Drive Motor for Forklift

Forklift Drive Motors - MCC's or Motor Control Centersare an assembly of one section or more which have a common power bus. These have been utilized in the auto trade since the 1950's, as they were made use of lots of electric motors. Now, they are utilized in different commercial and industrial applications.

Motor control centers are a modern technique in factory assembly for some motor starters. This particular equipment can consist of variable frequency drives, programmable controllers and metering. The MCC's are usually used in the electrical service entrance for a building. Motor control centers commonly 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 accomplish power switching and control.

Within factory locations and area which have corrosive or dusty processing, the MCC could be installed in climate controlled separated locations. Typically the MCC would be located on the factory floor next 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 in order to complete testing or maintenance, whereas really large controllers could be bolted in place. Each 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 as well as a disconnecting switch to be able to isolate the motor circuit. Separate connectors allow 3-phase power to enter the controller. The motor is wired to terminals positioned in the controller. Motor control centers offer wire ways for field control and power cables.

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

There are several alternatives regarding delivery of MCC's to the client. They could be delivered as an engineered assembly with interlocking wiring to a central control terminal panel board or programmable controller together with internal control. On the other hand, they could be provided ready for the customer to connect all field wiring.

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