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Uploaded 2 years ago Inverter refers to the power of an electronic device that converts power to DC in the form of ac in the form of the required frequency and voltage power. Inverters are divided into two main categories – Voltage source inverter (VSI) – Voltage source inverter has a rigid DC source voltage that has direct current voltage is limited or zero resistance to inverter input terminals. Current Source Inverter (CSI) – The current source inverter is supplied with variable current from a DC source that has high resistance. As a result, current waves are not affected by the load. Single-phase inverter There are two types of single-phase inverters - a full-bridge inverter and a semi-bridge inverter. Half Bridge Inverter This type of inverter is a basic building block full of bridge inverters. It contains two switches, each of its capacitors has a voltage output equal to  $\frac{V_{dc}}{2}$ . In addition, the switches complement each other, that is, when one is turned on the other goes OFF. Full Bridge Inverter This inverter chain converts DC to AC. This is achieved by closing and opening the switches in the correct order. It has four different operations in countries based on switches being closed. A three-phase inverter The three-phase inverter converts DC input into a three-phase AC output. Its three hands are usually delayed at an angle of  $120^\circ$  to produce a three-phase AC supply. Inverter switches each have a 50% ratio and switching occurs after each  $T/6$  time  $T$  ( $60^\circ$  angle interval). Switches S1 and S4, switches S2 and S5 and switches S3 and S6 complement each other. The figure below shows the chain of the three-phase inverter. It's nothing but three single-stage inverters put across the same DC source. Pole voltages three phase inverter is equal to pole voltage in one phase of the half-bridge inverter. Two types of inverter above are two types of driving –  $180^\circ$  mode of conduction and  $120^\circ$  type of driving.  $180^\circ$  driving mode In this driving mode, each device shall be in a conductivity position of  $180^\circ$  where it is switched on at  $60^\circ$  intervals. Terminals A, B and C are bridge output terminals connected by a load three-phase delta or star connection. A balanced asterisk-associated load operation is Chart. Between  $0^\circ$  -  $60^\circ$  points S1, S5 and S6 are in driving mode. The terminals A and C shall be connected to the source at its positive point. Terminal B is connected to the source at its negative point. In addition, resistance  $R/2$  is between the neutral and the positive end, while resistance  $R$  is between the neutral and the negative terminal. The load voltage is as follows:  $V_{AN} = V/3$ ,  $V_{BN} = -2V/3$ ,  $V_{CN} = V/3$  Line voltages are given as follows;  $V_{AB} = V_{AN} - V_{BN} = V$ ,  $V_{BC} = V_{BN} - V_{CN} = -V$ ,  $V_{CA} = V_{CN} - V_{AN} = 0$  curves for  $180^\circ$  driving mode in  $120^\circ$  driving mode In this driving mode, each electronic device is in a conductivity position of  $120^\circ$ . This is most appropriate for delta connection loads because it results in a six-step type of curve across any of its phases. Therefore, at any time only two devices are made, as each device performs only  $120^\circ$ . Terminal A on load is connected to the positive end, while terminal B is connected to the negative end of the source. Terminal C loads are in a position called a floating position. In addition, the phase voltages shall be equal to the load voltage as shown below. Phase voltages = line voltages  $V_{AB} = V$   $V_{BC} = -V/2$   $V_{CA} = -V/2$  Waveform  $120^\circ$  driving mode

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