Forklift Drive Motors

Forklift Drive Motor - MCC's or also known as Motor Control Centersare an assembly of one section or more that include a common power bus. These have been utilized in the auto industry ever since the 1950's, for the reason that they were used a lot of electric motors. These days, they are used in other commercial and industrial applications.

Inside factory assembly for motor starter; motor control centers are rather common method. The MCC's include programmable controllers, metering and variable frequency drives. The MCC's are usually seen 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 made for big motors that vary from 2300V to 15000 V. These units use vacuum contractors for switching with separate compartments so as to accomplish power switching and control.

Inside factory area and locations which have dusty or corrosive processing, the MCC could be installed in climate controlled separated locations. Usually the MCC will be situated on the factory floor adjacent 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 to complete maintenance or testing, while really big controllers could be bolted in place. Every motor controller has a solid state motor controller or a contractor, overload relays to protect the motor, fuses or circuit breakers to provide 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 situated inside the controller. Motor control centers provide wire ways for field control and power cables.

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

Concerning the delivery of motor control centers, there are a lot of options for the client. 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. Conversely, they could be supplied set for the client to connect all field wiring.

Motor control centers usually sit on the floor and must have a fire-resistance rating. Fire stops can be needed for cables which go through fire-rated walls and floors.