



# **New Jersey**

PSE&G,

**Jersey Central Power & Light Territory** 

Meter Mounting Equipment



# Milbank Overview

## MILBANK DVERVIEW

# 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, trough and industrial panel mount and push-button enclosures. 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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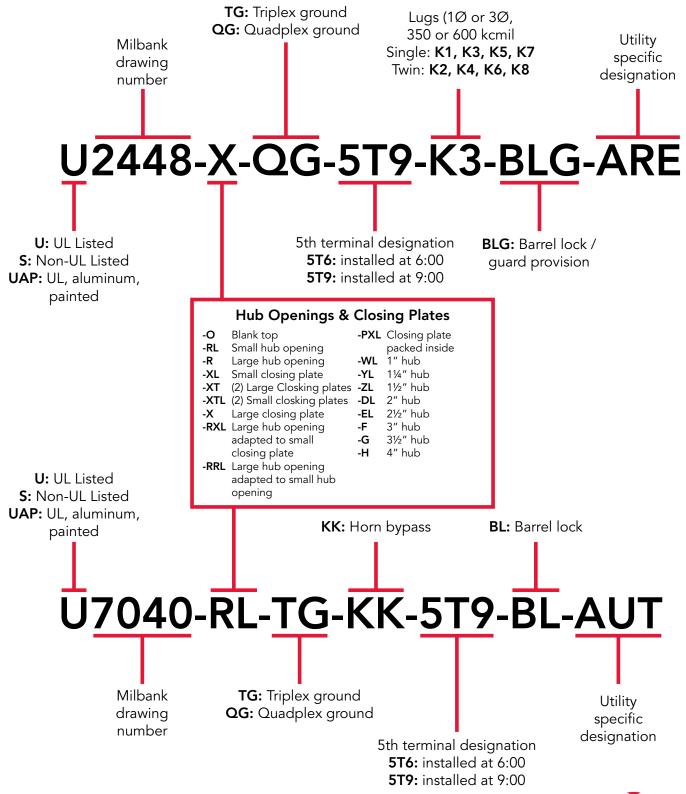




# **Catalog Number Logic**

5 CATALOG NUMBER LOGIC

How our product catalog numbers are derived







# **Air Conditioner Disconnects**

30 & 60 amp | Fusible & Non-Fusible







U3802 U3812 U3832

Milbank's air conditioner disconnect has a removable hinged cover for ease of installation. Our compact design meets NEC wiring space requirements and also complies with NEC article 440-14. For safe working conditions, our disconnect pullers may be removed and reinstalled in the OFF position. Additionally, padlock provisions are included on the front cover. As with other Milbank products, our enclosure is constructed of G90U galvanized steel and electrostatically finished with an attractive, light gray, baked powder coating. Our epoxy/polyester resin blend offers a finish that is both durable and fade-resistant.

#### 30-60 amp | 1Ø 240 VAC | Air Conditioner Disconnects

Catalog Number	amp	Туре	Max H.P.	Weight (lbs.)		Load Range	Ground Wire	Din	nensi	ons	Wire I	Rating
Number			п.г.	(ibs.)	CU	AL	Range CU/AL	D"	W"	Н"	CU °C	AL °C
U3802	60	Non-Fusible	10	3.25	#14-#2	#12-#2	#14-4	21/2	5	7½	60°/75°	60°/75°
U3812	60	Non-Auto	10	3.25	#14-#2	#12-#2	#14-4	21/2	5	7½	60°/75°	60°/75°
U3832	30	Fusible	3	2.5	#14-#3	#14-#3	#14-3	21//8	5	7	60°/75°	60°/75°
U3862	60	Fusible	10	3.3	#14-#3	#14-#3	#14-3	21/8	5	9	60°/75°	60°/75°

#### **Notes**

- UL listed as Enclosed Pullout Switch.
- Type 3R rainproof.
- One-inch concentric knockouts.





# **Air Conditioner Disconnects**

AC DISCONNECTS

# 20 amp GFCI Receptacle



U3822-20GWR

### **Specifications**

- Meets NEC #210.63 requirements
- UL listed as Power Outlet
- Type 3R enclosure
- In-use cover\*
- Duplex ground connector
- 1" concentric knockouts

- 1Ø, 240 volt
- 60 amp, non-fused
- 20 amp GFCI receptacle
- Reset/test button
- Weather and tamper resistant
- Meets NEC #406.8 requirements

#### 60 amp | 1Ø, 240 VAC | Air Conditioner Disconnect with GFCI Receptacle

Catalog Number	Туре	Max H.P.	Weight (lbs.)	Line/ Wire I	Load Range	Ground Wire Range		nensi	ons	Wire I	Rating
Number		п.г.	(IDS.)	CU	AL	CU/AL	D"	W"	Н"	CU °C	AL °C
U3822-20GWR	Non-Fusible	10	6	#14-#2	#12-#2	#14-4	41/5	51/4	7%	60°/75°	60°/75°

#### **Notes**

- **Disconnect Pullers:** To ensure the safest conditions, Milbank disconnect pullers are reversible so they may be reinstalled in the OFF position.
- Padlock Provision: All units are designed with a padlock provision on the cover for security.
- \*In-Use Cover: Cover is rated as an in-use cover (may be closed with cords plugged into receptacle).





# **Hot Tub Disconnects**

# Type 3R Enclosures



U4881-O-50GB



U4881-O-60GB

### **Specifications**

- 240 volt ground fault protection
- UL listed, Type 3R rainproof
- 2-pole, 50 amp GFCI breaker protection
- Compact size
- Three or four wire installation

- 1Ø, 120/240 VAC
- Standard package of 12
- Two extra one-pole breaker spaces
- 100 amp overall rating
- Easy to install

### 100 amp | Hot Tub Disconnect or Sub Panel Breaker Enclosure | Type 3R

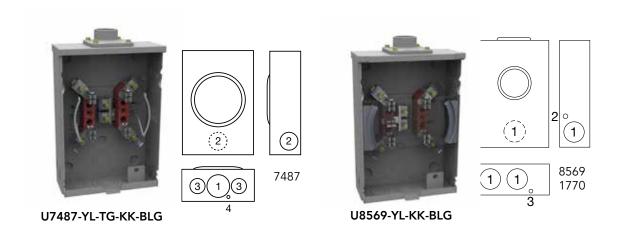
Catalog Number	Breaker	Туре	Weight (lbs.)		Load Range	Ground Wire Range	Dir	nensio	ons
Number	amp		(ibs.)	CU	AL	CU/AL	D"	W"	Н"
U4881-O	_	Breaker Provision	7	#14-1/0	#14-1/0	#14-1/0	3¾	71/2	81/2
U4881-O-50GB	50	Breaker	8	#14-1/0	#14-1/0	#14-1/0	3¾	7½	81/2
U4881-O-60GB	60	Breaker	8	#14-1/0	#14-1/0	#14-1/0	3¾	71/2	81/2



