## LAPCD-HF 6208

The LAPCD-HF 6208 differential protection device provides a fast and selective protection of sub-transmission transformers with two windings. Comprehensive integrated back-up protection functions such as time Restricted Earth Fault and overcurrent protection make additional protection devices obsolete.


## Industry-University Joint-Venture

Seeking to Implement Industrial Intelligent Electronic Devices

## Protection Functions

- Differential Protection - 2 windings (87T)
$\checkmark$ A dual-slope percentage characteristic
$\checkmark$ Two high-set differential elements
$\checkmark$ Inrush stabilization
$\checkmark$ Dver-fluxing restraint
$\checkmark$ Iperating time including output relay: $\leq 35 \mathrm{~ms}$ (with Inrush stabilization)
$\checkmark$ Deviations: $\pm 5 \%$
- Restricted Earth Fault Protection (87N)
$\checkmark$ Two separated functions (REFI and REF2) for primary and secondary windings
$\checkmark$ Two operating modes: sum(IP) and max(IP)
$\checkmark$ High-set differential element
Definite-time Dvercurrent Protection (50 P/®/N)
$\checkmark$ Two separated functions (DTOCI and DTEC2) for primary and secondary windings
$\checkmark$ Three-stages, phase current protection (|>, |>>, |>>>)
$\checkmark$ Three-stages, negative-sequence current protectian (Ineg>, Ineg>>, Ineg>>)
$\checkmark$ Three-stages, residual current protection ( $\mathbb{N} \geqslant, \mathbb{N} \gg, 1 \mathbb{N} \gg$ )
$\checkmark$ inrush blacking option
- Inverse-time Dvercurrent Protection (51 P/Q/N)
$\checkmark$ Two separated functions (IDMTI and IDMT2) for primary and secondary windings
$\checkmark 12$ tripping characteristics available for selection (IEEE, IEC, ANSI, RI-Type)
$\checkmark$ One-stage, phase current protection
$\checkmark$ One-stage, independent negative-sequence current protection
$\checkmark$ One-stage, independent residual current protection
$\checkmark$ inrush blocking aption
Disturbance Recording
$\checkmark$ Fault Recording: 25
$\checkmark$ Event Recording: 250
$\checkmark$ Disturbance Recording: 8 (Programmable Trigger for Start of Recording, Pre-Fault Time: 50 Cycles, Max Record Time: 300 Cycles)

Type Test


## Features

- Vector group matching
- Amplitude matching
© Zero-sequence current filtering
- Nominal input current: 1 A and 5 A
- Four parameter subset selection
- 2XIG LCD display
© 8 two color LEDs (Relay status/programmable functions)
- 8 digital outputs
- 5 digital input
- Easy integration in substation Digital Control System or SCADA through Modbus, IECED870-5-ID3
- Compliance with international standard EN 60255-2B and EN 60255-27
- Native interactive Configuration Software
© Visual disturbance viewer to plot recorded CDMTRADE files



## Native User-Friendly Support Software for Setting, Configuration and File Transfer

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