



SIEMENS Sentron JD Generator Quick Connect Switchboards Instructions

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SIEMENS Sentron JD Generator Quick Connect Switchboards



Product Information

Generator Quick Connect Switchboards

Siemens Energy Management Low Voltage and Products presents generator quick connect switchboards. These switchboards offer cam-type receptacles in addition to standard mechanical lugs, which allow for quick connection of a standby generator to a facility's normal main service entrance switchboard. The quick connects can be supplied with either Sentron or VL molded case circuit breakers and also with WL insulated case circuit breakers as the generator disconnect. These switchboards are not selections in COMPAS, so the order entry guide is designed to help with submitting orders for this new product offering.

Siemens Energy Management Low Voltage and Products is pleased to announce generator quick connect switchboards. These switchboards are not selections in COMPAS so this order entry guide is designed to help with submitting orders for this new product offering.

Product Description

Generator quick connect switchboards supply cam-type receptacles in addition to standard mechanical lugs for the quick connection of a standby generator to a facility's normal main service entrance switchboard.

Features and Functionality

- 600 volts AC maximum
- 4000 ampere maximum
- All standard front connected switchboard features
- Crouse-Hinds 4/0, 400A plug-in connectors are supplied as a standard, other connectors can be supplied if specified by the customer
- NEMA 1 and NEMA 3R enclosures, NEMA 3R enclosures are supplied with a front trap door to maintain the switchboard rating with cables connected
- A removable screw cover is supplied over the quick connects when they are not in use

- Each quick connect plug-in is labeled with it's intended connection (A, B, C or neutral phase)• Quick connects can be supplied in a standard lineup for new construction or remotely to a normal switchboard lineup for retrofit applications
- Cam-type receptacles and standard mechanical lugs for quick connection of a standby generator.
- Quick connects can be supplied with either Sentron or VL molded case circuit breakers and also with WL insulated case circuit breakers as the generator disconnect.
- The generator disconnect must be provided with mechanical interlocking with the normal main disconnect.
- Quick connects and the main disconnect can be supplied in a single section up to 2000 amperes.
- If above 2000 amperes, a pull section is required and must be selected in COMPAS.

Standards and Certifications

- UL891
- NEC702
- Florida Building Code section 420.4.2.9.7
- Other equipment is UL listed as applicable

Order Entry Information

The quick connects are priced at \$1690 per quick connect, assuming each quick connect is 4/0 and carries 400 amperes. The prices in table 2 must be added as a factory option. See table 1 for a summary of all of the configuration information and table 2 for all of the pricing information.

InformationQuick connects can be supplied with either Sentron or VL molded case circuit breakers and also, WL insulated case circuit breakers as the generator disconnect. This generator disconnect must be provided with mechanical interlocking with the normal main disconnect.Quick connects and the main disconnect can be supplied in a single section up to 2000 amperes. Choose "main service" as the section type in COMPAS to ensure only one device is configured per section (see figure 1). If above 2000 amperes, a pull section is required and must be selected in COMPAS (see figure 2).See table 1 for a summary of all of the configuration information and table 2 for all of the pricing information. The prices in table 2 must be added as a factory option as shown in figures 3 and 4. The quick connects are priced at \$1690 per quick connect assuming each quick connect is 4/0 and carries 400 amperes. The list price adders in table 2 are for all of the quick connects that would be required in the switchboard for each amperage and system phasing.

Configuration Information

Configuration Information			Dimension (inches)				
Amper e rating	Pull selectio n required	Main device	Section d epths	Pull secti on width	Main sect ion width	Total wid th	Device continuo us current rating s
400	No	Sentron JD, VL JG	20	N/A	32	32	80%, 100%
600	No	Sentron LD, VL LG	20	N/A	32	32	80%, 100%
800	No	VL MG, Sentron M D	20	N/A	32	32	80%, 100%
1200	No	VL NG, Sentron N D	20	N/A	32	32	80%, 100%
1600	No	VL PG, Sentron P D	28	N/A	38	38	80%, 100%
2000	No	WL	28	N/A	38	38	100%
2500	Yes	WL	38	32	38	70	100%
3000	Yes	WL	38	32	38	70	100%
4000	Yes	WL	38	32	38	70	100%

If the amperage is above 2000 amperes, a pull section is required and must be selected in COMPAS. Choose main service as the section type in COMPAS to ensure only one device is configured per section. See figure 1 for more information.

List Price Adders

Ampere rating	Quick connects per phase	Total list price adder (3-Phase, 4-Wire)	Total list price adder (3-Phase, 3-Wire)
400	1	\$8,788.00	\$7,030.40
600	2	\$15,818.40	\$12,303.20
800	2	\$15,818.40	\$12,303.20
1200	3	\$22,848.80	\$17,576.00
1600	4	\$29,879.20	\$22,848.80
2000	5	\$38,667.20	\$29,879.20
2500	7	\$52,728.00	\$40,424.80
3000	8	\$59,758.40	\$45,697.60
4000	10	\$75,576.80	\$58,000.80

Ampere Rating and Quick Connects per Phase:

Ampere rating	Quick connects per phase
400	1
600	2
800	2
1200	3
1600	4
2000	5
2500	7
3000	8
4000	10

Pricing Information:

Total list price adders are shown in table 2 for all of the quick connects that would be required in the switchboard for each amperage and system phasing. Total list price adder (3-Phase, 4-Wire) and Total list price adder (3-Phase, 3-Wire) are given in the table.

