



SIEMENS Generator Quick Connect Switchboards User Guide

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SIEMENS Generator Quick Connect Switchboards



Generator Quick Connect Switchboards

Order Entry Guide

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

Standards and Certifications

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

Order Entry Information

Quick 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.

Table 1 Configuration Information

Configuration Information			Dimension (inches)				
Amper e rating	Pull selectio n required	Main device	Section d epths	Pull secti on width	Main section w idth	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%

Table 2 – 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

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The screenshot displays the configuration interface for a "2,000 A/3 Main WL BREAKER". The interface includes a sidebar with a "Previous" button and a "SWITCHBOARD" section containing an "INCOMING" status and the selected breaker. The main configuration area is divided into sections: "Designation" (2,000 A/3 Main WL BREAKER), "Device" (Mounting Type: Fixed, Narrow WL Section checkbox), "Configuration" (Rating Plug Amperage: 2,000, Frame Amperage: 2,000, Interrupting Rating: 65,000, Voltage Rating: 480VAC, Poles: 3, Operating Type: Automatic (Circuit Breaker)), and "Installation" (Main Section Type dropdown). The "Main Section Type" dropdown is open, showing options: "Main Service" (selected), "Auto", "Main Service", "Thru Main", and "Service Main + Panel".

Figure 1 – Main Service Selection

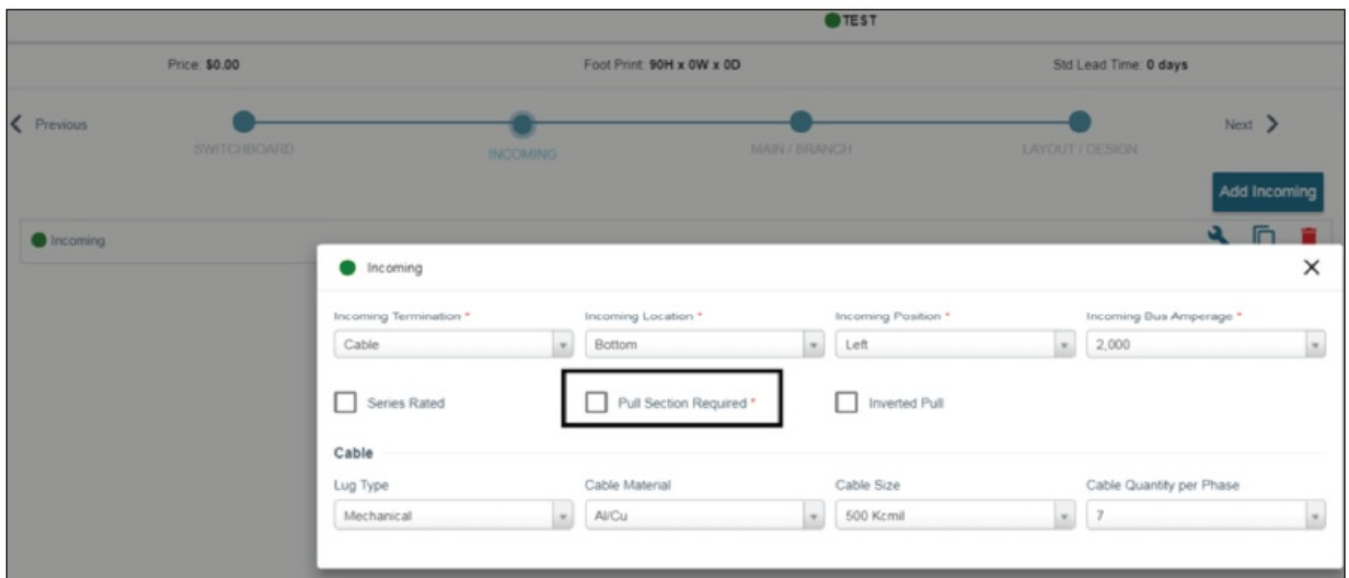


Figure 2 – Pull Section Required Adder



Figure 3: Factory Options Selection

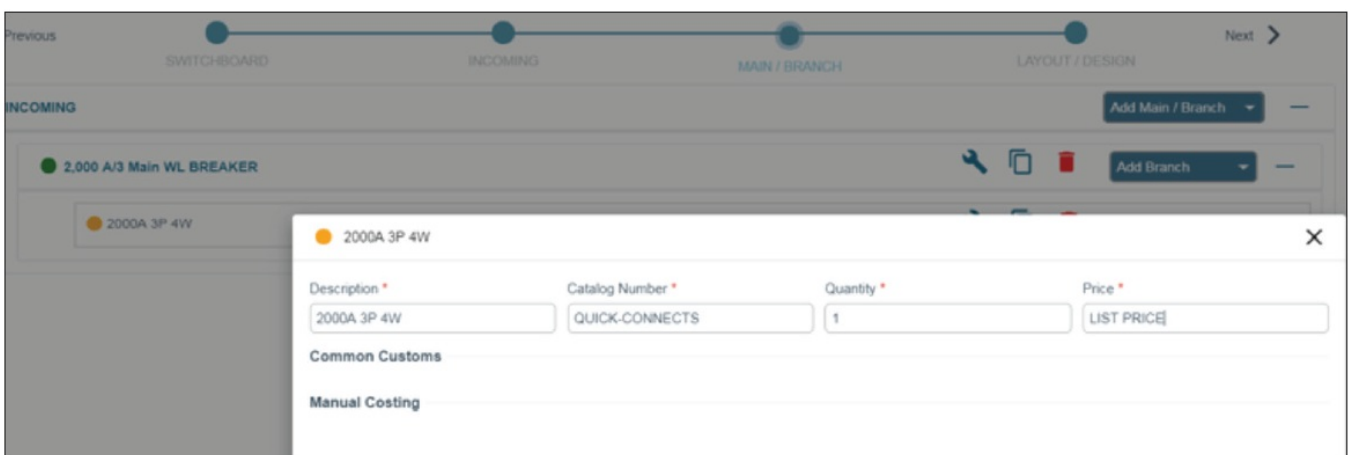


Figure 4 – Special Modification

For questions regarding this guide, contact:


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Documents / Resources

	<p>SIEMENS Generator Quick Connect Switchboards [pdf] User Guide Generator Quick Connect Switchboards, Quick Connect Switchboards, Connect Switchboards, Switchboards</p>
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References

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