

## Drive Motor for Forklifts

Forklift Drive Motor - Motor Control Centers or MCC's, are an assembly of one or more enclosed sections, which have a common power bus mostly consisting of motor control units. They have been used ever since the 1950's by the auto business, for the reason that they utilized lots of electric motors. These days, they are utilized in other industrial and commercial applications.

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

In locations where extremely dusty or corrosive processes are occurring, the motor control center could be established in a separate air-conditioned room. Usually the MCC would be located on the factory floor next to the machinery 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 complete testing or maintenance, whereas really big controllers could be bolted in place. Every motor controller consists of a solid state motor controller or a contractor, overload relays so as to protect the motor, circuit breaker or fuses in order to supply short-circuit protection as well as a disconnecting switch so as to isolate the motor circuit. Separate connectors allow 3-phase power to be able to enter the controller. The motor is wired to terminals situated within the controller. Motor control centers supply wire ways for power cables and field control.

Within a motor control center, each and every motor controller can be specified with several different options. Some of the alternatives comprise: pilot lamps, separate control transformers, extra control terminal blocks, control switches, and many types of bi-metal and solid-state overload protection relays. They even comprise different classes of types of circuit breakers and power fuses.

There are various choices regarding 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 together with internal control. On the other hand, they could be supplied set for the customer to connect all field wiring.

Motor control centers usually sit on the floor and should have a fire-resistance rating. Fire stops may be required for cables that go through fire-rated walls and floors.