Systèmes Didactiques s.a.r.l.
Equipement pour l'enseignement expérimental, scientifique et technique

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Relais télécommandé



The distance protection relay is non-switched incorporating all the additional functions for protection of overhead lines and cables at all voltage levels from 5 to 765 kV.
All methods of neutral point connection (resonant earthing, isolated, solid or low-resistance earthing) are reliably dealt with. The unit can issue single or three-pole TRIP commands as well as CLOSE commands.
Consequently both single-pole, three-pole and multiple auto-reclosure is possible.
Teleprotection functions as well as earth-fault protection and sensitive earth-fault detection are included.

Protection functions
Distance protection (ANSI 21, 21N)
Directional earth-fault protection for high-resistance faults (ANSI 50N, 51N, 67N)
Directional earth-fault protection for high-resistance faults
Backup overcurrent protection (ANSI 50, 50N, 51, 51N, 67)
Overvoltage protection, undervoltage protection (ANSI 59, 27)
Auto-reclosure (ANSI 79)
Breaker failure protection (ANSI 50BF)
Thermal overload protection (ANSI 49)
Power swing detection (ANSI 68, 68T)
The following pickup methods can be employed alternatively:

Overcurrent pickup I
Voltage-dependent overcurrent pickup V/I
Voltage-dependent and phase angledependent overcurrent pickup V/I/
Impedance pickup Z
Five independent distance zones and one separate overreach zone are available.
The integrated fault locator calculates the fault impedance and the distance-to-fault.
The results are displayed in ohms, kilometres (miles) and in percent of the line length.
Parallel line compensation and load current compensation for high-resistance faults is also available.
Large, easyto-read backlit display is provided.
The serial RS232 PC interface accessible from the front of the unit permits quick access to all parameters and fault event data. The use of the optional DIGSI 4 operating program is particularly advantageous during commissioning.

Caractéristiques techniques
Rated voltage: 100 V
Rated frequency: 50/60 Hz
Rated current: 1 A
Auxiliary voltage: 24 VDC

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