Forklift Drive Motors

Forklift Drive Motor - MCC's or Motor Control Centersare an assembly of one or more sections that contain a common power bus. These have been used in the automobile business since the 1950's, as they were made use of a lot of electric motors. These days, they are utilized in different industrial and commercial applications.

Inside factory assembly for motor starter; motor control centers are quite common method. The MCC's consist of metering, variable frequency drives and programmable controllers. The MCC's are commonly seen in the electrical service entrance for a building. Motor control centers frequently are used for low voltage, 3-phase alternating current motors that vary from 230 V to 600V. Medium voltage motor control centers are designed for big motors which range from 2300V to 15000 V. These units use vacuum contractors for switching with separate compartments in order to accomplish power switching and control.

In places where extremely dusty or corrosive processes are taking place, the motor control center could be established in a separate air-conditioned room. Typically the MCC would be positioned on the factory floor near the machines 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 in order to complete maintenance or testing, whereas extremely large controllers can be bolted in place. Each motor controller consists of a solid state motor controller or a contractor, overload relays to protect the motor, circuit breaker or fuses so as to provide short-circuit protection and a disconnecting switch in order to isolate the motor circuit. Separate connectors allow 3-phase power to be able to enter the controller. The motor is wired to terminals positioned in the controller. Motor control centers supply wire ways for field control and power cables.

Inside a motor control center, each and every motor controller could be specified with a lot of various choices. Some of the choices include: pilot lamps, separate control transformers, extra control terminal blocks, control switches, and various types of bi-metal and solid-state overload protection relays. They likewise comprise different classes of types of power fuses and circuit breakers.

There are a lot of alternatives concerning delivery of MCC's to the customer. They could 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 provided prepared for the client to connect all field wiring.

Motor control centers typically sit on the floor and should have a fire-resistance rating. Fire stops may be necessary for cables that penetrate fire-rated walls and floors.