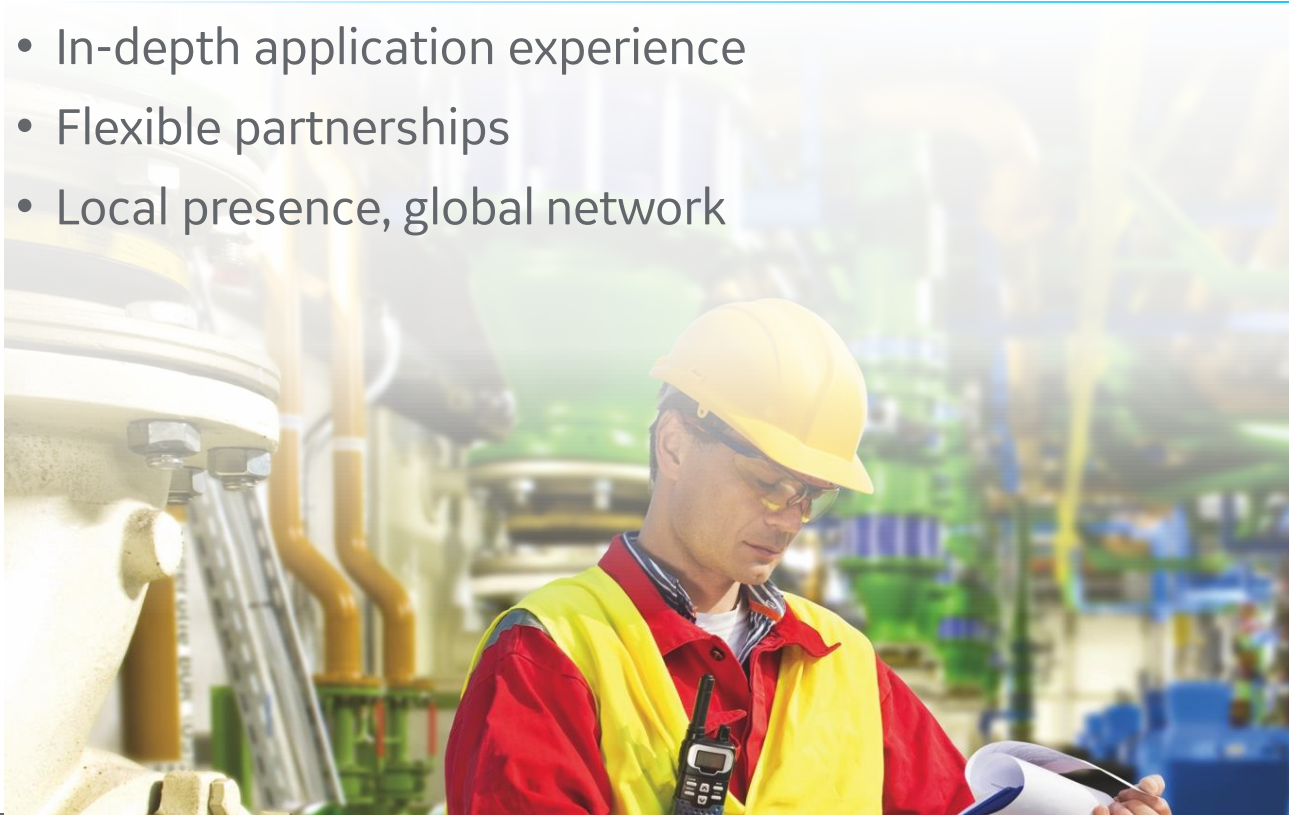


# Low-Voltage Distribution Equipment

Designing components for **today's** needs and **tomorrow's** opportunities

- In-depth application experience
- Flexible partnerships
- Local presence, global network



[AKD-20](#) (NEMA)

## Switchgear



[E9000\\*](#) (NEMA)  
[SEN Plus](#) (IEC)

## Motor Control Centers



[QuiXtra](#) (IEC)  
[SEN Plus](#) (IEC)

## Distribution Panels



\* Indicates a trademark of the General Electric Company and/or its subsidiaries.

# QuiXtra 4000 & 630 LV Switchboards

Low voltage **switchboards** manufactured to meet IEC standards.

