

Drive Motor Forklifts

Forklift Drive Motor - Motor Control Centers or likewise called MCC's, are an assembly of one or more enclosed sections, which have a common power bus mostly comprising motor control units. They have been utilized since the 1950's by the vehicle trade, since they used lots of electric motors. These days, they are used in various industrial and commercial applications.

Inside factory assembly for motor starter; motor control centers are quite common practice. The MCC's consist of variable frequency drives, programmable controllers and metering. The MCC's are usually found in the electrical service entrance for a building. Motor control centers often 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 in order to achieve power control and switching.

Within factory locations and area which have corrosive or dusty processing, the MCC can be installed in climate controlled separated locations. Normally the MCC would be situated on the factory floor near the machinery 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 may be unplugged from the cabinet to be able to complete testing or maintenance, while very big controllers can be bolted in place. Each and every motor controller consists of a solid state motor controller or a contractor, overload relays to protect the motor, circuit breaker or fuses to provide short-circuit protection and a disconnecting switch so as to isolate the motor circuit. Separate connectors allow 3-phase power to be able 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 inside a motor control center can be specified with different options. These choices include: pilot lamps, separate control transformers, extra control terminal blocks, control switches, and many types of solid-state and bi-metal overload protection relays. They even comprise various classes of types of power fuses and circuit breakers.

Regarding the delivery of motor control centers, there are a lot of alternatives for the consumer. These can 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 could be provided prepared for the client to connect all field wiring.

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