

Drive Motor for Forklifts

Drive Motor for Forklift - Motor Control Centers or also called MCC's, are an assembly of one enclosed section or more, that have a common power bus mainly comprising motor control units. They have been used ever since the 1950's by the vehicle industry, because they utilized lots of electric motors. Nowadays, they are utilized in a variety of commercial and industrial applications.

In factory assembly for motor starter; motor control centers are somewhat common method. The MCC's consist of metering, variable frequency drives and programmable controllers. The MCC's are usually seen in the electrical service entrance for a building. Motor control centers commonly are utilized for low voltage, 3-phase alternating current motors that range from 230 volts to 600 volts. Medium voltage motor control centers are designed for big motors which vary 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.

Inside factory locations and area which have dusty or corrosive processing, the MCC can be installed in climate controlled separated locations. Usually the MCC would be located on the factory floor near 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 can be unplugged from the cabinet in order to complete testing or maintenance, whereas very big controllers can be bolted in place. Each motor controller has a contractor or a solid state motor controller, overload relays to protect the motor, circuit breaker or fuses to be able to supply short-circuit protection and 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 positioned inside the controller. Motor control centers offer wire ways for power cables and field control.

Each motor controller in a motor control center can be specified with different options. These options include: separate control transformers, extra control terminal blocks, control switches, pilot lamps, and many types of solid-state and bi-metal overload protection relays. They even comprise different classes of kinds of circuit breakers and power fuses.

There are several choices regarding delivery of MCC's to the client. 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 could be provided set for the client to connect all field wiring.

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