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FULL-FUNCTION TEST KIT IDENTIFICATION

Figure 1: Full-function Test Kit and Case Contents

A Power Cable Receptacle
B Power Switch
C Line Fuse Holder and Voltage Selector
D Modbus Serial Connection
E Trip Unit Test Cable 10-pin Port
F Interface Screen
G Keys
H 2-pin Test Cable (STR Trip Units)
I 7-pin Test Cable (MICROLOGIC® Trip Units)
J 10 A Filtered Power Cable

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Technical Specifications

Table 1: Full-function Test Kit Technical Specifications

Parameters			Value
Fuse	120 Vac Applications		2 A, 250 Vac, Fast-blow (Recommended Fuse: Bussman Part No. AGC-2)
	230 Vac Applications		1 A, 250 Vac, Fast-blow (Recommended Fuse: Bussman Part No. AGC-1)
Nominal Operating Voltage			115 230 Vac
Operating Voltage Range			120 144 Vac
			207 253 Vac
Operating Frequency			50 Hz
			60 Hz
Operating Temperature			-20 50 °C
Storage Temperature			-20 60 °C
24 Vdc Power	Nominal Voltage		24 Vdc
	Tolerance		22.8 25.2 Vdc
	Maximum Output Current		100 mA
Trip Time Measurement	Accuracy		±5 mS
	Resolution		1 mS
	Range		0 3000 sec.
Fault Signal	Voltage Source	Accuracy (Percent Error in Amplitude + Percent Error in Frequency)	±3%
		Nominal Frequency	60 Hz
		Amplitude Range	0.031 1.5 at 60 Hz Vrms
	Current Source	Accuracy	±3%
		Amplitude Range	0.020 2.3 Amperes dc
Installation Category (Overvoltage Category)			Category II
Maximum Power Rating			60 W

Determining Trip Unit Compatibility

Table 2: Trip Unit Compatibility

Trip Unit Family/Type		Test Cable	Test Functions				Inhibit Functions	
			Automatic Trip	Manual Trip	Mechanical Operation	ZSI Function	Ground-fault Inhibit	Thermal-imaging Inhibit
Non-communicating	STR22ME, STR22GE, STR22SE, STR23SE, STR23SP, STR43ME	2-Pin Test Cable	✓	✓	✓			
	STR53UP, STR53UE		✓	✓	✓			
	ET 1.0, ET 1.0M	7-Pin Test Cable	✓	✓	✓			
	ET 1.0I			✓	✓			
	MICROLOGIC 2.0, 3.0, 5.0		✓	✓	✓			
Communicating	MICROLOGIC 2.0A, 3.0A, 5.0A, 7.0A		✓	✓	✓	✓		✓
	MICROLOGIC 5.0P, 5.0H, 7.0P, 7.0H		✓	✓	✓	✓		✓
	MICROLOGIC 6.0A, 6.0P, 6.0H		✓	✓	✓	✓	✓	✓

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CONNECTIONS

The power cord, test cables, keys and instruction bulletin are located in lid compartment of Full-function Test Kit case. Refer to Table 2 to determine which tests and functions are applicable then follow appropriate connection procedures below.

Connecting Power Cable

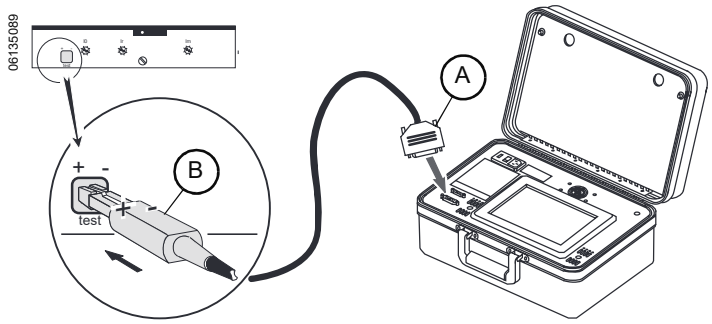
1. Connect socket end of power cord to power cord receptacle on Full-function Test Kit.
2. Plug other end of power cord into a grounded outlet.

NOTE: If Full-function Test Kit is used in a noisy environment, power cable ground connection must be connected to same potential as chassis of circuit breaker being tested.

COMPACT® NS Circuit Breakers Equipped with STR Trip Units

1. Connect 10-pin test cable connector (A) to 10-pin port on Full-function Test Kit.
2. Connect 2-pin test cable connector (B) to test port on STR trip units. Make sure to observe correct polarity.

Figure 2: Connection to STR Trip Units



MICROLOGIC® and ET Trip Units

CAUTION

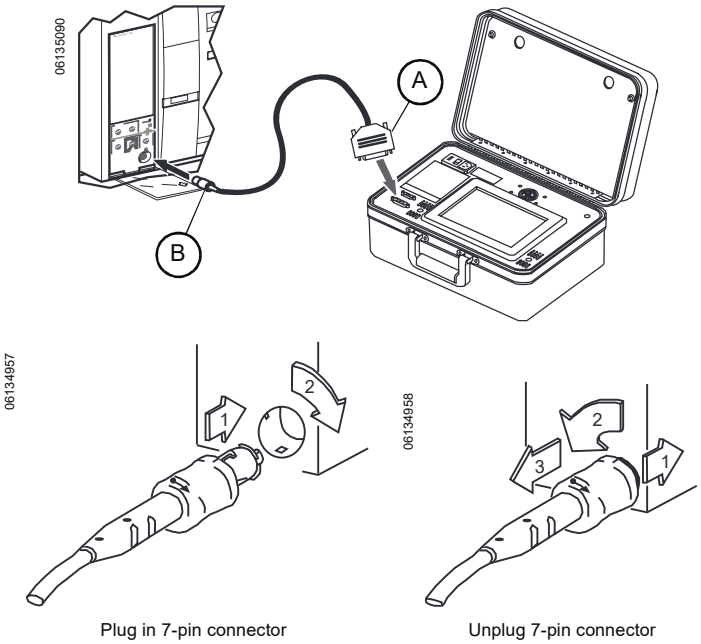
HAZARD OF EQUIPMENT DAMAGE

Pins on 7-pin test cable connector (see Fig. 3) can bend or break if forced. Avoid using excess force when connecting to trip unit test port.

Failure to follow this instruction can result in equipment damage.

1. Connect 10-pin test cable connector (A) to 10-pin port on Full-function Test Kit.
2. Connect 7-pin test cable connector (B) to test port on MICROLOGIC trip units.
   a. To plug in, push in 7-pin connector and turn clockwise.
   b. To unplug, push in 7-pin connector and turn counterclockwise.

Figure 3: Connection to MICROLOGIC and ET Trip Units



Plug in 7-pin connector

Unplug 7-pin connector