

Drive Motor for Forklifts

Forklift Drive Motor - MCC's or likewise known as Motor Control Centers are an assembly of one or more sections which have a common power bus. These have been utilized in the auto business ever since the 1950's, in view of the fact that they were made use of a lot of electric motors. Today, they are used in various commercial and industrial applications.

Inside factory assembly for motor starter; motor control centers are fairly common method. The MCC's include 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 that vary from 230 volts to 600 volts. Medium voltage motor control centers are designed for big motors which vary from 2300V to 15000 V. These units use vacuum contractors for switching with separate compartments in order to accomplish power switching and control.

In areas where really corrosive or dusty processes are occurring, the motor control center may be established in a separate air-conditioned room. Typically the MCC will be situated on the factory floor close to the equipment it is controlling.

A MCC has one or more vertical metallic cabinet sections with power bus and provisions for plug-in mounting of individual motor controllers. Smaller controllers could be unplugged from the cabinet to complete testing or maintenance, whereas very large controllers could be bolted in place. Every motor controller has a contractor or a solid state motor controller, overload relays to be able to protect the motor, fuses or circuit breakers 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 so as to enter the controller. The motor is wired to terminals situated inside the controller. Motor control centers provide wire ways for power cables and field control.

Inside a motor control center, each and every motor controller could be specified with numerous different options. Some of the choices 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 also comprise various classes of kinds of circuit breakers and power fuses.

There are various options regarding 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 along with internal control. On the other hand, they could be provided set for the customer to connect all field wiring.

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