

# Recloser Test Sets

## Models RCL-19 and RCL-47



### Testing Applications

- Verify the proper operation of automatic circuit reclosers under simulated fault conditions
  - Efficiently test virtually all single or three phase direct acting reclosers and sectionalizers
  - Perform primary injection testing of electronically controlled reclosers
- Complete **computer control** provides **fully automated** test procedures
  - **Simple** operation and **precise results** increase operator **productivity, efficiency** and **accuracy**
  - **High accuracy** measurement of circuit, **full waveform** representation, and **true RMS value** of current pulse
  - **ISO17025 calibration** upon request

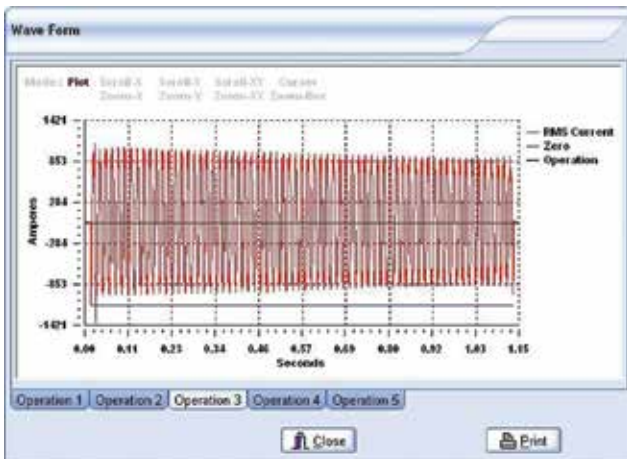


Model RCL-19



## Safety and Design Features

- Circuit breaker protection
- Overload and over temperature protection
- Short circuit protection
- Output current indicator red-green light
- Output will be terminated if the recloser exceeds the allowed time to lock-out
- Emergency Off pushbutton
- Security circuit
- Thermal overload protection
- Desktop Computer and WIN RCL software included
- Interface port for optional printer
- Casters with brakes for ease of mobility
- Tow ring and lifting eyes
- Operation/maintenance manual



## Overall Functional Description

The Recloser Test Set is able to perform, display and record the following tests:

- **Minimum Trip Current** – This test determines the recloser's minimum operating point (usually two times the rating of the coil). The test is performed automatically by increasing the current flow through the recloser's operating coil until operation begins. The computer will detect, measure, and display this current level. The test set will continue to raise the current after recording the minimum trip current in order to determine recloser lock out.
- **Time/Current Characteristics** – This test determines operating characteristics of the recloser by subjecting it to simulated fault conditions, at recommended current levels. The current, trip times, reclose times and total clearing time are automatically measured and displayed on the computer screen.
- **Sequence of Operations** – This test verifies the number and sequence of operations of the recloser until lockout. The computer displays a warning if too many or too few operations occur.
- **Operating Times** – The computer records and displays the elapsed time of each operation.
- **Reclosing Times** – The computer records and displays the interval between each operation.
- **Total Clearing Time** – The computer records and displays the total elapsed time until lockout.
- **Sectionalizer Lockout Test** – This test is performed by pulsing current through the sectionalizer to simulate a recloser operation so that the sectionalizer goes through its normal sequence to reach lockout.

**Build a test template library** to re-use template data that is common from one recloser to another. Eliminate the need to manually adjust the output current for every recloser tested. Templates also store the tap and vernier position used at each test level. Recall a recloser's original test settings and the vernier will be automatically positioned for each test.

**Store test reports electronically.** The RCL software keeps a history of all recloser and sectionalizer tests that have been performed. You can sort by a particular test item and organize how you want the results to appear. Browse the results menu to find a previous test or see the most recent test highlighted. Search for a specific result by clicking the search field and entering a search value. Previous test data is at your fingertips. Click Test Report to generate a report that can be previewed on screen before sending it to a printer.

	MODEL	RCL-19	RCL-47
INPUT	Voltage/Current (one must be specified)	208-220 V, 100 A 230-240 V, 90 A 416-440 V, 50 A 460-480 V, 45 A	440 V, 125 A 480 V, 115 A
	Frequency	Single Phase, 60 Hz	Single Phase, 60 Hz
		(Other voltages and frequency are available upon request)	
OUTPUT	Power	19 kVA	47 kVA
	Tap		
	1	0-7.50 VAC, 2500 A	0-7.50 VAC, 2500 A
	2	0-15.0 VAC, 1250 A	0-15.0 VAC, 2500 A
	3	0-30.0 VAC, 625 A	0-30.0 VAC, 1560 A
	4	0-60.0 VAC, 313 A	0-60.0 VAC, 783 A
	5	0-150 VAC, 125 A	0-150 VAC, 313 A
	6	0-300 VAC, 63 A	0-300 VAC, 156 A
7	0-600 VAC, 32 A	0-600 VAC, 78 A	
DUTY CYCLE		30 min ON / 30 min OFF @ 100% of output rating 90 sec ON / 5 min OFF @ 200% of output rating 30 sec ON / 5 min OFF @ 300% of output rating	
INSTRUMENTATION	<b>Current Measurement</b>		
	Ranges	0-30/100/300/3000/7500 A	
	Accuracy	± 0.5% of each range, ± last digit	
	<b>Timer</b>		
	Ranges	0-9999 sec, 0-9999 cycles	
Resolution	0.001 second; 0.01 cycles		
Accuracy	±1 digit or 0.1% of reading (seconds mode) ±1 digit or 1% of reading (cycles mode)		
DIMENSIONS & WEIGHT	Length	57" (1448 mm)	61" (1549 mm)
	Width	30" (762 mm)	34" (864 mm)
	Height	44" (1118 mm)	48" (1219 mm)
	Weight	1500 lbs (680 kgs)	1835 lbs (832 kgs)
SHIPPING SIZE	Length	69" (1753 mm)	74" (1880 mm)
	Width	38" (965 mm)	45" (1143 mm)
	Height	66" (1676 mm)	72" (1829 mm)
	Weight	1700 lbs (771 kgs)	2000 lbs (907 kgs)
CABLES INCLUDED	Output Leads 4/0 (107 mm <sup>2</sup> )	6' (2 m) 2 pair	6' (2 m) 1 pair
	Output Leads 2 ga.	6' (2 m) 1 pair	6' (2 m) 1 pair
	Output Leads, 500 MCM	n/a	6' (2 m) 2 pair

## Options

- TCC (Time, Current, Curve) software compares test results to factory specification for operation and timing curves for instant Go/No-Go results
- Inkjet Printer
- Safety Foot Switch
- Extra length output leads
- Heavy-duty, coated-canvas Protective Dust Cover
- ISO17025 calibration



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**PHENIX**  
**TECHNOLOGIES**

**WORLD HEADQUARTERS**

**Phenix Technologies, Inc.**  
75 Speicher Drive  
Accident, MD 21520 USA  
Ph: +1.301.746.8118  
Fx: +1.301.895.5570  
Info@phenixtech.com

**BRANCH OFFICES**

**Phenix Systems AG**  
Riehenstrasse 62A, 4058 Basel, Switzerland  
Ph: +41.61.383.2770, Info@phenixsystems.com

**Phenix Asia**  
Zhong Cheng Rd, Sec 1, No 177, 2F, Taipei 11148 Taiwan  
Ph: +886.2.2835.9738, Fx: +886.2.2835.9879, Info@phenixasia.com

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