

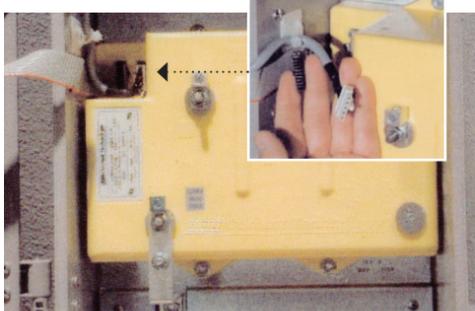
Alligator Clip Lug Connections		
Alligator Clip Leads	Connections	Label
WHITE	NEUTRAL	N
GREEN	GROUND	G
BLACK	PHASE A	A
RED	PHASE B	B
ORANGE	PHASE C	C

Select3 (SL3), TransGuard3 (TG3), & PX3 systems.



ISM (Blue)

Select, Select2, TransGuard, & EGPE2 systems.



ISM (Yellow or Black)

DTS-2™

Instructions

HOW TO PERFORM THE TEST

1. WARNING! Power to the Equipment Under Test (EUT) must be switched to "OFF" position prior to testing. Turn EUT's disconnect switch or upstream circuit breaker to "OFF" position.

2. Connect the test cable's female plug to male plug on the DTS-2 test set. (Leave these plugs permanently connected for your convenience.)

3. Connect the cable's alligator clips to the lugs as shown in the Connections chart.

NOTE: Depending on the configuration of the unit, some connectors may not be used. For example, Delta has no neutral; split-phase has no B-phase. Therefore, these connectors will not be used.

WARNING!

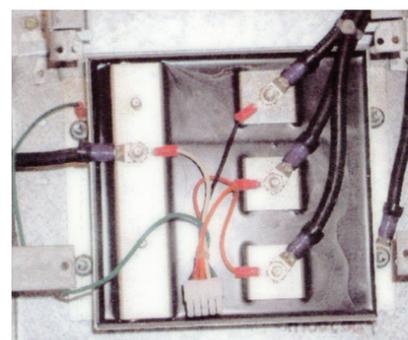
For safety, make sure unused clip connector is secured to its wire lead.

4. Connect DTS-2 power cord to a 120VAC 50/60Hz grounded power source.

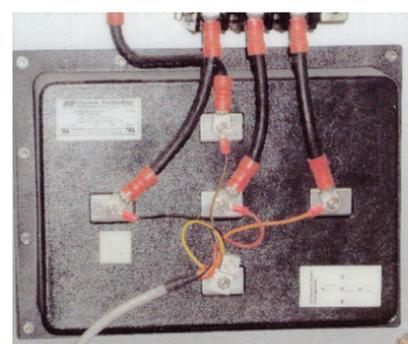
5. Disconnect pin connectors from monitoring printed circuit board assemblies: Table below outlines which connectors to disconnect. Varies with unit monitoring option(s).

Monitoring Option	5-Pin Power Connector	20-Pin Ribbon Connector	3-Pin Connector	5-Pin Sense Connector
Smart Light	✓	✓	Select, Select2, SL3, only	
L1 – L2	✓	✓		
L3	✓	✓		
M1 – M2	✓	✓		
M3 – M6	✓	✓		✓

EGP, EGPII, BPA, SBA



SF, MP, DP, Plus Series



6. Switch DTS-2 power switch to the "ON" position.

7. Depress the corresponding mode selection push-button to select the desired test mode (A-N, B-G, N-G, etc.)

NOTE: Neutral connected Wye units may be tested L-N, L-G, N-G and L-L. Wye units without neutral connected may be tested L-G, L-L. Delta units may be tested L-L only. Depress the positive (POS) or negative (NEG) function push-button to generate test impulses for each applicable test mode.

NOTE: The MON function indicating light will flash and testing will not be permitted if the EUT is not switched to the "OFF" position prior to commencement of testing.

