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synchronous relays are used for the protection of power systems against harmonic current surges, [1] :8 but also for purposes of testing. synchronism testing is a procedure for operating a generator or power system at its rated frequency, but with a frequency offset. this causes a reaction in the synchronism checking relay which may trip the breaker. the severity of the reaction is proportional to the magnitude of the frequency offset. in automatic frequency control, the synchronism checking relay is used to provide a suitable reaction to an automatic frequency control system. automatic frequency control is used to maintain the frequency of an electrical power system near its rated value, at all times, or to track changes in frequency over time. [1] :3 the system may include an oscillator, which provides a signal to the automatic frequency control system. as well as the mechanical and electrical relays, there are also electronic protective relays, which are also known as electronic protective devices, or epds. [4] :9 this type of device uses digital technology to store and analyze information about the power system, usually by means of an analog-to-digital converter. a microprocessor is used to calculate the operating conditions of the power system and to decide whether to trip a breaker or not. pulse-width modulated, or pwm, relays, like automatic frequency control relays, are devices which are used to provide control of frequency or voltage [4] :34 by modulating the current in the power system with a pulse-width modulated signal which is proportional to the desired value of the power system frequency or voltage.

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a current protection relay is used to measure a current flowing in a circuit and shut the circuit off when the current exceeds a predetermined level. a voltage protection relay is used to measure a voltage and shut the circuit off when the voltage exceeds a predetermined level. a frequency protection relay is used to measure a frequency and shut the circuit off when the frequency exceeds a predetermined level. a sequencing relay is used to measure a current and to compare it with a predetermined setting and open the circuit if the current is below the predetermined setting. a protection relay may be a current, voltage, or frequency protection relay. each type of protection relay can be programmed to perform several different functions. [2] :ch 7, p 52. a protection relay is used to measure a voltage and to shut the circuit off when the voltage exceeds a predetermined level. the current transformer consists of a wire, called a "ring", wrapped around a magnetic core. the ring is made from a number of layers of wire which are wound about the core. the length of the ring is related to the sensitivity of the current transformer. current transformers can therefore be made sensitive or insensitive by increasing or decreasing the number of layers in the ring. current transformers are typically used in power systems to measure and detect current, voltages, and power; and to measure and monitor load (the amount of power consumed by a load). the opening and closing of the contacts is usually timed by a mechanical relay, which is termed a contactor. such relays employ powerful solenoids or electro-magnetism to control power contactor contacts. an electromechanical relay is a device that permits the operation of a load circuit by the application of power to a fixed contact in the power circuit. the current in the power circuit is measured, and the contactor is set to trip when the current exceeds a preset limit. the relay is mechanical in construction and employs a spring to tension the contacts and force them into engagement. the relay has a solenoid coil and armature, which are housed in a case or chamber and is energized by applying a current through the coil. a spring holds the contacts closed, but when the solenoid armature is energized, the contacts are released. a relay's contacts may be of the push-pull or pull-push type. a single pole single throw switch is a mechanical relay that incorporates a single contact, which is normally closed but may be opened by an external force. push-pull and pull-push single pole single throw switches are used with electric power in order to control the output of electrical apparatus. a single pole double throw switch is a mechanical relay that incorporates two contacts, one normally closed and the other normally open. when the switch is activated, either of the two contacts is open and both are closed. the single pole double throw switch is used to control the output of electrical equipment. two pole two throw relay is used to control more than one contact at a time, for example, to open and close different circuits on different days. the coil has multiple windings and contacts that are installed on the interior of the coil and energised by alternating current. Sec8ef588b

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