

Forklift Drive Motor

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

Motor control centers are a modern method in factory assembly for several motor starters. This particular machinery can comprise programmable controllers, metering and variable frequency drives. The MCC's are usually used in the electrical service entrance for a building. Motor control centers commonly are used 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 range from 2300 volts to 15000 volts. These units use vacuum contractors for switching with separate compartments in order to attain power switching and control.

In places where really dusty or corrosive methods are happening, the motor control center may be established in a separate air-conditioned room. Typically the MCC would be positioned on the factory floor adjacent to the machinery 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 complete maintenance or testing, while very big controllers can be bolted in place. Each and every motor controller consists of a solid state motor controller or a contractor, overload relays to protect the motor, fuses or circuit breakers to supply short-circuit protection and a disconnecting switch to be able to isolate the motor circuit. Separate connectors allow 3-phase power in order to enter the controller. The motor is wired to terminals located inside the controller. Motor control centers provide wire ways for field control and power cables.

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

There are numerous 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 along with internal control. On the other hand, they could be supplied ready for the client to connect all field wiring.

Motor control centers typically sit on the floor and must have a fire-resistance rating. Fire stops can be required for cables which penetrate fire-rated walls and floors.