Drive Motor Forklifts

Forklift Drive Motor - Motor Control Centers or also called MCC's, are an assembly of one enclosed section or more, which have a common power bus mainly comprising motor control units. They have been utilized ever since the 1950's by the auto industry, as they used a large number of electric motors. Today, they are utilized in different industrial and commercial applications.

Within factory assembly for motor starter; motor control centers are somewhat common method. The MCC's comprise metering, variable frequency drives and programmable controllers. The MCC's are usually used in the electrical service entrance for a building. Motor control centers frequently are used 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 that vary from 2300 volts to 15000 volts. These units make use of vacuum contractors for switching with separate compartments to be able to achieve power switching and control.

Inside factory locations and area which have corrosive or dusty processing, the MCC can be installed in climate controlled separated locations. Normally the MCC will be located on the factory floor near 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 may be unplugged from the cabinet to be able to complete testing or maintenance, while extremely large controllers could be bolted in place. Each motor controller consists of a solid state motor controller or a contractor, overload relays so as to protect the motor, circuit breaker or fuses so as to provide short-circuit protection as well as a disconnecting switch so as to isolate the motor circuit. Separate connectors allow 3-phase power so as to enter the controller. The motor is wired to terminals positioned within the controller. Motor control centers provide wire ways for power cables and field control.

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

There are various options regarding 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. On the other hand, they could be provided ready for the client to connect all field wiring.

MCC's commonly sit on floors that are required to have a fire-resistance rating. Fire stops could be necessary for cables which go through fire-rated walls and floors.