

Drive Motor for Forklift

Forklift Drive Motor - MCC's or also known as Motor Control Centers are an assembly of one section or more that include a common power bus. These have been utilized in the vehicle trade since the 1950's, since they were used lots of electric motors. Now, they are utilized in different industrial and commercial applications.

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

In locations where very dusty or corrosive methods 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, whereas really large controllers can be bolted in place. Each and every 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 supply short-circuit protection as well as a disconnecting switch to be able 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 offer wire ways for field control and power cables.

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

There are a lot of alternatives concerning delivery of MCC's to the customer. They can 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 provided ready for the client to connect all field wiring.

Motor control centers usually sit on the floor and should have a fire-resistance rating. Fire stops could be needed for cables which penetrate fire-rated floors and walls.