

Drive Motor Forklifts

Forklift Drive Motors - Motor Control Centers or likewise called MCC's, are an assembly of one enclosed section or more, that have a common power bus mainly consisting of motor control units. They have been utilized ever since the 1950's by the vehicle business, as they utilized a lot of electric motors. These days, they are used in other commercial and industrial applications.

Within 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 normally seen in the electrical service entrance for a building. Motor control centers frequently are utilized for low voltage, 3-phase alternating current motors which vary from 230 volts to 600 volts. Medium voltage motor control centers are made for big motors that range from 2300 volts to 15000 volts. These units use vacuum contractors for switching with separate compartments in order to accomplish power control and switching.

In places where very dusty or corrosive processes are occurring, the motor control center can be installed in a separate air-conditioned room. Usually the MCC will be situated on the factory floor next to the equipment it is controlling.

For plug-in mounting of individual motor controls, A motor control center has one or more vertical metal cabinet sections with power bus. In order to complete testing or maintenance, really big controllers could be bolted into place, while smaller controllers can be unplugged from the cabinet. 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 to provide short-circuit protection and a disconnecting switch so as to isolate the motor circuit. Separate connectors enable 3-phase power to enter the controller. The motor is wired to terminals located within the controller. Motor control centers offer wire ways for field control and power cables.

Within a motor control center, each and every motor controller could be specified with many different options. Some of the choices include: pilot lamps, separate control transformers, extra control terminal blocks, control switches, and many types of bi-metal and solid-state overload protection relays. They even comprise different classes of types of circuit breakers and power fuses.

There are lots of choices 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 along with internal control. Conversely, they could be supplied prepared for the customer to connect all field wiring.

MCC's generally sit on floors which must have a fire-resistance rating. Fire stops may be needed for cables that go through fire-rated floors and walls.