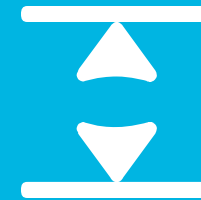
- Complete solution for distribution boards up to 4000A, 690V.
- Delivered as a flat kit to be assembled, equipped, and wired by the panel builder.
- 9 enclosure sizes



## Value to Panel Builders



- **Configure, design & quote in as little as 2 hours** with GE's PowerDesign software.



- **Easy installation and modification:** Modular units with height increments of 50mm.



- **Certified for use in extreme seismic conditions:** IEC 61439 compliance.

5

- **5 steps** to assemble QuiXtra switchboards.

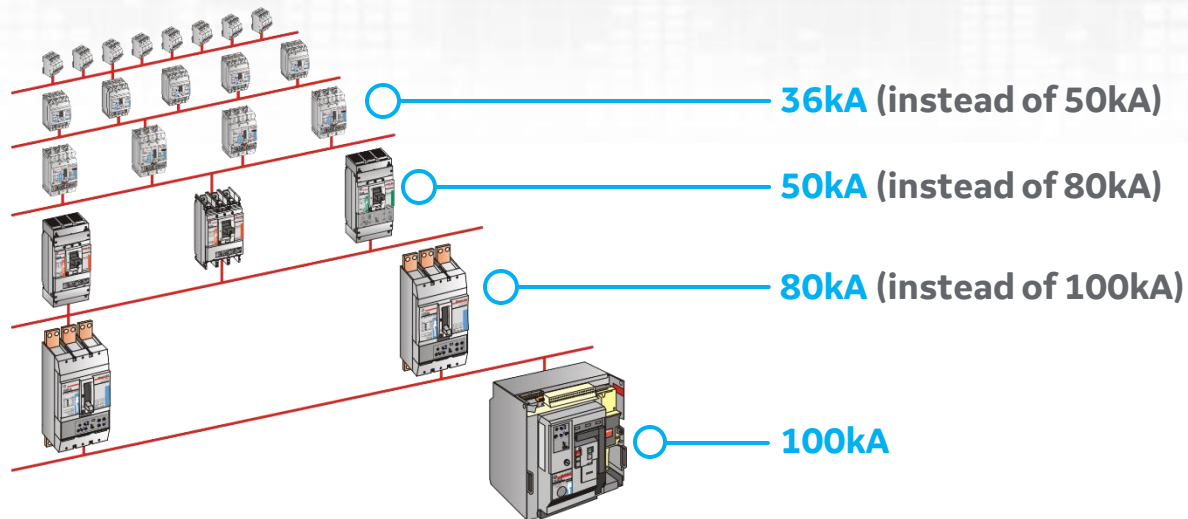


# Lower total system cost with QuiXtra

## How is this achieved?







Installing an upstream device that limits the prospective short-circuit values will enable the user to utilize downstream devices with lower breaking capacities.

GE's breaker features, such as Back-Up Protection, Selectivity Plus and ArcWatch, allow coordination between devices and excellent breaking capacity at a lower cost.



## Value to Panel Builder

Example of a project using line ups containing 80 MCCBs (100kA); 50 MCCBs (80kA) and 30 MCCBs (50kA)

\$3500 <u>100kA - 800A</u> MCCB COST		.....>	\$2900 <u>80kA - 800A</u> MCCB COST		x 80
\$980 <u>80kA - 250A</u> MCCB COST		.....>	\$640 <u>50kA - 250A</u> MCCB COST		x 50
\$150 <u>50kA - 100A</u> MCCB COST		.....>	\$130 <u>36kA - 100A</u> MCCB COST		x 30

# \$65,600

EST COST REDUCTION WITH  
BREAKERS FOR THIS  
EXAMPLE

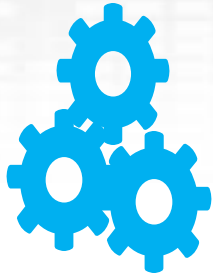
# Reduced Assembly Time with QuiXtra

## How is this achieved?

QuiXtra was designed to make the assembly process smart and simple. With features such as door-ready mounts, optimized terminal bar arrangements, and pre-assembled captive screws for the cover plates, you can shorten the process to save your business time and money.