# **Single Position Sockets**

125 Amp | 4 & 5 Terminal | Ringless | 600 VAC





125 amp | Horn Bypass | Ringless | OH | 600 VAC | Horn Bypass

Catalog	Term.	Approved	Hub	Connecto	ors CU/AL	Din	nensi	ons	Kı	nock	cout	ts
Number	ierm.	Ву	пир	Line	Load	D"	W"	H"	1	2	3	4
U7487-YL-TG-KK-BLG	4	JCP&L	11/4	#6-2/0	#6-2/0	35/16	8	11½	2	11/2	11/4	1/4
U7487-RL-TG-KK-BLG	4	JCP&L	H.O.	#6-2/0	#6-2/0	35/16	8	11½	2	1½	11/4	1/4
U8569-YL-KK-BLG	5	PSE&G	11/4	#6-2/0	#6-2/0	35/16	8	11½	1½	7/16	1/4	_

### **Notes**

- Connectors: Extruded aluminum connectors are tin plated. Units are supplied with duplex neutral and ground.
- Fifth Terminal: For field installed fifth terminal for the U7487, order catalog number 5T8K2.



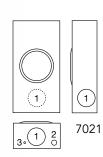




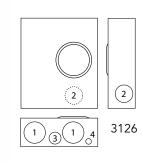
# **Single Position Sockets**

200 Amp | 4 & 5 Terminal | Ringless | 600 VAC

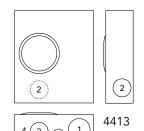








U7021-DL-TG-KK-BLG



### 200 Amp | 4 Terminal | Ringless | Horn Type

Catalog	Utility	Service	Uuh	Connectors CU/AL	Dir	nensi	ons	Knc	ckc	uts	
Number	Othity	Service	пир	Line &Load	D"	W"	Н"	1	2	3	4
U7021-DL-TG-KK-BLG	JCP&L	ОН	2"	#6-350	41/8	8	15½	2½	1/2	1/4	$\left[ -\right]$

### 200 Amp | 5 Terminal | Ringless | Horn Type

Catalog	Utility	Service	Uiile	Connectors CU/AL	Dir	nensi	ons	K	nocko	uts	
Number	Othity	Service	пир	Line &Load	D"	W"	H"	1	2	3	4
U8173-XL-KK-BLG	PSE&G	OH/UG	C.P.	#6-350	41/8	11	15½	21/2	1/2, 1/4	1/4	_

#### 200 Amp | 4 Terminal | Side Wireway | Ringless | Horn Type

Catalog	Utility	Service	Hub	Connecto	rs CU/AL	Din	nensi	ons	K	noc	kou	ts
Number	Othity	Service	пир	Line	Load	D"	W"	Н"	1	2	3	4
U3126-O-KK-BLG	JCP&L	UG	Blank	#6-350	#6-350	41/2	13	151⁄4	3			
U4413-O-KK-BLG	JCP&L	UG	Blank	#6-350	#6-350	41/2	13	151/4	3	2½	1½	1/2

#### **Notes**

- Hubs: For proper hub selection see the hub suffix chart on the accessory page.
- Connectors: Extruded aluminum connectors are tin plated. Units are supplied with duplex neutral.
- Bypass: Horn type bypass factory installed.
- Fifth Terminal: For field installed fifth terminal for the U7021, U3126 and the U4413 order catalog number K5T.

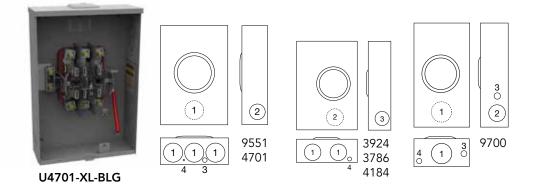




# **Single Position Sockets**

200 AMP SINGLE POSITION METER SOCKETS

200 Amp | 5 & 7 Terminal | Lever Bypass | Ringless



### 200 Amp | 5 Terminal | Heavy Duty Lever Bypass | Jaw Clamping | Ringless | 1Ø3W

Catalog	Utility	Service	Hub	Connecto	ors CU/AL	rs CU/AL Din		Dimensions		ons	Knockout			ts
Number	Othlity	Service	пив	Line	Load	D"	W"	H"	1	2	3	4		
U9551-R-5T9	JCP&L	ОН	H.O.	#6-350	#6-350	47/8	10	18½	3	2½	1/2	1/4		
U3924-XL	JCP&L	UG	C.P	#6-350	#6-350	47/8	14	201/2	3	2½	1/2	_		

#### **Notes**

• Fifth Terminal: The U3924 requires a K3865 5th terminal for approval.

#### 200 Amp | 7 Terminal | Medium Duty | Lever Bypass | Ringless | 3Ø4W | 600 VAC

Catalog	Utility	Samira	Uuk	Connectors CU/AL		nensi				kou	ts
Number	Othity	Service	пир	Connectors CO/AL	D"	W"	H"	1	2	3	4
U3786-O-BLG	JCP&L	UG	Blank	#6-350 kcmil	6	18	191/4	4	3	21/2	1/2

#### 200 Amp | 7 Terminal | Heavy Duty Lever Bypass | Jaw Clamping | Ringless | 3Ø4W

Catalog	Utility	Service	Hub	Connectors CU/AL	Din	nensi	ons	K	nocl	kou	ts
Number	Othity	Service	пир	Line & Load	D"	W"	Н"	1	2	З	4
U9700-RRL-BLG	JCP&L	ОН	H.O.	#6-350	427/32	10	18½	3	2½	3/4	1/2
U4701-XL-BLG	PSE&G	OH/UG	C.P.	#6-350	427/32	13	19	3	21/2	1/2	1/4
U4184-O	JCP&L	Blank	Blank	#6-350	427/32	13	19	4	_	4	1/2

#### **Notes**

- Hubs: For proper hub selection see the hub suffix chart on the accessory page.
- Connectors: Unit supplied with tin plated aluminum connectors.
- Bypass: Lever supplies clamping action on meter spades and also operates bypass device on the U9551, U4701, and the U9700.
- Medium Duty Bypass: On the U3786 units the lever operates sliding bypass only and is not jaw clamping.





