Drive Motor for Forklift

Drive Motor for Forklift - MCC's or Motor Control Centersare an assembly of one section or more which have a common power bus. These have been used in the vehicle industry since the 1950's, as they were made use of lots of electric motors. These days, they are used in other commercial and industrial applications.

Within factory assembly for motor starter; motor control centers are somewhat common technique. The MCC's comprise metering, variable frequency drives and programmable controllers. The MCC's are commonly used in the electrical service entrance for a building. Motor control centers often 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 large motors that range from 2300V to 15000 V. These units use vacuum contractors for switching with separate compartments in order to accomplish power control and switching.

Within factory locations and area that have dusty or corrosive processing, the MCC can be installed in climate controlled separated locations. Usually the MCC would be positioned on the factory floor close to the machines 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. In order to complete maintenance or testing, really large controllers can be bolted into place, whereas 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 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 supply wire ways for field control and power cables.

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

Regarding the delivery of motor control centers, there are several alternatives for the consumer. These could 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.

MCC's usually sit on floors which must have a fire-resistance rating. Fire stops may be necessary for cables that go through fire-rated floors and walls.