20 to 40% quicker to assemble



Less parts in inventory

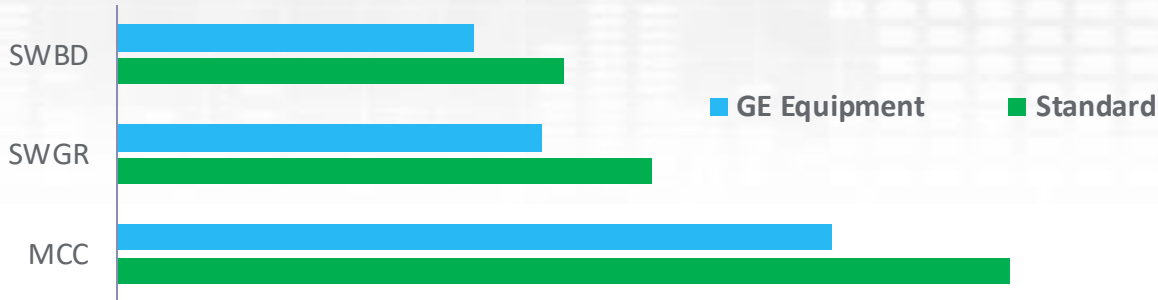


Increase in Functional Floor Space

## Value to Panel Builder

### Assembly Time (Hour/Column)

Example of a project using 40 switchgears (3200A Incomer, 1600A Feeder) 60 MCCs and 60 switchboards (3200A Incomer, 1600A Feeder)



\$22,000

ESTIMATED COST REDUCTION BASED ON \$25/HR LABOR COST



# SEN Plus LV Switchgear & MCC

Low voltage **motor control and switchgear** equipment manufactured to meet IEC standards.

- Modular design
  - Fixed version
  - Withdrawable version
  - Plug-in version
- Ratings
  - Up to 690V AC
  - Up to 7800A
  - Up to 100kA short-circuit withstand current



## Value to Panel Builders



- **Meet more spec requirements** with three unique modular designs.



- **No special tools** needed for assembly.



- **Dust and waterproof: IP30** up to IP54 as per IEC 529-1.



- **Internal arc test compliance** (IEC/TR 61641)



# Copper Savings with **SEN Plus** Split Busbar Design

## How is this achieved?

**SEN Plus** Split Busbar Technology uses 30% less copper than standard busbar, saving you money.

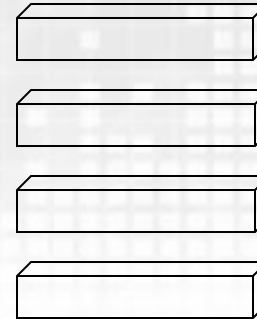
Clamped busbar connections and optimized breaker terminals result in exceptional thermal behavior for the switchgear.



## Value to Panel Builder

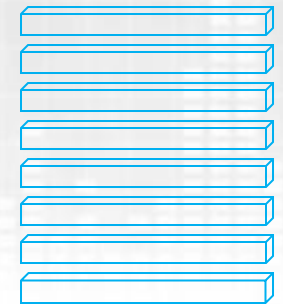
Project example using 40 switchgears (3200A Incomer, 1600A Feeder) and 60 MCC's

