Drive Motor for Forklift

Forklift Drive Motor - Motor Control Centers or also called MCC's, are an assembly of one enclosed section or more, which have a common power bus principally containing motor control units. They have been used ever since the 1950's by the vehicle industry, as they utilized a lot of electric motors. Now, they are utilized in various commercial and industrial applications.

Within factory assembly for motor starter; motor control centers are quite common method. The MCC's 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 intended for large motors which range from 2300 volts to 15000 volts. These units make use of vacuum contractors for switching with separate compartments to be able to achieve 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. Usually the MCC will be located on the factory floor near the equipment 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 maintenance or testing, very large controllers could be bolted into place, whereas smaller controllers can be unplugged from the cabinet. Each motor controller consists of a solid state motor controller or a contractor, overload relays so as to protect the motor, circuit breaker or fuses so as to provide short-circuit protection as well as a disconnecting switch in order 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 supply wire ways for power cables and field control.

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

There are lots of options regarding delivery of MCC's to the customer. They can 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 can be provided ready for the customer to connect all field wiring.

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