

Can a 24kw inverter drive a 15kw motor

How to drive a motor by the inverter?

To drive a motor by the inverter, it should be important to select a proper capacity of a motor before selecting the capacity of the inverter. When selecting the capacity of the inverter, each of items below will be converted into a numerical value to judge validity. Sufficient starting torque can be obtained?

How to choose an inverter?

Generally, select an inverter which fits the maximum applicable motor capacity of the selected motor. After selecting an inverter, check if it meets with all of the following conditions. If it does not, select an inverter that has a one class larger capacity and check the feasibility again.

How much torque does an inverter output?

In the inverter with the same capacity as above, however, it generally output the starting torque at 150 to 200 % of the torque for protection of a machine. Therefore, the applications below may require the capacity of the inverter or the capacities of both the inverter and motor to be increased.

Which type of inverter is used to control electric motors?

They are used in a number of applications both in industry and everyday life. There are a number of different types of inverters but we will be discussing the type that is used to control electric motors in electrical engineering. These can also be known as AC drives, variable speed drives (VSD), and variable frequency drives (VFD).

What is the purpose of an inverter drive?

The purpose of an inverter drive is to convert AC mains (single-phase or three-phase) into a smoothed DC (direct current) supply to operate a motor. Inverters also introduce the ability to control speeds, acceleration and deceleration time, braking methods, and torque.

How to select an inverter?

Before selecting an inverter, first the motor should be chosen. In selecting the motor, first calculate the load inertia for the applications, and then calculate the required capacity and torque. This method of calculation helps select a motor by calculating the output (W) required by the motor to maintain its regular rotations.

Starting the 15kW motor may also be an issue. If the motor is direct on line started, then it will draw up to 6 times Full Load Current (in this case $6 \times 30.7\text{A} = 184\text{ Amps!}$) until it is ...

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If an inverter repeatedly drives a motor in duty cycles that are much shorter than the thermal time constant of the motor, calculate the "equivalent RMS current" as shown below, and select the ...

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