

## Forklift Drive Motors

Drive Motor for Forklift - MCC's or likewise known as Motor Control Centers are an assembly of one section or more that have a common power bus. These have been used in the automobile trade ever since the 1950's, in view of the fact that they were utilized a lot of electric motors. Now, they are utilized in a variety of commercial and industrial applications.

In factory assembly for motor starter; motor control centers are somewhat common method. The MCC's include programmable controllers, metering and variable frequency drives. The MCC's are commonly seen in the electrical service entrance for a building. Motor control centers often are used for low voltage, 3-phase alternating current motors that vary from 230 volts to 600 volts. Medium voltage motor control centers are designed for large motors which range from 2300V to 15000 V. These units utilize vacuum contractors for switching with separate compartments to be able to achieve power control and switching.

Within factory locations and area that have corrosive or dusty processing, the MCC can be installed in climate controlled separated locations. Usually the MCC will be located on the factory floor near the machinery 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 can be unplugged from the cabinet to be able to complete testing or maintenance, whereas very large controllers could be bolted in place. Each motor controller consists of a solid state motor controller or a contractor, overload relays to protect the motor, fuses or circuit breakers to supply short-circuit protection as well as a disconnecting switch so as to isolate the motor circuit. Separate connectors enable 3-phase power to enter the controller. The motor is wired to terminals situated inside the controller. Motor control centers provide wire ways for field control and power cables.

Within a motor control center, each motor controller can be specified with lots of various options. Some of the choices consist of: pilot lamps, separate control transformers, extra control terminal blocks, control switches, and many types of bi-metal and solid-state overload protection relays. They likewise have various classes of kinds of circuit breakers and power fuses.

Concerning the delivery of motor control centers, there are numerous options for the client. These can be delivered as an engineered assembly with a programmable controller together with internal control or with interlocking wiring to a central control terminal panel board. On the other hand, they can be provided ready for the client to connect all field wiring.

Motor control centers typically sit on the floor and must have a fire-resistance rating. Fire stops may be required for cables which penetrate fire-rated walls and floors.