# 12 320 AMP LEVER BYPASS SINGLE SOCKETS

# Lever Bypass Single Position Sockets

320 Amp | 4, 5 & 7 Terminal | Ringless | 600 VAC



### 320 Amp | 5 Terminal | Lever Bypass | Ringless | 600 VAC

Catalog	Utility	Service	Term	Hub	Connect	ors CU/AL	Din	nensi	ons	K	nocl	kou	ts
Number	Othicy	Service	ierm	пир	Line	Load	D"	W"	Н"	1	2	3	4
U4367-XPF-BLC	PSE&G	ОН	5	C.P.	3/8"-16 stud	3/8"-16 stud	427/32	13	351/4	3	1/2	1/4	7/16

### 320 Amp | 4 Terminal | Lever Bypass | Ringless | 600 VAC

Catalog	Hailta.	Camilaa	Т.,	U.J.	Connect	ors CU/AL	Dir	nensi	ons		Knoc	kout	ts
Number	Utility	Service	Term	Hub	Line	Load	D"	W"	Н"	1	2	3	4
U1779-R-K3-BLG	JCP&L	ОН	4	-	#4-600	3/8"-16 stud	13	3	38¾	2½	1/2	1/4	7/16
U4912-X-K3-BLG	JCP&L	UG	4	C.P.	#4-600	3/8"-16 stud	53/4	16	30	4	41/2	1	_

### 320 Amp | 7 Terminal | Side Wireway | Lever Bypass | Ringless | 600 VAC

Catalog	Utility	Service	Uuk	Connect	ors CU/AL	Dir	nensi	ons	Kn	ock	outs
Number	Utility	Service	dun	Line	Load	D"	W"	Н"	1	2	3
U4168-X-K7-BLG	JCP&L	OH/UG	C.P	#4-600	3/8"-16 stud	61/2	19	341/8	4	3	1/2

#### **Notes**

- Hubs: For proper hub selection see the hub suffix chart on the accessory page.
- Connectors: Stud type units supplied with 3/8"-16 hex head nuts with Belleville washers. For connector kits (4 & 5 terminal sockets), order as extra: K1539 (single-350 kcmil) or K1540 (single-600 kcmil) For twin lug connectors order as extra: K1350 (twin-350 kcmil) For 3Ø U4168, order as extra catalog number K3082 (350 kcmil single) K3442 (350 kcmil twin) or K3441 (500 kcmil single)
- Fifth Terminal: For field installed fifth terminal for the U4912 and U1779 order catalog number K3865.
- Bypass: Lever supplies clamping action on meter spades and also operates bypass device.





METER MAINS

100-200 Amp | 4 Terminal | Ringless | 1Ø | 600 VAC

① ① ② ② 3798

U7375-RL-KK

U3798-O-200-KK

### 100 Amp | 4 Terminal | Meter Main | Horn Bypass | Ringless | 1Ø3W | 600 VAC

7375

1 0

Catalog	Annuary and By	Comico	Hub	Connecto	Dir	nensi	ons	Knockouts		
Number	Approved By	Service	пив	Line	Load	D"	W"	Н"	1	2
U7375-RL-KK	JCP&L	ОН	H.O.	#6-2/0	C.B.	3¾	81/8	22	11/4	1/2

### 200 Amp | 4 Terminal | Meter Main | Horn Bypass | Ringless | 1Ø3W | 600 VAC

Catalog	Approved By	Service	Hub	Connectors CU/AL		Dimensions			Knockouts			
Number	Approved by	Service	пир	Line	Load	D"	W"	H.	1	2	В	4
U7607-RL-200-KK-CECHA	JCP&L	ОН	H.O.	#6-350	1/0-300	41/2	81/8	29	2	1/2		_
U3798-O-200-KK	JCP&L	UG	Blank	#6-350	1/0-300	47/8	13	251/8	3	2½	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.
- Breakers: Factory installed in the 200 Amp units.
- Bypass: Horn type bypass factory installed.
- Fifth Terminal: Add 5T8K2 fifth terminal kit for U7375 and K5T for U3798 and U7607.



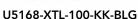


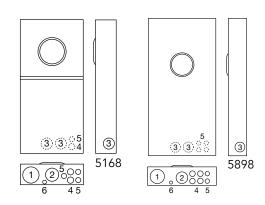
# 14 METER MAIN WITH LOAD CENTER

# Meter Main with Load Center

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







### 100 - 200 amp | 4 Terminal | Ringless | Horn Bypass

Catalan Number	Utility	Service	0 100 10	Ву-	Hub	Conn	ectors	Dii	mensio	ns		Kn	ock	out	s	
Catalog Number	Approval	Service	amp	pass	пив	Line	Load	D"	W"	Н"	1	2	3	4	5	6
*U5168-XTL-100-KK-BLG	JCP&L	ОН	100	Horn	C.P.	#6-350 kcmil	СВ	4½	141//8	30	3	21/2	2	1	3/4	1/2
*U5168-XTL-200-KK-BLG	JCP&L	ОН	200	Horn	C.P.	#6-350 kcmil	СВ	41/2	141//8	30	3	21/2	2	1	3/4	1/2
*U5898-O-200-KK-BLG <sup>1</sup>	JCP&L	UG	200	Horn	Blank	#6-350 kcmil	СВ	41/2	17	34½	3	21/2	2	1	3/4	1/2

#### **Notes**

- Hub: Order hubs as a separate item. See accessory page for hub options.
- Interior: 5168 units have 8 circuit interior.
- Fifth Terminal: Order K5T and field install for 208Y/120 network systems. Installs in the 9 o'clock position only.
- Breakers: Rated 22K AIC with Milbank QN2200RH main installed.
- 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.
- Sub-Feed Lugs: #6-350 kcmil sub-feed lugs provided on 8 circuit interior. Not available on 20 circuit interior.
- <sup>1</sup> The **U5898** has side buss feed.
- \*Barrel lock with guard provision. (suffix -BLG)





# **Multi-Position Sockets**



100 amp | 4 & 5 Terminal | Horizontal Gangs | Ringless | 300 VAC



#### U8032-XL-KK-BLG

### 100 amp | 4 Terminal | 1Ø3W | Horn Bypass | Ringless | OH/UG | Center Wireway

C. I. N. I.	Utility	No. of		Connect	ors	D	imensior	ıs	Kn	ockou	ts
Catalog Number	Approval	Positions	Hub	Line	Load	D"	W"	Н"	1	2	3
U8032-XL-KK-BLG*	JCP&L	2	C.P	6-350 kcmil	#6-2/0	41/2	241/2	16	2 1/2	2	1/2
U8033-XL-KK-BLG*	JCP&L	3	C.P	6-350 kcmil	#6-2/0	41/2	3611/16	16	2 1/2	2	1/2
U8034-XL-KK-BLG*	JCP&L	4	C.P	6-350 kcmil	#6-2/0	41/2	407/8	16	2 1/2	2	1/2
U8035-XL-KK-BLG*	JCP&L	5	C.P	6-350 kcmil	#6-2/0	41/2	491/16	16	2 1/2	2	1/2

