Forklift Drive Motors

Forklift Drive Motor - Motor Control Centers or likewise called MCC's, are an assembly of one or more enclosed sections, which have a common power bus mainly consisting of motor control units. They have been utilized since the 1950's by the automobile industry, in view of the fact that they utilized many electric motors. Nowadays, they are utilized in other commercial and industrial applications.

Inside factory assembly for motor starter; motor control centers are quite common technique. The MCC's consist of variable frequency drives, programmable controllers and metering. The MCC's are commonly found in the electrical service entrance for a building. Motor control centers frequently are utilized for low voltage, 3-phase alternating current motors that vary 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 make use of vacuum contractors for switching with separate compartments in order to attain power switching and control.

In factory locations and area that have corrosive or dusty processing, the MCC could be installed in climate controlled separated locations. Usually the MCC will be positioned on the factory floor adjacent to 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 to be able to complete testing or maintenance, whereas really big controllers can be bolted in place. Each motor controller has a solid state motor controller or a contractor, overload relays to protect the motor, fuses or circuit breakers to supply short-circuit protection as well as a disconnecting switch to be able 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 supply wire ways for field control and power cables.

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

Concerning the delivery of motor control centers, there are various alternatives for the customer. 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 provided prepared for the customer to connect all field wiring.

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