

## Drive Motor for Forklifts

Forklift Drive Motor - MCC's or otherwise known as Motor Control Centers are an assembly of one section or more which have a common power bus. These have been utilized in the automobile industry ever since the 1950's, because they were used a large number of electric motors. Now, they are utilized in other industrial and commercial applications.

In 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 usually used in the electrical service entrance for a building. Motor control centers frequently are utilized for low voltage, 3-phase alternating current motors which range from 230 volts to 600 volts. Medium voltage motor control centers are designed for large motors that range from 2300V to 15000 V. These units utilize vacuum contractors for switching with separate compartments to be able to achieve power control and switching.

In locations where really corrosive or dusty processes are taking place, the motor control center could be established in a separate air-conditioned room. Typically the MCC will be located on the factory floor close to the machinery 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. In order to complete maintenance or testing, very large controllers can be bolted into place, whereas smaller controllers can be unplugged from the cabinet. Each and every motor controller consists of 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 so as to isolate the motor circuit. Separate connectors enable 3-phase power to enter the controller. The motor is wired to terminals located within the controller. Motor control centers offer wire ways for field control and power cables.

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

There are numerous options 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. Conversely, they could be supplied prepared for the client to connect all field wiring.

MCC's commonly sit on floors which should have a fire-resistance rating. Fire stops could be needed for cables which penetrate fire-rated walls and floors.