Forklift Drive Motor

Drive Motor for Forklifts - MCC's or Motor Control Centersare an assembly of one or more sections that contain a common power bus. These have been utilized in the automobile industry since the 1950's, as they were utilized a large number of electric motors. Today, they are used in different commercial and industrial applications.

Within factory assembly for motor starter; motor control centers are quite common technique. The MCC's comprise variable frequency drives, programmable controllers and metering. The MCC's are usually seen in the electrical service entrance for a building. Motor control centers commonly are utilized for low voltage, 3-phase alternating current motors which range from 230 V to 600V. Medium voltage motor control centers are designed for large motors which range from 2300V to 15000 V. These units utilize vacuum contractors for switching with separate compartments in order to achieve power switching and control.

Within factory locations and area that have corrosive or dusty processing, the MCC could be installed in climate controlled separated locations. Usually the MCC would be situated on the factory floor adjacent to the machinery it is controlling.

For plug-in mounting of individual motor controls, A motor control center has one or more vertical metal cabinet sections with power bus. To complete testing or maintenance, really big controllers could be bolted into place, while smaller controllers can be unplugged from the cabinet. Each motor controller has a contractor or a solid state motor controller, overload relays to protect the motor, circuit breaker or fuses 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 in the controller. Motor control centers supply wire ways for field control and power cables.

Each motor controller in a motor control center could be specified with various alternatives. These choices 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 likewise comprise various classes of kinds of circuit breakers and power fuses.

Regarding the delivery of motor control centers, there are several alternatives for the client. These can 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. Conversely, they can be provided set for the customer to connect all field wiring.

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