

Masterpact™ NW Remote Racking Device



Make the most of your energySM

Schneider
Electric™

Enhance the safety of maintenance personnel



Schneider Electric's remote racking device for Square D™ Masterpact NW circuit breakers is designed to help you reduce the arc flash safety hazard for personnel during installation, startup and maintenance procedures.

The NFPA 70E® and CSA Z462 safety standards influence the electrical safety related work practices and procedures for employees who are exposed to an electrical hazard in the workplace. One of these hazards is the arc flash hazard which is defined as “a dangerous condition associated with the possible release of energy caused by an electrical arc.” The potential incident energy level posed by the hazard may be used to determine the necessary personal protective equipment (PPE) needed for workers or the approach boundaries which may exist near or around the equipment.

The NFPA 70E and CSA Z462 safety standards note that one of the methods to reduce the exposure of high level energy sources is remote racking. The Masterpact NW remote racking device provides maintenance personnel the ability to rack a low-voltage draw-out breaker from a remote location. This allows the personnel to be clear of the arc flash boundary area.

Applications



Water Wastewater



Oil & Gas



Industrial Users



Data Centers



Healthcare

Overview



Features and Benefits

- Significantly reduce the risk of exposure to direct blast or projectiles during an arc flash event
 - Personnel can operate the racking mechanism of circuit breakers from a distance of 30 ft. allowing operators to be outside of the arc flash boundary area
- Enhance operator peace of mind with multiple safety features:
 - Self-test for correct operation gives visual indication that the device is working properly
 - Through-the-door design allows the equipment door to remain closed while the device is installed
 - Visual indication notifies the operator when the racking mechanism has completed its cycle
- Improve efficiency of maintenance and installation teams with a lightweight and portable design:
 - Device is easily connected and operated by one person
 - Easily transferred from one circuit breaker to another during maintenance or installation procedures
 - No application limitations based on height or position of circuit breaker
 - Compact protective case with retractable handle and wheels can be easily maneuvered even in tight spaces
- Aid in user compliance with arc flash personnel protection as listed in NFPA 70E and CSA Z462 safety standards

Lightweight, Portable Device*



1 Drive Unit

- Portable, compact unit weighing just 15 lbs.
- Simple attachment to the front of the circuit breaker while the door is closed

2 Control Unit

- Designed for safety and operator peace-of-mind
- Visual indication when the circuit breaker has successfully changed positions
- Self-test indication that device is working properly
- Large push buttons to operate the motorized racking mechanism with or without gloves

3 Control Cable

- 30 ft. length allows operator to move outside of the arc flash boundary area during rack-out and rack-in procedures
- Additional distance can be achieved by connecting multiple cables

4 Power Cable

- Can be used with any 120 Vac power source

*Other items also included with portable device: alignment and drive installation tools, mounting bracket and drive shaft.



1



2



3



4



> Masterpact circuit breakers:
Offer smaller footprints, robust design with long service life and little maintenance.

> Power-Zone 4™ Low-voltage Switchgear:
Low-voltage, metal-enclosed, draw-out switchgear designed to provide superior electrical distribution, protection and power quality management for the entire facility.

Control Unit



1 LED Check

Safely identify the control unit is in working order before operation

2 Stop Release

Safety feature that must be pressed before operation of motor. Notifies operator of cycle completion when light is extinguished

3 Insert Circuit Breaker LED

Notifies operator when racking mechanism is operating in insert mode

4 Operate Motor

To enhance safety, this button must be continuously pressed for the motor to operate

5 Selector Switch for Racking Direction

Simple selection of motor direction (shown in rack-out mode)

6 Over-torque Reset

Indicates over-torque condition by illuminating this yellow push button. The push button allows simple reset of device once condition is cleared

7 Withdraw Circuit Breaker LED

Notifies operator when racking mechanism is operating in withdraw mode

8 Power (On/Off)

Red illuminated button clearly indicates control unit is powered on



> POWER-STYLE QED-2

Low-voltage Switchboards:

Low-voltage, dead-front switchboards with individually mounted or stacked Masterpact NW drawout circuit breakers as mains and feeders.

> QED-6™ Rear Connected Switchboards:

Features small, flexible footprint with segregated front access to all wiring, and easy-to-add “smart” functionality.

Configurations

Applicable to Square D Masterpact NW circuit breakers installed in the following configurations:



- Power-Zone 4 Switchgear
- QED Switchboards
- Model 6 Motor Control Centers
- Equipment supplied by OEM partners
- Retrofit to existing equipment



To learn more, please visit www.schneider-electric.us or call us today at 1-888-SQUARED (1-888-778-2733).

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Schneider Electric USA, Inc.

1415 S. Roselle Road
Palatine, IL 60067
Tel: 847-397-2600
Fax: 847-925-7500
www.schneider-electric.us

Schneider Electric Canada, Inc.

19 Waterman Avenue
Toronto, Ontario M4B 1Y2
Tel.: 1-800-565-6699
www.schneider-electric.ca



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