

## Three-Phase Test Adapter 493AD1050

### 1.0 Introduction

This document provides the operational details of the 493AD1050 Spark-e-mate Three Phase Adaptor which is used in conjunction with the 493 / 493BTL Spark-e-mate Electrical Installation Tester to test three phase electrical outlets (with or without a Neutral connection).

This document is intended to provide accurate information. No responsibility is assumed by Schneider Electric for any consequences arising from use of this document.

### 2.0 Safety

#### **⚠ DANGER**

##### **HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH**

- This equipment must only be installed and operated by appropriately qualified and/or licensed electrical personnel.
- Switch-off the electrical outlets being tested before connecting or disconnecting this equipment.
- Ensure that the product has been correctly installed and tested for safe operation before turning on the electrical outlet being tested.
- Disconnect from mains before cleaning. Periodically wipe the case with a damp cloth and mild detergent (do not use abrasives or solvents). Do not immerse this product.

**Failure to follow these instructions will result in death or serious injury.**

Note: Severe penalties apply if electrical equipment is not installed and operated by appropriately qualified and/or licensed electrical personnel.

A qualified person is one who has skills and knowledge related to the construction, installation and operation of electrical equipment and has received safety training to recognize and avoid the hazards involved.

### 3.0 Connections

Items packed with the 493AD1050:

1. 10A / 20A Three Phase Test Lead
2. 32A / 50A Three Phase Test Lead
3. 493AD Three Phase Adaptor Switch Box

Items required to complete testing:

1. 493 / 493BTL Spark-e-mate Installation Tester
2. 493L Test Lead from 493 / 493BTL to 493AD Switch Box

The 493L test lead connects from the 493 / 493BTL Installation Tester to the 3 Safety Sockets (Rated to 1000 V CAT III - 600 V CAT IV) on the 493AD Switch Box. These provide; Earth, Selected Phase, & Pseudo Neutral connections.

Two interchangeable 415V a.c. test leads are supplied as standard. There is a 10A lead for testing 10 and 20 Amp outlets and 32A lead for testing 32 and 50 Amp outlets. These connect from the 493AD Switch Box to the socket under test. The test plugs have no Neutral pin so you can test outlets with or without a Neutral connection as the 493AD Switch Box creates a pseudo-neutral.



## 4.0 Testing

### DANGER

#### HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Ensure all socket switches under test are off before connection of the 493AD1050, 493, 493BTL or 493BTLi
- Before turning on the three phase outlet, ensure that all test leads are securely connected from the three phase outlet to the 493AD1050 adaptor and from the adaptor to the 493 Spark-e-mate

**Failure to follow these instructions will result in death or serious injury.**

1. Connect the Spark-e-mate 493, 493BTL or 493BTLi to the 493AD1050 using the 493L test lead.
2. Connect the 493AD1050 to the three phase electrical outlet under test using either the 10A or 32A test lead.
3. Perform tests as listed below – refer to the Spark-e-mate 493 Series User Manual for information on these tests. The tests are performed on each phase in turn using the 493AD1050 Phase Selector Switch. Please note that the Phase Selector Switch requires wetting current to break through the surface film resistance of its internal contacts. Certain unpowered tests will obtain high resistance readings and should not be performed. Following are the allowed tests:
  - 415V RCD Trip
  - Insulation Resistance (IR) A-E only (disconnect the Pseudo Neutral banana plug for the IR test)
  - Fault Loop (powered only)


### DANGER

#### HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Once testing is completed, ensure all socket outlets are switched off prior to disconnecting the equipment.

**Failure to follow these instructions will result in death or serious injury.**

## 5.0 Specifications

Safety Sockets:	1000 V CAT III - 600 V CAT IV
Environmental Range:	For Indoor use
Max. Operating Altitude:	Up to 2000m
Operating Temperature:	0 - 40° Celsius (C)
Relative Humidity:	0% to 80% 0°C to 31°C
	0% to 50% 31°C to 40°C
Storage Temperature:	-10°C to 60°C
Rated Pollution Degree:	2
Safety:	AS 61010.1:2003 600V CAT IV
	Class II equipment protected by reinforced insulation

## 6.0 Maintenance

There are no user serviceable parts inside this product. If any cables or connectors become damaged, return the product to the manufacturer for repair.

## 7.0 Warranty Statement

1. The benefits conferred herein are in addition to, and in no way shall be deemed to derogate; either expressly or by implication, any or all other rights and remedies in respect to the Schneider Electric product, which the consumer has under the Commonwealth Trade Practices Act or any other similar State or Territory Laws.
2. The warrantor is Schneider Electric.
3. This Schneider Electric product is guaranteed against faulty workmanship and materials for a period of one (1) year from the date of installation.
4. Schneider Electric reserves the right, at its discretion, to either repair free of parts and labour charges, replace or offer refund in respect to any article found to be faulty due to materials, parts or workmanship.
5. This warranty is expressly subject to the Schneider Electric product being installed, wired, tested, operated and used in accordance with the manufacturer's instructions.
6. All costs of a claim shall be met by Schneider Electric, however should the product that is the subject of the claim be found to be in good working order all such costs shall be met by the claimant.
7. When making a claim the consumer shall forward the Schneider Electric product to the nearest office of Schneider Electric with adequate particulars of the defect within 28 days of the fault occurring. The product should be returned securely packed, complete with details of the date and place of purchase, description of load, and circumstances of malfunction.

## 8.0 Technical and Sales Support

For assistance with technical problems, contact your nearest Schneider Electric sales representative.

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