

Drive Motor for Forklift

Forklift Drive Motor - Motor Control Centers or MCC's, are an assembly of one enclosed section or more, which have a common power bus mostly containing motor control units. They have been utilized ever since the 1950's by the auto business, because they used lots of electric motors. Today, they are used in various commercial and industrial applications.

Inside factory assembly for motor starter; motor control centers are rather common technique. The MCC's comprise programmable controllers, metering and variable frequency drives. The MCC's are commonly 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 volts to 600 volts. Medium voltage motor control centers are made for large motors which vary from 2300 volts to 15000 volts. These units make use of vacuum contractors for switching with separate compartments so as to attain power switching and control.

In areas where really dusty or corrosive processes are happening, the motor control center could be established in a separate air-conditioned room. Usually the MCC would be positioned 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 in order to complete testing or maintenance, while really big controllers could be bolted in place. Every motor controller has a solid state motor controller or a contractor, 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 allow 3-phase power so as to enter the controller. The motor is wired to terminals located within the controller. Motor control centers provide wire ways for power cables and field control.

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

Concerning the delivery of motor control centers, there are lots of options for the consumer. These could 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 can be supplied set for the client to connect all field wiring.

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