### 100 amp | 5 Terminal | 1Ø3W | Horn Bypass | Ringless | OH/UG | Center Wireway

Catalan Number	Utility	No. of	Hub	Connect	tors Dimensions			Knockouts					
Catalog Number	Approval	Positions	пир	Line	Load	D"	W"	Н"	1	2	3	4	5
U1282-XL-KK-BLG*	PSE&G	2	C.P.	6-350 kcmil	#6-2/0	41/2	24½	14	21/2	1½	1/2	7/16	5/16
U1283-XL-KK-BLG*	PSE&G	3	C.P.	6-350 kcmil	#6-2/0	41/2	325/8	14	21/2	1½	1/2	7/16	_
U1284-XL-KK-BLG*	PSE&G	4	C.P.	6-350 kcmil	#6-2/0	41/2	401/8	14	21/2	1½	1/2	_	—

#### **Notes**

- Hubs: For proper hub selection see the hub suffix chart on the accessory page.
- Fifth Terminal: For U8032-U8036 equipment only- field mounted fifth terminal, order catalog number 5T8K2 for each meter position, six o'clock position only.
- Connectors: Extruded aluminum connectors are tin plated.
- Bussing: Bussing is 5/16" 1" aluminum.
- Bypass: Units provided with horn type bypass (suffix -KK).
- Additional positions: U8032 and U8033 require approval from utility for 5-6 gang socket.
- \*Barrel lock with guard provision (suffix -BLG).



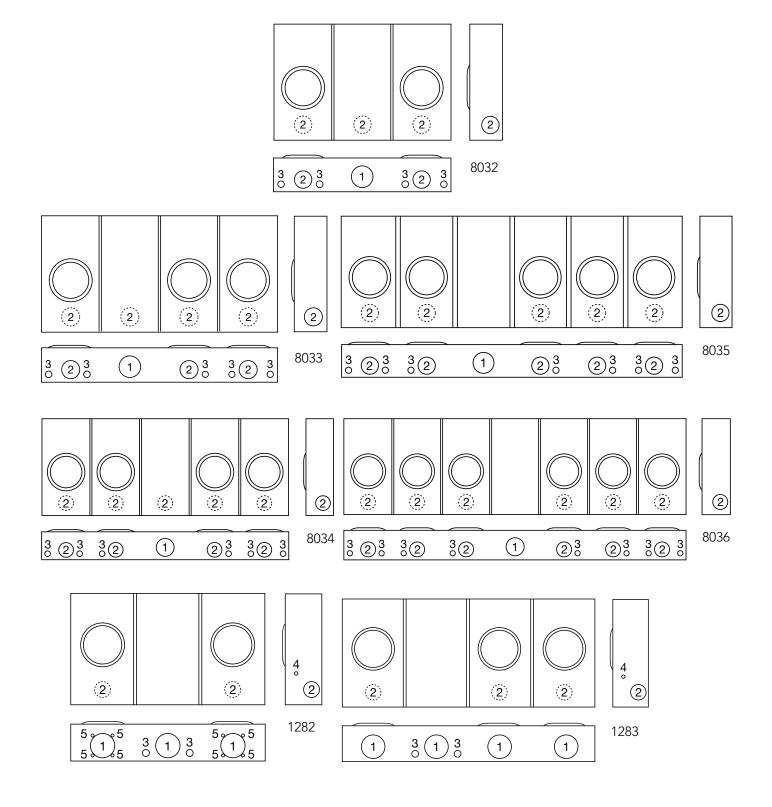




### 16 KNOCKOUT INFORMATION

# U8032-U8036 Series

Knockout Information







# **Multi-Position Sockets**

17
200 AMP
MULTIPOSITION

200 amp | 4 Terminal | Horizontal Gangs | Ringless | 300 VAC



U1252-X-KK-K3-BLG

### 200 amp | 4 Terminal | Horn Bypass | Ringless | 1Ø3W | OH/UG | Center Wireway

C. I. N. I	Utility	No. of		Conne	ctors	D	imensio	ns
Catalog Number	Approval	Pos.	Hub	Line	Load	D"	W"	Н"
U1252-X-KK-K3-BLG*	JCP&L	2	C.P.	#4-600 kcmil or (2) 1/0-250 kcmil	#6-350 kcmil	51/8	26½	14
U1253-X-KK-K3-BLG*	JCP&L	3	C.P.	#4-600 kcmil or (2) 1/0-250 kcmil	#6-350 kcmil	51/8	3411/16	14
U1254-X-KK-K3-BLG*	JCP&L	4	C.P.	#4-600 kcmil or (2) 1/0-250 kcmil	#6-350 kcmil	51/8	421/8	16
U1255-X-KK-K3-BLG*	JCP&L	5	C.P.	#4-600 kcmil or (2) 1/0-250 kcmil	#6-350 kcmil	51/8	54%	16
U1256-X-KK-K3-BLG*	JCP&L	6	C.P.	#4-600 kcmil or (2) 1/0-250 kcmil	#6-350 kcmil	51/8	631/16	16

#### **Notes**

- Hub: For proper hub selection refer to the hub suffix chart on the accessory page.
- Fifth Terminal: For field mounted fifth terminal, order catalog number K5T for each meter position, 9 o'clock position only.
- Connectors: Extruded aluminum connectors are tin plated.
- Bypass: Units provided with horn type bypass (suffix -KK).
- Bussing: Bussing is 5/16" x 1" aluminum on the U1252-1253. One the U1254-6 gangs the bussing is 3/8" x 1 aluminum.
- Knockout information is on the following page.
- Additional positions: U1252 and U1253 approved additional positions requires utility approval.

