

Drive Motor Forklift

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

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

In factory area and locations which have corrosive or dusty processing, the MCC can be installed in climate controlled separated locations. Usually the MCC will be located on the factory floor near 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 in order to complete maintenance or testing, whereas really large controllers could be bolted in place. Each motor controller has a contractor or a solid state motor controller, overload relays to protect the motor, circuit breaker or fuses to provide short-circuit protection as well as a disconnecting switch so as to isolate the motor circuit. Separate connectors allow 3-phase power to enter the controller. The motor is wired to terminals located inside the controller. Motor control centers supply wire ways for power cables and field control.

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

Regarding the delivery of motor control centers, there are various alternatives for the consumer. These could 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 normally sit on the floor and should have a fire-resistance rating. Fire stops can be required for cables which penetrate fire-rated floors and walls.