



OPEN-CIRCUIT VOLTAGE PROTECTION DEVICE

EOSS 122

ADD-ON FOR CURRENT TRANSFORMERS

APPLICATION

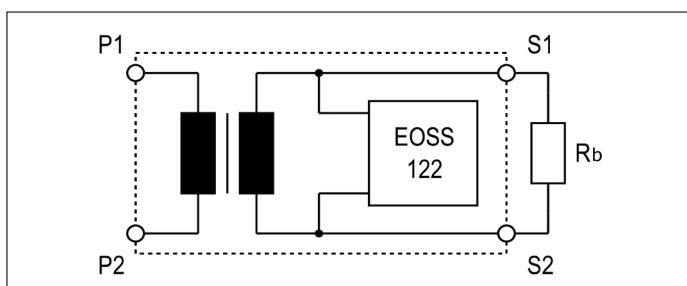
The EOSS 122 is a protection device, which can be integrated into current transformers (CT) with a rated secondary current of 1 A. In case of an open (unloaded) secondary circuit, it limits the voltage to values below 50 V (AC, EU Low Voltage Directive). Open operation can occur during installation and commissioning of the transformer, repair and maintenance work or when there is a fault in the installation causing the secondary current to be interrupted. In these cases, the EOSS 122 protects against electric shock and isolation damage of the current transformer.

- **Note: The EOSS 122 is designed for fault events only. Even with the EOSS 122 integrated, open operation of current transformers is prohibited and must be avoided.**

DESCRIPTION

The EOSS 122 is a passive circuitry that acts like a secondary short-circuit for the current transformer during open operation. It becomes active as soon as the secondary voltage exceeds 50 V. As long as the secondary circuit remains open, the EOSS 122 limits the voltage to approximately ± 1 V. In normal operation, its presence does not affect the functionality or accuracy of the current transformer.

SCHEMATIC CIRCUIT DIAGRAM EOSS 122



TECHNICAL DATA

General

Type	EOSS 122
Application	Open-circuit voltage protection in current transformers
Design	Insulated passive electronics integrated in a CT
Functional principle	Quasi-short circuit

Electrical Data

Rated sec. current	I_{sr}	1 A
Max. sec. current, cont.	$I_{smax, cont}$	2 A
Max. sec. current, 10 s	$I_{smax, 10 s}$	5 A
Max. sec. current, 1 s	$I_{smax, 1 s}$	80 A
Max. sec. current, 20 ms	$I_{smax, 20 ms}$	150 A
Max. sec. current, 1 ms	$I_{smax, 1 ms}$	340 A
Max. sec. voltage @ I_{pr}	U_{smax}	15 V
Max. rated power	S_{max}	15 VA

Service Conditions

Environment	n/a
Operating temperature	-25 – 40 °C
Storage temperature	-25 – 85 °C

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