

# SIEMENS

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## Gen Ready Switchboards™

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### Product Description

Siemens Gen Ready quick connect switchboards meet the market need for quick connection of a generator for temporary back-up power.

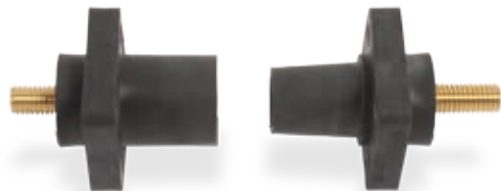
The most common application of these switchboards are retail stores with perishable items, nursing homes and hospitals. However, these types of switchboards should be applied in any application that is sensitive to power outages.



*Gen Ready Switchboard in NEMA 3R Enclosure*

### Features

- All standard switchboard features
- Crouse-Hinds quick-connect Cam-Loks for a quick primary connection method
- Standard mechanical lugs suitable for use with Type W welding cable for a secondary connection method
- NEMA 1 and NEMA 3R enclosures
- Trap door on NEMA 3R enclosure to maintain rating with cables connected
- Labeled phases and ground connections
- Bus connection between generator breaker and plug-in quick connects
- Mechanical interlocking with normal breaker
- Removable screw cover for covering quick-connects when not in use
- May be provided as stand alone unit or hard bussed in traditional switchboard lineup



*4/0 Crouse-Hinds quick connect Cam-Lok*

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### Generator Breaker Compartment

The generator breaker can be connected to the normal main switchboard by cable in retrofit applications or hard bussed in new construction applications. The generator breaker is key-interlocked with the main breaker in the normal switchboard lineup. The switchboard can be rated Suitable for Service Entrance.

### Quick-Connect Compartment

The Crouse-Hinds quick-connect Cam-Loks are provided in a compartment with a removable screw cover covering the quick-connects for when they are not in use. One end of the quick-connect is supplied in the switchboard and one is provided with the generator. In addition to the quick-connects, standard mechanical lugs are provided as a secondary method of connection. The mechanical lugs are rated for Type W welding cable which is common in these generator connection applications.

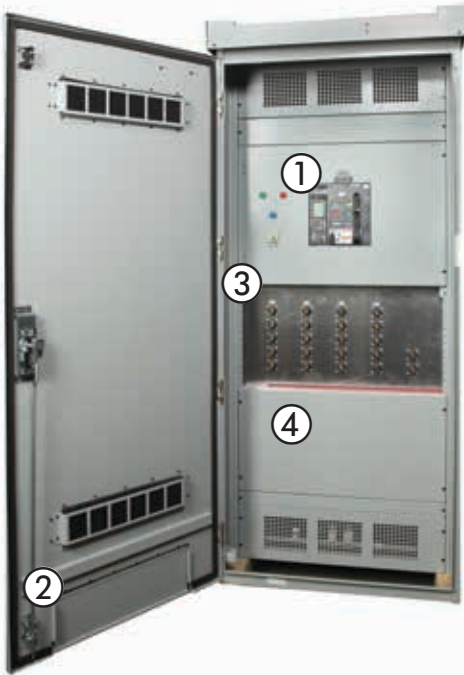
### Outgoing Connection

The outgoing load connection of the generator breaker can be accomplished through either cable connection or can be hard bussed to an existing or new switchboard lineup.

### Standards and Certifications

- UL891
- NEMA PB-2
- NEC702
- Florida Building Code section 420.4.2.9.7
- Seismically qualified
- Other equipment is UL listed as applicable

## Product Features



1 Main generator breaker key interlocked with normal main breaker (UL489 2000A WL pictured)



2 Hinged NEMA 3R door to maintain NEMA 3R rating with cables connected



3 2000A example of Crouse-Hinds Cam-Loks for a three phase four wire system with ground connections



4 Standard mechanical lugs suitable for use with Type W welding cable as a secondary method of connection



# Common Application

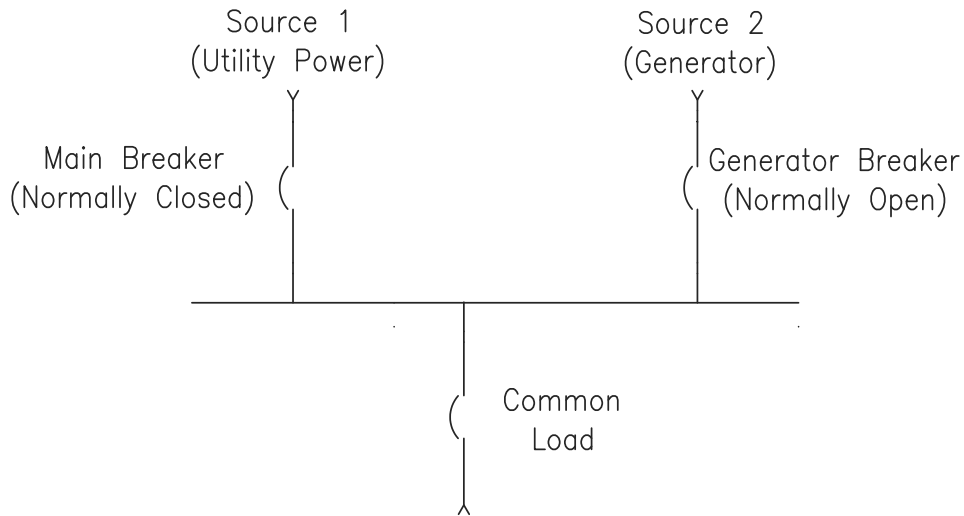


Configuration Information			Dimension in inches				Maximum kW Rating <sup>2</sup>			
Ampere Rating	Pull Section Required	Standard Main Device	Depth <sup>1</sup>	Pull Section Width	Main Section Width	Total Width	80% Rated Disconnect		100% Rated Disconnect	
							480V	208V	480V	208V
400	No	Sentron JD	20	-	32	32	213	92	266	115
600	No	Sentron LD	20	-	32	32	319	138	399	173
800	No	VL MG	20	-	32	32	425	184	531	230
1200	No	VL NG	20	-	32	32	638	276	797	345
1600	No	VL PG	38	-	32	32	850	365	1063	461
2000	No	WL	38	-	38	38	-	-	1329	576
2500	Yes	WL	38	32	38	70	-	-	1661	720
3000	Yes	WL	38	32	38	70	-	-	1993	864
4000	Yes	WL	38	32	38	70	-	-	2657	1151

<sup>1</sup> NEMA 3R ratings require a front extension, increasing depth by 11.25"

<sup>2</sup> Assumed power factor (PF) equal to 0.8 and calculated using Max kW = (V\*A\*1.73\*PF)/(1000)\*(Disconnect Rating)

# Sequence of Operation



## Loss of Utility Power

1. Open all distribution breakers
2. Open main (normal) breaker and rotate key interlock into open position
3. Connect generator cables to quick connects or standard mechanical lugs
4. Rotate key interlock into the closed position on generator breaker
5. Start generator and verify connections & phasing
6. Close generator breaker and appropriate distribution breakers

## Return of Utility Power

1. Open all distribution breakers
2. Open generator breaker and rotate key interlock to the open position
3. Insert key from lock and insert into main (normal) breaker
4. Shut down generator
5. Rotate key interlock on main breaker
6. Close main breaker

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