

# TCC

## Time Current Curve Software

Type L	Phase Trip	2k - 2B	50 amp	Decay
First Operation	0.0744 sec	223.24 amps		
	Maximum 0.0952 sec			
Second Operation	0.0809 sec	206.92 amps		
	Maximum 0.1029 sec			
Optimum	0.8744 sec	220.18 amps	0.9	
	Acceptable 0.7810 - 0.9863 sec			
Fourth Operation	0.8052 sec	222.62 amps	3.9	
Optimum	0.8631 sec			
	Acceptable 0.7703 - 0.9744 sec			

-Help                      F1-Run Again                      F2-Change Parameters  
 -Display/Print            F3-Save                              F4-Quit

- **Computerized recloser time current curve verification program**
- **Receive test results from three different sources**
- **Save test results for further analysis**
- **Store three separate current levels and minimum pickup for each recloser**

### DESCRIPTION

TCC is a computerized recloser time current curve verification program designed to streamline the time current curve verification process. TCC automatically calculates the allowable envelope and displays the minimum, maximum, optimum, and actual times for each trip operation.

The software accomplishes this by interpolating between time current curve data points (digitized from actual tcc's) to determine the corresponding times for each amperage. The envelope is determined by calculating the acceptable variations of time and current according to the manufacturers specifications. The actual trip times of each operation are compared to these calculated minimum and maximum values to determine if the recloser is within allowable tolerances. TCC uses this information to provide a "GO/NOGO" result to the operator.

TCC software can receive test results from three different sources. Time and current can be entered manually, the TCC software can communicate directly with the optional ORTMASTER module via the parallel port, or the TCC software can communicate directly with a Multi-Amp Oil Circuit Recloser Test System via the RS-232 computer interface. If the Multi-Amp Oil Circuit Recloser Test System does not have a RS-232 computer interface, an upgrade kit is available. See the Time Current Curve ORTMASTER bulletin for more information on the ORTMASTER interface module.

### Save Test Results

After the test results have been verified, they can be saved for further analysis. A user selectable file name feature allows the data for each customer's or operating company's reclosers to be saved to a separate file.

The software will store three separate current levels and minimum pickup for each recloser. These three levels are defined as Low Current Test, Medium Current Test, and High Current Test. If testing a three phase recloser, the software will store Phase A, Phase B, Phase C, and Ground Trip.

### Review Saved Results

Saved results are available for further analysis. The data can be printed or if necessary, the information can be loaded back into the verification software to recheck a recloser.

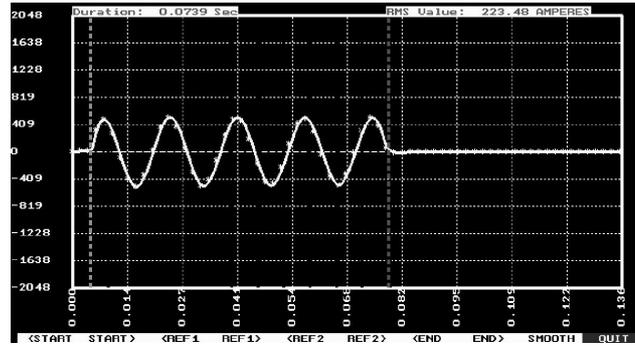
Printed reports may be generated for individually selected reclosers or all at once. The print module of the TCC software can be modified to accommodate customized forms used to record test data.

**FEATURES**

- Reduce errors with computerized verification of a recloser's time current curve
- Stores up to three separate current levels and minimum pickup for each recloser
- Saves data for individual customers or companies in separate files

**SYSTEM REQUIREMENTS**

- 386 or higher PC
- one 3.5 in. floppy diskette drive
- optional printer
- math coprocessor is recommended



**ORDERING INFORMATION**

Item (Qty)	Cat. No.
TCC Software	TCC

**Optional Accessories**

Ortmaster Interface Module	Ortmaster
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**UK**  
Archcliffe Road Dover  
CT17 9EN England  
T +44 (0) 1304 502101  
F +44 (0) 1304 207342

**UNITED STATES**  
4271 Bronze Way Dallas  
TX75237-1017 USA  
T 800 723 2861 (USA only)  
T +1 214 330 3203  
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**OTHER TECHNICAL SALES OFFICES**  
Valley Forge USA, Toronto CANADA,  
Mumbai INDIA, Trappes FRANCE,  
Sydney AUSTRALIA, Madrid SPAIN  
and the Kingdom of BAHRAIN.

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Registered to ISO 14001 Reg no. EMS 61597

**TCC\_DS\_en\_V10**  
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