

## Forklift Drive Motor

Drive Motor for Forklift - MCC's or otherwise known as Motor Control Centers are an assembly of one section or more which include a common power bus. These have been used in the vehicle industry ever since the 1950's, as they were used lots of electric motors. Today, they are utilized in other industrial and commercial applications.

Inside factory assembly for motor starter; motor control centers are fairly common practice. The MCC's comprise metering, variable frequency drives and programmable controllers. The MCC's are usually found in the electrical service entrance for a building. Motor control centers commonly are utilized for low voltage, 3-phase alternating current motors which vary from 230 V to 600V. Medium voltage motor control centers are made for large motors that vary from 2300V to 15000 V. These units utilize vacuum contractors for switching with separate compartments so as to achieve power control and switching.

In areas where extremely corrosive or dusty processes are taking place, the motor control center may be established in a separate air-conditioned room. Typically the MCC would be positioned on the factory floor adjacent to the equipment it is controlling.

A MCC has one or more vertical metallic cabinet sections with power bus and provisions for plug-in mounting of individual motor controllers. Smaller controllers could be unplugged from the cabinet to be able to complete maintenance or testing, while really big controllers can be bolted in place. Each and every motor controller has a solid state motor controller or a contractor, overload relays to protect the motor, fuses or circuit breakers to be able to provide short-circuit protection and a disconnecting switch to be able to isolate the motor circuit. Separate connectors enable 3-phase power to enter the controller. The motor is wired to terminals situated within the controller. Motor control centers provide wire ways for field control and power cables.

Each motor controller inside a motor control center can be specified with various options. These options include: separate control transformers, extra control terminal blocks, control switches, pilot lamps, as well as many types of solid-state and bi-metal overload protection relays. They also comprise different classes of kinds of circuit breakers and power fuses.

There are numerous options concerning delivery of MCC's to the client. They could be delivered as an engineered assembly with interlocking wiring to a central control terminal panel board or programmable controller along with internal control. On the other hand, they can be provided set for the client to connect all field wiring.

MCC's commonly sit on floors that must have a fire-resistance rating. Fire stops can be needed for cables which go through fire-rated walls and floors.