Forklift Drive Motors

Drive Motor for Forklifts - MCC's or otherwise known as Motor Control Centersare an assembly of one section or more which have a common power bus. These have been used in the vehicle trade since the 1950's, for the reason that they were used a lot of electric motors. Today, they are utilized in other industrial and commercial applications.

Motor control centers are a modern method in factory assembly for some motor starters. This particular machine could consist of programmable controllers, metering and variable frequency drives. The MCC's are usually used 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 V to 600V. Medium voltage motor control centers are made for large motors that range from 2300V to 15000 V. These units make use of vacuum contractors for switching with separate compartments to be able to achieve power control and switching.

Within factory locations and area which have dusty or corrosive processing, the MCC can be installed in climate controlled separated locations. Normally the MCC would be situated 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 may be unplugged from the cabinet so as to complete testing or maintenance, whereas very large controllers can be bolted in place. Every motor controller has a contractor or a solid state motor controller, overload relays In order to protect the motor, fuses or circuit breakers so as to provide short-circuit protection and a disconnecting switch to be able to isolate the motor circuit. Separate connectors allow 3-phase power so as to enter the controller. The motor is wired to terminals positioned inside the controller. Motor control centers provide wire ways for field control and power cables.

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

Regarding the delivery of motor control centers, there are various choices for the customer. These could be delivered as an engineered assembly with a programmable controller along 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 customer to connect all field wiring.

MCC's generally sit on floors that must have a fire-resistance rating. Fire stops could be necessary for cables that go through fire-rated floors and walls.