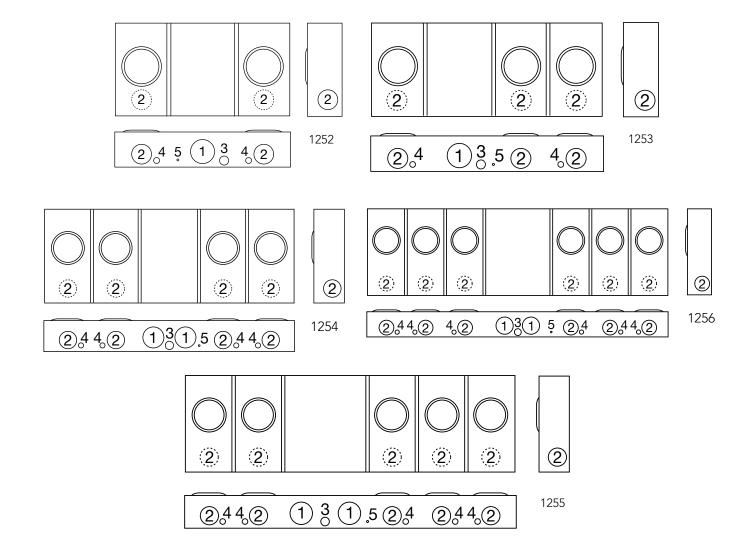




# U1252-U1256 Series

Knockout Information

	Kn	ockoi	uts							
1 2 3 4 5										
3	21/2	1	1/2	1/4						

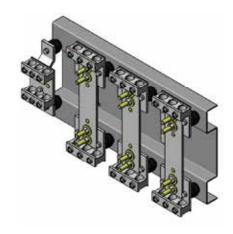






# **Transformer Cabinet**





### 800 amp | 3Ø4W | 600 VAC

Catalog Number	Utility	Gauge of Steel	Din	nensio	ns	CT Mounting Provision
Catalog Number	Approval	Gauge of Steel	D" W" H		H"	CT Woulding Frovision
U5990-O	JCP&L	12			36	CT mounting rack included

#### **Notes**

- SCCR Rating 50K
- Type 3R rainproof, vandal-resistant cabinet of polyurethane powder-coated steel
- Handle 3 point latch with pad lock provision
- Each phase phase has a 3 position connector for #4-600 single conductor or 1/0-250 for two conductors

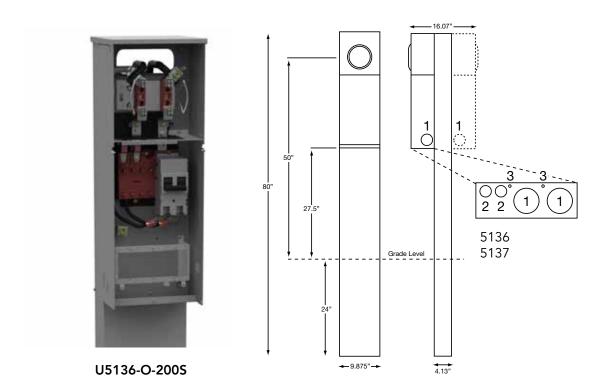






# Meter Main w/ Load Center Pedestal

100-200 Amps | 4 Terminals | Ringless | 120/240 VAC



### 100-200 Amps | Meter Main w/Load Center Pedestal | Ringless | Direct Bury

Catalan Number	Davvauhaada	A	Main Breaker	lutaria.	Dimensions			Kn	uts	
Catalog Number	Powerheads	Amps	iviain breaker	Interior	D"	W"	H.	1	2	3
U5136-O-100S	Single	100	UQFP-M-100 (Series)	4 circuit	101/4	10	80	2	1/2,3/4	1/4
U5136-O-200S	Single	200	UQFP-M-200 (Series)	4 circuit	101/4	10	80	2	1/2,3/4	1/4
U5137-O-100S	Double	100	(2) UQFP-M-100 (Series)	4 circuit	161/14	10	80	2	1/2,3/4	1/4
U5137-O-200S	Double	200	(2) UQFP-M-200 (Series)	4 circuit	161/14	10	80	2	1/2,3/4	1/4

#### **Notes**

- Fifth Terminal: For field installed fifth terminal, order K5T.
- Stabilizer Foot: For field installed stabilizer foot, order K5415.
- Penta Bolt Locking: For field installed pedestal fronts penta bolt locking, order K5039.
- Receptacles: Consult factory for installed receptacle assemblies.
- Pad Mount Units: Pad mount pedestals are available. Order U5138 (single meter) or U5139 (double meter) prefix. K5035 pad mount kit required. Order separately.





# Attractive | Easy to Install | Secure | Cost-Effective

Milbank Commercial Pedestals are padmounted, weather resistant electrical enclosures consisting of a utility pull section with optional meter socket, and a customer section containing distribution and control equipment. 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.





Strut and backboard

Commercial pedestal

## **UL Listed as Industrial Control Equipment (File E113855)**

### **Standard Features**

- Type 3R rain resistant, vandal-resistant cabinet of polyurethane powder-coated steel (aluminum or stainless steel also available)
- UL listed as enclosed industrial control equipment (UL508)
- Isolated lockable and sealable utility metering and lug landing sections
- Lockable customer section for distribution and control equipment with internal deadfront
- Print pocket inside customer section door contains wiring schematics and installation instructions
- Most load centers are UL listed for use with various manufacturers' circuit breakers
- All stainless steel external hardware (screws, bolts, hinges, handles, hasps and sealing screws)











All meter form and bypass options available to meet utility requirements.







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# **Commercial Pedestals**

# Attractive | Easy to Install | Secure | Cost-Effective







### **Applications**

These units are ideal for controlling and metering:

- Traffic signals
- Street lighting
- Power distribution for EV charging stations
- Irrigation and sprinkler systems
- Cell towers and telephone vaults
- Pump stations
- Temporary power for fairgrounds, swap meets, outdoor markets, portable offices, holiday lights, etc.
- Outdoor lighting for athletic fields, tennis and basketball courts, parking lots, landscaping and subdivision entrances, etc.

### **Available Factory-Installed Options**

- Meter sockets: ring type or ringless, up to 400 amp
- Main and branch breakers or T fuses
- Distribution: copper load centers and panel boards
- Clocks, timers and relays
- Photoelectric cells and controls
- Power receptacles: pin and sleeve, twist lock or straight blade
- Contactors: definite purpose, electrical or mechanically held, IEC and mercury types
- Surge protection and lightning arrestors
- Reserve inlet generator receptacle with interlocked circuit breakers
- Motor starters and relays
- Push button controls
- Thermostat controls, fans and heating strips
- Power blocks and terminal blocks
- Steel, aluminum and plywood backboards
- Transformers
- Interlock devices for circuit breakers
- Available in steel, aluminum (raw painted or anodized) or stainless steel construction with powder-coated finish available in eight standard colors or special-ordered RAL colors
- Available for applications up to 400 amp, 120V, 208V, 240V, 277V, 480V - 1Ø or 3Ø

#### Accessories



#### K3865

Fifth terminal kit for use with ringless meter sockets



#### CP-ABK5/8

Anchor bolt kit (includes four 5/8 - 13 x 18" anchor bolts



#### 105J

Fifth terminal kit for use with ring type meter sockets



#### CP-TC7D

7-day time clock kit **CP-TC24H** 24-hour time clock kit

#### **CP-TCWIRE**

Male 4-pin connector and wiring harness for use with time clocks other than above



#### CP-PE-HOA-3POS

HOA switch for field installation



#### **CP-16PDMNT-CALT**

16" pedestal mounting base

### CP-24PDMNT-CALT

24" pedestal mounting base (includes mounting hardware)





# 23

# Main Load Center Series | Custom Designs Available

### CP3B "ML" Series

Main Load Center Series 1Ø3 wire 120/240V or 208Y/120V

Application: remote site service for multiple loads

The Milbank Main Load Center Commercial Pedestals are designed to handle the vast majority of all requirements in a standard, stocked configuration.

