

KF6530 TRANSFORMER DIFFERENTIAL PROTECTION RELAY

FOR AC RAILWAY TRANSFORMER

English

OVERVIEW

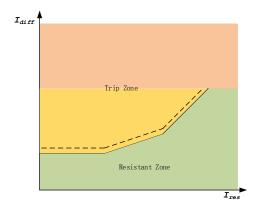
The multifunctional device KF6530 belongs to the KF6500 product family of special products for AC railway transformer systems. It can be used for all common AC railway transformer protection applications and is suitable for 50 Hz railway systems of every voltage level, with single and double-phase traction power. It performs protection, controlling functions and capability in accordance with the standard IEC61850.

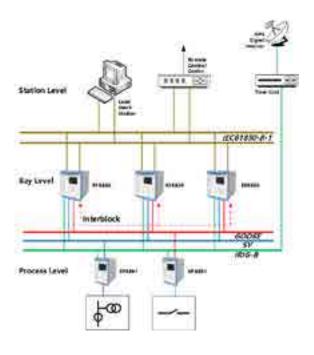
FUNCTIONS

- Unrestraint differential protection (87U)
- Ratio restraint differential protection with Inrush restraint (87R)
- Overexcited protection (24)
- It can be connected to many types of traction transformers using many special wiring types.
 Such as V/X, V/V,Scott,Y/A,...
- Event recorder: protection list & warning list up to 127, 16 Disturbance records with COMTRADE format which can be analyzed with the KF6503 analysis software
- Time synchronization with IRIG-B
- Communication interface: 2 Ethernet and 2 serial ports with matching appropriate protocol, IEC61850/ IEC60870-5-103/104.
- Programmable KFlogic function accordance with standard IEC61131-3

IEC61850

- The KF6530 Protection Relay completely supports the MMS & GOOSE service of communication networks and systems in traction substations based on the new standard IEC 61850. All necessary interlocking functions for bay interlocking, as well as overall substation interlocking, can be handled by GOOSE service.
- With optional plug-in card, the KF6530 protection relay can support the GOOSE and SV service based on process-level networks.





TECHNICAL DATA

Size: 266x225x244(HxWxD,mm)
Degree of protection: IP51(housing, IEC 60529)

• **Terminals:** Digital I/O connection 1.5mm²

Analogue input connection 2.5mm²

• **LED indication:** 1×for operation, 1×for warning,

14× programmable

(for communication, protection and control)

• LCD display: 80 x 60 (W × H); 320 x 240 pixels

• Signal input: 35 channels

• Signal output: 8 channels with dry contact

• **Accuracy:** Current and voltage protection: ≤±2.5%

Operation time: ≤40m

Binary input: SOE resolution, max. 2ms

• **Supply voltage:** DC110V~D220V,+15%~-20%

• Control voltage: DC110V or DC220V

• Environmental conditions: Temperature range: -25°~+55°

Humidity: 5%-95%, no condensation

• Production standard: IEC 60255

• **Isolation:** IEC 60255-5, IEC 61000-4

EMC IEC 60255-26
EMI CISPR11,CISPR22
Mechanical robustness: IEC 60255-21

EXTERNAL VIEW



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