Drive Motor for Forklift

Drive Motor for Forklifts - Motor Control Centers or MCC's, are an assembly of one or more enclosed sections, that have a common power bus mostly comprising motor control units. They have been utilized since the 1950's by the auto business, in view of the fact that they made use of a large number of electric motors. Today, they are used in various industrial and commercial applications.

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

In areas where extremely corrosive or dusty processes are occurring, the motor control center can be installed in a separate air-conditioned room. Typically the MCC will be positioned on the factory floor next to the machinery 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 can be unplugged from the cabinet to complete testing or maintenance, whereas extremely big controllers can be bolted in place. Each motor controller has a solid state motor controller or a contractor, overload relays to protect the motor, circuit breaker or fuses to provide short-circuit protection as well as a disconnecting switch so as to isolate the motor circuit. Separate connectors enable 3-phase power to enter the controller. The motor is wired to terminals positioned inside the controller. Motor control centers offer wire ways for power cables and field control.

In a motor control center, each and every motor controller could be specified with several different alternatives. Some of the options include: extra control terminal blocks, control switches, pilot lamps, separate control transformers, and many kinds of solid-state and bi-metal overload protection relays. They even have different classes of kinds of circuit breakers and power fuses.

There are a lot of choices 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. Conversely, they can be supplied ready for the client to connect all field wiring.

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