

Drive Motor Forklift

Forklift Drive Motor - Motor Control Centers or likewise called MCC's, are an assembly of one enclosed section or more, which have a common power bus principally consisting of motor control units. They have been used since the 1950's by the automobile trade, because they used many electric motors. Now, they are utilized in various industrial and commercial applications.

In factory assembly for motor starter; motor control centers are fairly common practice. The MCC's consist of metering, variable frequency drives and programmable controllers. The MCC's are usually utilized in the electrical service entrance for a building. Motor control centers commonly are utilized for low voltage, 3-phase alternating current motors which vary from 230 volts to 600 volts. Medium voltage motor control centers are designed for big motors that range from 2300 volts to 15000 volts. These units utilize vacuum contractors for switching with separate compartments to be able to attain power switching and control.

In places where very corrosive or dusty processes are happening, the motor control center could be established in a separate air-conditioned room. Typically the MCC will be situated on the factory floor adjacent to 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 complete testing or maintenance, whereas extremely large controllers could be bolted in place. Each motor controller consists of a contractor or a solid state motor controller, overload relays to be able to protect the motor, fuses or circuit breakers in order to provide short-circuit protection as well as a disconnecting switch in order to isolate the motor circuit. Separate connectors allow 3-phase power in order to enter the controller. The motor is wired to terminals situated in the controller. Motor control centers supply wire ways for field control and power cables.

Every motor controller inside a motor control center could be specified with a range of options. These alternatives consist of: control switches, pilot lamps, separate control transformers, extra control terminal blocks, as well as many types of solid-state and bi-metal overload protection relays. They likewise have various classes of kinds of power fuses and circuit breakers.

There are many options 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. Conversely, they can be provided prepared for the customer to connect all field wiring.

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