- All units feature a load center with a plug-on, back-fed main breaker.
- Load center has 16 positions for the 100 amp pedestals and 24 circuits for the 200 amp pedestals.
- Both sizes include sub-feed lugs to allow feeding an external panel.

If your application requires turning loads on based on "dusk-to-dawn" requirements, be sure to see the Milbank Switched Load Center Commercial Pedestal products on the following page.

#### **Features**

These units include everything required for remote site service:

- NEMA 3R construction.
- Expandable: load centers allow for future expansion without costly modifications.
- All units feature 200 amp meter socket with optional field installable fifth terminal kit available.
- 22K ampere interrupting capacity (AIC) standard.
- Optional mounting base can be embedded in concrete for fast, easy installation.
- Separate sealable and lockable utility termination section.
- Separate sealable and lockable metering section.
- Separate sealable and lockable customer section with a load center for "always on" loads that include a main circuit breaker, 20 (125 or 200 amp model) or 14 (100 amp model) blank breaker spaces and a circuit directory to document configuration.



CP3B11115A22

#### **Typical Applications**

Remote site service for multiple loads.

Stocked Pedestals	Optional Fifth	Maiı	n CB	Load Center	Matau Saakat Tura
Stocked Pedestals	Terminal Kit	Amp	Spaces	Circuits	Meter Socket Type
CP3B51115A22	K3865	100	1,2	16	Ringless socket with lever bypass
CP3B52119A22	K3865	200	1,2,3,4	24	Ringless socket with lever bypass

#### Notes

• Chart shows standard, stocked items. Other options and features are available. Contact factory for options, details and availability.







# Switched Load Center Series | Custom Designs Available

### CP3B "SL" Series

Switched Load Center Series 1Ø3 wire 120/240V or 208Y/120V

Milbank's Switched Load Center Commercial Pedestals are designed not only to provide power for various loads, but also to switch specific loads on and off under certain conditions. A photoelectric cell is used for these controlled loads, and an optional time clock is also available.

### **Features**

These units include everything required for remote site service:

- NEMA 3R construction.
- Expandable: load centers allow for future expansion without costly modifications.
- All units feature 200 amp meter socket with optional field installable fifth terminal kit available.
- 22K ampere interrupting capacity (AIC) standard.
- Optional mounting base can be embedded in concrete for fast, easy installation.
- Separate sealable and lockable utility termination section.
- Separate sealable and lockable metering section.
- Separate sealable and lockable customer section with a control
  circuit including PE receptacle, Lexan® window, glare shield,
  Hand-Off-Auto (HOA) switch, contractor controlling a 16-circuit
  load center for controlled loads, a pre-mounted DIN rail and pre-wired
  connector to add an optional "plug-and-play" time clock kit for PE on and TC
  off operation and a circuit directory to document configuration.
- A load center for "always on" loads that includes a main circuit breaker, a control power circuit breaker, a switched load center main breaker, nine (125 or 200 amp model) or 11 (100 amp model) blank breaker spaces and a circuit directory to document configuration.



CP3B11110A22SL1

#### **Typical Applications**

Traffic signals, parking lots, highways & athletic field lighting

Stocked Pedestals	Optional Fifth	Mai	n CB	Contactor	Matau Caalast Tura
Stocked Pedestals	Terminal Kit	Amp	Spaces	Amperage	Meter Socket Type
CP3B51110A22SL1	K3865	100	1,3	60	Ringless socket with lever bypass
CP3B52110A22SL1	K3865	200	1,2,3,4	100	Ringless socket with lever bypass

#### **Notes**

• Chart shows standard, stocked items. Other options and features are available. Contact factory for options, details and availability.





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COMMERCIAL
PEDESTALS

CP3B "400" 400 Amp Series



CP3B1411JB22

#### Typical Applications

Remote site service for residential and commercial job sites

Milbank's 400 Amp Commercial Pedestal is designed to provide a weather and vandal resistant metered enclosure for various loads and distribution. Each pedestal has been designed to handle a wide range of applications using standard, stocked configurations.

- Choice of a single main breaker or twin service disconnect breakers gives flexibility to the pedestal design.
- Optional distribution with feed-thru lugs below the service disconnect breakers allows the pedestal to handle numerous applications.
- Typical applications include remote homes where the metering is best located at the curb side or other remote area. The pedestal can also provide power to secondary residence, on-site business, workshop, irrigation, lighting, security or other secondary load.
- Available in custom colors to match home or landscaping.

#### **Features**

These units include everything required for remote service:

- Type 3R construction
- Main circuit breaker or dual service disconnects
- Expandable: load center units allow for future expansion without costly modifications
- Optional mounting base can be embedded in concrete for fast, easy installation
- Separate sealable and lockable utility termination section with lug termination
- Separate sealable and lockable metering section
- A separate sealable and lockable customer section with a circuit directory and a print pocket to hold all documentation
- Meter socket options include ring type with bypass studs, ringless with heavy duty lever bypass, or K-Type bolt-on

Standard Pedestals	Optional fifth Terminal Kit	Main CB	Load Center Circuits	Meter Socket Type
CP3B54120B22	K3865	2-200 amp	(2) 12 circuit	Ringless with lever bypass
CP3B5411JB22	K3865	320 amp (400 max)	0	Ringless with lever bypass

#### **Notes**

- Chart shows standard, stocked items. Other options and features are available. Contact factory for options, details and availability.
- Stud utility landing is standard. Lug kits are available from factory.
- Units with load centers have (2) #6-250 sub-feed lugs on each load center. (Each load center is 200 amp rated and UL Listed with: Siemens, General Electric and Cutler-Hammer plug-in style circuit breakers.)







# CP3B "IR" Irrigation Control Series



Milbank's "IR" Series Irrigation Pedestals install quickly and simply – often in less than an hour with a single technician – a fraction of the time typically needed for strut farm and other installation set ups. Additionally, the pedestal comes pre-wired, so the technician simply drops in the pre-drilled concrete box pad, fastens the pedestal and runs the wires. Prewired landing lugs are provided in a separate utility side so that there is no more need to wrestle with hard-to-bend wires. Simply run the utility wire up and land on the lugs. With both the motor starter and disconnect in the same enclosure, all the controls are housed in a safe, lockable pedestal that protects against vandalism and energy theft.

