Forklift Drive Motor

Drive Motor for Forklifts - Motor Control Centers or MCC's, are an assembly of one or more enclosed sections, which have a common power bus principally consisting of motor control units. They have been utilized since the 1950's by the vehicle business, for the reason that they made use of many electric motors. These days, they are used in a variety of industrial and commercial applications.

Motor control centers are a modern practice in factory assembly for some motor starters. This machine can consist of programmable controllers, metering and variable frequency drives. The MCC's are commonly utilized in the electrical service entrance for a building. Motor control centers frequently are utilized for low voltage, 3-phase alternating current motors that vary from 230 volts to 600 volts. Medium voltage motor control centers are designed for large motors that range from 2300V to 15000 V. These units make use of vacuum contractors for switching with separate compartments so as to accomplish power control and switching.

In places where extremely dusty or corrosive processes are occurring, the motor control center may be installed in a separate air-conditioned room. Normally the MCC will be positioned on the factory floor adjacent to the equipment 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 may be unplugged from the cabinet to complete maintenance or testing, whereas very large controllers could be bolted in place. Each and every motor controller has a solid state motor controller or a contractor, overload relays to be able to protect the motor, circuit breaker or fuses in order to supply 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 situated in the controller. Motor control centers offer wire ways for field control and power cables.

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

There are lots of choices concerning delivery of MCC's to the customer. They could 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 set for the client to connect all field wiring.

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