

## Forklift Drive Motors

Drive Motor for Forklifts - Motor Control Centers or MCC's, are an assembly of one enclosed section or more, that have a common power bus mostly comprising motor control units. They have been utilized since the 1950's by the auto industry, in view of the fact that they used many electric motors. Today, they are used in a variety of commercial and industrial applications.

Motor control centers are a modern method in factory assembly for several motor starters. This particular equipment can include metering, variable frequency drives and programmable controllers. The MCC's are normally found in the electrical service entrance for a building. Motor control centers frequently are used for low voltage, 3-phase alternating current motors that range from 230 volts to 600 volts. Medium voltage motor control centers are intended for big motors which range from 2300 volts to 15000 volts. These units make use of vacuum contractors for switching with separate compartments in order to achieve power control and switching.

In factory area and locations which have dusty or corrosive processing, the MCC could be installed in climate controlled separated locations. Normally the MCC will be situated on the factory floor close to the machines it is controlling.

For plug-in mounting of individual motor controls, A motor control center has one or more vertical metal cabinet sections with power bus. To be able to complete maintenance or testing, extremely large controllers could be bolted into place, while smaller controllers may be unplugged from the cabinet. Each motor controller has a contractor or a solid state motor controller, overload relays to protect the motor, fuses or circuit breakers to provide short-circuit protection as well as a disconnecting switch in order to isolate the motor circuit. Separate connectors allow 3-phase power to enter the controller. The motor is wired to terminals located within the controller. Motor control centers offer wire ways for power cables and field control.

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

There are several alternatives regarding delivery of MCC's to the customer. They can 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 could be supplied set for the customer to connect all field wiring.

MCC's generally sit on floors which must have a fire-resistance rating. Fire stops may be necessary for cables that penetrate fire-rated walls and floors.