

## POWER DISTRIBUTION SERVICES

# Low-voltage motor control center direct replacement bucket for GE 7700

Siemens' low-voltage motor control center (MCC) direct replacement buckets combine custom engineering with the latest technology to address limited replacement parts availability and bucket obsolescence.

Replacement MCC buckets provide a cost-effective way to extend the life of existing equipment without the cost and extensive downtime associated with all new equipment.

### Why replacement units

Replacement buckets plug directly into the existing motor control center to extend equipment life and are constructed and certified to the exact same UL 845 standards that new MCC assemblies are constructed. Replacement MCC buckets enable retrofitting of aging MCCs with the most up-to-date technology including soft starters, variable frequency drives, surge protection, metering and communications for:

- Increased reliability and performance
- Reduced operating and maintenance expenditures
- Reduced downtime and minimal changeover time during upgrades
- Preserved investment in existing MCCs
- Improved employee safety

### Why Siemens

- Custom engineered configurations
- Standardized design utilizing Siemens 3VA molded case circuit breakers
- Rear-mounted, self-aligning copper stabs that connect to the original bus
- Enhanced safety with integrated DAS arc flash resistant technology, and the latest in smart MCC technology options
- Available for most applications, including safety related.

**Standardized design** – Siemens has been engineering retrofit and replacement solutions for electrical power distribution equipment such as medium-voltage vacuum roll-in replacement circuit breakers and low-voltage replacement circuit breakers since 1980. Our low- and medium-voltage circuit breaker solutions utilize common operators for all of our designs. Our custom engineered Siemens and non-Siemens model MCC replacement units utilize this same philosophy and offer a standard design using our 3VA molded case circuit breaker for all new MCC replacement units.

**Modular design that connects to the original bus** – Siemens' MCC replacement units are designed as self-contained modular units which meet UL and NEMA standards. They come with rear-mounted, self-aligning copper stabs that firmly grasp onto the original bus. From 22 mm to 30 mm pilot devices, and from direct starters to world-class drives, Siemens MCC replacement units have features and options to meet many specific needs.

**Smart MCC technology** – Siemens Smart MCC replacement units are networked, NEMA compliant MCC units that can interface and communicate on most internet protocols and many third-party building management



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systems. They incorporate intelligent devices to control and monitor motor operation, energy consumption, and power quality. Smart MCCs rapidly communicate with programmable logic controllers (PLCs) or process control systems via a data network.

Smart MCC units can be internally interconnected using communication protocols which incorporate intelligent devices such as SIMOCODE pro motor management systems, the latest 3RW 44 soft starters, SIMATIC PLCs, Siemens' variable-frequency drives (VFDs), and other smart components. The Siemens Sm@rtGear™ power distribution solution is also optionally available.

**Replacement units for safety related applications** – We design MCC bucket replacements to meet original qualifications, offering components without microprocessors for safety related applications. Sirius NEMA labelled contactors are combined with a 3VA protective device available with a thermomagnetic non-electronic tripping design. We offer bimetallic ambient-compensated overloads, or solid-state if desired.

**3VA molded case circuit breaker features for a variety of applications:**

3VA molded case circuit breakers offer safe, efficient, and variable application options for low-voltage power distribution whether in industrial applications, infrastructure, or buildings.

- Compliance with global standards and certifications
- Extensive selection of internal accessories (auxiliary and alarm switches, shunt trips), that are universal to the product line
- Power metering and communication capability with Modbus, Profibus, Profinet protocols
- DAS maintenance mode available to reduce arc flash

[usa.siemens.com/lvmccreplacements](http://usa.siemens.com/lvmccreplacements)



3VA molded case circuit breaker

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Order No. SIDS-B40211-00-4AUS  
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