What does KM usually mean in relay protection

Overview

KA is generally an intermediate relay. KM or K represents a contactor. It is combined with a thermal overload relay to protect the electrical equipment in operation. When the actuating quantity, such as the current or. The relays are in round glass cases. The rectangular devices are test connection blocks, used for testing and isolation of instrument transformer circuits. As per “Reliability Standard PRC-023”, The maximum impedance for the distance relay characteristics along 30o on the impedance plane for 0. They also provide inherent back up with their zones overlapping the protection of the next line, and. The K factor (or zero-sequence compensation factor) adjusts the measured impedance for the phase-to-ground fault loop by accounting for the contribution of zero-sequence currents.

Article Content

The Importance of the K Factor in Distance Relay Protection for ...

Accurately detecting and protecting against single-phase-to-ground faults is one of the most challenging tasks in distance relay protection. At the heart of this challenge lies the K factor, a ...

Distance Protection Relay Settings Guide

A distance protection relay measures the quotient impedance (V/I), taking into account the phase angle between the voltage V and the current I. It detects faults based on impedance variations caused by ...

Relays Part 5: Special Terms Frequently Used in ...

Summary Several electrical terms are used when describing protective relays and other types of relays. This article will introduce some of the ...

What is the difference between the application of the relay KA and the KM?

The KM contactor is used to turn on and off the load. It is combined with a thermal overload relay to protect the electrical equipment in operation. It is combined with the relay control circuit, remote ...

Protective Relay Basics

Fundamental concepts and terminology will be taught using the electromechanical overcurrent relay as a foundation and then these concepts will be expanded to modern numerical relays.

Relays Part 5: Special Terms Frequently Used in Protective Relays

Summary Several electrical terms are used when describing protective relays and other types of relays. This article will introduce some of the special terms that an engineer or a ...

Terminologies used in Protective Relaying

The minimum value of an actuating quantity at which relay starts operating is called pickup value. The actuating quantity can be current in the relay coil and the pickup value of current is ...

Protective relay

Distance relays, also known as impedance relay, differ in principle from other forms of protection in that their performance is not governed by the magnitude of the current or voltage in the protected circuit ...

The similarities and differences between KA and KM, the function ...

The electrical symbol of the intermediate relay is KA, and the electrical symbol of the AC contactor is KM.

What is Protection Relay?

Motor protection relays protect electric motors from overload, phase imbalance, overcurrent, and short circuit by monitoring electrical system ...

Distance Protection

Distance protection uses measurements of system voltages and currents to calculate the impedance seen by the relay. The impedance seen by the relay is interpreted by the known ohms/kilometre of ...

The Importance of the K Factor in Distance Relay ...

Accurately detecting and protecting against single-phase-to-ground faults is one of the most challenging tasks in distance relay protection. At the ...

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