

Forklift Drive Motors

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

Motor control centers are a modern technique in factory assembly for some motor starters. This particular machinery can comprise variable frequency drives, programmable controllers and metering. The MCC's are commonly used in the electrical service entrance for a building. Motor control centers often are utilized for low voltage, 3-phase alternating current motors which range from 230 V to 600V. Medium voltage motor control centers are intended for large motors that vary from 2300V to 15000 V. These units use vacuum contractors for switching with separate compartments so as to achieve power switching and control.

In areas where very corrosive or dusty processes are taking place, the motor control center could be established in a separate air-conditioned room. Usually the MCC will be situated on the factory floor close 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. To be able to complete testing or maintenance, very big controllers could be bolted into place, whereas smaller controllers can be unplugged from the cabinet. Every motor controller has a contractor or a solid state motor controller, overload relays so as to protect the motor, fuses or circuit breakers to provide short-circuit protection and a disconnecting switch to be able to isolate the motor circuit. Separate connectors allow 3-phase power so as to enter the controller. The motor is wired to terminals positioned within the controller. Motor control centers supply wire ways for field control and power cables.

Each motor controller in a motor control center could be specified with several alternatives. These alternatives consist of: extra control terminal blocks, control switches, pilot lamps, separate control transformers, and 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 lots of options regarding delivery of MCC's to the client. They can be delivered as an engineered assembly with interlocking wiring to a central control terminal panel board or programmable controller along with internal control. On the other hand, they can be provided ready for the customer to connect all field wiring.

Motor control centers typically sit on the floor and must have a fire-resistance rating. Fire stops can be necessary for cables that go through fire-rated floors and walls.