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Power semiconductor controlled drives - NASA/ADS

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Variable-frequency drive - Wikipedia

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Power Semiconductor Drives by S. Sivanagaraju

Device with three junction. Explanation:-. Silicon controlled rectifier or semiconductor-controlled rectifier is a four-layer solid-state current-controlling unidirectional devices (i.e. can conduct current only in one direction). The silicon control rectifier (SCR) consists of four layers of semiconductors, which form NPNP or PNP structures, having three P-N junctions labeled J 1, J 2 and J 3, and three terminals.

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Power electronics - Wikipedia

Power Semiconductor Devices The first SCR was developed in late 1957. Power semiconductor devices are broadly categorized into 3 types: 1. Power diodes (600V,4500A) 2. Transistors 3. Thyristors (10KV,300A,30MW) Thyristor is a four layer three junction pnpn semiconductor switching device. It has 3 terminals these are anode, cathode and gate. SCRs are solid state device, so they are compact, possess high reliability and have low loss. Control Circuit Digital Circuit Power Electronic Load

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