

Drive Motor Forklift

Forklift Drive Motor - Motor Control Centers or also called MCC's, are an assembly of one enclosed section or more, that have a common power bus principally consisting of motor control units. They have been used ever since the 1950's by the vehicle business, as they utilized a large number of electric motors. Today, they are used in various commercial and industrial applications.

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

In locations where very dusty or corrosive processes are occurring, the motor control center may be installed in a separate air-conditioned room. Normally the MCC would be positioned on the factory floor close 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 could be unplugged from the cabinet to be able to complete maintenance or testing, 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, fuses or circuit breakers so as to supply short-circuit protection and a disconnecting switch in order to isolate the motor circuit. Separate connectors enable 3-phase power in order to enter the controller. The motor is wired to terminals situated in the controller. Motor control centers offer wire ways for field control and power cables.

Each motor controller within a motor control center can be specified with a range of choices. These options consist of: extra control terminal blocks, control switches, pilot lamps, separate control transformers, and numerous kinds of solid-state and bi-metal overload protection relays. They even have different classes of kinds of power fuses and circuit breakers.

Concerning the delivery of motor control centers, there are a lot of alternatives for the consumer. These could 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 can be supplied ready 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 penetrate fire-rated floors and walls.