#### **Features**

- 3Ø4W, 480Y/277 volt
- One technician can install in under an hour with use of Milbank's pre-drilled box pad
- All units are UL listed and service entrance rated
- Fused disconnect with accessible handle through the deadfront
- HOA and push button start
- Separate accessible utility side with pre-wired landing lugs
- NEMA rated starters (sizes 1-5)
- Soft start units sizes 30HP-150HP
- 30 amp fuse block for pivot pre-wired in the unit
- White powder coated paint finish helps keep components cooler
  - Options include:
    - Hour meter
    - Chemical injection receptacle
    - Multiple injection receptacle
    - Multiple 30A fuse blocks possible

Stocked Pedestals	Exterior Cabinet	NEMA Rating		
CP3B0281UMWIR04	White	4		
CP3B0281UMWIR03	White	3		
CP3B0181UMWIR02	White	2		

#### Typical Applications

Power pedestal for irrigation systems or other pump control applications

#### **Notes**

• Chart shows standard, stocked items. Other options and features are available. Contact factory for options, details and availability.





COMMERCIAL PEDESTALS

# CP3B "BBS" Battery Backup Series



CP3B5111TCAWSP1

### **Typical Applications**

Metered emergency uninterrupted power for traffic intersections, wireless, phone and communications equipment, parking lots, camera and security locations Milbank's BBS Series Commercial Pedestals are designed to provide battery backup power for various loads, and to switch specific loads on and off under certain conditions; a photoelectric cell or time clock to control lighting circuits, as an example. Metered and non-metered power distribution options are available. The back-up power pedestal is designed to handle the vast majority of todays back-up power requirements. By using 19" rack design, shelves can be adjusted to accommodate the required batteries and manufactures DC to AC inverters, transfer switches and other related equipment. This design gives the user a wide range of design and configuration options. Complete turnkey, ready to power-up pedestals are offered along with basic units ready to accept batteries and inverters supplied by others.

#### **Features**

- Type 3R construction
- 100 through 320 amp meter socket with the option of either a ring type socket (conforms to EUSERC 308) with or without test / bypass blocks or a heavy duty ringless socket with lever bypass
- Separate sealable utility termination compartment
- An isolated separate customer section with service disconnects, power distribution options and power control
- 19" wide rack in customer compartment for easy layout of equipment
- Battery trays
- Thermostat with cooling fan
- Filtered louvers for heat rise flow through ventilation
- Three point door latch (key or pad lockable)

### **Options**

- Manual bypass switch
- Transfer switch for generator power back-up
- Generator inlet receptacles 30A through 200A
- Pad lockable provision for receptacles
- Police access door

- Metered load center distribution
- Non metered load center distribution
- Photo electric controls (for street lighting)
- Time clocks
- HOA switches
- Contactors

- GFI duplex receptacles
- Thermostat for heating control
- Heating pads or elements
- Roll out shelves for batteries
- Surge arrestors and lighting arrestors







CP3B "Power Transfer" Series



**Milbank's Power Transfer Series Pedestals** provide non metered AC power, distribution, surge suppression, mechanical interlock and stand-by generator receptacle all in a neat, compact pedestal.

### **Features**

- 120/240V 1Ø3W thru 277/480V 3Ø4W ratings
- Metered or unmetered units
- Choice of EUSERC ring type or ringless meter sockets
- 60 Amp thru 400 amp ratings
- UL Listed Type 3R rated
- Pad lockable, isolated utility compartments
- 20 amp GFI convenience receptacle
- Lockable recessed generator receptacle door
- Utility and generator indicator light options
- All stainless steel hardware
- Galvanized steel, aluminum or stainless steel cabinet options
- Custom designs available



#### **Typical Applications**

Traffic intersections, cell sites, cable TV, pump and lift stations requiring utility power with backup generator power





# CP3BB "CT Metered" Series





Milbank's CT Metered Series Commercial Pedestals are designed to be used where a smaller service package would be a better choice over large 3R rated combination switchboards. These pedestals have amperage ratings of 400 to 800 amp at voltages up through 480 volt three phase.

#### **Features**

- UL Listed, freestanding Type 3R service
- A low profile CT pedestal
- All utility equipment is isolated in separated pad lockable and sealable compartments
- Separate customer compartment designed to hold distribution and control equipment
- Dead front customer construction
- Optional mounting base
- Optional construction in steel, aluminum and stainless
- Wide choice of powder paint colors

### **Typical Applications**

Large homes, pumping and lift stations, motor control, water treatment plants, EV charging stations, commercial buildings, large remote service requirements, commercial and industrial control systems









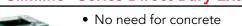
CP3A "Slimline" Series

**Milbank's Slimline Series Commercial Pedestals** provide a sleeker, smaller footprint and wireway access on the side of the unit rather than the back, allowing maximum flexibility to place the pedestal in tighter spaces.



- UL Listed as service equipment
- 100 or 200 amp
- Vandal-resistant, secure and attractive design
- Customer compartment with distribution and control equipment with swing dead front door, secured with both a hasp/latch and draw latch outer door
- Utility metering compartment protected with a hinged hood, increasing resistance to meter vandalism
- Small footprint
- Wireway located on left side of pedestal for utility incoming wire, allowing pedestal to be mounted with back very close to a wall (14")
- Available in 12" and 20" widths and 50" and 63" (metered) and 43" (nonmetered) heights
- Includes a print pocket for plans and drawings
- 200 amp main available
- Voltage range: 120V–480V
- Compatible with both ringless and ring type meter sockets, 4–7 terminals
- Available in a wide array of colors, including but not limited too all ANSI powder coated paint colors upon request
- Pedestal mounting base option saves time and labor to install on a cement pad—no anchor bolts required
- Powder-coated G90 galvanized steel, raw, anodized or powder-coated aluminum and stainless steel exterior options

## "Slimline" Series Direct Bury Extension



- Bolts directly to unit
- Boits directly to drift
- Easy, modular design
- Ships in a smaller package
- Increases project flexibility
- Easier to handle and install
- Utilizes a stabilizer foot to prevent leaning over time
- Pedestal and extension can be installed within 30 minutes

#### **Notes**

- Currently only built in 14 guage steel
- Only available for 12" pedestals



### **Typical Applications**

Roadway lighting and signage, wastewater treatment facilities, parks and landscaping, and any application where physical space is at a premium





# **Circuit Breakers**

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GIRGUIT
BREAKERS

# UQFP Plug-In & UQFB Bolt-On Series | 120/240 VAC











UQFP UQFPH

UQFP-M UQFPH-M

**UQFB-X1** 

**UQFB-X** 

**UQFB** 

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

A	10K AIC	22K AIC	10K AIC 22K AIC Wire R			Range
Amp	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 amp Frame | Bolt-On | 10,000 AIC & 22,000 AIC | Two-Pole - Common Trip

Δ	10K AIC	22K AIC	10K AIC	22K AIC	Wire	Range	
Amp	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**

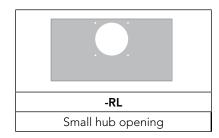
- **UL Listed:** For use with 60°C or 75°C wire.
- UQFP: For parallel main circuit breaker applications.
- UQFP-M: For series main circuit breaker applications Split load tab features allow for feed-through capability.
- UQFB: (2) 1/0-300 lugs provided on load and line side (cable-in, cable-out).
- UQFB3: 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.



