

Forklift Drive Motor

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

Motor control centers are a modern practice in factory assembly for some motor starters. This particular equipment can consist of programmable controllers, metering and variable frequency drives. The MCC's are normally found in the electrical service entrance for a building. Motor control centers commonly are used for low voltage, 3-phase alternating current motors which range from 230 V to 600V. Medium voltage motor control centers are designed for big motors that vary from 2300V to 15000 V. These units use vacuum contractors for switching with separate compartments to be able to achieve power control and switching.

In factory area and locations which have dusty or corrosive processing, the MCC could be installed in climate controlled separated locations. Normally the MCC would be positioned on the factory floor near the machines 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 could be bolted into place, whereas smaller controllers could be unplugged from the cabinet. Each motor controller consists of a contractor or a solid state motor controller, overload relays In order to protect the motor, fuses or circuit breakers to provide short-circuit protection and a disconnecting switch so as to isolate the motor circuit. Separate connectors enable 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 power cables and field control.

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

There are several alternatives concerning delivery of MCC's to the customer. 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 can be provided ready for the customer to connect all field wiring.

MCC's generally sit on floors which are required to have a fire-resistance rating. Fire stops may be necessary for cables that penetrate fire-rated floors and walls.