8. Record positive and negative test results for each applicable mode on the DTS-2 Signature Card; include test date and technician initials.

HOW TO MEASURE RMS VOLTAGE WITH DTS-2

If all diagnostic test results are within tolerance, monitoring functions may be undertaken

1. Power to the EUT must be switched "ON" prior to commencement of monitoring. Switch EUT's disconnect switch or upstream circuit breaker to the "ON" position.

WARNING!

The MON function indicating light is automatic. Do not press POS or NEG buttons.

2. Depress the corresponding mode selection push button to connect the desired monitor mode (A-N, B-G, N-G, etc.) for LCD display of RMS voltage.

NOTE: Neutral connected Wye units may be monitored L-N, L-G, N-G and L-L. Wye units without neutral connected may be monitored L-G and L-L. Delta units may be monitored L-L.

3. Upon completion of DTS-2 monitoring, switch EUT's disconnect switch or upstream circuit breaker to the "OFF" position. Disconnect DTS-2 power cord from the 120VAC grounded power source. Disconnect DTS-2 test cable from the EUT. Stow test cable and power cord in the DTS-2 case.

4. If all diagnostic testing and monitoring results were within tolerance, secure EUT doors and switch power to EUT to the "ON" position.

TABLE OF VALUES

WARNING! IF THE TEST RESULTS ARE OUTSIDE THE PARAMETERS BELOW, CALL CURRENT TECHNOLOGY AT 800.238.5000

SELENIUM-ENHANCED™ PRODUCTS

SELECT, SELECT2, SELECT3, XPplus, MP, DP, IND5000, IND4000

MODE UNDER TEST

	L-N	L-G	L-G	L-L	N-G	N-G
Voltage	All	Installed	Uninstalled	All	Uninstalled	Installed
120/208	170-250	170-250	220-280	340-500	220-280	<20
220/380	330-450	330-450	415-475	660-900	415-475	<20
277/480	410-570	410-570	510-570	820-1140	510-570	<20
347/600	490-730	490-730	685-765	980-1460	685-765	<20

ISB MOV-ONLY PRODUCT

EGPE, EGPE2, EGP, TransGuard, SF300, SF250, SF200, SF150, SF125, SF100, SF80, SF50, SF25, SBA, DPA, BPA, IND3000, IND2000, IND1000, ControlGuard, GuardBus

MODE UNDER TEST

	L-N	L-G	L-G	L-L	N-G	N-G
Voltage	All	Installed	Uninstalled	All	Uninstalled	Installed
120/208	221-299	221-299	221-299	451-610	221-299	<20
220/380	400-541	400-541	400-541	791-1070	400-541	<20
277/480	451-610	451-610	451-610	799-1081	451-610	<20
347/600	595-805	595-805	595-805	799-1081	595-805	<20

ISM THERMALLY PROTECTED MOV-ONLY PRODUCTS

PX3 and TransGuard3

MODE UNDER TEST

	L-N	L-G	L-G	L-L	N-G	N-G
Voltage	All	Installed	Uninstalled	All	Uninstalled	Installed
120/208	215-300	215-300	215-300	450-630	215-300	<20
220/380	450-630	450-630	450-630	800-1260	450-630	<20
277/480	450-630	450-630	450-630	800-1260	450-630	<20
347/600	595-805	595-805	595-805	1100-1610	595-805	<20



Thomas & Betts Power Solutions

5900 Eastport Blvd. • Richmond, VA 23231-4453 USA

Tel: (804) 236-3300 • Toll free: (800) 238-5000 • Fax: (804) 236-4841

tnbpowersolutions.com/current_technology

© 2013, Thomas & Betts Power Solutions, LLC. • Thomas & Betts Power Solutions, LLC., is a wholly owned subsidiary of Thomas & Betts Corporation.

Current Technology® and Select® are registered trademarks of Thomas & Betts International, Inc. • Specifications are subject to change without notice. • Visit our website for latest revisions.