

*Low Voltage Power Products
Refurbishing & Upgrades*

Let the experience of
SQUARE D® Services
work for you



SQUARE D
Schneider Electric
Building a New Electric World

SQUARE D® Services

Your Source for Low Voltage Service Solution Excellence

SQUARE D® Services brings together exceptional low voltage circuit breaker, engineering and installation expertise in complete service solutions designed to save time and money.

We offer innovative ways to minimize downtime, improve reliability and extend the life of existing equipment.

Our solutions maximize your equipment investment and reduce risks. We offer years of experience in quality service and product design. This is evident in our engineering expertise, turnkey and project management capabilities, on-site and support services, and warranty programs.

Enhanced

Safety and reliability

Reduced Maintenance

Less Risk of Downtime



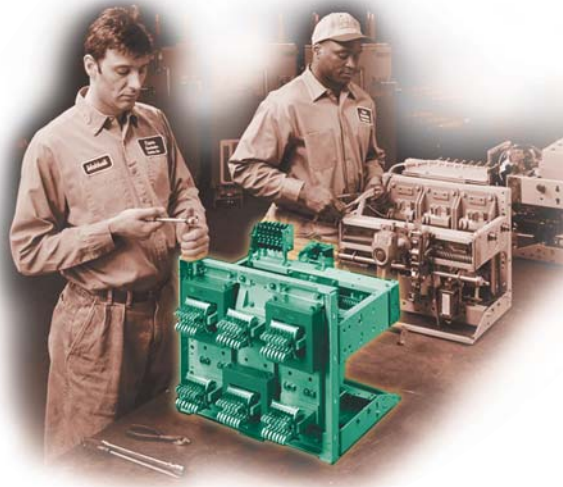
Direct Replacement Circuit Breakers

SQUARE D Services offers a custom-engineered, low voltage direct replacement circuit breaker solution to modernize and extend the life of existing switchgear using MASTERPACT® circuit breakers. Designed to fit into an existing switchgear cell with minimal modification, MASTERPACT circuit breakers represent a state-of-the-art solution for switchgear upgrades – at a fraction of the cost and installation time of new equipment. Available for most manufacturers' 600 V ANSI switchgear, the direct replacement circuit breaker solution:



- Enhances electrical system reliability
- Requires minimal downtime for installation compared to new equipment
- Lowers maintenance and operating expenses
- Eliminates the need for obsolete or unavailable spare parts
- Is installed, tested and commissioned by SQUARE D Service representatives
- Features a one-year equipment warranty





Qualified technicians recondition the circuit breaker to extend the life of your equipment and improve reliability.

Circuit Breaker Retrofill

Circuit breaker retrofill solutions are a cost-effective method of upgrading and extending the life of existing switchgear. This “cell within a cell” retrofill solution provides a MASTERPACT cradle and circuit breaker, along with a new racking mechanism, and primary and secondary connections in each switchgear cell. Existing cells are modified to accept the new cradle and circuit breaker, including a custom-engineered connection between the cradle and the switchgear line and load side bus. The retrofill process is overseen by factory-trained technicians and is available for most brands of 600 V ANSI switchgear. In addition, a circuit breaker retrofill:

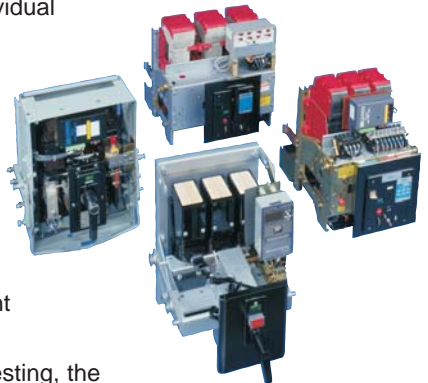


- Reduces downtime costs compared to new switchgear installation
- Provides a cost-effective electrical system upgrade
- Maintains electrical system integrity during the upgrade
- Eliminates the need for obsolete or unavailable spare parts
- Features a one-year equipment warranty

C5 RECONDITIONING Program

The cost-effective C5 RECONDITIONING program provides the industry’s most comprehensive refurbishment and reconditioning of all major brands of low voltage power circuit breakers. Circuit breakers are renewed for a fraction of the cost of buying new replacements. Plus, circuit breakers can be upgraded with solid state RMS sensing technology. The program includes the five Cs of reconditioning:

- **Checking.** Following the complete disassembly of the circuit breaker, individual components are checked for wear
- **Cleaning.** Key components are cleaned, re-plated, re-painted and lubricated
- **Correcting.** Identified problems are corrected through refurbishment or component replacement
- **Calibrating.** Each circuit breaker is calibrated to meet original equipment specifications
- **Certifying.** After re-assembly and testing, the circuit breaker is certified, guaranteeing many more years of reliable performance



Solid State Trip Unit Retrofit

As an option under the C5 RECONDITIONING program, a solid-state trip unit retrofit brings a low voltage, power air circuit breaker to current standards of overcurrent and ground fault protection. This is accomplished by replacing the old direct operating electromechanical trip unit with new current sensors, a self-powered solid-state electronic trip unit, tripping actuator and all copper connectors and mounting parts. Benefits to choosing this retrofit include:

- **Reliability.** Older type air circuit breakers – fitted with the original series electro-mechanical trip units – do not always function reliably. Tripping characteristics become non-repeatable and coordination difficult
- **Cost savings.** This is a cost-effective alternative to upgrade to new circuit breaker technology
- **Flexibility.** Electronic protection provides more functions, as well as a vehicle for monitoring and communications.

The MASTERPACT® and MICROLOGIC® Lines

MASTERPACT NT/NW universal power circuit breakers are designed to protect electrical systems from damage caused by overloads, short circuits and equipment ground faults.

Providing the latest in breaker technology, MASTERPACT circuit breakers feature high ampere interrupting and short-time current ratings, MODBUS® communication protocol and field-installable devices, including sensor plugs and accessories.

Additional benefits include:

- Drawout breakers with four racking positions with status indicator on cradle
- High ampere interrupting rating (AIR)
- High short-time current rating
- Drawout or fixed mount, 3- or 4-pole construction
- Integral ground-fault protection for equipment
- Protective relaying functions
- Zone-selective interlocking (ZSI), which can reduce damage in the event of a fault
- Field-installable accessories
- Constructions that meet UL 489, UL 1066, ANSI, IEC 60947-2 and CE Mark standards

For “smarter breakers,” a complete line of MICROLOGIC trip units are available for use with MASTERPACT circuit breakers.

These trip units provide advanced functionality, such as a communications interface, power metering and monitoring capabilities, which allow for integration and coordination of your electrical system.



MICROLOGIC Trip Units



MASTERPACT NW
Circuit Breaker

MASTERPACT NT
Circuit Breaker

Why Choose SQUARE D® Services?

SQUARE D Services offers the widest range of reliable solutions to extend the life of your electrical equipment. Our products and services are supported by the industry's top electrical engineering talent and include a one-year warranty. SQUARE D Services is backed by a national network of service locations and qualified experts. Emergency services are available 24 hours a day, 7 days a week.

Contact your Square D sales representative for additional information, call us at 1-888-778-2733 or visit www.SquareD.com.



SQUARE D
Schneider Electric

Building a New Electric World