

Drive Motor for Forklift

Drive Motor Forklift - Motor Control Centers or also called MCC's, are an assembly of one or more enclosed sections, that have a common power bus principally comprising motor control units. They have been utilized since the 1950's by the auto business, because they used lots of electric motors. Now, they are used in a variety of commercial and industrial applications.

Within factory assembly for motor starter; motor control centers are rather common practice. The MCC's include 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 utilized for low voltage, 3-phase alternating current motors that range from 230 V to 600V. Medium voltage motor control centers are designed for large motors which range from 2300V to 15000 V. These units use vacuum contractors for switching with separate compartments in order to attain power switching and control.

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

A MCC has one or more vertical metal cabinet sections with power bus and provisions for plug-in mounting of individual motor controllers. Smaller controllers may be unplugged from the cabinet to be able to complete maintenance or testing, while very large controllers can be bolted in place. Each and every motor controller has a solid state motor controller or a contractor, overload relays 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 be able to enter the controller. The motor is wired to terminals situated within the controller. Motor control centers supply wire ways for power cables and field control.

Inside a motor control center, each and every motor controller can be specified with a lot of different options. Some of the alternatives comprise: extra control terminal blocks, control switches, pilot lamps, separate control transformers, and various types of solid-state and bi-metal overload protection relays. They also have different classes of types of power fuses and circuit breakers.

Regarding the delivery of motor control centers, there are many options for the customer. These can be delivered as an engineered assembly with a programmable controller together with internal control or with interlocking wiring to a central control terminal panel board. On the other hand, they could be provided set for the client 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 which penetrate fire-rated floors and walls.