

Drive Motor for Forklift

Forklift Drive Motor - MCC's or Motor Control Centers are an assembly of one or more sections which contain a common power bus. These have been used in the vehicle industry ever since the 1950's, in view of the fact that they were utilized a large number of electric motors. These days, they are used in various industrial and commercial applications.

In factory assembly for motor starter; motor control centers are quite common method. The MCC's comprise programmable controllers, metering and variable frequency drives. The MCC's are normally utilized in the electrical service entrance for a building. Motor control centers often 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 large motors that vary from 2300 volts to 15000 volts. These units utilize vacuum contractors for switching with separate compartments to be able to accomplish power switching and control.

In areas where very corrosive or dusty processes are occurring, the motor control center could be established in a separate air-conditioned room. Typically the MCC would be positioned on the factory floor adjacent 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 can be unplugged from the cabinet to be able to complete maintenance or testing, while extremely big controllers can be bolted in place. Each motor controller consists of a solid state motor controller or a contractor, overload relays in order to protect the motor, circuit breaker or fuses to be able to supply short-circuit protection as well as a disconnecting switch in order to isolate the motor circuit. Separate connectors enable 3-phase power to enter the controller. The motor is wired to terminals positioned inside the controller. Motor control centers supply wire ways for field control and power cables.

Each motor controller inside a motor control center can be specified with various choices. These alternatives include: pilot lamps, separate control transformers, extra control terminal blocks, control switches, and numerous kinds of bi-metal and solid-state overload protection relays. They also comprise different classes of kinds of power fuses and circuit breakers.

There are several options 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. Conversely, they can be provided ready for the client to connect all field wiring.

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