

## Drive Motor for Forklift

Forklift Drive Motor - Motor Control Centers or MCC's, are an assembly of one or more enclosed sections, which have a common power bus principally consisting of motor control units. They have been used ever since the 1950's by the automobile trade, in view of the fact that they utilized a large number of electric motors. Now, they are utilized in different commercial and industrial applications.

In factory assembly for motor starter; motor control centers are fairly common method. The MCC's comprise variable frequency drives, programmable controllers and metering. The MCC's are usually seen in the electrical service entrance for a building. Motor control centers often are utilized for low voltage, 3-phase alternating current motors which vary from 230 V to 600V. Medium voltage motor control centers are intended for big motors which vary from 2300V to 15000 V. These units use vacuum contractors for switching with separate compartments to be able to accomplish power control and switching.

In areas where extremely dusty or corrosive processes are taking place, the motor control center can be established in a separate air-conditioned room. Typically the MCC will be situated on the factory floor near the equipment 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 could be unplugged from the cabinet so as to complete maintenance or testing, while very large 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 provide 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 positioned within the controller. Motor control centers supply wire ways for field control and power cables.

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

Regarding the delivery of motor control centers, there are a lot of choices for the customer. 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 could be provided set for the client 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 which go through fire-rated floors and walls.