**STANDARD  
BUSBAR**



\$184k

**SEN PLUS SPLIT  
BUSBAR**



\$129k

----->  
**-30%**

**\$55,000**

**ESTIMATED MBB COPPER COST  
REDUCTION BASED ON \$17/KG  
AVERAGE COPPER PRICE**

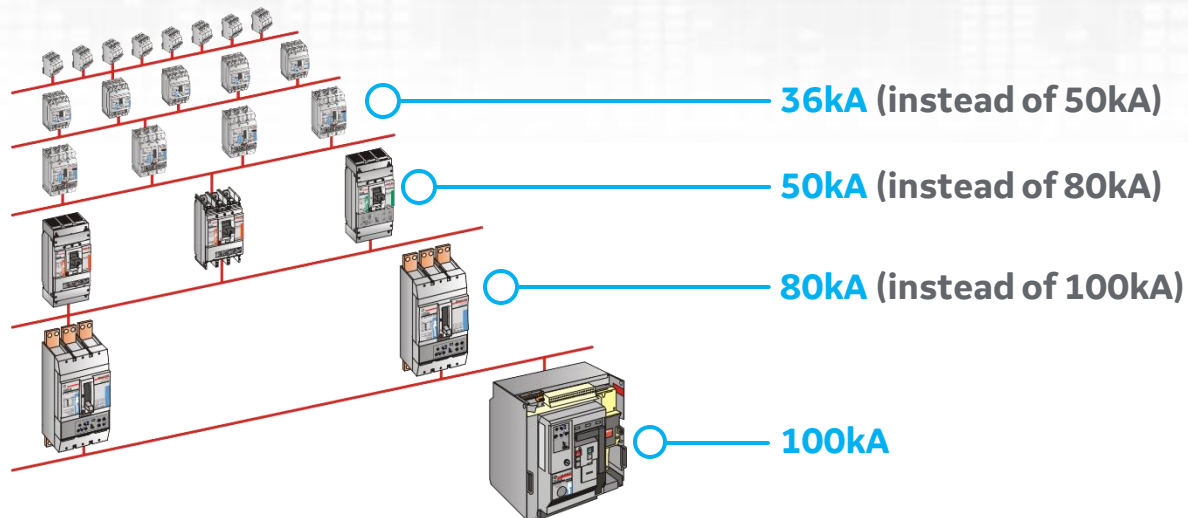


# Lower total system cost with **SEN Plus**

## How is this achieved?

Installing an upstream device that limits the prospective short-circuit values will enable the user to utilize downstream devices with lower breaking capacities.

GE's breaker features, such as Back-Up Protection, Selectivity Plus and ArcWatch, allow coordination between devices and excellent breaking capacity at a lower cost.



## Value to Panel Builder

Example of a project using line ups containing 80 MCCBs (100kA); 50 MCCBs (80kA) and 30 MCCBs (50kA)

\$3500 <u>100kA - 800A</u> MCCB COST	.....>	\$2900 <u>80kA - 800A</u> MCCB COST	x 80
\$980 <u>80kA - 250A</u> MCCB COST	.....>	\$640 <u>50kA - 250A</u> MCCB COST	x 50
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# \$65,600

EST COST REDUCTION WITH  
BREAKERS FOR THIS  
EXAMPLE

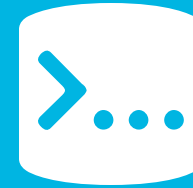
# Evolution Series E9000\* LV MCC

Low voltage **motor control center** manufactured to meet NEMA, UL, and IEEE standards.

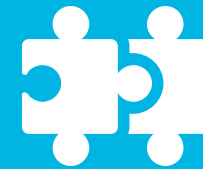
- Plug-In feeder circuit breakers now up to 600A.
- Minimum 65KAIC bus bracing allows for system expansion.
- Snap-in shelving allows for easy shelf movement.



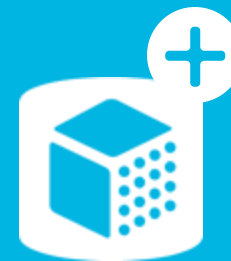
## Value to Panel Builders



- **World-class programmable logic control.**



- **Flexible design & last point configuration** by the panel builder.



- **Easy expansion** for increased loading and system changes; no modifications or transition sections necessary.





# AKD-20 LV OEM Express

Low voltage **switchgear** manufactured to meet ANSI standards.

- Designed to address customer needs
  - Arc Flash Protection
  - Footprint reduction
  - System reliability
- Ratings
  - 100kA short circuit rating
  - Up to 5000A
  - Up to 200kA fault interruption rating



## Value to Panel Builders



- **Increased uptime** via improved arc flash protection and system reliability.



- **Modular package:** single sections can be ordered, maximizing design flexibility.



- **Optimized footprint:** most common configurations now fit into a smaller area.



# Product Brochures

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- **IEC Distribution Panels**

- QuiXtra - [link](#)
- SEN Plus - [link](#)

- **IEC Motor Control**

- SEN Plus - [link](#)

- **NEMA Motor Control**

- E9000\* - [link](#)

- **NEMA Switchgear**

- AKD-20 - [link](#)



