or AL Busbar		50-60 inch lbs.	
5/16	Steel	el Aluminum Extruded Hole		60-70 inch lbs.	
5/16	Steel	Steel Steel Nut or Extruded Hole; CU or AL Busbar		100-150 inch lbs.	
3/8	Steel	eel Steel Nut		150-200 inch lbs.	
1/2	Steel	Steel Steel Nut		200-250 inch lbs.	

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





## **Materials & Finishes**



## Reference Information

#### **Materials**

### **Steel Quality**

The meter equipment listed in this catalog is made of galvanized steel (AISI\* G90) to afford the best possible weather proofing.

\*American Iron and Steel Institute.

#### **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 & 6063-O

#### **Aluminum Sheet**

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

### **Copper Sheet & 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 the factory.

## **Metal Fastners**

Zinc-coated with a chromate dip.

## **Ratings & Compliance**

## **Ratings & Compliance**

All Milbank electrical enclosures in this catalog are rated Type 3R Enclosure unless otherwise specified on the product's page. 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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600319	MR2-SS	.19
611619	MR-4	.19
5T8k220	PT48AL	.12
A751418	PT48AR	.12
A751518	S8324	.18
A751618	U1079-X-QG-K3-K2-5T6-AMS	8
A751718	U1252-X	.14
A751818	U1253-X	.14
A755118	U1254-X	.14
A811018	U1255-X	.14
A811118	U1256-X	.14
A811218	U2120-X	.11
A906418	U2862-X-KK-5T	.15
A-GP19	U2863-X-KK-5T	.15
CP-2119	U2864-X-KK-5T	.15
CT304811-HC-AMS12	U2865-X-KK-5T	.15
CT364811-HC-AMS12	U2866-X-KK-5T	
K104720	U5059-X-2/200-K3L-5T6-AMS	9
K119020	U5136-O-200S	
K135019	U5137-O-200S	.17
K1350L19	U5168-XL-200-KK-AMS	
K153919	U5891-X-2/200-K3L-5T6-MLK-AMS	
K154019	U7040-XL-QG-KK	5
K1540L19	U9550-RDL-QG-AMS	
K154119	U9551-RXL-QG-AMS	
K308219	U9700-RRL-QG-AMS	
K308319	U9701-RXL-QG-AMS	
K344119	UAP6094-O	
K344219	UAP6095-O	
K386520	UAP6096-O	
K386620	UQFB-100	
K472213	UQFB-100-X1	
K472913	UQFB-125	
K479713	UQFB-125-X1	
K479813	UQFB-150	
K480220	UQFB-150-X1	
K4977-EXT20	UQFB-175	
K4977-INT20	UQFB-175-X1	
K5022-INT20	UQFB-200	
K5815	UQFB-200-X1	
K582019	UQFBH-100	
K5830	UQFBH-125	
K593013	UQFBH-150	
K593113	UQFBH-175	
K5T20	UQFBH-200	
K818019	UQFBH-M-100	
M5-14420	UQFBH-M-125	
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JQFPH-150	21
JQFPH-175	21
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