

## Drive Motor for Forklifts

Drive Motor for Forklifts - MCC's or Motor Control Centers are an assembly of one or more sections which contain a common power bus. These have been utilized in the auto trade since the 1950's, since they were used a large number of electric motors. These days, they are used in a variety of industrial and commercial applications.

Inside factory assembly for motor starter; motor control centers are rather common method. The MCC's include programmable controllers, metering and variable frequency drives. The MCC's are normally used in the electrical service entrance for a building. Motor control centers commonly are utilized for low voltage, 3-phase alternating current motors that vary from 230 V to 600V. Medium voltage motor control centers are made for large motors that range from 2300 volts to 15000 volts. These units use vacuum contractors for switching with separate compartments in order to accomplish power switching and control.

In locations where extremely corrosive or dusty processes are happening, the motor control center may be established in a separate air-conditioned room. Usually the MCC would be positioned on the factory floor adjacent to the machines 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 complete maintenance or testing, while very big controllers can be bolted in place. Each motor controller consists of a solid state motor controller or a contractor, overload relays to be able to protect the motor, circuit breaker or fuses so as to provide short-circuit protection and a disconnecting switch to be able to isolate the motor circuit. Separate connectors enable 3-phase power in order to enter the controller. The motor is wired to terminals situated inside the controller. Motor control centers offer wire ways for field control and power cables.

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

There are various alternatives concerning delivery of MCC's to the client. 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. Conversely, they can be provided ready for the customer to connect all field wiring.

Motor control centers normally sit on the floor and should have a fire-resistance rating. Fire stops could be necessary for cables that penetrate fire-rated floors and walls.