



Caneco TCC (Time Current Curve) software provides an accurate diagnostic overview of electrical power supply continuity. Results are based on the overlap of tripping curves of the various electrical protection systems. **Caneco TCC** enables protection relays to be adjusted, in order to ensure that they are protecting the electrical equipment against thermal effects, overload and short-circuit so as to obtain optimum discrimination.

HV & LV protection discrimination study ON TIME/CURRENT GRAPH

Check the reliability of your HV & LV electrical installations with ease

Caneco TCC allows you to study the selectivity of a complex HV and/or LV electrical network. It gives you a clear and well-argued answer to questions relating to the quality of private or public electrical power supplies. It will:

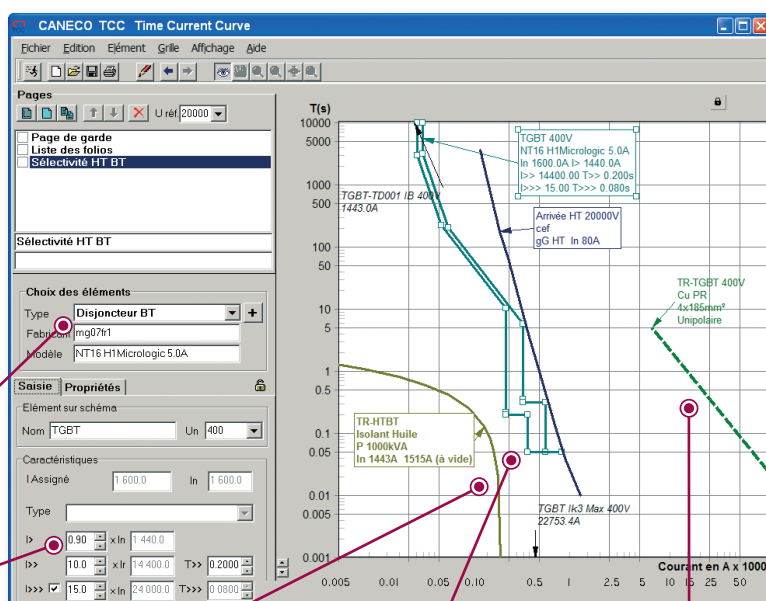
- ▶ properly set your protection devices in order to get optimum discrimination in two network configurations,
- ▶ take into account the worst case constraints for your hardware (cables, receivers, neutral point coil),
- ▶ make sure that the start up of transformers does not actuate your protection systems.

Ensures compliance when renovating electrical installations by

- ▶ manually plotting the tripping curves, in case of old electrical devices,
- ▶ simulating other protection functions when not described in the databases (e.g: fuse curves, rotor locking, motor start up, etc.),
- ▶ overlapping and adjusting the new tripping curves' protections.

Comprehensive LV & HV manufacturers' database (fuses, relays, circuit breakers, generic equipments, etc.)

All protection relay setting adjustments are based on manufacturer characteristics



Transformer magnetising

Interactive tripping curve resulting from user adjustments

Thermal constraint of cables

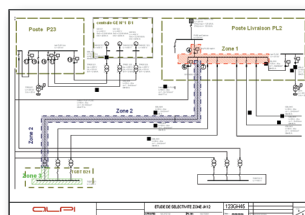
Quickly produce a comprehensive analysis report with:

- ▶ print-outs that include the title page, folio list, diagram, etc.,
- ▶ tripping curve graphs,
- ▶ protection adjustment sheets.

Graphs and curves can be annotated, labels moved, and values displayed.

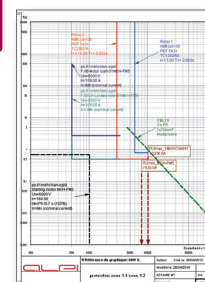
TITLE PAGE - FOLIO LIST

SINGLE LINE DIAGRAM



SHEET OF ADJUSTED VALUES

TRIPPING CURVES GRAPH



Why you need Caneco TCC

Caneco TCC meets the requirements of protective device studies. It carries out the checking and optimization of low and high voltage networks in order to find the best co-ordinated solution.

Caneco TCC enables you to:

- ▶ define the protection plan,
- ▶ insure logical discrimination requirements,
- ▶ visualize all the possible operating situations,
- ▶ analyse the link between the generator and the distributor's network,
- ▶ print out the notebook with adjustment values,
- ▶ provide a comprehensive report relating to the quality and reliability of electrical power supplies.

Who is it designed for?

- ▶ Electrical designers of commercial and industrial installations.
- ▶ Contracting owners or project managers auditing electrical power quality.
- ▶ Designers conducting protection studies of intermittent generators: Wind power, PV systems, Hydro-electric power stations.
- ▶ Suppliers of electrical protection devices.

Technical characteristics

- ▶ Automatic and interactive curve plotting of equipment, as a function of manufacturer's characteristics or user adjustments.
- ▶ Import of Ik and protection adjustment values from a Caneco BT project.
- ▶ HV manufacturers' catalogues: Alstom, ABB, Schneider, Microener, CEE, Ormazabal, etc.
- ▶ HV fuse catalogues: ABB, Schneider, Areva, etc.
- ▶ LV manufacturers' catalogues: Merlin Gerin, Schneider, ABB, Hager, Moeller, Siemens, Legrand, Moeller Electric, Eaton, etc.
- ▶ Takes into account the minimum and maximum settings of LV protection systems of European manufacturers (MCCB, circuit breakers, fuses, thermal trip relays, Micrologic type control units).
- ▶ Thermal constraint of cables.
- ▶ Added circuit diagrams on image files (wmf, jpeg, bmp) imported from a Caneco HT protection plan.
- ▶ Prints out a comprehensive analysis reports with title page, folios list, adjustment sheets and single-line diagram.

Complementary software



Commercial distribution

Stand-alone or network licence protected by an electronic key.

Training

For effective use of Caneco TCC, we advise you to attend a two-day training course.

Updates, maintenance

We highly recommend that you subscribe to a yearly maintenance contract. This service includes:

- ▶ Efficient technical support provided by our team of experts (phone, mail or fax),
- ▶ Minor and major software updates (brand new functionalities),
- ▶ Manufacturers' catalogue updates.

Updates are available from ALPI's website.

Recommended configuration

Windows NT, 2000, XP, Vista, W7, W8 (32 and 64 bits) environment.

Hardware key protection (USB dongle).

Software key protection (FlexLM).



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