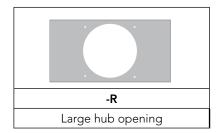


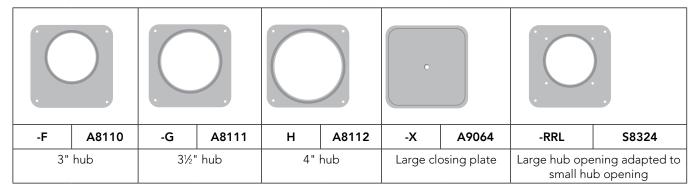
# **Accessories**

# Hubs and Closing Plates



											•
-WL	A7514	-YL	A7515	-ZL	A7516	-DL	A7517	-EL	A7518	-XL	A7551
1"	hub	11/4"	hub	1 <sup>1</sup> /2	" hub	2"	hub	21/2	u hub	Small	closing plate









# Connector Kits, Closing Kits and Sealing Rings

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





	Si	ngle		Tw	in
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 rotat- ing)
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
			1		

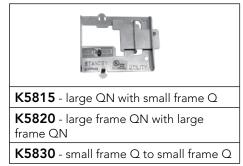
### **Bypass Link**



#### **Closing Covers**

	The state of the s
Meter Closing Plate (Ring Type / Ringless)	Metal Closing Plate (For Ringless Sockets)
6003 - Grey Plastic	CP-21
<b>6116</b> - Clear Plastic	

### **Generator Interlock**



#### **Sealing Rings**



### **Touch-Up Paint**



A-GP - Light Grey





## **Accessories**

# Fifth Terminal and Tap Connectors

#### Fifth Terminal



5T8K2 - 100-200 amp "Plug-In"



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

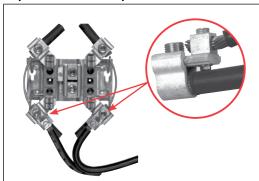


K3865 - Heavy Duty Jaw Clamping (K3866 without Neutral Wire)



This is for Condo metering Banks (125-200 amp) K2381

#### Tap Connectors (3 per set)



Replaces the load or line side slide-in nut assembly on Milbank 200 amp sockets. Allows for a 100 amp 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 w/ barrier)

#### **Pedestal Extension Units**

Catalog Number	D"	W"	Н"
S8988	41/2	83/16	15
S3488	6	11	15
S2571	41/8	10	12
S1848	47/8	13	15
K4694	6	9	24
K5800	41/8	9	15

#### **Isolated Neutral Kit**



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



### **Disconnect Sleeve**



#### **Triplex Ground**



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





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

# Conduit, Ampacity & SCCR

# Reference Information

# 35 CONDUIT, AMPACITY & SCCR

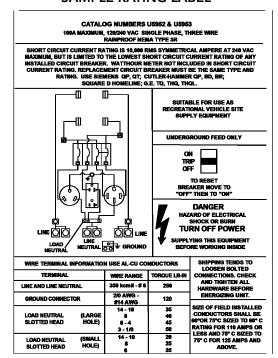
#### MAXIMUM NUMBER OF CONDUCTORS IN CONDUIT

Table from 2008 NEC Code Reference: Rigid Metal Conduit

Conductor Size				(	Condu	it Trac	de Size	es (Inc	hes)		
Туре	(AWG/kcmil)						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.

#### SAMPLE RATING LABEL



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

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

*0	U	AL or **C	u-Clad AL
A	В	Α	С
18	-	-	-
16	-	-	-
14	20t	-	-
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
26 - 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 ampere ratings of U/L listed Milbank multiple position meter sockets are based on 2008 N.E.C. 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 U/L listed gang sockets meet or exceed these diversity factor/demand factor requirements. Standard overall ampacity ratings for U/L listed and non U/L 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.

#### GANG SOCKET OVERALL AMPACITIES

NO. OF METER POSITIONS	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

† 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.





<sup>#</sup> Some constructions are rated at 400 amps overall. 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		Tanana (Inak I ha)
Size	Screw	Nut	Туре	Torque (Inch Lbs.)
10	Brass	Brass Nut or Extruded Hole	All	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	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.

<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-Terminal: 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 specified otherwise 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).

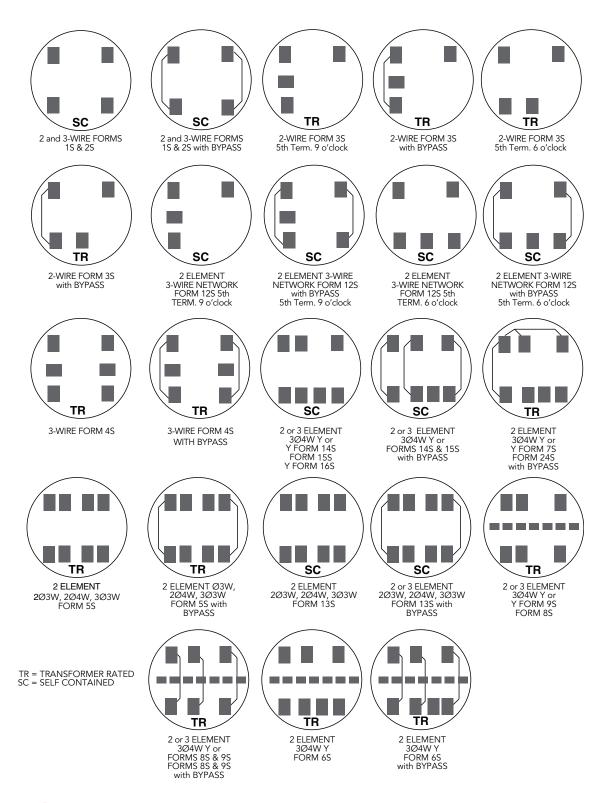




# 38 WATTHOUR METER FORMS

# **Watthour Meter Forms**

Standard Forms | Transformer Rated or Self-Contained







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