

Drive Motor Forklift

Forklift Drive Motors - MCC's or likewise known as Motor Control Centers are an assembly of one or more sections which include a common power bus. These have been utilized in the vehicle trade ever since the 1950's, since they were used a lot of electric motors. These days, they are utilized in various commercial and industrial applications.

In factory assembly for motor starter; motor control centers are quite common technique. The MCC's consist of metering, variable frequency drives and programmable controllers. The MCC's are normally used in the electrical service entrance for a building. Motor control centers commonly are used for low voltage, 3-phase alternating current motors that range from 230 volts to 600 volts. Medium voltage motor control centers are made for large motors that range from 2300V to 15000 V. These units use vacuum contractors for switching with separate compartments so as to achieve power switching and control.

In factory locations and area which have corrosive or dusty processing, the MCC can be installed in climate controlled separated locations. Usually the MCC would be positioned 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 could be unplugged from the cabinet so as to complete testing or maintenance, while extremely big controllers could be bolted in place. Each motor controller consists of a solid state motor controller or a contractor, overload relays. In order to protect the motor, fuses or circuit breakers to provide short-circuit protection as well as a disconnecting switch in order to isolate the motor circuit. Separate connectors allow 3-phase power to enter the controller. The motor is wired to terminals positioned in the controller. Motor control centers supply wire ways for power cables and field control.

Every motor controller within a motor control center can be specified with different alternatives. These choices comprise: extra control terminal blocks, control switches, pilot lamps, separate control transformers, and various kinds of bi-metal and solid-state overload protection relays. They likewise comprise different classes of kinds of power fuses and circuit breakers.

There are several 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 together with internal control. On the other hand, they can be supplied ready for the customer to connect all field wiring.

MCC's usually sit on floors which must have a fire-resistance rating. Fire stops can be required for cables which penetrate fire-rated floors and walls.