

## Forklift Drive Motor

Drive Motor Forklifts - 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 utilized in the automobile business ever since the 1950's, as they were utilized a large number of electric motors. Now, they are used in various industrial and commercial applications.

In factory assembly for motor starter; motor control centers are somewhat common technique. The MCC's comprise variable frequency drives, programmable controllers and metering. The MCC's are commonly 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 volts to 600 volts. Medium voltage motor control centers are intended for big motors that range from 2300 volts to 15000 volts. These units use vacuum contractors for switching with separate compartments in order to attain power control and switching.

In places where very corrosive or dusty processes are occurring, the motor control center may be installed in a separate air-conditioned room. Normally the MCC will be situated on the factory floor near the machines it is controlling.

A MCC has one or more vertical metal 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 maintenance or testing, while really big controllers can be bolted in place. Every motor controller has a contractor or a solid state motor controller, overload relays to protect the motor, circuit breaker or fuses to provide short-circuit protection and a disconnecting switch in order to isolate the motor circuit. Separate connectors enable 3-phase power to be able to enter the controller. The motor is wired to terminals located in the controller. Motor control centers provide wire ways for power cables and field control.

In a motor control center, each and every motor controller could be specified with numerous different alternatives. Some of the options consist of: extra control terminal blocks, control switches, pilot lamps, separate control transformers, and numerous kinds of bi-metal and solid-state overload protection relays. They likewise have different classes of types of power fuses and circuit breakers.

There are lots of options concerning delivery of MCC's to the customer. They could be delivered as an engineered assembly with interlocking wiring to a central control terminal panel board or programmable controller together with internal control. Conversely, they could be provided ready for the customer to connect all field wiring.

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