2,000 A/3 Main WL BREAKER

2,000 A/3 Main WL BREAKER

Designation *

2,000 A/3 Main WL BREAKER

Device

Mounting Type *

Fixed ☐ Narrow WL Section

Configuration

Rating Plug Amperage * 2,000

Frame Amperage * 2,000

Interrupting Rating * 85,000

Voltage Rating * 480VAC

Poles * 3

Operating Type * Automatic (Circuit Breaker)

Installation

Main Section Type *

Main Service

---Reset---

Auto

Main Service

Thy Main

Service Main + Panel

Figure 1 – Main Service Selection

Incoming

Incoming Termination * Cable

Incoming Location * Bottom

Incoming Position * Left

Incoming Bus Amperage * 2,000

☐ Series Rated

☐ **Pull Section Required ***

☐ Inverted Pull

Cable

Lug Type Mechanical

Cable Material Al/Cu

Cable Size 500 Kcmil

Cable Quantity per Phase 7

Figure 2 – Pull Section Required Adder

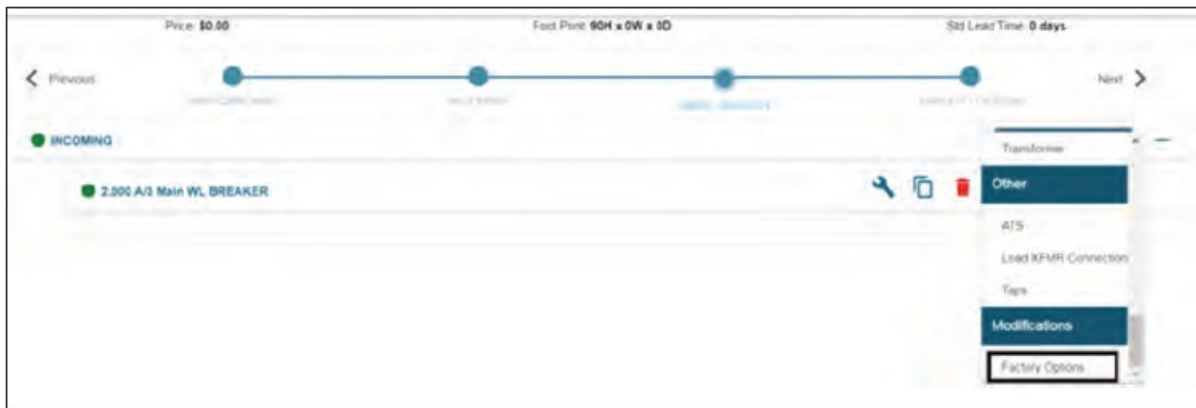


Figure 3 – Factory Options Selection

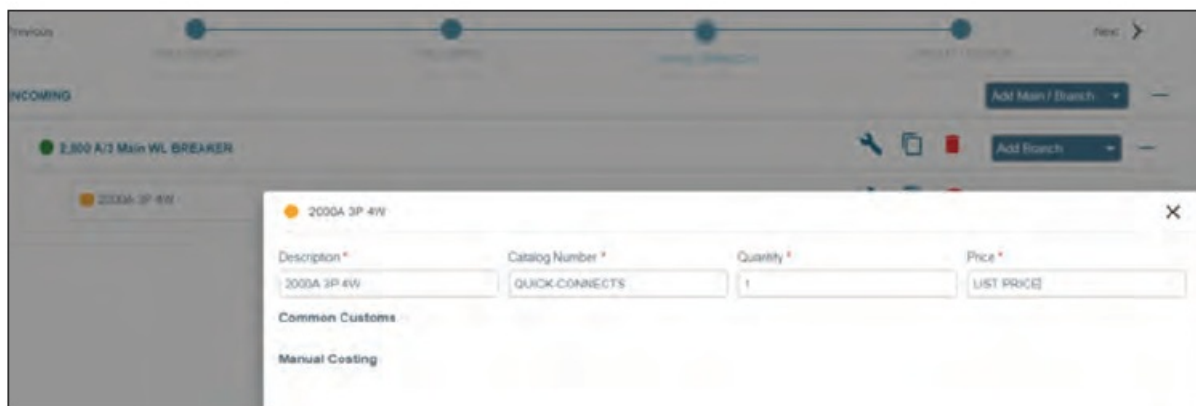


Figure 4 – Special Modification

Product Usage Instructions

To use the generator quick connect switchboards, follow the steps below:

1. Choose the amperage rating of the switchboard.
2. If the amperage is above 2000 amperes, a pull section is required and must be selected in COMPAS.
3. Choose the main device from the configuration information table.
4. Determine the number of quick connects per phase based on the amperage rating and information provided in the Ampere Rating and Quick Connects per Phase table.
5. If quick connects are needed, add them as a factory option as shown in figures 3 and 4.
6. Ensure that the generator disconnect is provided with mechanical interlocking with the normal main disconnect.
7. Choose main service as the section type in COMPAS to ensure only one device is configured per section.

If you have any questions regarding the guide or product, contact George Roscoe, Product Manager, Power Panels and Switchboards, at (770) 326-2046 or george.roscoe@siemens.com.

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Documents / Resources

	<p>SIEMENS Sentron JD Generator Quick Connect Switchboards [pdf] Instructions Sentron JD Generator Quick Connect Switchboards, Sentron JD, Generator Quick Connect Switchboards, Quick Connect Switchboards, Connect Switchboards, Switchboards</p>
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References

- [S Switchboards | Low-voltage “ power distribution | Siemens USA](#)